

**COMODO**  
Creating Trust Online®



# Comodo **BackUp**

Software Version 3.0

## User Guide

Guide Version 3.0.011311

Comodo Security Solutions  
525 Washington Blvd.  
Jersey City, NJ 07310

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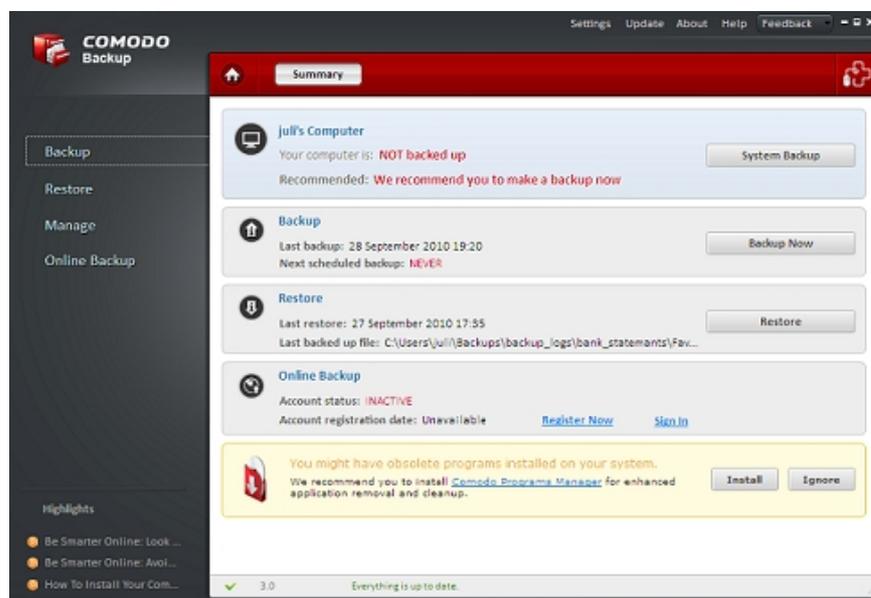
# 1. Comodo BackUp - Introduction

Comodo BackUp is the powerful and easy to use desktop application that helps home and business users protect their valuable data against damage or loss.

The application's streamlined design and task orientated architecture means even novice users can learn how to create, run and restore their first backup job in a matter of minutes. Other features include full scheduling, password protection, a backup integrity checker and a range of preset backup jobs that allow you to quickly create copies of important data sets such as the Windows Registry, mail accounts and user settings.

Comodo BackUp is also seamlessly integrated to Windows Explorer so that you can just select the folders or files you want to back up, right click on them and quick start the Back Up wizard.

## Features and benefits:



- **Quick backup** of entire drives or individual files or folders to your local computer, network drive, FTP server or Comodo's online server
- **Step by step wizards** to guide even novice users through the entire backup, restore and scheduling procedures
- **Flexible storage options** allow you to specify full, incremental or differential backups
- **Protection** of invaluable personal and business data from loss or corruption
- **Quick recovery** of files with a few clicks of the mouse
- **Granular scheduling options** to take automatic backups at a time that suits you
- **Real-time backups** synchronization feature to get your files copied over as soon as you save them
- **Built in checker** to confirm the integrity of your backup files before committing to a restore
- **Backup presets** including mail folders, windows registry, messenger archives and master boot records
- **Powerful encryption options** to protect your files so that it cannot be accessed by anyone but you
- **Online Storage** facility to store your backup files in highly secured online storage space, which can be also be mounted as a virtual drive in your system
- Command line and scripting support to automate the online backup and restore operations

## Guide Structure

This guide is intended to take the user through the installation, configuration and use of Comodo BackUp.

- **Comodo BackUp - Introduction** - An overview of the application.
- **System Requirements** - Minimum required Hardware and Software for the installation

- **Installing Comodo BackUp** - A brief outline of the installation procedure
- **Starting Comodo BackUp** - How to start the application
- **The Main Interface** - Description of Menus and Options in the main interface.
- **The Summary Area** - Description of the Summary screen
- **Backup** - Guidance on creating Backups in Simple Mode and Advanced Mode
  - **Creating a New Backup Job** - Detailed help on every stage of creating a Backup of your files and settings.
    - **Simple Mode** - Guidance on creating quick backups with a few mouse clicks
      - **Selecting the Backup Source**
      - **Selecting a Destination to Backup**
      - **Schedule The Backup (optional)**
      - **Run The Backup**
    - **Advanced Mode** - Guidance on creating backups with granular configuration
      - **Selecting the Backup Source and Backup Format**
      - **Selecting a Destination to Backup**
      - **Configuring Archive Settings**
      - **Configuring Advanced Backup Settings**
      - **Configuring Email Notification and Miscellaneous settings**
      - **Schedule The Backup (optional)**
      - **Run The Backup**
  - **Using pre-defined backup profiles**- A brief help on using the shortcuts for common backup tasks.
- **Restore Your Files and Settings** - Detailed help on every stage of restoring your files and settings from the backup files.
  - **Selecting the Restore Path**
  - **Viewing Restoration Information and Mounting Backup as Virtual Drive**
  - **Selecting the Files to Restore and Restore location**
  - **Selecting Restore Method**
  - **Finalization**
  - **Restoring Self Extracting Backups**
- **Managing Your Backups** - Description and guidance on usage of the history details maintained by Comodo BackUp, editing preconfigured backup schedules and mounting backups as virtual drives
  - **Viewing Backup History**
  - **Mounting Backups as Virtual Drives**
- **Configuring Your Comodo Online Storage Account** - Details on creating and viewing your online account in Comodo Server
  - **Creating a New Online Storage Account**
  - **Logging-in to Your Account and Managing Folders/Files on Your Online Storage Space**
  - **Managing Your Account**
  - **Troubleshooting Login Problems**
- **Comodo BackUp Settings** - Details on configuration of overall behavior of the application.
- **Comodo BackUp Feedback** - The feedback feature allows users bi-directional communication with the Comodo BackUp development community.
  - **How to leave Feed**
- **Using Live Help** - Guidance on configuration and usage of Live PC Support.
- **Using the Command Line Interface and Script Files**- Details on Using the Command Line Interface and Script Files used by backup, restore and scheduling functionality from the Windows command line interface.
- **Uninstalling Comodo Backup** - A brief outline on uninstalling the application.
- **Getting Support** - Guidance on how to get technical support for Comodo BackUp.
- **Appendix 1 Encryption Algorithms** - Details on Encryption Algorithms used by Comodo BackUp for encrypting and storing your backup files.
- **Appendix 2 Live PC Support** - A brief account on Live PC Support

- **Appendix 3 Creating a Rescue Disk with WinPE / BartPE** - Explain how to use Comodo BackUP for restore operations with bartPE/winPE rescue disks
- **About Comodo.**

## 1.1. System Requirements

To ensure optimal performance of Comodo BackUP, please ensure that your PC complies with the minimum system requirements:

### Supported Operating Systems

Windows 7 (32bit and 64bit)

Windows Vista (Home/Business/Ultimate) (32bit and 64bit)

Windows XP SP2 (Home/Professional) (32bit and 64 bit)

Windows 2003 Server (32bit and 64 bit)

Windows 2008 Server (32bit and 64bit)

### Minimum Hardware

Intel Pentium III Processor or higher

256 MB RAM

23 MB Disk Space

## 1.2. Installing Comodo BackUp

Before you install Comodo Backup, read the installation instructions carefully and also review the system requirements listed in this chapter. Quit all other Windows programs before installing Comodo BackUP as other active programs may interfere with the installation.

After downloading the Comodo BackUP setup file to your local hard drive, double click on Setup.exe to start the installation wizard.

### Step 1 - Choosing the Interface Language

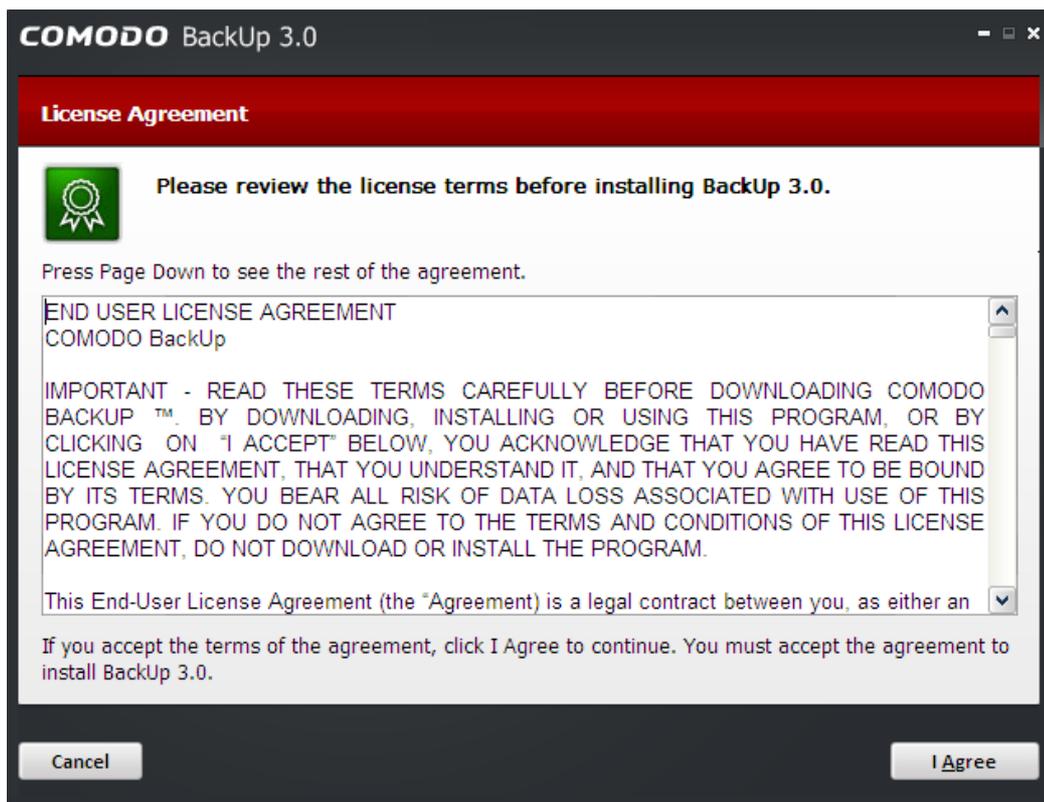
The set up program starts automatically and the Select Setup language dialog is displayed. Comodo BackUP is available in several languages.



- Select the language in which you want Comodo BackUP to be installed from the drop-down menu and click 'OK'.

### Step 2 - End User License Agreement

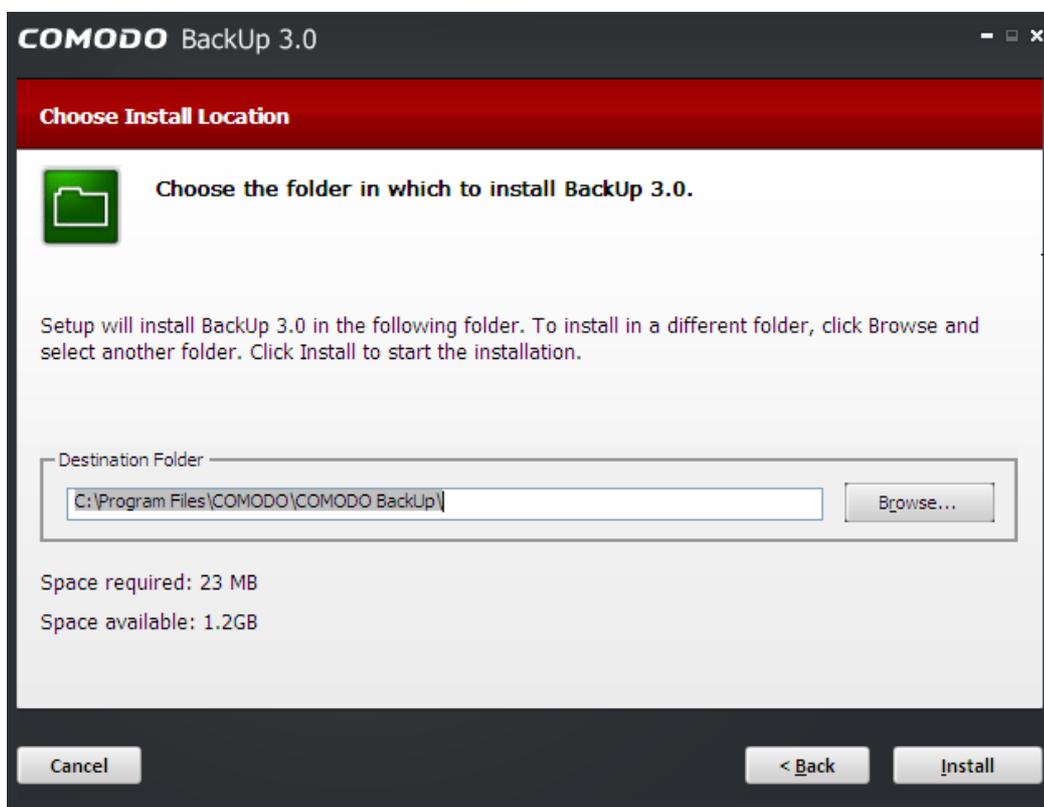
Complete the initialization phase by reading and accepting the End User License Agreement (EULA).



- Click 'I Agree' to continue installation. If you want to cancel the installation, click 'Cancel'.

### Step 3 - Select Installation Folder

The next screen allows you to select the folder in your hard drive for installing Comodo BackUp. The default path is C:\Program Files\Comodo\Comodo BackUp.

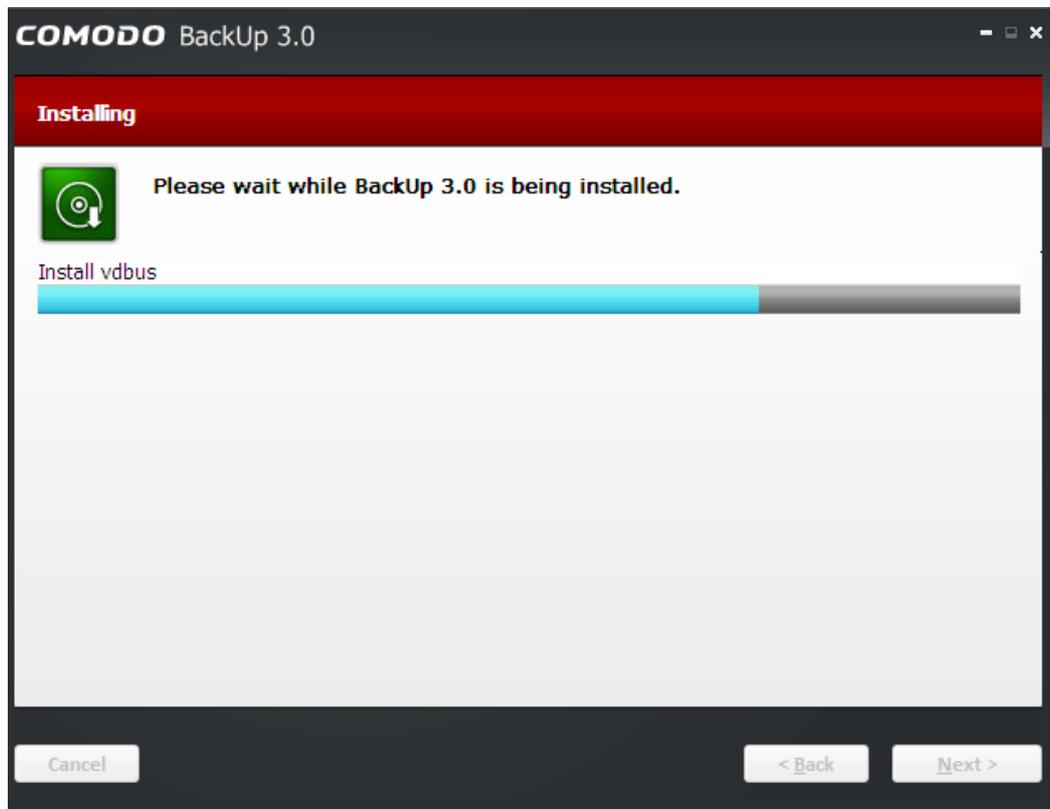


If you want to install the application in a location other than the default location, click 'Browse' to choose a different location.

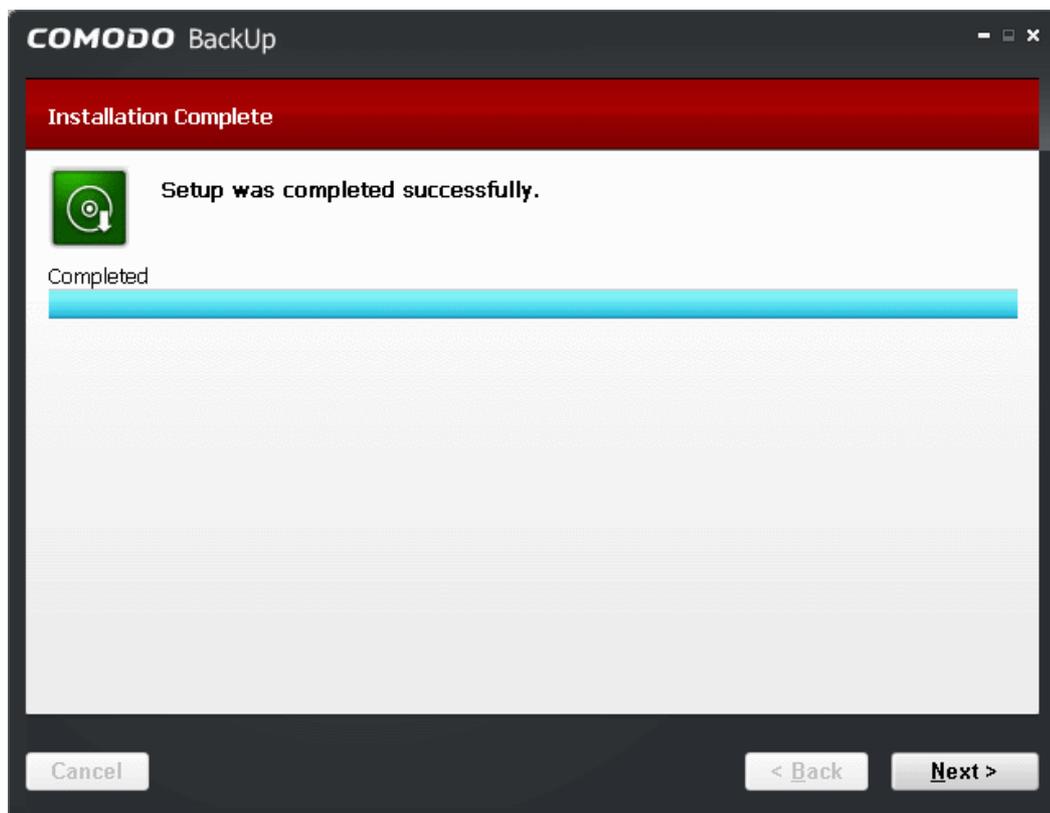
- Click the 'Back' button to review / change any of settings you specified before or press 'Install' to continue with installation process.

## Step 4 - Setup Progress

A setup status dialog box is displayed. You can see a progress bar indicating that the files are being installed.



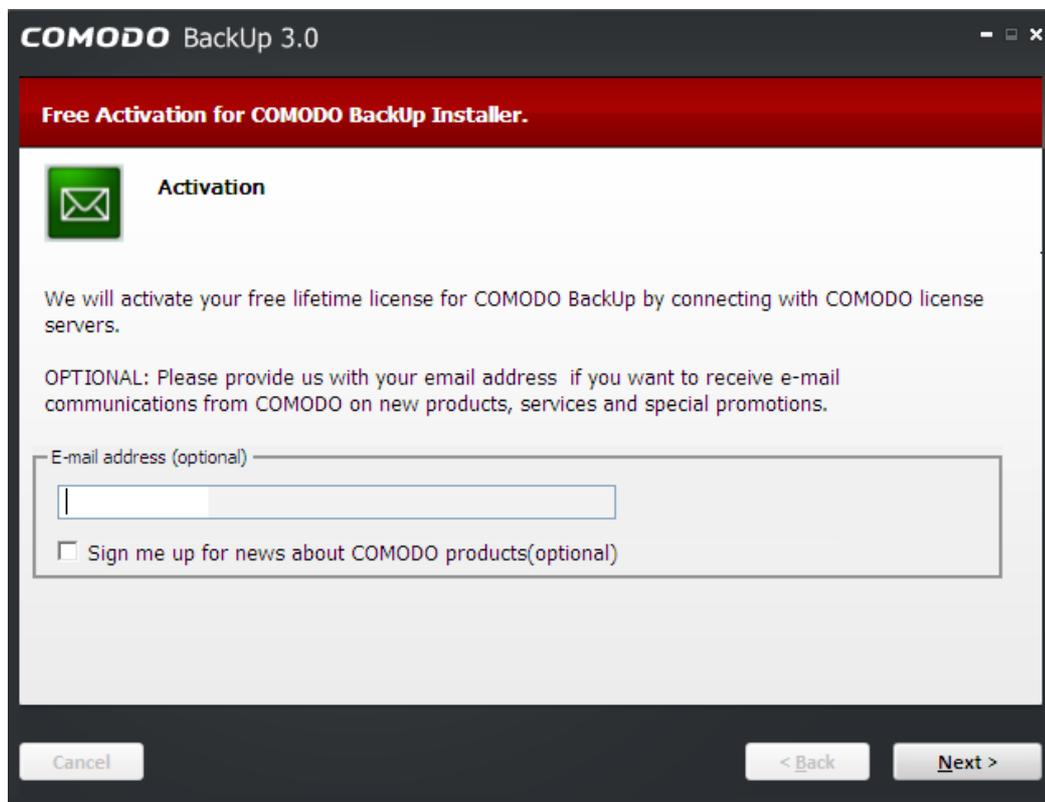
On completion, the 'Installation Complete' dialog will be displayed.



Click 'Next' to continue.

## Step 5 - Product Activation

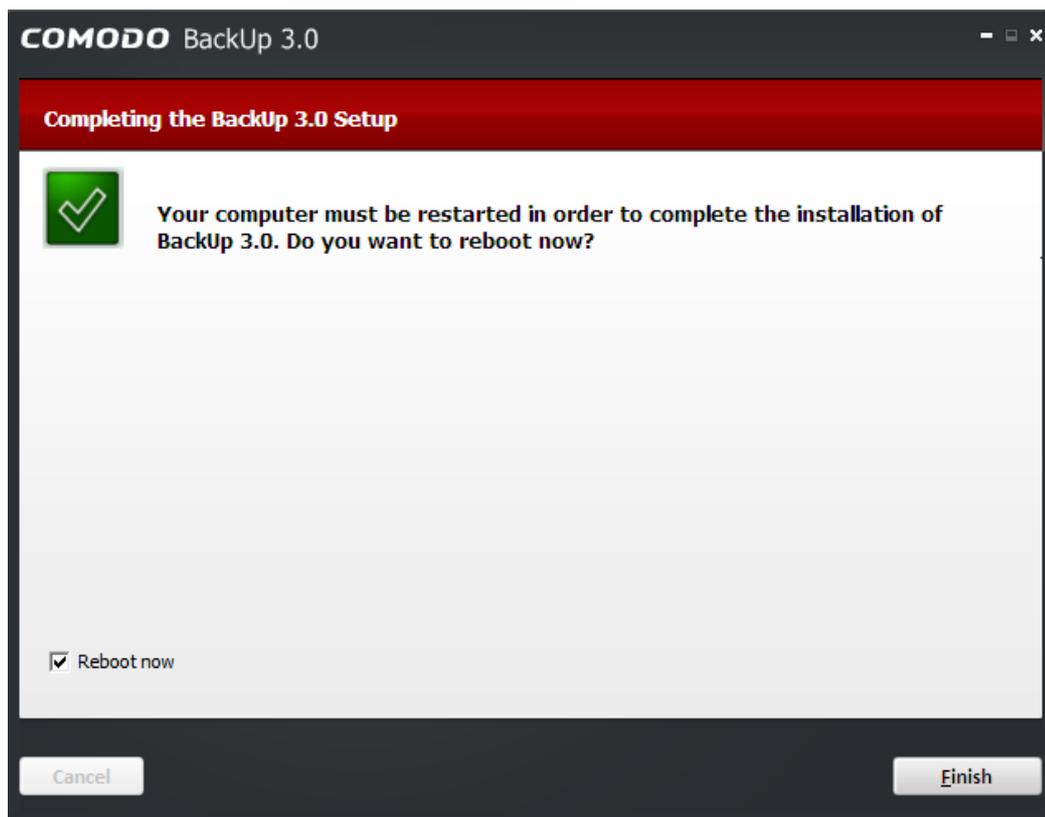
On completion of Installation, the product Activation dialog is displayed. Comodo BackUp is activated at free of cost for lifetime usage. If you wish to sign up for news about Comodo products then enter your email address in the space provided and select Sign me up for news about Comodo products.



This is optional. Click 'Next'.

## Step 6 - Installation Complete

The Installation Complete dialog is displayed indicating the successful completion of installation. For the installation to take effect, the system has to be restarted.



Please save any unsaved data, leave 'Reboot now' checkbox selected and click 'Finish'. If you want to restart the system at a later time, uncheck 'Reboot now' checkbox click 'Finish'.

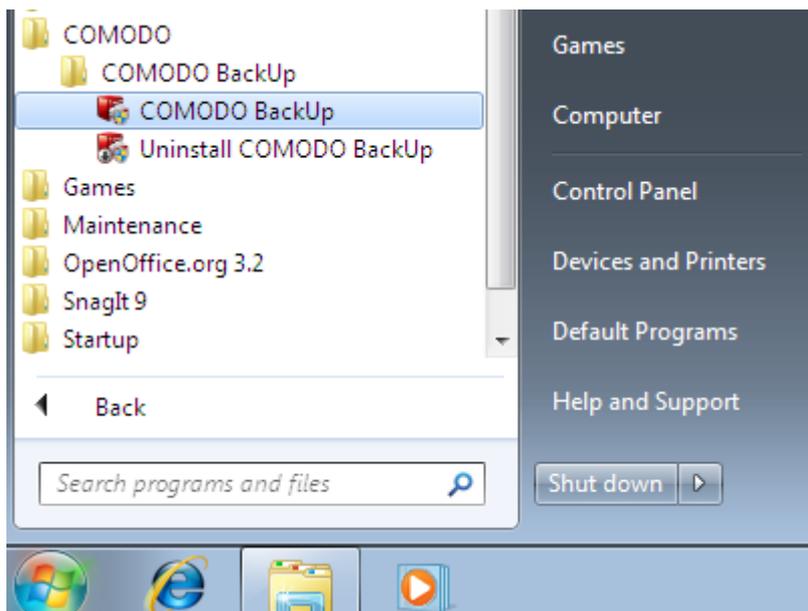
**Note:** The installation is finalized only after restarting the computer.

## 1.3. Starting Comodo BackUp

You can access Comodo BackUp through the Windows Start Menu, through the desktop shortcut or through the system tray icon.

### 1. Start Menu

After downloading and installing Comodo BackUp, the setup procedure creates an entry in the 'Programs' section of Windows Start Menu. You can start Comodo BackUp by hitting the 'Start' button and navigating to: Start > All Programs > Comodo > BackUp > Comodo BackUp.



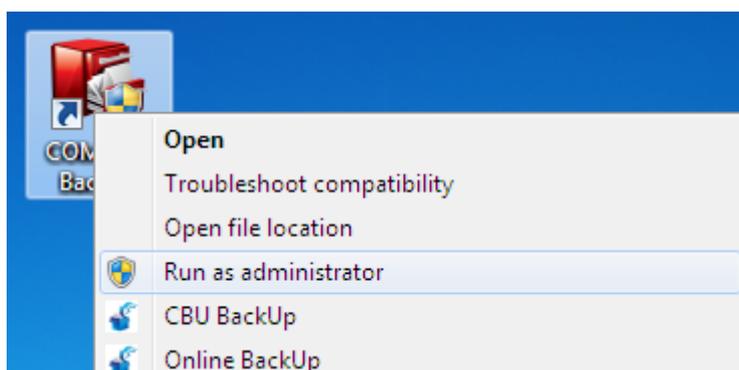
## 2. Desktop Shortcut

You can also start Comodo BackUp by double-clicking on the desktop shortcut created during installation.

**Note:** In order to create backups for items like Disk, Partition and registry files that require administrative privileges, Comodo Backup has to be run under administrative privileges. You can use 'Run as...' option to run it with administrative privileges. For more details refer to [Limited Access Privileges](#).

### To run Comodo BackUp under an administrator's account

- Right click on the Comodo BackUp Desktop icon
- Select the 'Run as...' option



- In the 'Run as' dialog that appears, select 'Administrator' from User Name drop-down menu.



- Enter the Administrator Password in the 'Password' text box and click 'OK'.

### Limited Access Privileges

Comodo BackUp can be run by users with limited account privileges but has certain restrictions for what he/she can do because of limited access. The details of what the user can do and cannot do are given below:

#### What the user can do

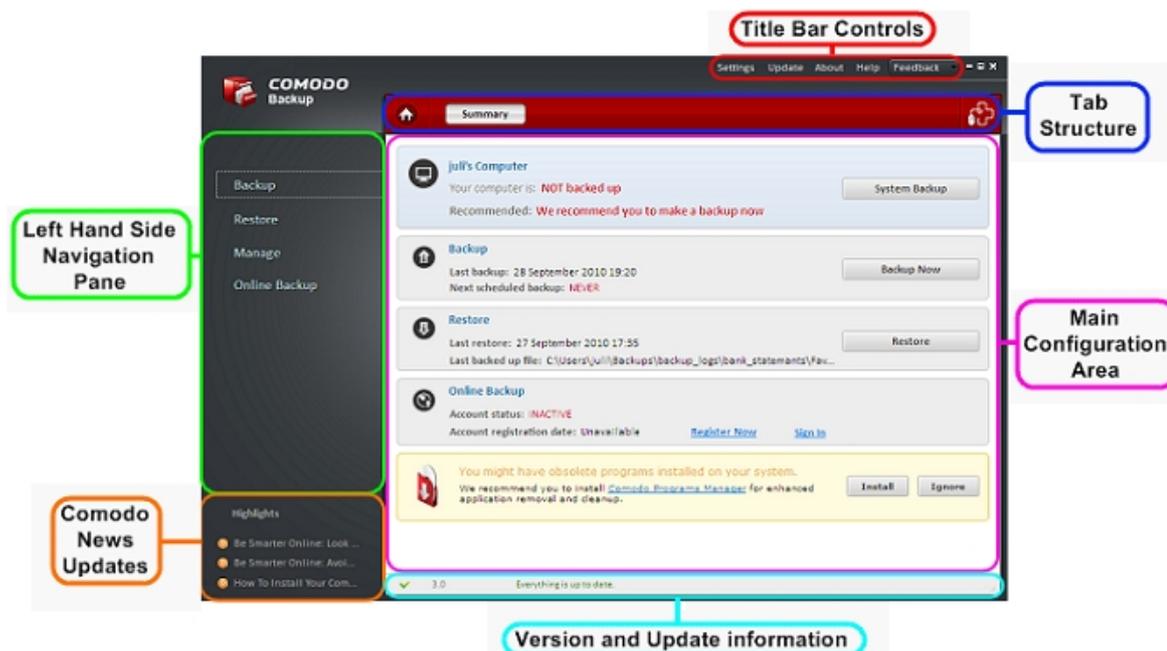
- Backup his/her documents, media, user folder and other files that he/she has access to
- Backup his/her mail clients and IM conversations
- Backup registry keys that he/she has access to
- Backup his/her browser data
- Restore files and directories, email clients and IM conversations that are not used by other applications.

#### What the user cannot do

- Backup disks and partitions
- Store the backup files in some folders on system drives due to limited access
- Mount backup as virtual drives
- Restore backup files that need restart
- Mount Online Storage space as virtual drive
- Synchronize files.

## 1.4. The Main Interface

Comodo BackUp's streamlined interface provides fingertip access and control over all functional areas of the software. The tab structure allows you to quickly initiate a new backup or restore task, specify new schedules and configure overall settings such as password protection. The left-hand pane contains shortcut buttons for common tasks whilst the progress bar makes it easy for new users to track their progress through the backup or restoration processes.



## 1. The Left Hand Side Navigation Pane

The Left Hand Side Navigation pane has four tabs:

- **Back-up** - Opens the interface for the backup creation and execution wizard
- **Restore** - Opens the interface for the restoration wizard
- **Manage** - Opens the interface for managing stored backups, managing schedules, viewing history of events, and accessing backups mounted as virtual drives.
- **Online Backup** - Opens the interface registering an account with Comodo Online Storage (COS) and for a new user and signing-in to COS account for existing user.

## 2. The Tab Structure

The tab structure contains two persistent tabs:

-  **Home Tab** - Opens the **Summary** area at any time;
-  **Live PC Support tab** - Launches the Live PC Support client and connects for remote assistance service offered by Security Experts in Comodo who can access your computer through their Remote Desktop. Refer to the chapter **Using Live Help** for more details.

Depending on the operation selected from the Left Hand side navigation pane, the tab structure area displays additional tabs for accessing different functionality of the selected operation.

## 3. Main Configuration Area

The main configuration area displays different panes providing the options for creating the backup / restore jobs, managing schedules, configuring your COS account etc. depending on the operation selected from the Left Hand side navigation pane.

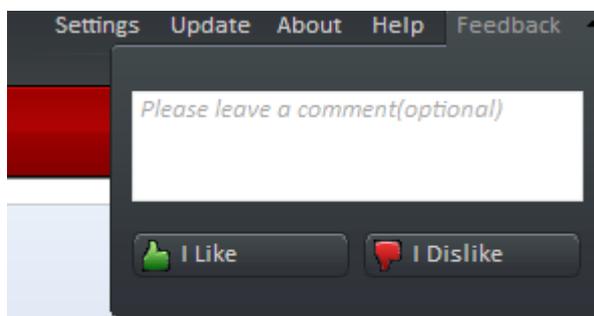
## 4. The Title Bar Controls

The title bar contains controls for:

- **Settings** - Opens the interface for performing miscellaneous configuration settings for Comodo BackUp
- **Update** - Starts the process of searching for latest updates for Comodo BackUp.
- **About** - Opens the About dialog of Comodo BackUp. The About dialog contains the version number and the copyright information.



- **Help** - Opens the online help guide of Comodo BackUp. The Comodo BackUp help guide contains detailed explanations of the functionality and usage of the application. The **Support** page near the end of this guide explains other resources and options that are open to users who require further assistance.
- **Feedback** - Allow users to post their views, comments and suggestions about Comodo products. Submit support request posted to [forums.comodo.com](http://forums.comodo.com)



## 5. The Version and Update Information

The bottom pane provides a summary of backup information and update information.

- **Version Info** - Indicates the version of Comodo BackUp currently installed in your system.
- **Update Info** - Indicates whether the version you have installed is the latest one or it needs to be updated

## 6. Comodo News Updates

The Comodo News Updates area contains links to view the updated RSS News feeds and Videos from Comodo.

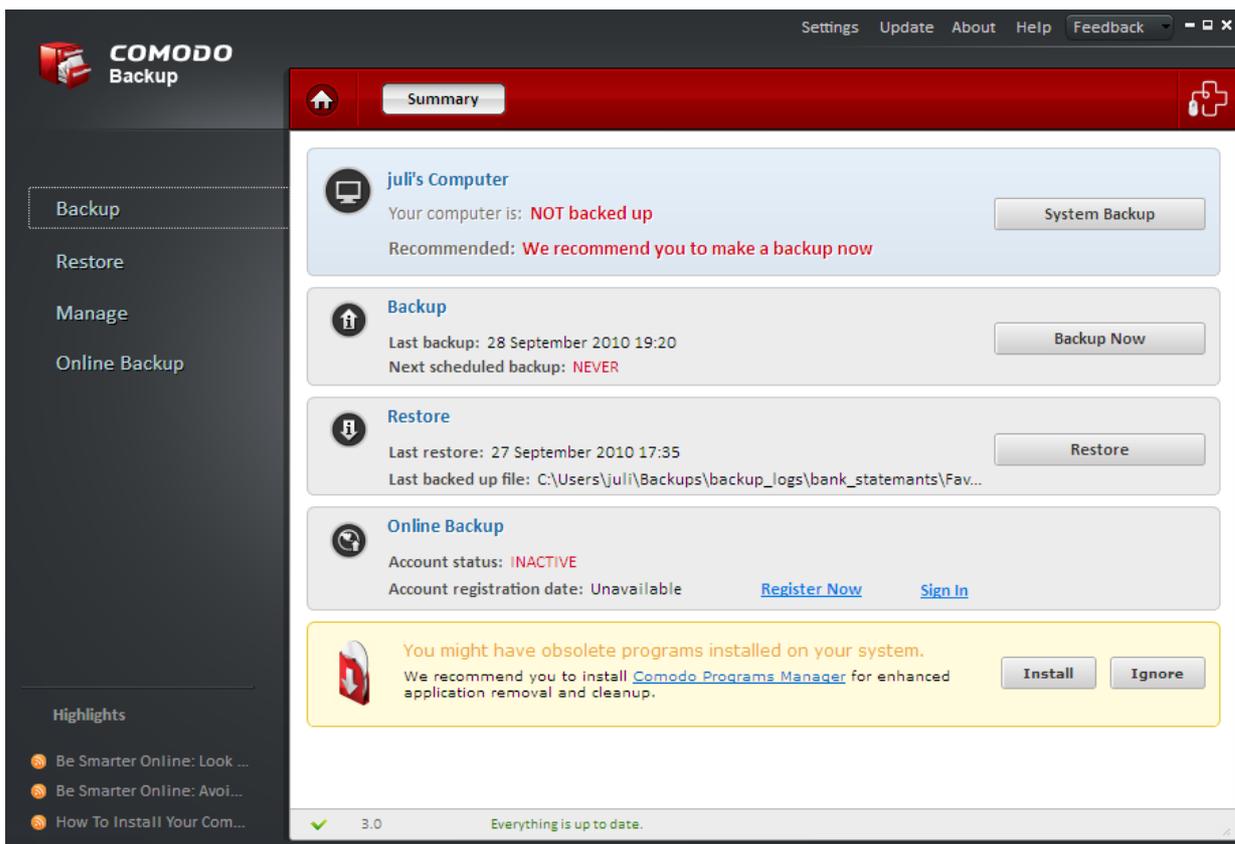
## 1.5. The Summary Area

The Summary area displays a snapshot summary of the computer backup status, last backup operation and schedule information, last restore operation and restored items and Comodo Online Storage (COS) account status.

The summary screen also gives you an option for installing other free desktop products from Comodo, that help in maintaining your system malware free and safe, cleaning unwanted registry entries, files etc. from your system with a few mouse clicks, cleaning items which otherwise compromise your confidential information and privacy, improving performance of your system by tweaking hard-to-reach Windows settings easily, boosting the speed of Internet access etc.

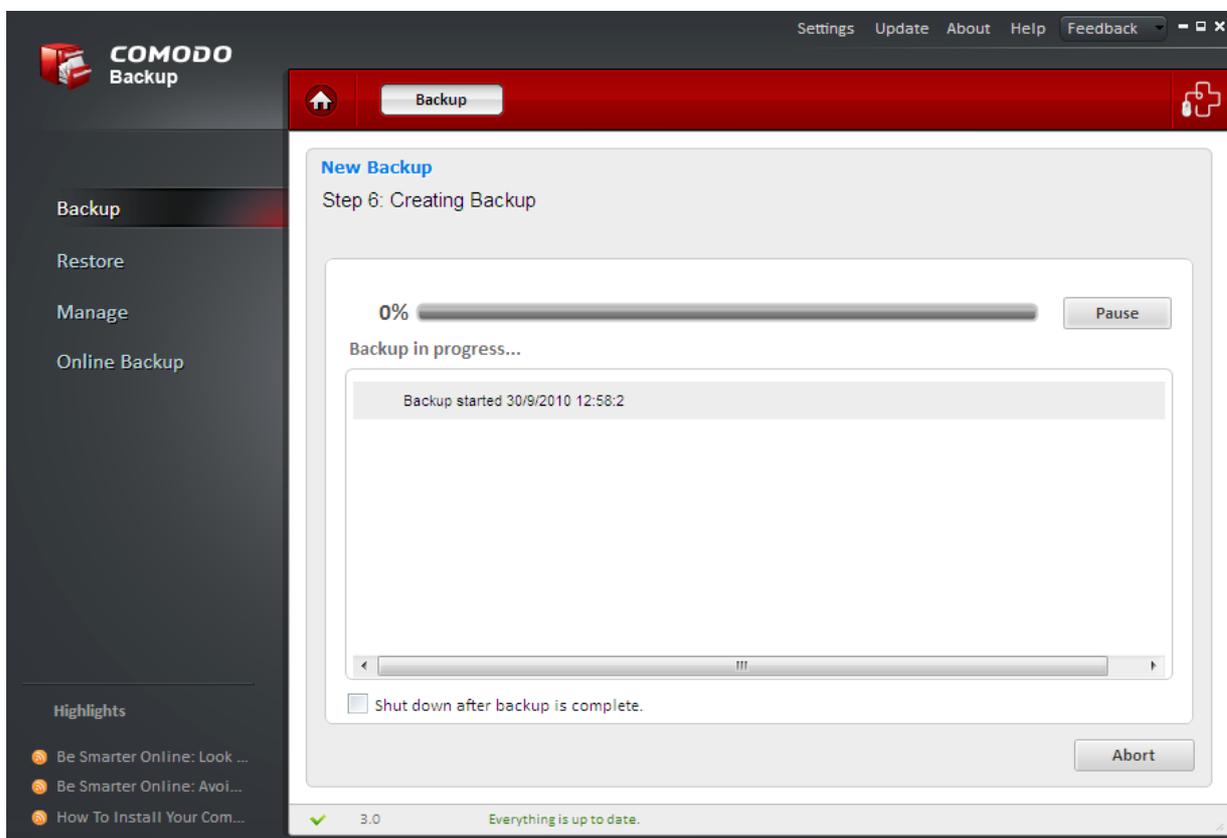
The Summary Area is displayed by default whenever the application is started. It can also be accessed by clicking the

Home tab  in the Tab Structure area.



## Computer Backup Status

The Computer Backup status area indicates the time at which your computer was backed-up and the recommendations from Comodo. Clicking the 'Backup Now' starts the process of generating a backup for your entire system instantly.



## Backup

The Backup area displays an at-a-glance summary of the last backup operation and next scheduled backup job. Clicking the 'Backup Now' button opens the interface for creating a new backup job. Refer to the section [Creating a New Backup Job](#) for more details.

## Restore

The 'Restore' area displays an at-a-glance summary of the last restore operation and the last backed-up item. Clicking 'Restore Now' button starts the process of restoring the latest backup file.

## Online Backup

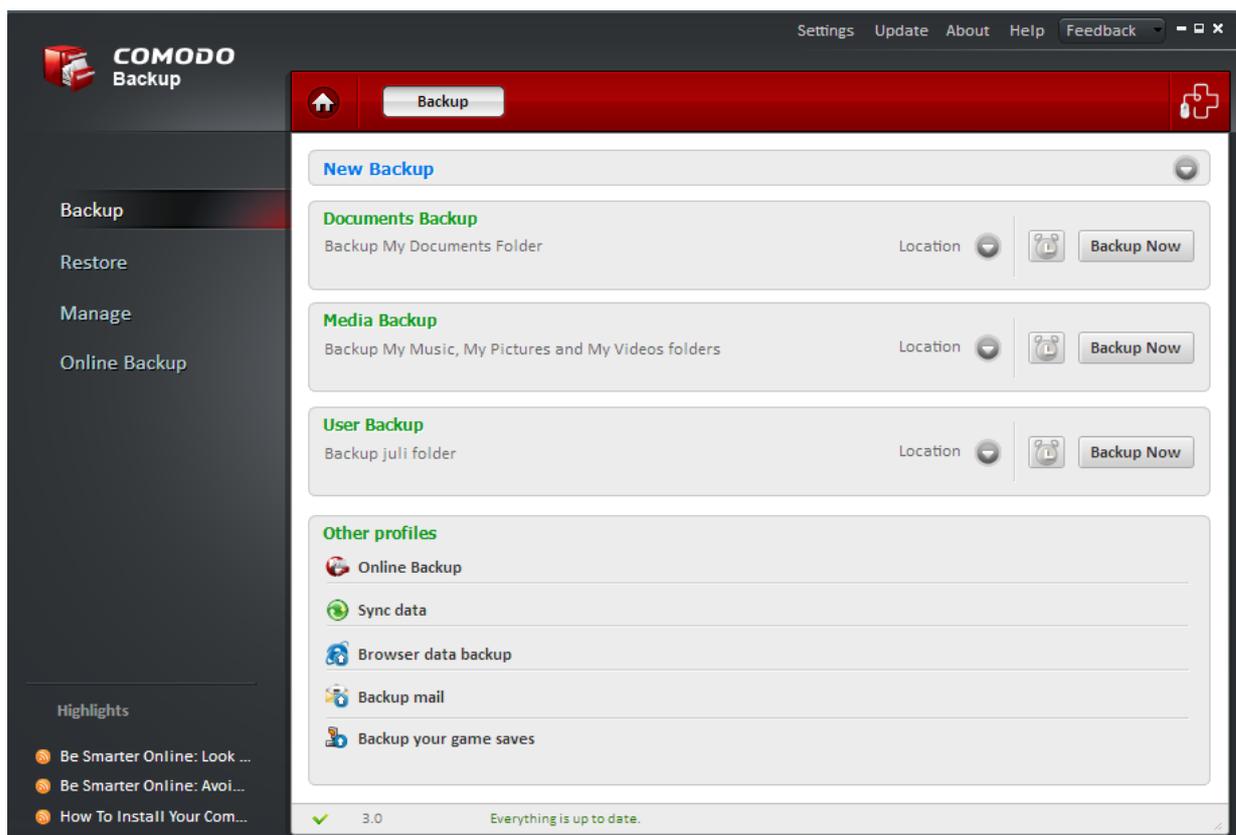
The Online Backup area displays an at-a-glance summary of your Comodo Online Storage account status. You can also Register a new account by clicking the [Register Now](#) link and log-in to your account by clicking [Sign In](#) link. Refer to the section [Configuring Your Comodo Online Storage Account](#) for more details.

# 2. Backup

In order to create copies of your data you have to create one or more backup jobs as backup profiles. During the creation of a backup job you can choose which type of data you wish to backup (source), how to backup (backup settings), where you want your backed up files to be stored (destination) and when to backup (schedule the job). Refer to [Creating a Backup job](#) for more details.

Apart from creating custom backup profiles, Comodo BackUp is shipped with a set of predefined backup profiles that allows you to backup your important files and valuable collections stored in standard folders like 'My Documents', 'My Music', 'My Pictures', 'My Videos' etc. with a single mouse click. Refer to [Creating a Backup job](#) for more details.

To access the Backup interface, click on the 'Backup' tab from the Left Hand Side Navigation pane.



The Backup area contains five tabs for creating a new backup job and to use predefined backup profiles.

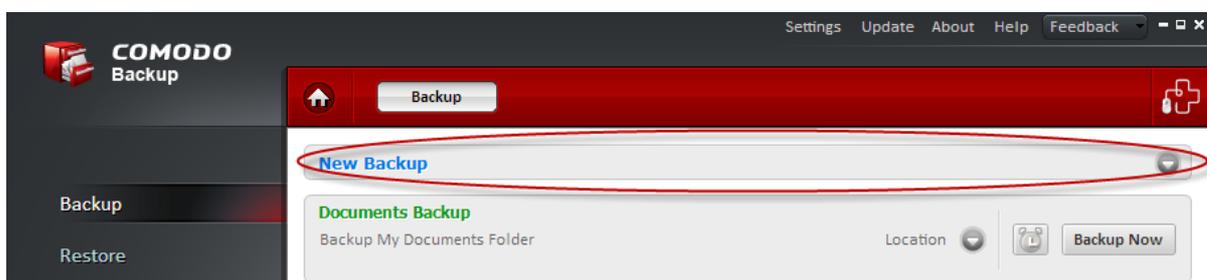
- **New Backup** - Opens the interface for creating and executing a custom backup job/profile. The created backup job can be added as a custom profile and made to be listed in the Other profiles area for instant access and execution.
- **Documents Backup** - Enables to backup your My Documents folder with a single mouse click.
- **Media Backup** - Enables to backup your 'My Pictures', 'My Music' and 'My Videos' folders with a single mouse click.

- **User Backup** - Enables to backup all the files and folders related to the user, like 'My Documents' folder, Desktop items, user's system settings, user's browser settings, user's application settings etc., with a single mouse click.
- **Other Profiles** - Displays a list of options for instant access of your Comodo Online storage account, Synchronizing data between a backup source and a stored backup, instant backup of your browser settings, mails and Game saves. Also this area displays a list of custom profiles created by the user through New Backup area for instant access and execution in future.

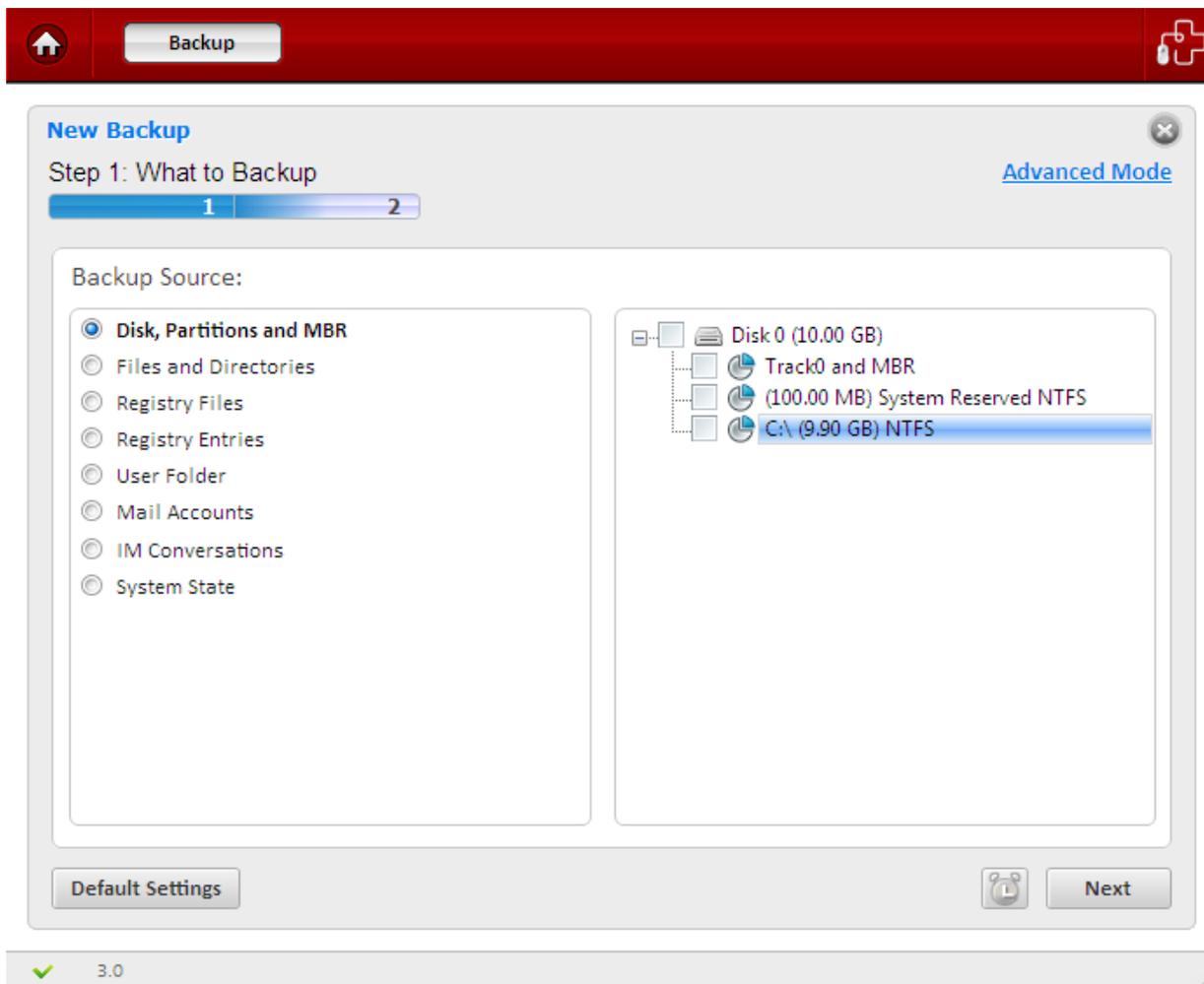
## 2.1. Creating a New Backup Job

Creating a custom backup job/profile allows you to select or hand pick items to be backed-up, like the entire disk, a partition, required folders/files, entire registry or custom registry entries, mail accounts, Instant Messenger (IM) conversations, system state etc. and to select the destination as you wish. Also, you can schedule the backup job to be executed at set intervals.

To create a custom backup job/profile, click the New Backup tab from the main configuration area:



The New backup interface will open.



Creating and executing a backup job can be done in two modes:

- **Simple Mode** - Enables to backup your selected item with just a few mouse clicks. Suitable for beginners.
- **Advanced Mode** - Enables to configure granular backup settings for your backup job.

To switch between Simple Mode and Advanced Mode, click the link Advanced Mode or Simple Mode at the top right corner.

## 2.1.1. Simple Mode

The Simple Mode backup involves just two very simple steps to configure and execute your backup operation, and enables you to complete the backup operation quickly with just a few mouse clicks.

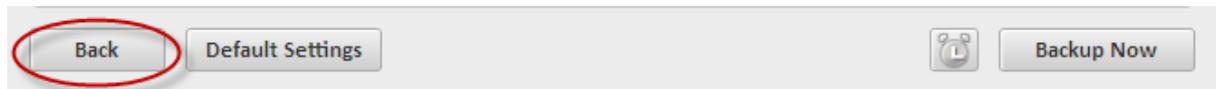
The two steps are:

- Step 1: **Select the source of backup (Choose which kind of data you wish to backup)**
- Step 2: **Choose the destination of your backup**

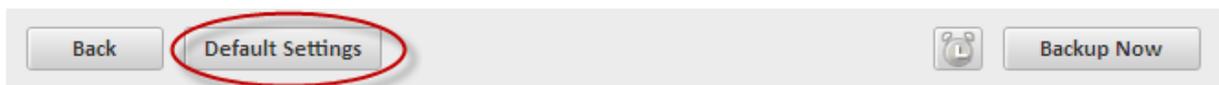
The progress bar on the top indicates the configuration progress with step numbers. Placing the mouse cursor on a step displays a tool tip with a brief description of the step.



To return to a previous step to review/redo the configuration made, just click the respective step number. You can also return to the previous step by clicking the 'Back' button.



Clicking Default Settings clears the selections made in the respective step and allows you to reconfigure the options in that step.



On completion of the backup job configuration, you need to **finalize** the backup operation by executing it instantly or schedule the job to be executed at a later time or at recurrent intervals.

### 2.1.1.1. Selecting the Backup Source

The first stage of the process is to choose which item you want to backup. Comodo BackUp allows the user to backup entire drives; select multiple or individual files and folders to backup; take complete or partial backups of the Windows registry and backup important system settings. The program also allows the user to make copies of their emails, IM messages and personal Windows user settings. In some cases, after selecting the type (or 'Source') of backup you want from the left panel you need to make a further selection from the right panel.

More details on each of the Backup types can be found by clicking the links below. If you have already decided upon your backup type and don't need any more explanation on this area then [click here to skip straight to step 2 - Choose the destination of your backup.](#)

- **Disk, Partitions and Master Boot Record (MBR);**
- **Files and Folders;**
- **Registry Files;**
- **Registry Entries;**

- **User Folder;**
- **Mail Accounts;**
- **Messenger Archive and Settings;**
- **System State.**

## Disk, Partition and Master Boot Record

You can backup the contents of the entire hard disk drive or specific partition in your computer and / or the Master Boot Record (MBR) of that drive.

**Background Note:** Track0 is the area located at the start of your hard disk containing the first 63 sectors. It stores the information regarding the layout of the disk like the partition table. Also Track0 stores the licensing information for software because it is an area of the disk outside the OS file system and not seen or used by most computer users (and therefore cannot be easily modified or replicated).

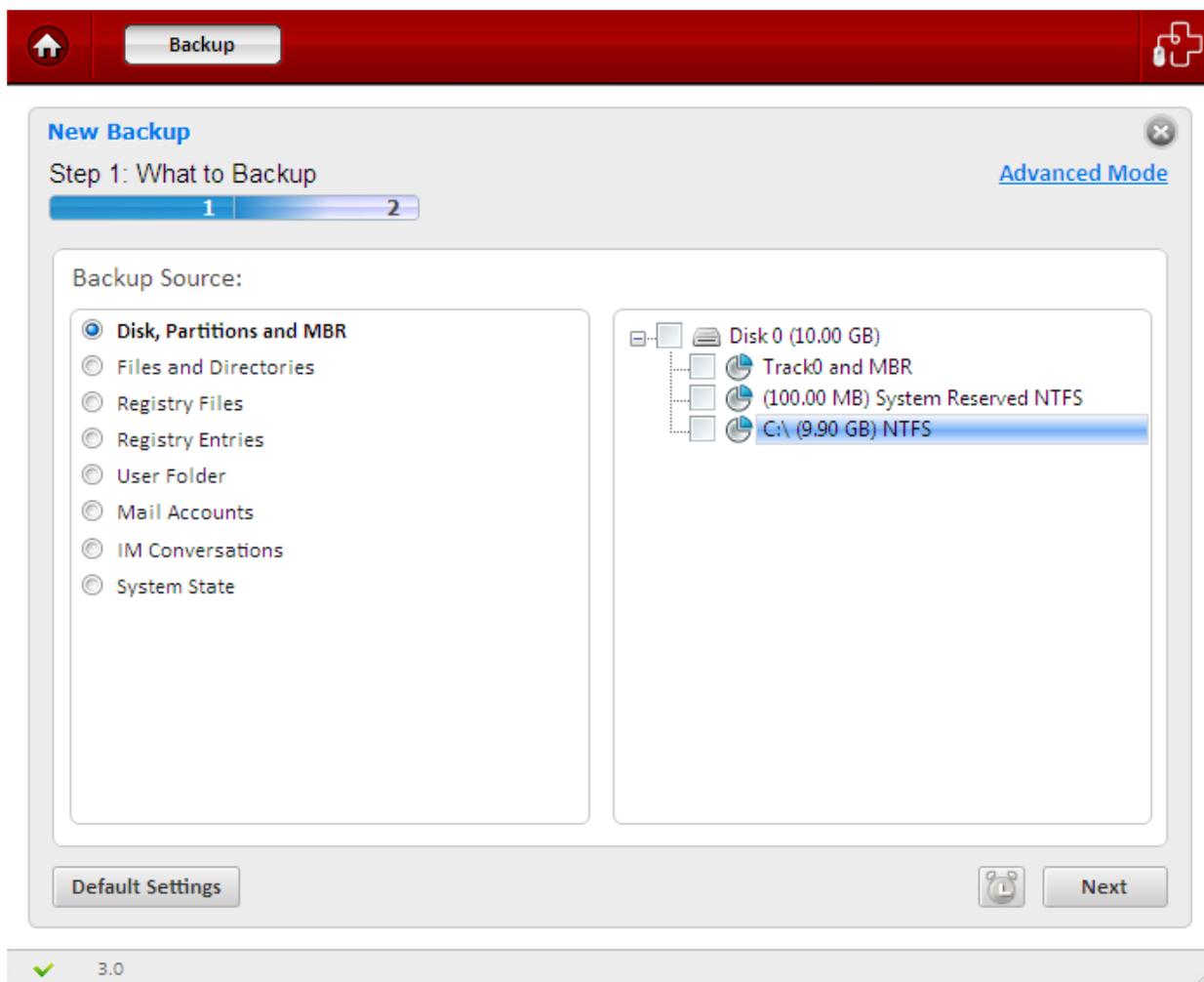
The MBR is the very first sector on Track0 and contains the instructions necessary for a computer to start up. It is also known as the 'Boot Sector'.

Backing up the Track0 and MBR (preferably to a separate physical drive or removable media) helps to recover a drive should the original Track0 and MBR become corrupted and the machine un-bootable.

**Important Note:** In order to create a backup for Disk Partitions and MBR, Comodo BackUp has to be run under administrative privileges. Refer to the **note** in the chapter **Starting Comodo BackUp** for more details.

## To backup the whole Disk drive, drive partition(s) and / or the MBR

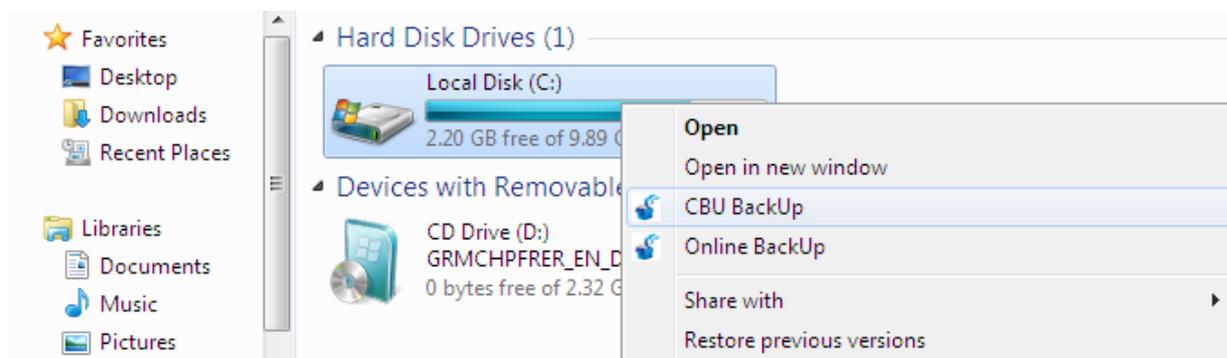
- Select the 'Disk, Partitions and MBR' radio button.



The right hand side pane displays the options for selecting the item to be backed up.

- To backup the whole hard disk in your system, select the 'Disk0' checkbox. This includes the boot partition and all the other individual partitions.
- To backup the **Track0 and MBR**, select the 'Track0 and MBR' checkbox.
- To select the individual drive partitions, CD / DVD or the USB memory, select the checkbox of the respective partition drive letter.
- Click 'Next'.

Alternatively, you can also select a desired drive partition to be backed up, from the Windows Explorer window, Right click on the desired drive and select 'CBU BackUp'



The process moves to **Step 2**.

**Background Note:** The backup of the selected disk / partition is performed in sector-by-sector method and the resulting backup file is an image of the selected drive or partition.

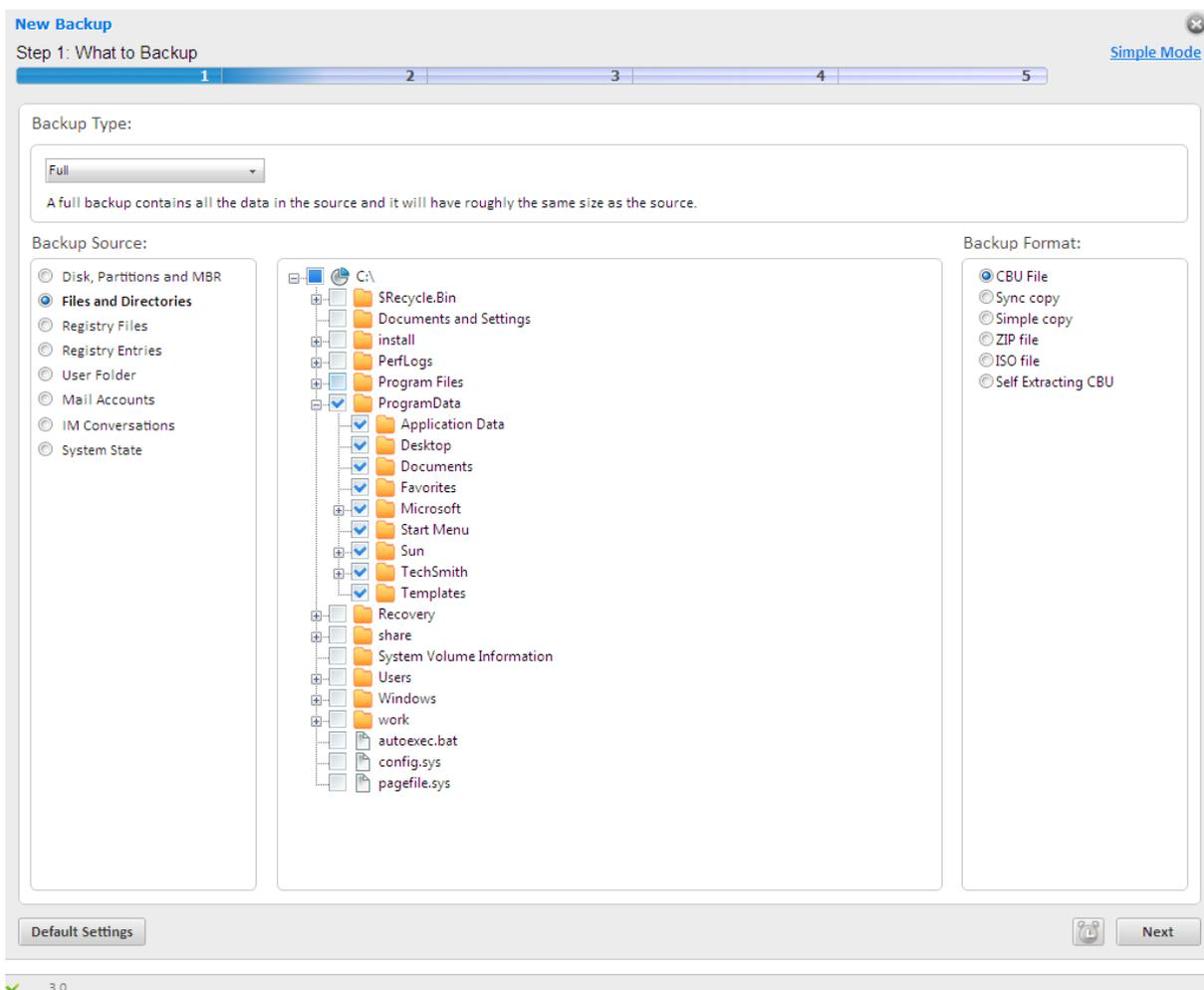
## Files and Folders

This option allows you to manually browse your local or network file structure and select specific files or folders for backup. Selecting only the files and folders you require gives you the flexibility to create precise, custom jobs that encompass files scattered across multiple locations into a single, consolidated, backup routine. Handpicking files and folders in this manner may also help to save time and disk space (especially important to users with limited resources or if the application is to be used in a networked environment on multiple workstations).

### To backup only selected folders or files

- Select the 'Files and Directories' radio button.

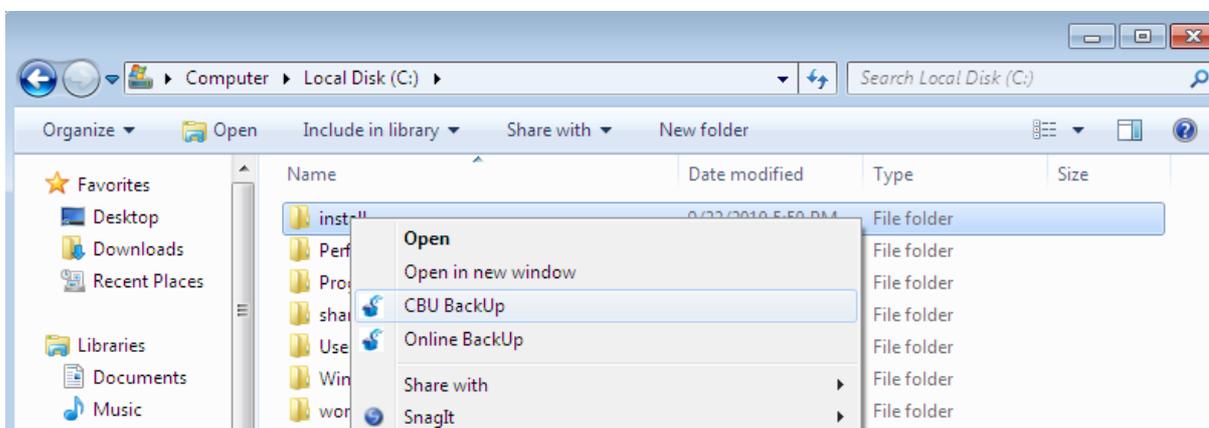
The right hand side lower pane displays the disk partitions and folders in a tree structure.



- Navigate to the file(s) or the folder(s) you want to backup and select the checkbox(s) beside the required item(s).

**Note:** Selecting a folder helps to backup all the sub-folders and the files in it.

- Click 'Next'.
- Alternatively, you can also select a desired file / folder to be backed up, from the Windows Explorer window. Right click on the desired item and select 'CBU BackUp'.



The process moves to **Step 2**.

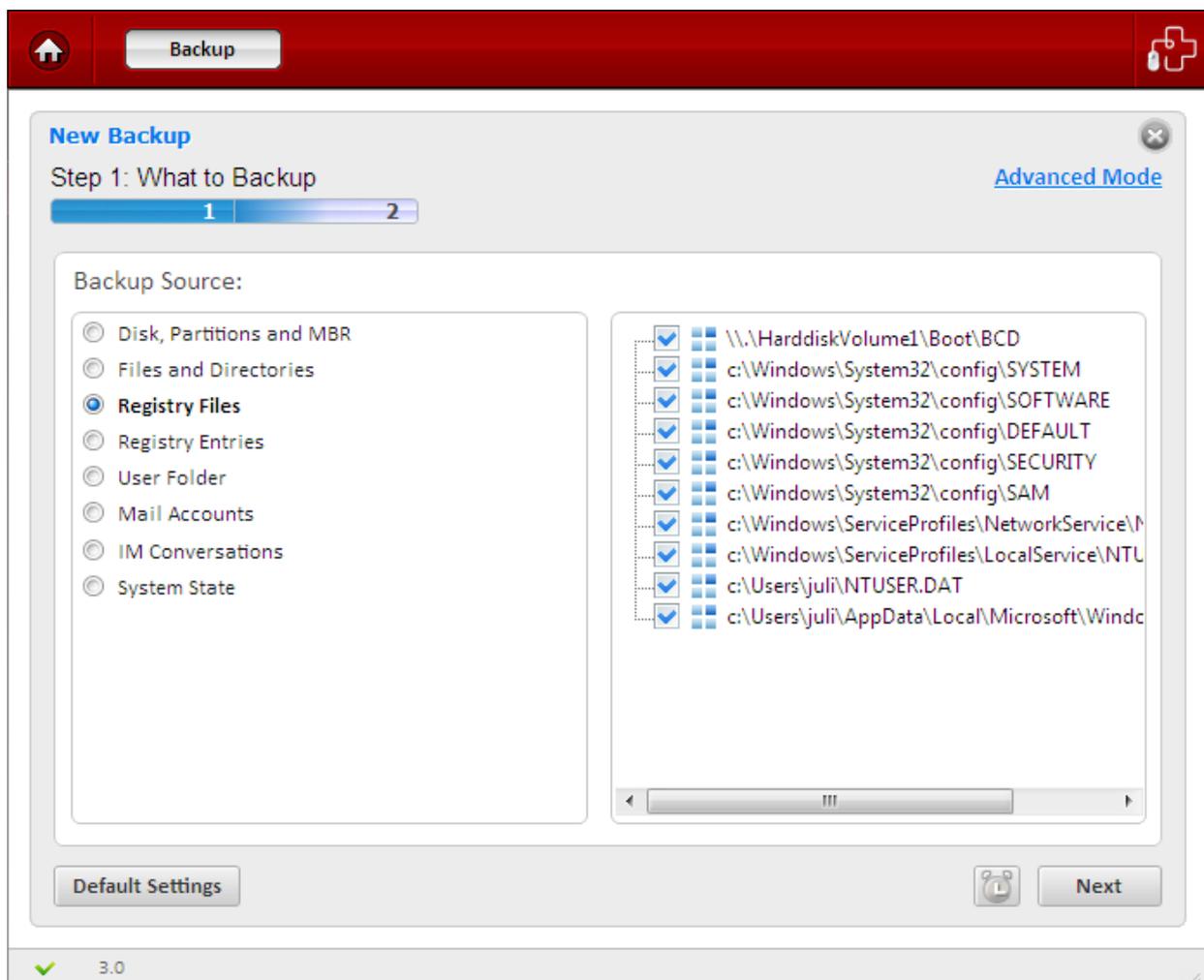
## Registry Files

The Windows registry is a huge, constantly referenced, archive for collecting and storing configuration settings of Windows components and installed software and hardware. Whenever you perform a task such as installing or removing a program or modifying a file on your computer, Windows creates an entry in the Windows Registry to reflect this change. It is difficult to over-estimate the importance of the registry to Windows users because the entire operating system is so heavily reliant upon it. One corrupted or deleted registry key could bring your system crashing to a standstill. It is therefore a highly recommended practice to take regular backups of your registry so that, in the event of catastrophe, you can quickly roll back your system to its last working state. For the same reason, it is also a good idea to backup your registry before you install new software or hardware drivers.

**Important Note:** In order to create a backup for the Registry files, Comodo BackUp has to be run under administrative privileges. Refer to the **note** in the chapter **Starting Comodo BackUp** for more details.

## To backup the Windows Registry Files completely

Select the 'Registry Files' radio button.



By default, all the Registry files are selected. If you want to backup the registry files selectively, uncheck the files which you do not need to back up.

The process moves to **Step 2**.

## Registry Entries

Individual registry keys and / or 'hives' can be backed up selectively (for example, the registry entries corresponding to specific Windows components / installed hardware / software / applications etc). You may want to do this because you are

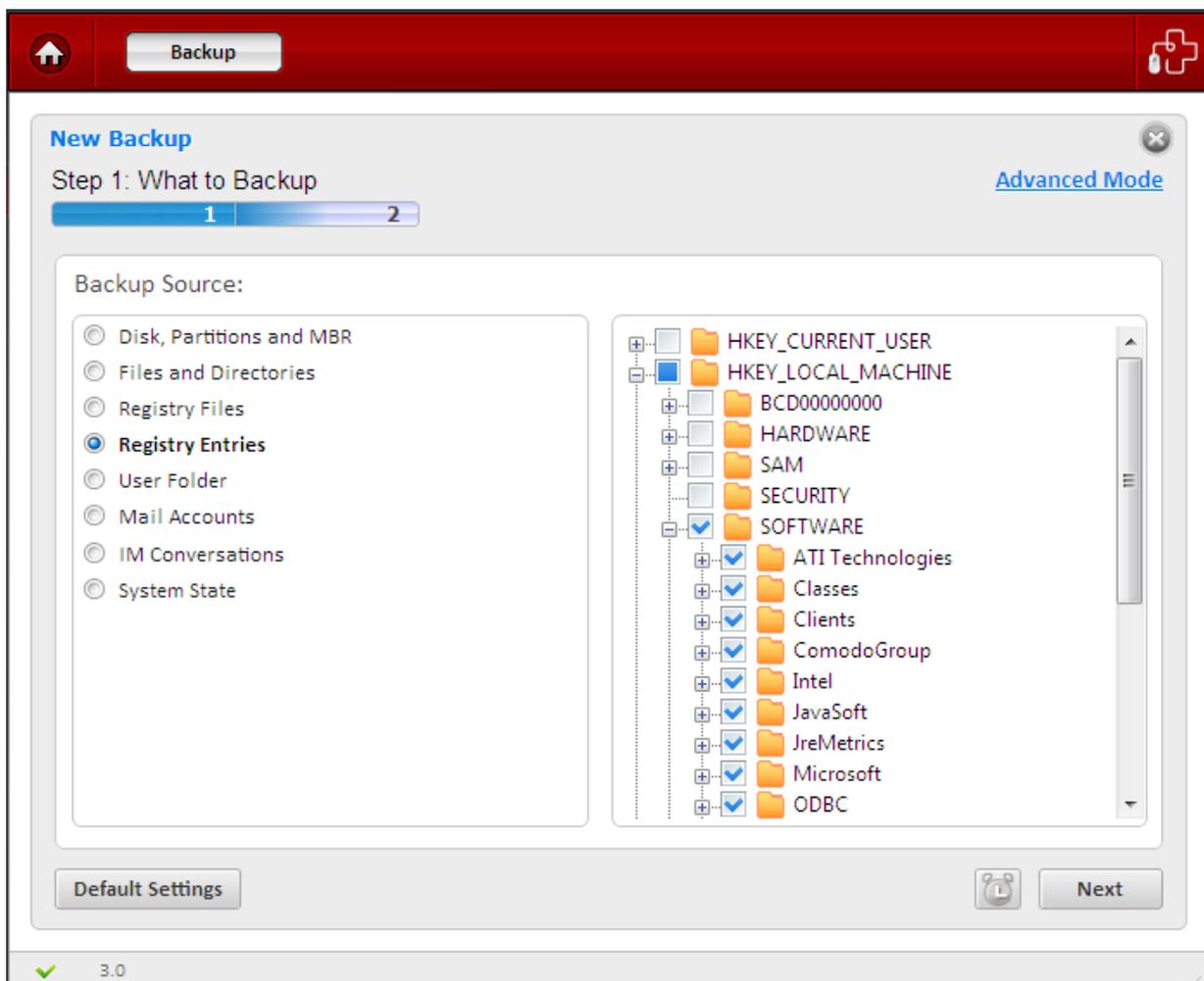
about to install a new device, driver or piece of software and wish to be able to revert very important areas of the the registry to their previous state or because you would rather back up very important areas

of the registry instead of a taking complete backup. Because of its somewhat complex nature, this option is suitable for advanced users. Users who do not have a working knowledge of the Windows registry are advised to backup the entire registry rather than selecting individual registry items.

**Important Note:** In order to create a backup for selected Registry entries, Comodo BackUp has to be run under administrative privileges. Refer to the **note** in the chapter **Starting Comodo BackUp** for more details.

## To backup the Windows Registry hives selectively

- Select the 'Registry Entries' radio button.



The right hand side pane displays the Registry Hives in a tree structure.

- Navigate to the registry hive(s) you want to backup and select the checkbox beside the required item(s).
- Click 'Next'.

The process moves to **Step 2**.

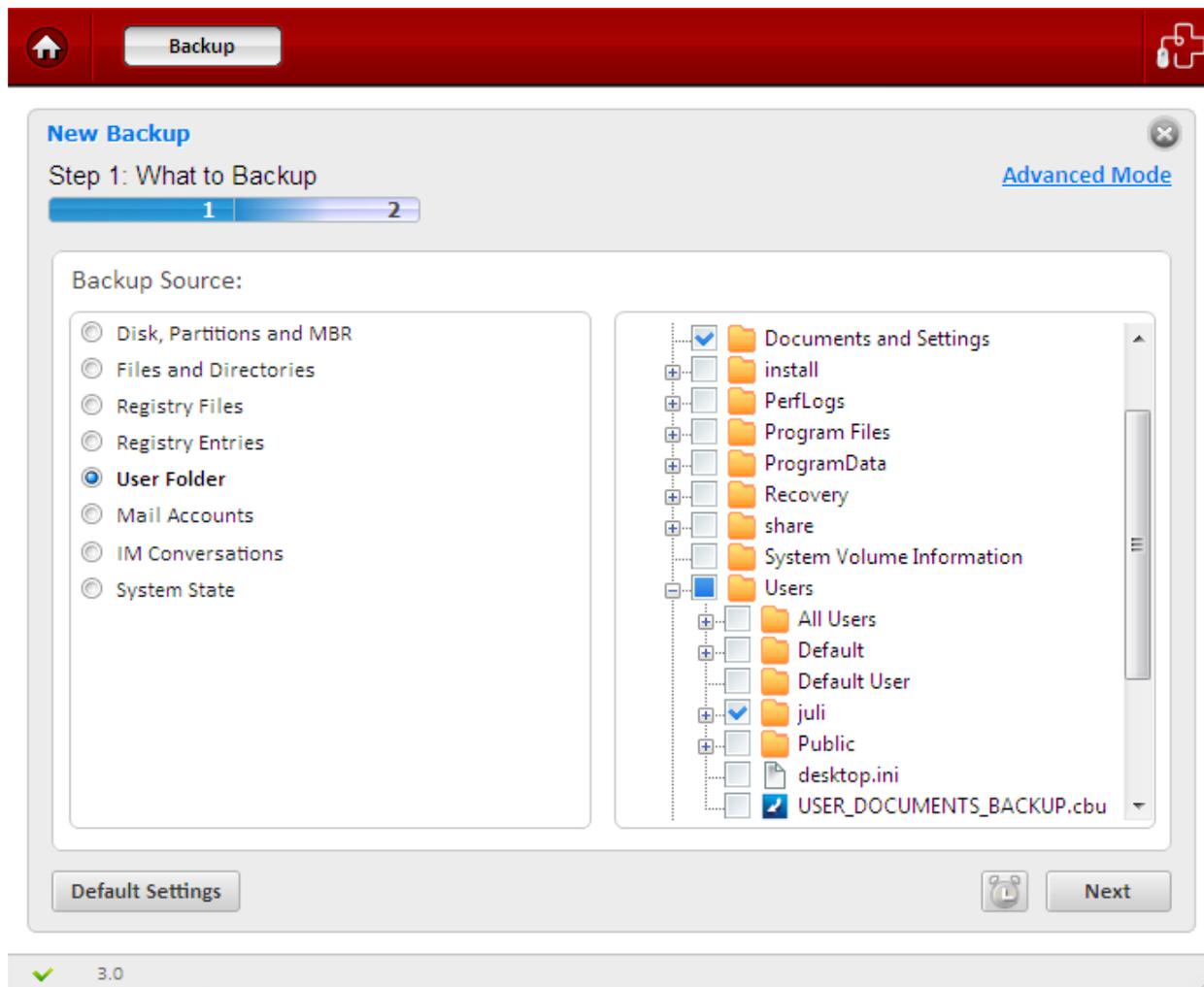
## User Folder

The Windows system settings configured by the user and all user related files like files in 'My Documents', 'My Pictures' etc. can be stored as a backup. E.g. On Windows XP or Vista, for a user named 'John Smith' it creates a backup of the folder 'C:\Documents and Settings\John Smith'. This means it can backup the user's desktop, documents, pictures, user registry settings, etc. This is useful, when you are reinstalling the same version of Windows and you wish to regain the settings you made in the previous installation in a single step.

This is useful when you want to revert to your old Windows settings, in case you have modified the windows settings.

**To backup the Windows Settings configured by the user,**

- Select the 'User Folder' radio button.



The tree structure of your hard disk drive will be displayed in the right hand side pane with the user folder pre-selected. If you want to add more folders/files, select them by clicking the respective checkboxes.

- Click 'Next'.

The process moves to **Step 2**.

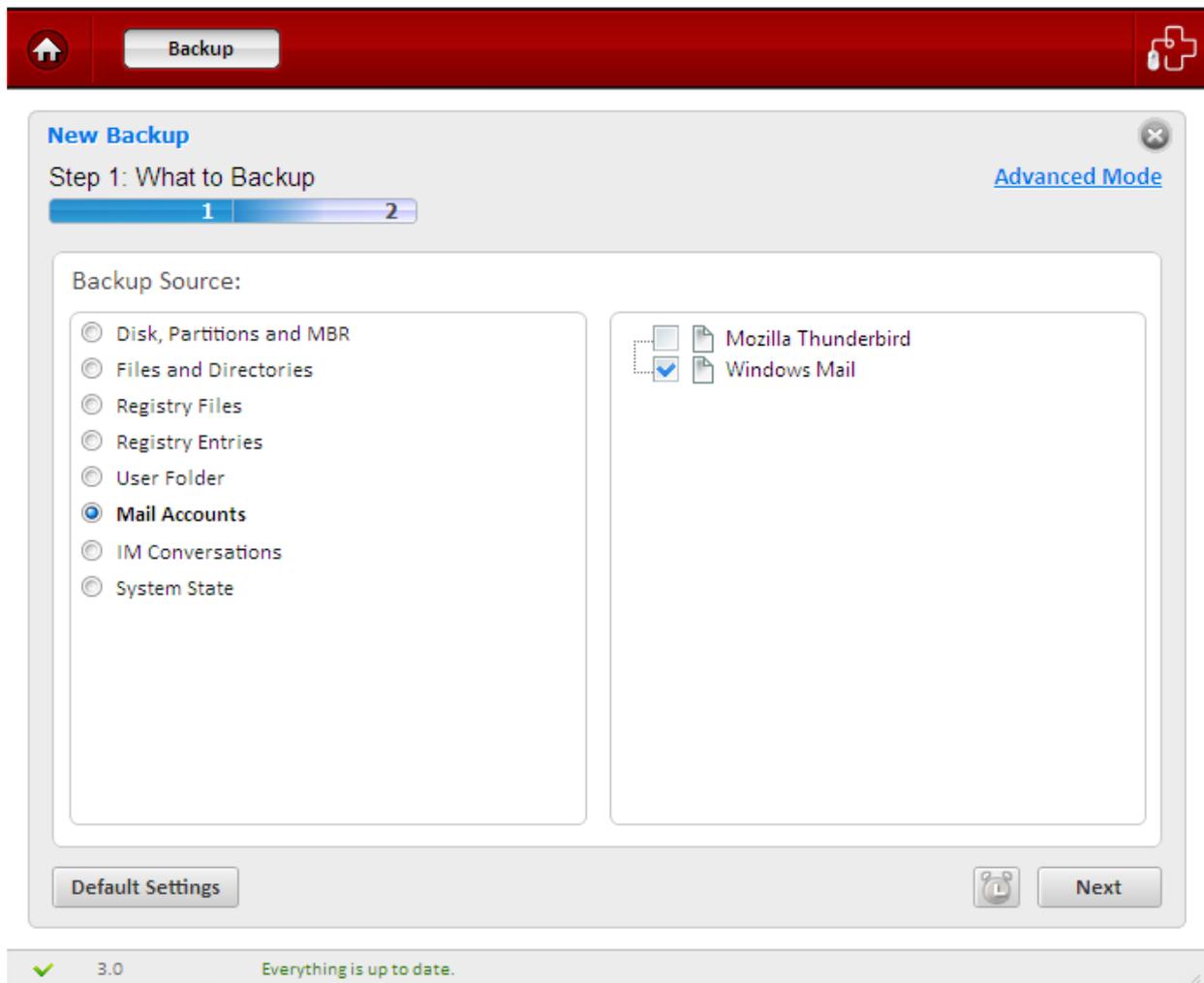
**Mail Accounts**

You can backup the emails in the inbox of your mail clients like Mozilla Thunderbird, Eudora, Microsoft Outlook 2003, Microsoft Outlook 2007, Windows Live Mail, Outlook Express etc. This can also backup settings (such as incoming server, outgoing server, if the email is downloaded or remains on server, etc). This is helpful to restore your mails and settings when you reinstall your operating system or configuring your mail settings on a new computer system.

**To backup of all the emails in your inbox and the settings configured for your mail clients**

- Select the 'Mail Accounts' radio button.

The right hand side pane displays a list of all the installed mail clients. The supported clients are Mozilla Thunderbird, Eudora, Microsoft Outlook 2003, Microsoft Outlook 2007, Windows Live Mail and Outlook Express.



- Select the client(s) for which you wish to backup the emails stored (Inbox, Outbox, Unsent Items etc.) and their configuration settings by selecting the checkbox(s) beside the respective client(s).
- Click 'Next'.

The process moves to **Step 2**.

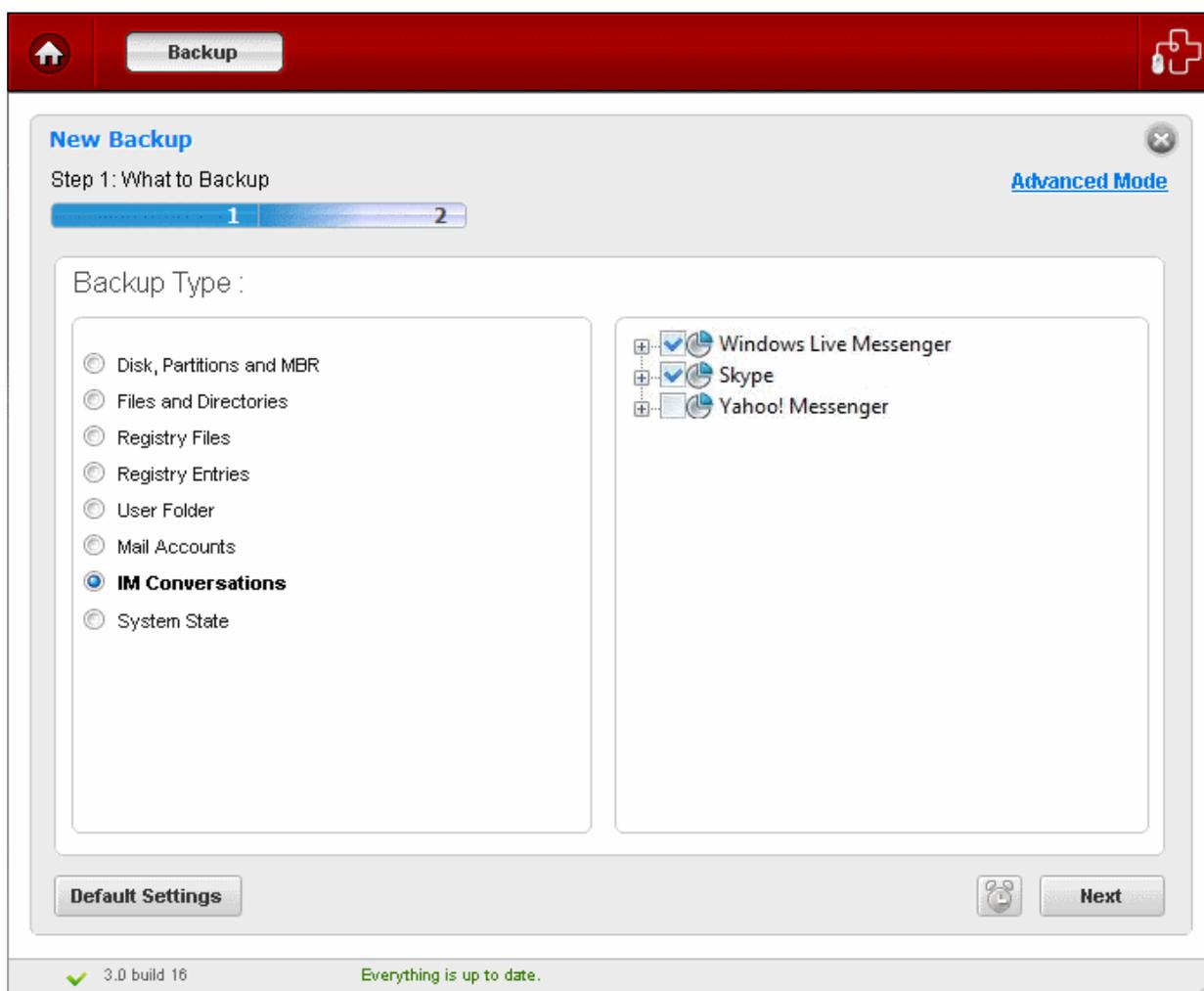
### Instant Messenger Archive and Settings

You can backup the messenger archive like the history of all conversations, conferences, calls etc. of Instant Messenger (IM) clients like Windows Live Messenger, Skype, Yahoo! Messenger and Pidgin. This can also backup settings that are stored on the local machine (e.g. Skin used, Privacy settings such as idle time, Connection settings and proxy used, etc). This is helpful to restore your IM archives, profile settings etc. when you reinstall your operating system or configuring your IM settings on a new computer system.

#### To backup messenger archive and their configuration settings

- Select the 'IM Conversations' radio button.

The right hand side lower pane displays a list of all the installed messenger clients. The supported clients are Windows Live Messenger, Skype, Yahoo! Messenger and Pidgin.



- Select the client(s) for which you wish to backup the profiles related data (archives, profile settings etc.) by selecting the checkbox(s) beside the respective client(s).
- Click 'Next'.

The process moves to **Step 2**.

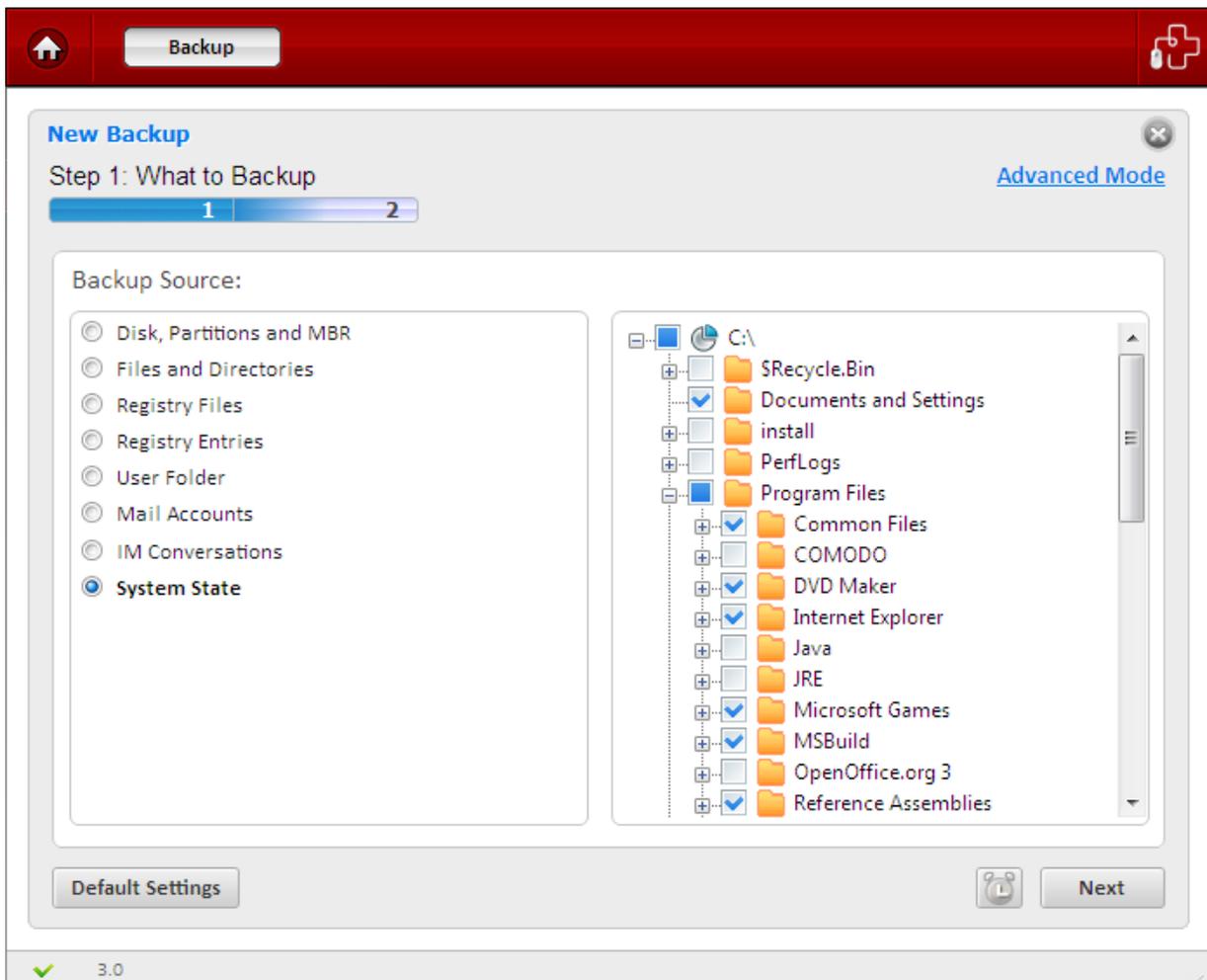
### System State

This option allows you to perform a System state backup. All the folders and files that are installed with the version of Windows currently in-use are copied. This includes all the user settings, registry, all user accounts, etc. For example, If Windows is installed on drive C:\ then this can backup 'C:\WINDOWS', 'C:\Documents and Settings', 'C:\Program Files' and all files on 'C:\' that are necessary for Windows to boot.

This is useful should your system become unusable or refuse to start and allows you to quickly implement your previous settings. Selecting this option enables all files and folders that were installed with a fresh copy of windows to be backed up.

### To perform a System State backup

- Select the 'System State' radio button.



The tree structure of your hard disk drive will be displayed in the right hand side pane with the folders/files necessary for the computer to reboot, pre-selected. If you want to add more folders/files, select them by clicking the respective checkboxes.

- Click 'Next'.

The process moves to **Step 2**.

### 2.1.1.2. Selecting a Destination to Backup

The second stage of the process is to choose the destination for storing your backup file. All the items you chose in **Step 1** are compressed and stored as one file with .cbu extension (e.g. filename.cbu) in the destination you select in this step. Depending on the requirement you can choose the destinations from:

**Comodo Online Storage** - Saves your backup file on the Comodo online server.

**My Computer** - Saves your backup file on your local hard drive, removable drives connected to your computer or a network drive.

**CD/DVD** - Writes the backup file onto a compact disk (CD) or digital versatile disk (DVD).

**Network Location** - Saves your backup file on another computer in the network.

**FTP server** - Saves your backup file on a FTP server.

**Email** - Sends the backup file through email to you or to the address specified by you.

After selecting the Destination for backup you want from the left panel, you need to make a further selection from the right panel.

### Comodo Online Storage

If you want to have an online backup of your content, Comodo BackUp allows you to save files on Comodo's highly secure

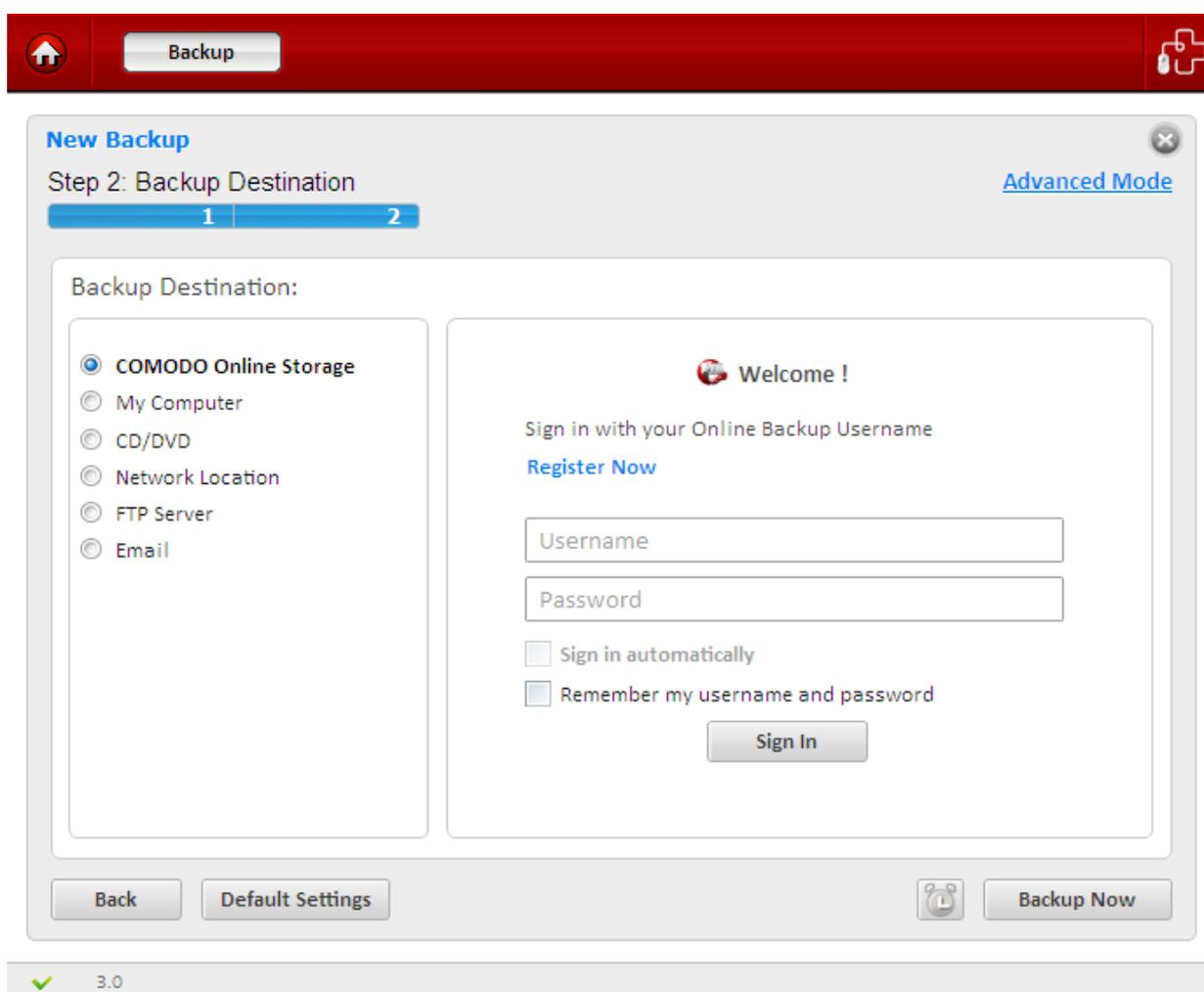
servers and this can be accessed over the Internet from anywhere in the world. With this feature, you can be sure your backed-up data is not only highly secure, but is always updated. In the event something goes wrong with your hard drive, or you lose your system in a disaster or to burglary, you can retrieve your precious files instantly.

**Note:** In order to back up your content to Comodo Online Storage servers, you need to have a Comodo Online Storage account. **To create an online account** click the 'Register Now' button in the Right hand Side pane. Comodo Online Storage accounts are available in a range of competitively priced packages suitable for businesses and home users alike. **Click here** to know the details about Comodo Online Storage accounts. For more detailed information on Comodo Online Accounts refer to the chapter **Comodo Online Storage**.

## To save your backup in Comodo's online server

- Select 'Comodo Online Storage' radio button.

The right pane displays the login page for your Comodo Online Account.



If you are a new user and do not have an account with Comodo Online Storage, click 'Register Now' link. The signup page will be displayed in the main configuration area. You need to sign-up for a new account with COS. For more detailed information on creating a new Comodo Online Accounts refer to the chapter **Comodo Online Storage**.

If you are an existing user, enter your username and password and Sign-in.

- Selecting **Remember my username and password** instructs the application to memorize your credentials and enables auto-fill on successive sign-ins.
- Selecting **Sign-in automatically instructs** the application to login to your COS account automatically whenever the application is started.

After login, your online space will be visible/accessible as regular Windows tree structure.

Select the folder to which you want to store the current backup.

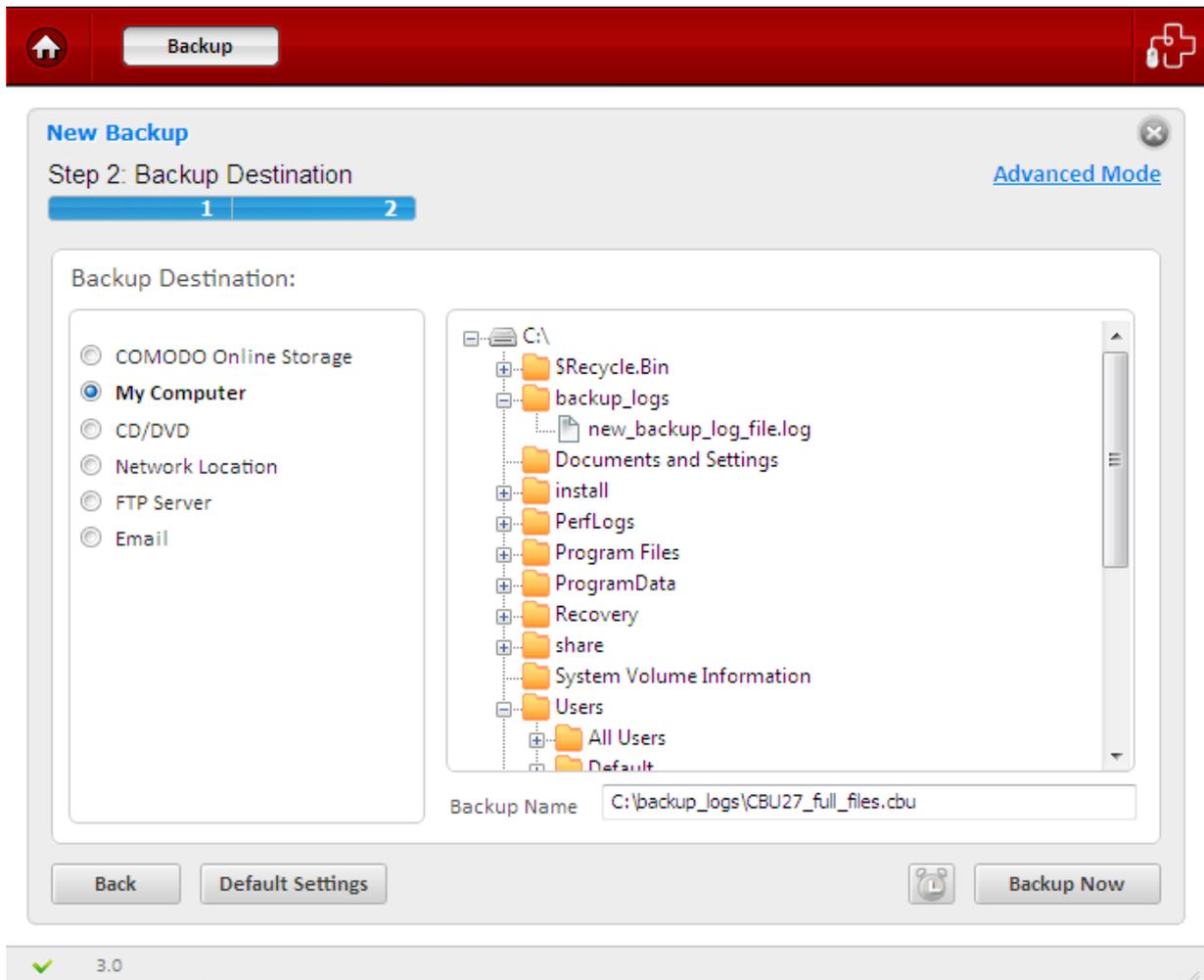
A suggested file name for the current backup with an extension .cbu will be automatically populated in the Backup Name text box. If you want to alter the name, enter the new name in the text box.

## My Computer

If you wish to store the backup file in your local hard disk drive itself, a removable storage device like USB memory or a network drive, select the radio button beside 'My Computer'. You can select even a virtual disk mounted in your system.

## To save the backup on your computer

- Select 'My Computer' radio button.



By default, the destination location will be given as C:\Documents and Settings\Username\Backup\... You can change the default location by accessing the Settings interface. Refer to [Comodo BackUp Settings > Default Backup Location](#) for more details.

You can select a location of your choice from the disk drives and folders displayed as a tree structure in the right panel. You can select from:

- **Local Drives** - The hard drive partitions residing locally in your system.
- **Network Drives** - The drive in the file server connected in your network and mapped by your computer. This is a good practice so that you can restore your original files and settings even if your computer crashes and you have to reinstall Windows again.
- **Virtual Drives** - The disk images mounted in your system using a disk emulator software, to resemble a physical disk drive partitions. This suits for the backup of your confidential documents as virtual drives are encrypted by default and require a password set during encryption, while restoring the files.
- **USB Drives** - The USB memories or a removable hard disk drive plugged in to an USB port of your system.
- Navigate to the drive and the folder where you wish to save the backup file.

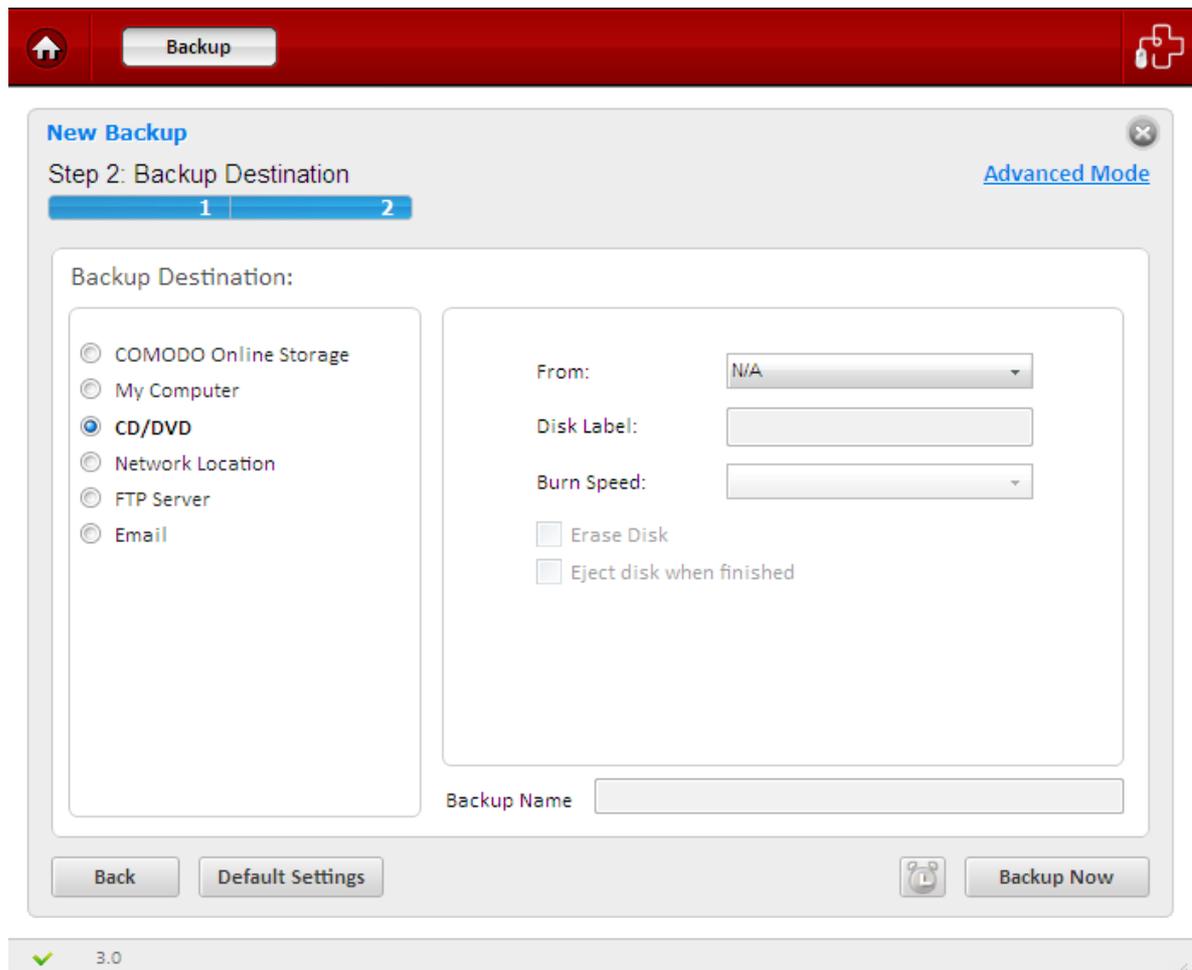
- A suggested file name for the current backup with an extension .cbu will be automatically populated in the Backup Name text box. If you want to alter the name, enter the new name in the text box.

## CD/DVD

If you wish to have a permanent copy of the backup, storing it on an optical disk like compact disk (CD) or digital versatile disk (DVD) will be the best choice. Comodo BackUp has a built-in disk burner feature, which can directly write the backup file onto your CD/DVD.

### To save the backup on a CD/DVD

- Select 'CD/DVD' radio button.



A configuration interface for disk writing task will be displayed in the right hand side pane.

- **From** - Allows you to select the CD/DVD drive (if you have more than one optical disk drive) to write the backup file on to the disk.
- **Disk Label** - Allows you to set the Disk label for the disk to be written. By default:
  - If a blank or a new disk (without a pre-configured label) is inserted, this field is auto-populated with the date of creating the back-up. If you want to set the label of your choice, you can edit the text in this field;
  - If a disk with a pre-configured label is inserted, this field is auto-populated with the disk label of the inserted disk.
- **Burn Speed** - Allows you to specify the speed at which the CD or DVD will be burned. The exact options listed in the drop-down reflect the speeds that your device is capable of. Slower speeds take longer but are less prone to write errors. Comodo recommends you first select the fastest speed available for your device and try stepping down only if you experience write errors.
- **Erase Disk** - Instructs CBU to erase the contents of the disk prior to writing the backup file onto it (Applies only for Rewritable (RW) disks)
- **Eject disk when finished** - Instructs CBU to eject the disk on completion of writing

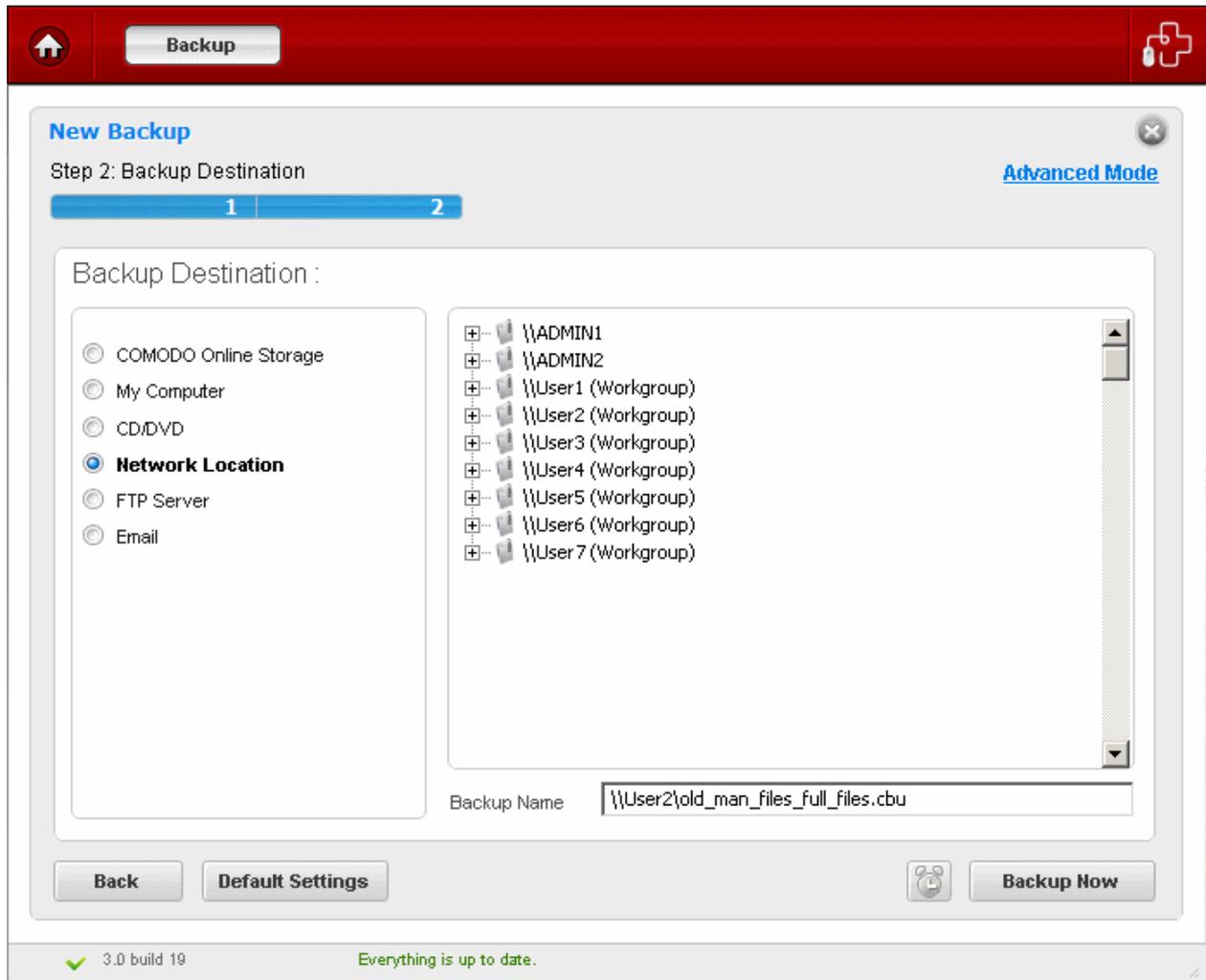
operation.

### Network Computer

If you are connected to a network, you can also choose to save your backup on another computer in your network. This is a good practice so that you can restore your original files and settings even if your computer crashes and you have to reinstall Windows again.

#### To save your backup on another computer on your network

- Select 'Network Location' radio button.



All the computers connected in your network are displayed. (It may take a few seconds to list all the computers. Please wait)

Select the computer in which you want to save the backup. You will be prompted to enter the user name and password if the computer you selected is protected by user access control.

- Enter the login User name and password for the computer you selected in the respective fields and click 'OK'.

You can navigate through the folder tree structure of the selected computer.

- Select the destination folder you want to save the backup.
- A suggested file name for the current backup with an extension .cbu will be automatically populated in the Backup Name text box. If you want to alter the name, enter the new name in the text box.

### FTP Server

If you are having an access to an FTP site, Comodo BackUp allows you to save your backup files in the FTP server. This provides an additional layer of safety that you can restore your backup even your total network crashes. Also this does not need a dedicated disk space in your computer or network to save your backup files.

### To save your backup in an FTP server

Select 'FTP Server' radio button.

The screenshot shows the 'New Backup' wizard in 'Step 2: Backup Destination'. The 'Backup Destination' section on the left has the 'FTP Server' radio button selected. The right section, titled 'Welcome!', contains a login form with the following fields: 'Account' (a dropdown menu with 'New ...' selected), 'Server', 'Port', 'Username', and 'Password'. There is also a checkbox for 'Remember my username and password' and a 'Sign In' button. At the bottom of the wizard, there are buttons for 'Back', 'Default Settings', and 'Backup Now'. The version number '3.0' is visible in the bottom left corner.

The right pane displays the login page for your FTP server.

- If you are using an FTP account for the first time, Select 'New' from the Account: drop-down.
- Type the name of your FTP server in the 'Server' text box (The prefix ftp:// is optional).
- Enter the port number of the server for connection (default = 21).
- Type your user name for the FTP server in the 'Username' text box.
- Type your password for accessing the FTP server.
- Click 'Sign In'.

**Note:** The 'Account:' drop-down can display all the FTP accounts you might be using as Backup destinations. New FTP accounts can be added to this drop-down, by selecting the 'Remember my username and password' checkbox whenever you use an FTP account for the first time. When using a previously added FTP account in future, you just need to select the account from the Account: drop-down, and need not enter the Server name, username and password.

**Welcome !**

Sign in with your FTP Username

Account :

Server:

Port:

Username :

Password:

Remember my username and password

On successful login, the folder tree structure of the server will be displayed.

Browse through the folders and select the location for storing your backup.

- A suggested file name for the current backup with an extension .cbu will be automatically populated in the Backup Name text box. If you want to alter the name, enter the new name in the text box.

## Email

Comodo BackUp is capable of creating a backup file and send it through email to the address you specify as an attachment. This is very much useful if you want to send some files or folders to some one, instantly and relieves you from the chores of composing a new mail and adding attachments every time you send files to your friend/colleague.

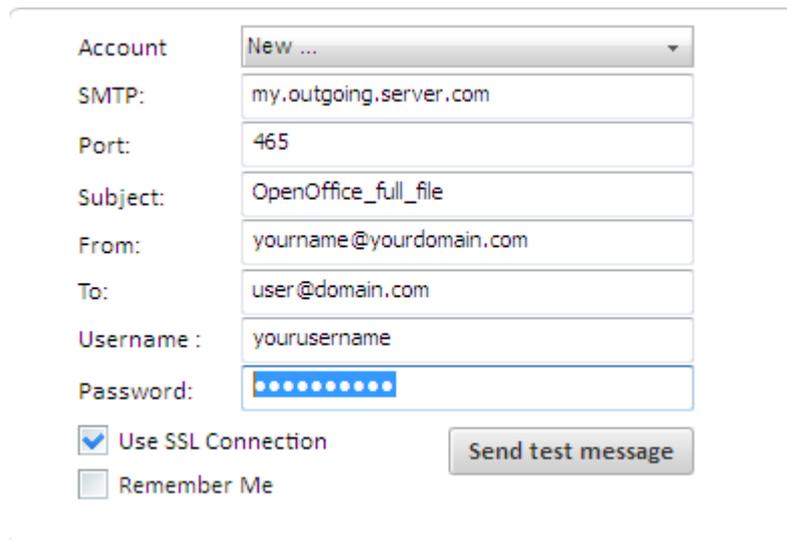
### To send your backup file through email

- Select 'Email' radio button.

The right hand side pane displays the email account configuration interface.

- If you are using your email account for the first time, Select 'New' from the 'Account:' drop-down.
- Enter the name of the SMTP server, the address of the outgoing mail server that the notification emails are sent through, in the 'SMTP Server' text box.
- Enter the port number of the server to be used. (default = 25 for non-SSL connection and 465 for SSL connection)
- Type the subject for the backup email in the 'Subject' text box. This is to indicate that the email is auto-generated by Comodo BackUp application (e.g. Comodo BackUp file).
- Enter the address on behalf of whom the backup file should be sent. (e.g. your email address) in the 'From' text box. Note: This address should be supported by SMTP server you defined.
- Enter the email address of the person to whom the backup should be sent in the 'To' text box. If you want the backup file to be sent to yourself, enter your email address here.
- Type the username of your email account in the 'Username' text box.
- Type your email account password in the 'Password' text box.
- If you want to use the secure SSL connection for the email, select the 'Use SSL Connection' checkbox.

**Note:** The 'Account:' drop-down can display all the email accounts you might be using for sending Backup files. New email accounts can be added to this drop-down, by selecting the 'Remember me' checkbox whenever you use an email account for the first time. When using a previously added email account in future, you just need to select the account from the Account: drop-down, and need not enter the other details.



- To check whether you have made the configurations correctly, click 'Send test message' button. A success or failure dialog is displayed. If a failure dialog is displayed, recheck your specifications and try again. On success message, check your email inbox to see the test message.

The final stage is the execution of the configured backup job. You can:

**Schedule the backup to run at recurring time intervals or upon the occurrence of an certain event (optional);**

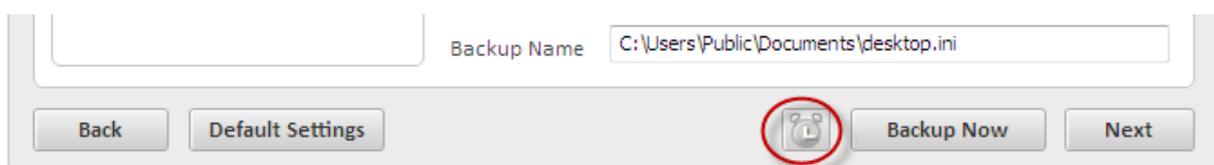
and/or

**Execute the backup job instantly.**

### 2.1.1.3. Schedule the Backup (optional)

The scheduling option in Comodo Backup enables you to run the configured backup job periodically. Once you scheduled, the backup job will be executed at the set intervals with the chosen **run mode** without your intervention and will ensure that the latest version of the source selected in **step 1** is backed-up in the destination selected in **step 2**.

If you need the configured backup job to be run at recurring intervals or upon occurrence of a certain event, click the alarm clock button at the bottom right corner.



Schedule Settings interface will open.

Home Backup Help

### Schedule a backup

Settings

Frequency:

Date:

Time:

If schedule is missed:

Run mode:

Remember connection information (unsafe)

Back Save Schedule

✓ 3.0

## Schedule Options

The available scheduling options are:

- **Manual**
- **At Logon**
- **Once**
- **Daily**
- **Weekly**
- **Monthly**
- **When Idle**

### To schedule the created backup job

- Click the drop-down button in the Frequency: drop-down menu to select the period option. The lower two options vary depending on the selection made in the topmost menu.

#### Manual

Allows you to execute the backup job at any time you wish.

### To schedule the created backup job to be executed manually

1. Select the option 'Manual' from the Frequency: drop-down menu.
2. Select the run mode of the scheduled backup job. See [Selecting Run Mode for Scheduled Backup Job](#) for more details.
3. Click 'Save Schedule'.

#### At Logon

Executes the created backup job every time when the user logs on to the computer.

## To schedule the created backup job to be executed at logon

1. Select the option 'At Logon' from the Frequency: drop-down menu.
2. Select the time delay for the backup job to start from the logon time (in seconds) in the 'Wait before starting task' text box that appears after selecting 'At Logon'.

**Note:** The system resources are utilized by the startup services and programs during logon. You have to set enough time delay for the Comodo BackUp to start so that your system resources are not over loaded during start-up and adequate resources are available for the application to execute the backup job.

3. Select the 'Run mode' of the scheduled backup job. See [Selecting Run Mode for Scheduled Backup Job](#) for more details.
4. Click 'Save Schedule'.

## Once

Executes the created backup job only once at a scheduled day / time.

## To schedule a backup job to run once

1. Select the option 'Once' from the Frequency: drop-down menu. The drop-down options for selecting the day and time are displayed below.
2. Click the drop-down button from the day menu and select the day at which the backup job to be executed from the calendar displayed.

Home Backup Help

### Schedule a backup

Settings

Frequency: Once

Date: 9/24/2010

Time: 3:34:12 PM

If schedule is missed: Do Nothing

Run mode: Autoclick Finish after backup

Remember connection information (unsafe)

Back Save Schedule

✓ 3.0

3. Select the time at which the backup job is to be executed from the time combo box.
4. Select how the application should react if the schedule fails to execute from the 'If schedule is missed' drop-down menu. See [Missed Schedule Options](#) for more details.
5. Select the 'Run mode' of the scheduled backup job. See [Selecting Run Mode for Scheduled Backup Job](#) for more details.
6. Click 'Save Schedule'.

**Note:** The backup job scheduled to run 'once' will be deleted after the successful completion of backup.

## Daily

Executes the created backup job every day at the set time.

### To schedule a backup job to be executed daily

1. Select the option 'Daily' from the Frequency: drop-down menu. The drop-down option for selecting the time is displayed below the topmost drop-down menu.
2. Select the time at which the backup job is to be executed from the time combo box.
3. Select how the application should react if the schedule fails to execute from the 'If schedule is missed' drop-down menu. See [Missed Schedule Options](#) for more details.
4. Select the 'Run mode' of the scheduled backup job. See [Selecting Run Mode for Scheduled Backup Job](#) for more details.
5. Click 'Save Schedule'.

## Weekly

Executes the created backup job on selected day(s) of every week at the set time.

### To schedule a backup job to be executed weekly

1. Select the option 'Weekly' from the Frequency: drop-down menu

The check-boxes for selecting the day(s) of the week (Monday through Sunday) and a combo box for selecting the time are displayed.

2. Select the day(s) of the week for scheduling the backup job by selecting the checkboxes beside the respective day(s). You can choose any number of days.
3. Select the time at which the backup job is to be executed from the time combo box.

Home Backup Help

### Schedule a backup

Settings

Frequency: Weekly

Time: 3:34:12 PM

If schedule is missed: Do Nothing

Run mode: Autoclick Finish after backup

Remember connection information (unsafe)

Monday  
 Tuesday  
 Wednesday  
 Thursday  
 Friday  
 Saturday  
 Sunday

Back Save Schedule

✓ 3.0

4. Select how the application should react if the schedule fails to execute from the 'If schedule is missed' drop-down menu. See [Missed Schedule Options](#) for more details.
5. Select the 'Run mode' of the scheduled backup job. See [Selecting Run Mode for Scheduled Backup Job](#) for more details.
6. Click 'Save Schedule'.

### Monthly

Executes the created backup job on selected date of every month at the set time.

#### To schedule a backup job to be executed Monthly

1. Select the option 'Monthly' from the Frequency: drop-down menu.

A text box for entering the date and a combo box for selecting the time are displayed.

Home Backup Help

### Schedule a backup

Settings

Frequency: Monthly

Day of month: 20

Time: 3:34:12 PM

If schedule is missed: Do Nothing

Run mode: Autoclick Finish after backup

Remember connection information (unsafe)

Back Save Schedule

✓ 3.0

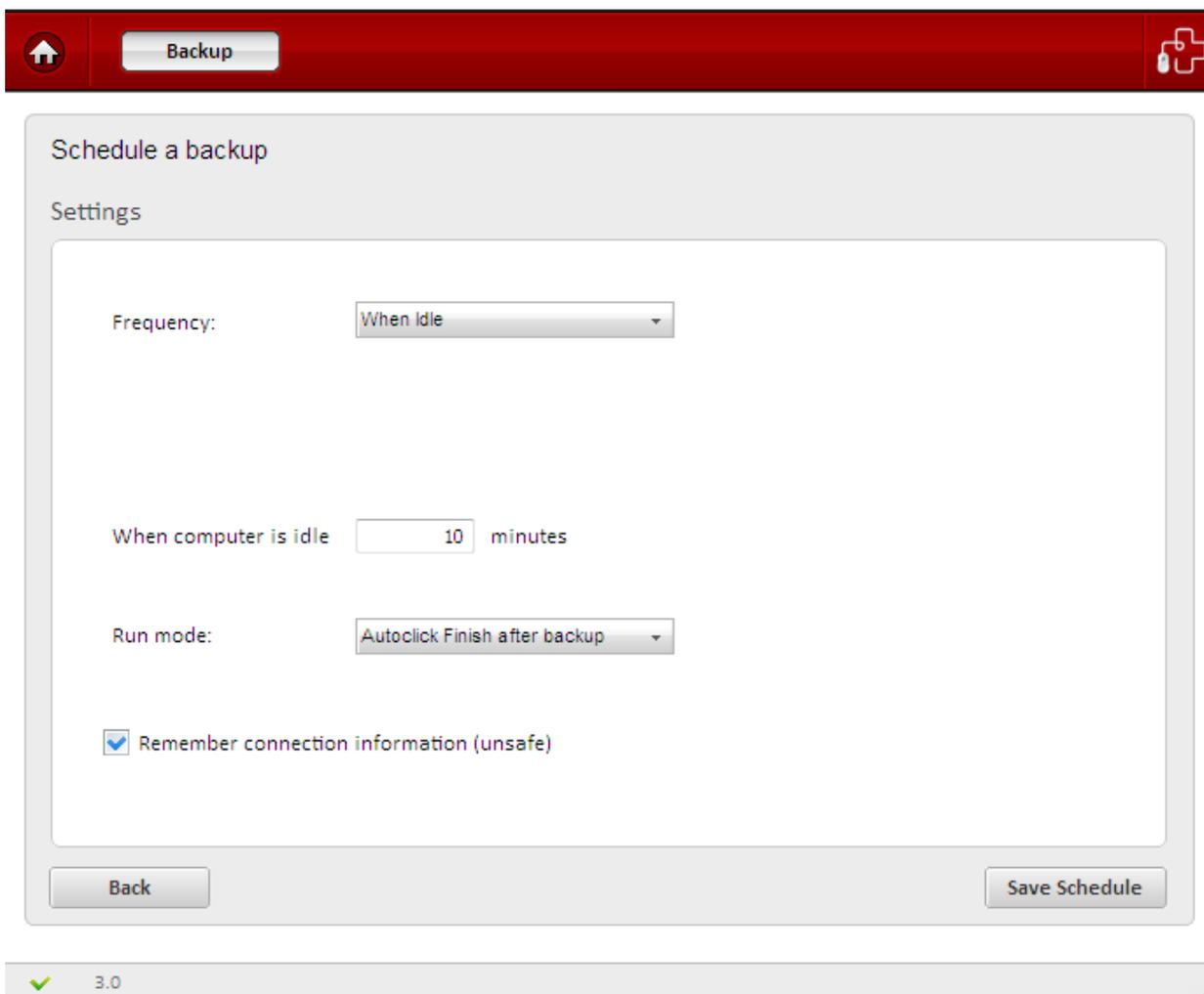
2. Enter the date at which the backup job has to be executed every month (between 1 and 31. If you have entered 31, the back up is executed only on the months with 31 days e.g. January, March, May.. and is not executed on the months with 30,29 or 28 days, e.g. February, April, June etc.)
3. Select the time at which the backup job to be executed from the time combo box.
4. Select how the application should react if the schedule fails to execute from the 'If schedule is missed' drop-down menu. See [Missed Schedule Options](#) for more details.
5. Select the 'Run mode' of the scheduled backup job. See [Selecting Run Mode for Scheduled Backup Job](#) for more details.
6. Click 'Save Schedule'.

### When Idle

Executes the created backup job whenever the system goes idle with a set delay.

### To set the backup job to be executed whenever the system goes idle

1. Select the option 'When Idle' from the Frequency: drop-down menu.
2. Enter time delay (in minutes) for the backup job to start from the instant the system goes idle in the 'When computer is idle for:' text box.



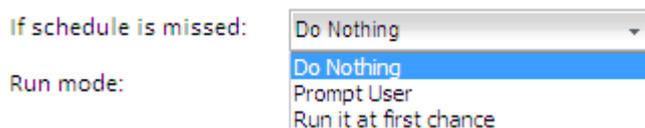
3. Select the 'Run mode' of the scheduled backup job. See [Selecting Run Mode for Scheduled Backup Job](#) for more details.
4. Click 'Save Schedule'.

**Additional Notes:**

- If you want to run the backup job immediately (apart from the schedule), click 'Backup Now' button.
- An additional checkbox 'Remember connection information (unsafe)' is displayed if you have chosen to save the backup on a password protected location like a network computer, FTP server or online server in step 2. If you select this option the connection credentials like the username and password is stored by the application in encrypted manner. You are not prompted every time to enter the username and password on execution of the backup job.

**Missed Schedule options** - You can configure how Comodo BackUp should react if a scheduled backup job does not run on time (for example, because the machine was powered off). The options available are:

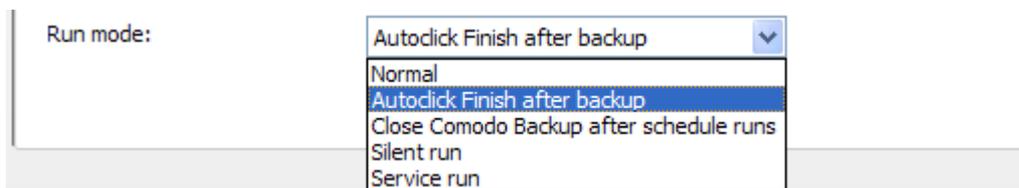
- **Do nothing** - The missed scheduled backup job is ignored
- **Prompt user** - The user is prompted to run the missed backup job the next time that they open the application



- **Run it at first chance** - The scheduled backup job is run immediately when the user opens Comodo BackUp for the next time.
- Select the required option from the drop-down menu.

**Selecting the Run Mode of the Scheduled Backup Job** - You can configure how the scheduled backup job is to be executed at the scheduled time from the Run mode drop-down menu. The options available are:

- **Normal** - Comodo BackUp is invoked at the scheduled time and the backup process is **executed**. On completion of the backup process, you have to click the 'Finish' button. You can even abort the backup process if you want during the backup progress. The application is not closed until you click the close button from the Windows controls.
- **Autoclick Finish after backup** - The backup is run at the scheduled time and the backup process is **executed**. You can even abort the backup process if you want, during the backup progress. On successful completion of the backup process, the 'Finish' button is effectively clicked automatically so that the application returns with its main interface. The application is not closed until you click the close button from the Windows controls.
- **Close Comodo Backup after schedule runs** - On successful completion of the backup job, the application is closed automatically. You can even abort the backup process if you want, during the backup progress.
- **Silent run** - Comodo BackUp is run at the background at the scheduled time to execute your backup job.
- **Service run** - Comodo BackUp is run as a Windows Service so that the backup job is executed at the background automatically even if you are not logged in.

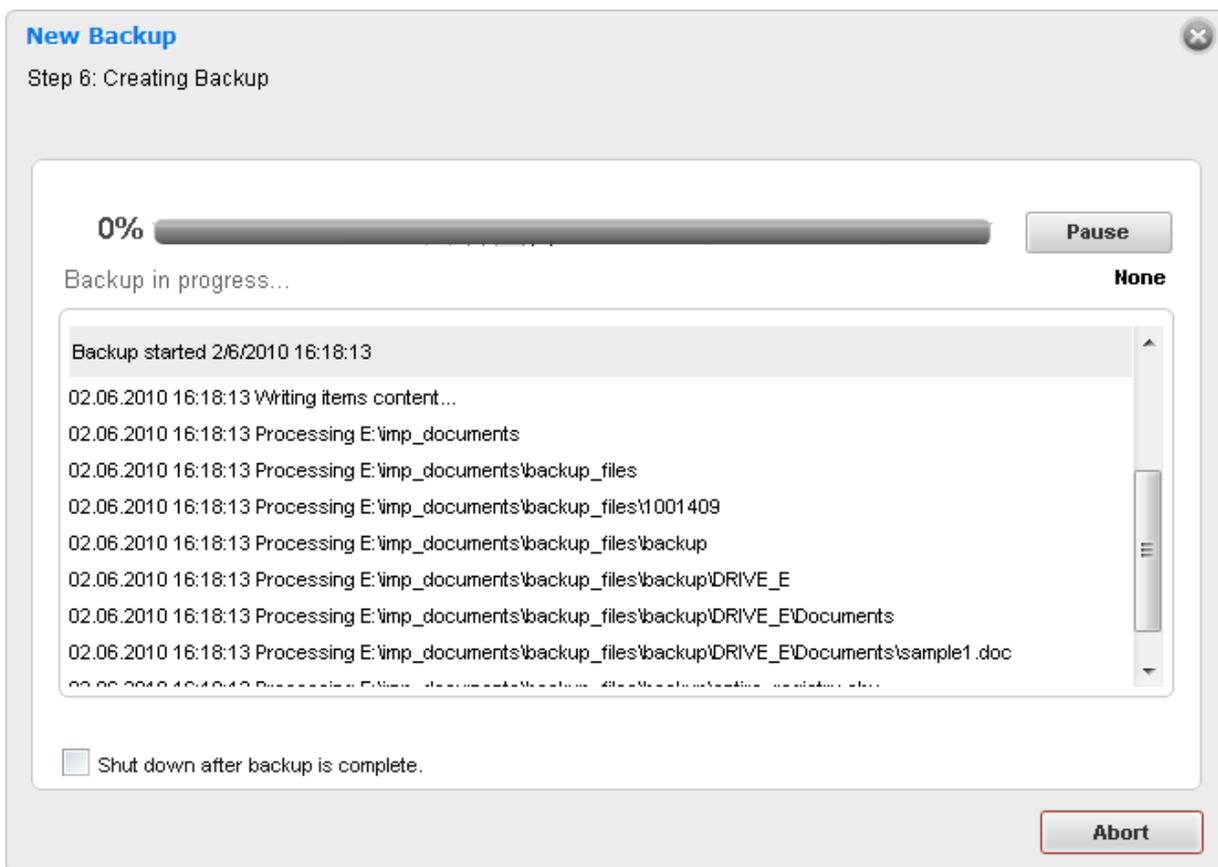


- Select the required option from the drop-down menu.

**Note:** The options Silent Run and Service Run will not be available if you have chosen the 'Manual' schedule option.

## 2.1.1.4. Run the Backup

To execute the configured backup job instantly, just click the Backup Now button at the bottom right corner. The source files selected in the **step 1** are backed-up at the location you specified in **step 2**. The progress bar indicates the backup progress. You can Pause, Resume or Abort the backup operation at this stage.



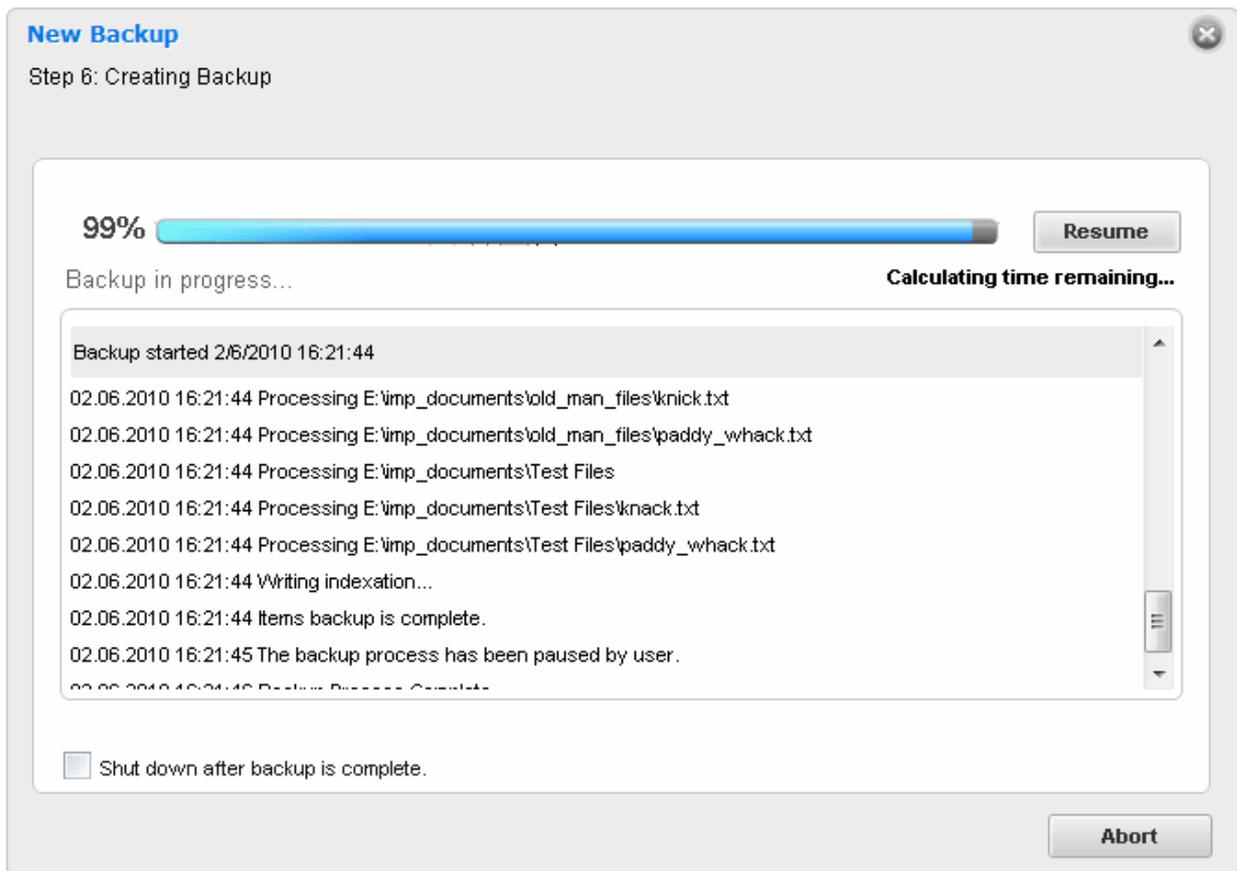
The lower pane displays the log information and shows the details about the files currently being backed up and error reports, if any.

**Note:** In Advanced Mode, the log will be displayed only if the option **Log to Screen** in **Step 4 - Configuring Advanced Backup Settings** is left checked.

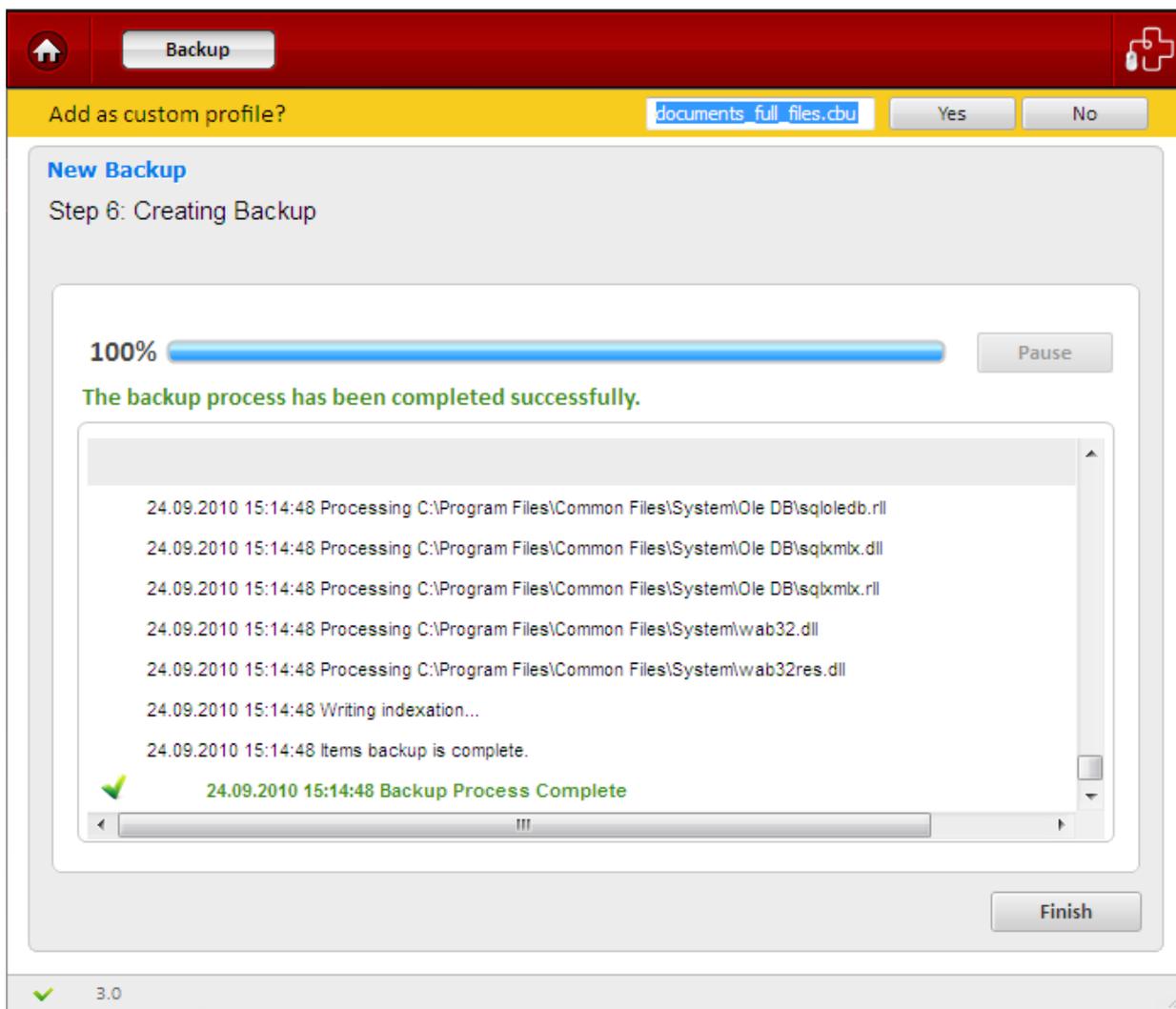
- If you want your system to be shutdown on completion of the backup operation, select the checkbox 'Shut down after backup is complete'. On successful completion, the system will automatically shutdown with a delay of 30 seconds and a countdown timer will be displayed.



- To shutdown the system immediately, click 'Shutdown'.
- To cancel the shutdown operation, click 'Cancel'.
- If you want to stop the backup job under progress, click 'Abort' button.
- If you want to temporarily stop the backup operation, click the 'Pause' button. The backup progress is with held.



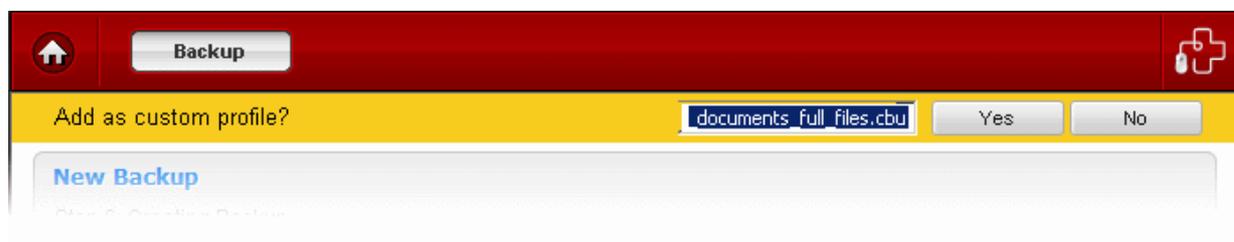
- To restart the backup operation, click 'Resume' button. The process is restarted.



- On completion of the backup operation, a new message is displayed on top of the main configuration area, prompting you to add the backup job as a custom profile.

Adding the backup job as a custom profile displays the configured job as a custom profile in the list of Other Profiles in the Backup main interface, enabling easy access to the job and to execute repeatedly with a single mouse click. If you wish to execute the currently configured job often, so that all the updates done to the source files are reflected in the backup, you can opt for adding this job as a custom profile. Refer to the chapter **Other Profiles** for more details.

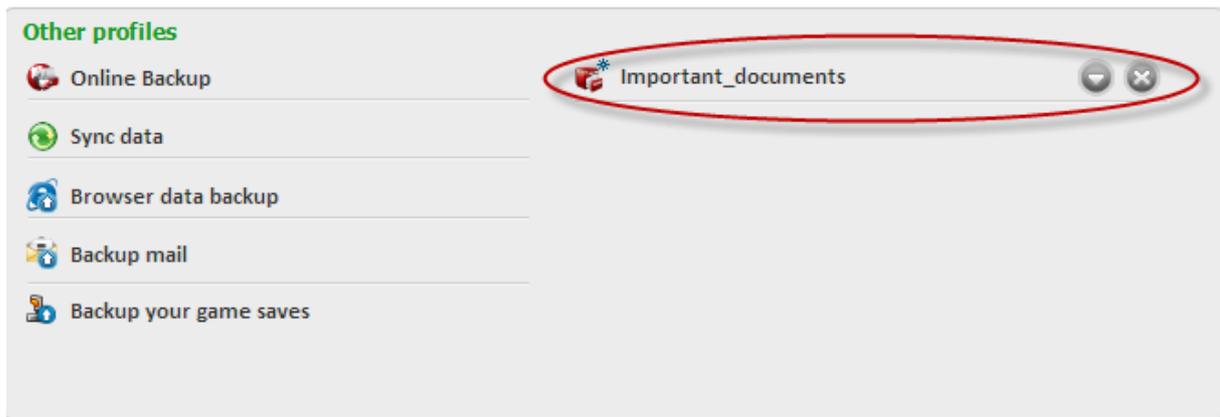
- The text box in this area allows you to enter a name for the profile. By default, the file name of the current backup is displayed.



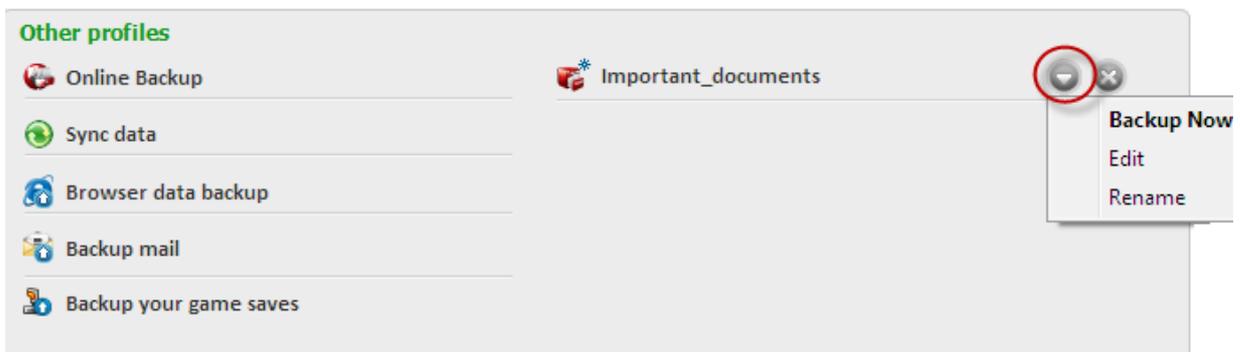
- Enter a name to easily identify the backup job and click 'Yes' to add the backup job as a custom profile...



...so that the current backup job is added as a custom profile and listed in the 'Other Profiles' area in the Backup interface as shown below, on completion of the backup process.



- To complete the backup process, click 'Finish'.



Clicking the down button you have three options:

- Backup Now - Allows you to backup the custom backup profile instantly
- Edit - Allows you to edit the custom backup profile
- Rename - Allows you to rename the custom backup profile

## 2.1.2. Advanced Mode

The Advanced Mode backup operation allows granular configuration in selecting the backup source destination and backup file formats and to configure additional features like Archive Settings, Advanced backup settings, and email notifications.

Configuring a Backup job in Advanced Mode consists of five simple steps:

**Step 1: Select the items for backup** (Choose which kind of data you wish to backup) and the backup format.

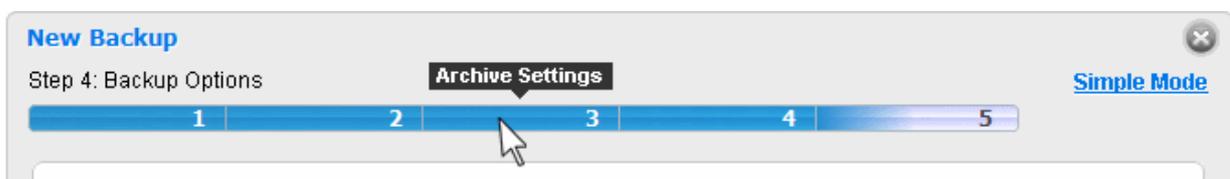
**Step 2: Choose the destination of your backup.**

**Step 3: Configure Archive Settings.**

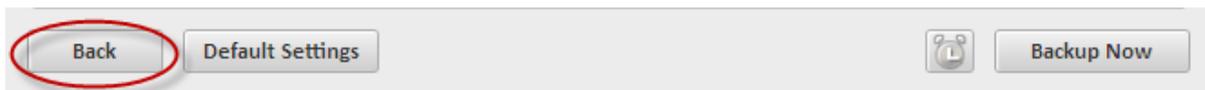
**Step 4: Configure the advanced backup Settings.**

**Step 5: Configure email notification and tasks to run before and after a backup operation.**

The progress bar on the top indicates the configuration progress with step numbers. Placing the mouse cursor on a step displays a tool tip with a brief description of the step.



To return to a previous step to review/redo the configuration made, just click the respective step number. You can also return to the previous step by clicking the 'Back' button.

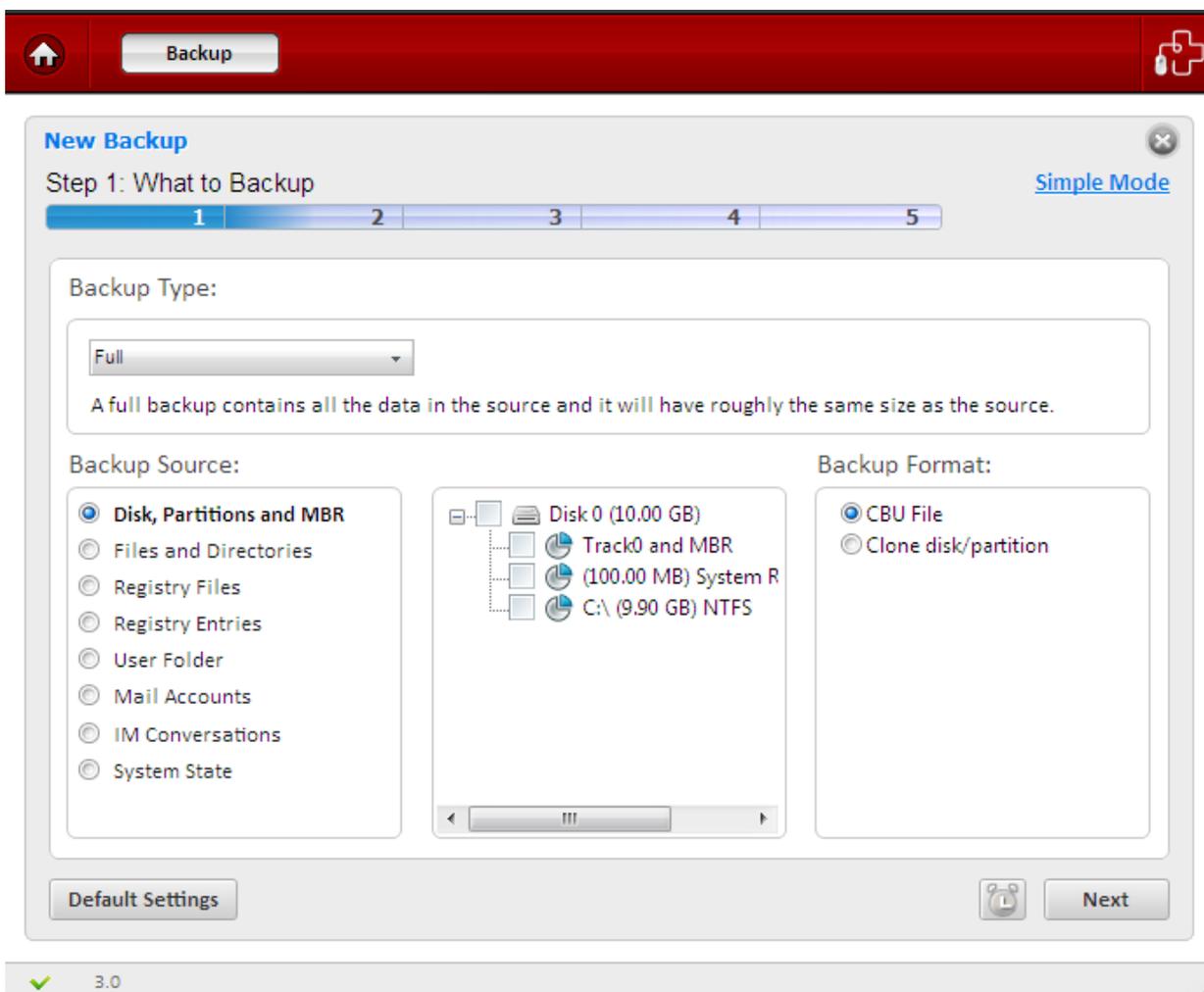


Clicking Default Settings clears the selections made in the respective step and allows you to reconfigure the options in that step.



On completion of the backup job configuration, you need to **finalize** the backup operation by executing it instantly or schedule the job to be executed at a later time or at recurrent intervals.

## 2.1.2.1. Selecting the Backup Source and Backup Format



The first stage of the process is to choose the type of backup (full, differential or incremental), which item you want to backup and the format of the backup file. Comodo BackUp allows the user to backup entire drives; select multiple or individual files and folders to backup; take complete or partial backups of the Windows registry and backup important system settings. The program also allows the user to make copies of their emails, IM messages and personal Windows user settings.

### 2.1.2.1.1. Selecting the Backup Type

Comodo BackUp allows you to generate different types of backups:

- **Full Backup;**
- **Differential Backup;**
- **Incremental Backup.**

**Important Note:** Only full backups are available for Registry Files, Registry Entries, User Folder, Mail Accounts, IM Conversations and System State.

## Full Backup

As the name suggests, a full backup is a complete copy of every source file and folder specified by the user. The suggested file name of a full backup will have a suffix FULL\_files in it. e.g. filename\_full\_files.cbu. Once a full backup has been taken it will serve as the baseline upon which future incremental and differential backups are based.

## Differential Backup

The backup will contain only those files which are modified after the last *full* backup operation. Because of this, the entirety of your data set is backed up across only two containers rather than spread across multiple containers as is the case with incremental backups. This means that restore operations are quicker but, if you take and keep a lot of differential backups, then you may duplicate data. The suggested file name of a differential backup will have a suffix dif\_files in it. e.g. filename\_dif\_files.cbu. Advantages of differential backup - faster restore operations than incremental backups because your data is spread across few containers. Disadvantages - Slower backups than incremental backups because you are saving all data that has changed since the last full backup. Can take up more disk space if you retain multiple, differential backups.

**Tip:** Use a combination of full, differential and incremental backups to achieve a good balance. For example, schedule daily incremental backups, a weekly differential backup and a monthly full backup.

**Prerequisite:** You must have created at least one full backup of a source item, to have differential backup of the same source.

### Example:

Let us take for example that you are taking a full backup of a folder 'Test Folder' containing Four files File A, File B, File C and File D on day 1 and have scheduled to take differential backups of the folder on a daily basis. The following table explains what would be the contents of successive differential backups, if you modify the files as given in column two.

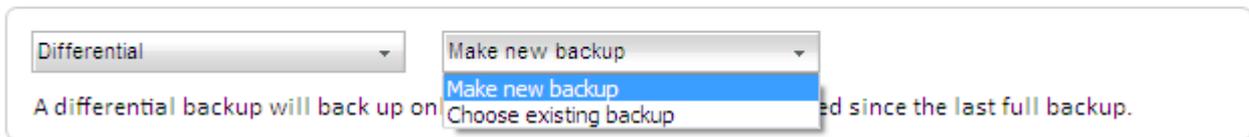
Day	Files Edited	Type of Backup taken	Files contained in the full backup (Test Folder_full_files.cbu)	Files contained in the differential backup (Test Folder_dif_files.cbu)
Day 1		Full	File A, File B, File C and File D	
Day 2	File A	Differential	File A, File B, File C and File D (original versions)	File A (modified version)
Day 3	File B	Differential	File A, File B, File C and File D (original versions)	File A (version modified on Day 2) and File B (version modified on Day 3)
Day 4	File B and File C	Differential	File A, File B, File C and File D (original versions)	File A (version modified on Day 2), File B (version modified on Day 4) and File C (version modified on Day 4)

Also, restoring the files to the latest version is easy, as the files are to be restored from the last full backup location and the differential backup location.

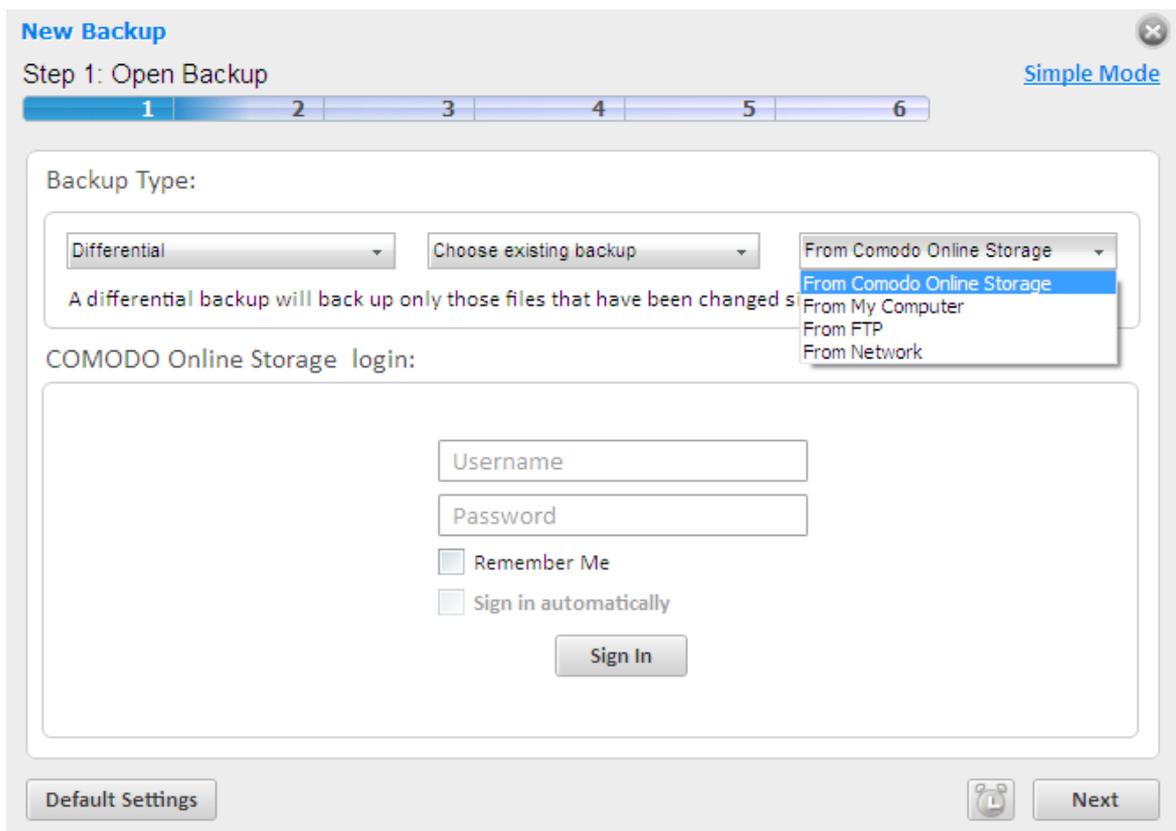
## To perform a differential backup

1. Select Differential from the 'Backup Type' drop-down menu. Another drop-down menu will be displayed to select whether you want to create a new backup or choose existing backup as base line.

## Backup Type:



- If you want to manually select the backup source for the differential backup yourself, select 'Make new backup' and then select the **backup source**.
- If you want the application to automatically choose the backup source for which a full backup has been taken previously, select 'Choose existing backup'. Another drop-down will appear to choose the previous full backup of the same source as the baseline.



- **From Comodo online Storage** - Enables to select a full backup stored in Comodo Online Storage.
  - Enter your username and password for accessing your online storage space and click Sign-in.
  - After signing-in, your online space will be visible/accessible as regular Windows tree structure.
  - Navigate to the folder where you have stored the backup, select the backup file and click 'Open'.
- **From My Computer** - Enables to select a full backup stored in your hard disk. On selecting this option, the disk drives and folders are displayed as a tree structure in the lower panel.
  - Navigate to the folder where you have stored the backup, select the backup file and click 'Open'.
- **From FTP** - Enables to select a full backup stored on a FTP server.
  - Type the name of your FTP server in the 'Server' text box (The prefix ftp:// is optional).
  - Enter the port number of the server for connection (default = 21).
  - Type your user name for the FTP server in the 'Username' text box.
  - Type your password for accessing the FTP server.
  - Click 'Sign In'.
  - On successful login, the folder tree structure of the server will be displayed.
  - Navigate to the folder where you have stored the backup, select the backup file and click 'Open'.

- **From Network** - Enables to select a full backup stored on a computer in your network. On selecting this option, all the computers connected in your network are displayed. (It may take a few seconds to list all the computers. Please wait).
  - Select the computer in which you have saved your backup. You will be prompted to enter the user name and password if the computer you selected is protected by user access control.
  - Enter the login User name and password for the computer you selected in the respective fields and click 'OK'.
  - You can navigate through the folder tree structure of the selected computer.
  - Navigate to the folder where you have stored the backup, select the backup file and click 'Open'.

On selecting a previous full backup, the corresponding backup source will be automatically selected in the 'Backup Source' area and you can directly move to the **Step 2 - Selecting the Backup Destination**. By clicking 'Next'.

**Tip:** The full backup and incremental/differential backups for a same source, can be stored in the same destination backup file in .cbu format

**Note for Advanced Users:** The differential backup is performed at 64KB block level - meaning the file will be divided into blocks of 64KB size and the differential backup will store only those 64KB blocks, in which the data is changed and not the other blocks. For example, if only one byte of data has been changed in a 4GB file, only that 64KB block in which the data has changed will be backed-up.

## Incremental Backup

The backup will contain only those files which are modified after any the last full, differential or incremental backup operation. The incremental backup consumes can consume less disk space than taking successive scheduled or manual full or differential backups as only the files which are modified after the last backup of any type, are stored in the backup location. In contrast to a differential backup, where the whole data set is covered by just two containers, taking regular incremental backups means that your data can be spread across multiple, smaller containers. The suggested file name of a incremental backup will have a suffix inc\_files in it. e.g. filename\_inc\_files.cbu. Advantages of incremental backup - faster than differential backups because you are typically saving less files per operation; can consume less space than differential as you are saving only the data that has been modified since the last operation. Disadvantages - slower restore operations that must draw data from several containers.

Incremental Backup supports simple copy format for files and folders. While backing up for the first time, all the selected files and folders are copied to the destination and during subsequent executions, whether scheduled or custom profile backup job, only files that are altered are copied to the destination thus saving bandwidth if the backup destination is in the network, FTP or Comodo Online Storage.

**Tip:** Use a combination of full, differential and incremental backups to achieve a good balance. For example, schedule daily incremental backups, a weekly differential backup and a monthly full backup.

**Prerequisite:** You must have created at least one full backup of a source item, to have an incremental backup of the same source.

### Example:

Let us take for example that you are taking a full backup of a folder 'Test Folder' containing Four files File A, File B, File C and File D on day 1 and have scheduled to take incremental backups of the folder on a daily basis. The following table explains what would be the contents of successive incremental backups, if you modify the files as given in column two.

Day	Files Edited	Type of Backup taken	Files contained in the full backup (Test Folder_full_files.cbu)	Files contained in the incremental backup (Test Folder_inc_files.cbu)
Day 1		Full	File A, File B, File C and File D	
Day 2	File A	Incremental	File A, File B, File C and File D (original versions)	File A (modified version)

Day 3	File B	Incremental	File A, File B, File C and File D (original versions)	File B (modified version)
Day 4	File B and File C	Incremental	File A, File B, File C and File D (original versions)	File B (version modified on Day 4) and File C (version modified on Day 4)

The main difference between the differential backup and incremental backup is that the differential backup duplicates the files which are modified after the last full backup and not modified after another differential or incremental backup and stores along with the last modified files, whereas an incremental backup stores only the files modified after the last backup of any type.

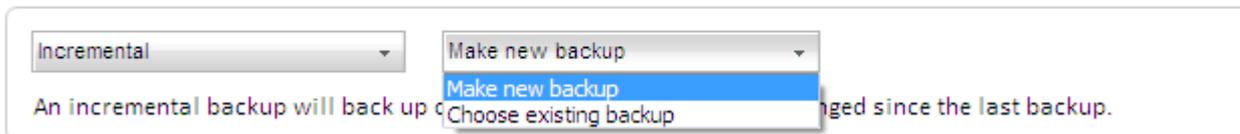
While restoring, the files are to be restored from the last full backup location and all the incremental backup locations to have all the files restored.

**Tip:** To have the files which are not modified intact during restoration, Comodo recommends to select 'Append files' while choosing the restoration method for incremental file in [Restoration Step 4 - Selecting Restore Method](#).

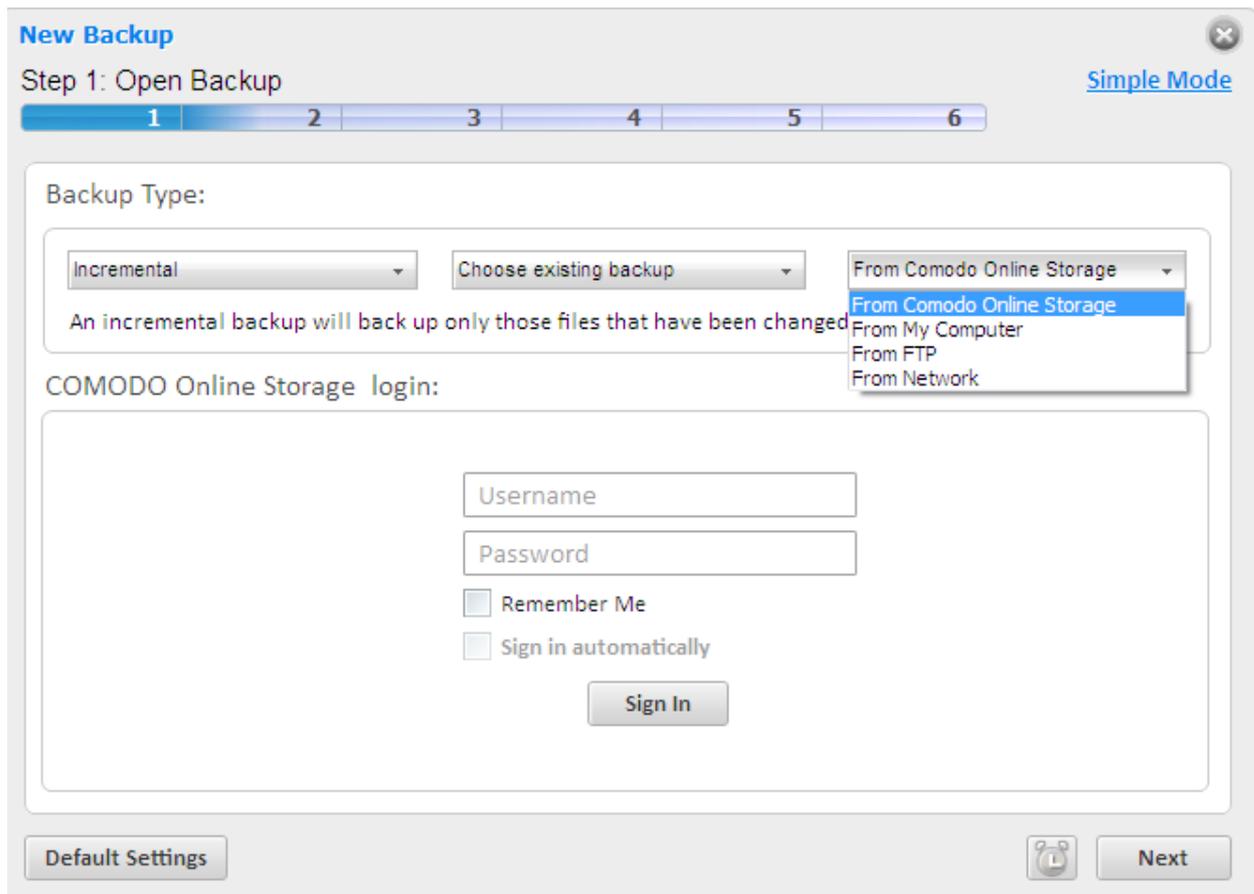
## To perform an Incremental Backup

1. Select 'Incremental' from the 'Backup Type' drop-down menu. Another drop-down menu will be displayed to select whether you want to create a new backup or choose existing backup as base line.

### Backup Type:



If you want to manually select the backup source for the incremental backup yourself, select 'Make new backup' and then select the **backup source**.



If you want the application to automatically choose the backup source for which a full backup has been taken previously, select 'Choose existing backup'. Another drop-down will appear to choose the previous full backup of the same source as the baseline.

**From Comodo online Storage** - Enables to select a full backup stored in Comodo Online Storage.

Enter your username and password for accessing your online storage space and click Sign-in.

After signing-in, your online space will be visible/accessible as regular Windows tree structure.

Navigate to the folder where you have stored the backup, select the backup file and click 'Open'.

**From My Computer** - Enables to select a full backup stored in your hard disk. On selecting this option, the disk drives and folders are displayed as a tree structure in the lower panel.

Navigate to the folder where you have stored the backup, select the backup file and click 'Open'.

**From FTP** - Enables to select a full backup stored on a FTP server.

- Type the name of your FTP server in the 'Server' text box (The prefix ftp:// is optional).
- Enter the port number of the server for connection (default = 21).
- Type your user name for the FTP server in the 'Username' text box.
- Type your password for accessing the FTP server.
- Click 'Sign In'.

On successful login, the folder tree structure of the server will be displayed.

Navigate to the folder where you have stored the backup, select the backup file and click 'Open'.

**From Network** - Enables to select a full backup stored on a computer in your network. On selecting this option, all the computers connected in your network are displayed. (It may take a few seconds to list all the computers. Please wait).

Select the computer in which you have saved your backup. You will be prompted to enter the user name and password if the computer you selected is protected by user access control.

- Enter the login User name and password for the computer you selected in the respective fields and click 'OK'.

You can navigate through the folder tree structure of the selected computer.

- Navigate to the folder where you have stored the backup, select the backup file and click 'Open'.

On selecting a previous full backup, the corresponding backup source will be automatically selected in the 'Backup Source' area and you can directly move to the **Step 2 - Selecting the Backup Destination**. By clicking 'Next'.

**Tip:** The full backup and incremental/differential backups for a same source, can be stored in the same destination backup file in .cbu format.

**Note for Advanced Users:** The incremental backup is performed at 64KB block level - meaning the file will be divided into blocks of 64KB size and the incremental backup will store only those 64KB blocks, in which the data are changed and the MD5 checksum values for the other blocks. For example, if only one byte of data has been changed in a 4GB file, the backup file will contain only that 64KB block in which the data has changed and the checksum values of the other blocks.

## 2.1.2.1.2. Selecting the Backup Source

The interface for selecting the backup source is same as that in Simple Mode Backup. Please refer to the section **Simple Mode > Selecting the Backup Source** for detailed explanations on the options available.

## 2.1.2.1.3. Selecting the Backup Format

Comodo BackUp can generate the backup files in different formats. The availability of the backup formats differ according to the backup source that you have selected. The backup sources and the formats available for them are given below:

Backup Source	Available Backup Formats
Disk, Partitions and MBR	<ul style="list-style-type: none"> <li>• CBU File</li> <li>• Clone disk/partition</li> </ul>
Files and Directories	<ul style="list-style-type: none"> <li>• CBU File</li> <li>• Sync copy</li> <li>• Simple copy</li> <li>• ZIP file</li> <li>• ISO file</li> <li>• Self Extracting CBU</li> </ul>
Registry Files	<ul style="list-style-type: none"> <li>• CBU File</li> </ul>
Registry Entries	<ul style="list-style-type: none"> <li>• CBU File</li> <li>• REG File</li> <li>• Self Extracting CBU</li> </ul>
User Folder	<ul style="list-style-type: none"> <li>• CBU File</li> </ul>
Mail Accounts	<ul style="list-style-type: none"> <li>• CBU File</li> <li>• Simple copy</li> </ul>
IM Conversations	<ul style="list-style-type: none"> <li>• CBU File</li> </ul>

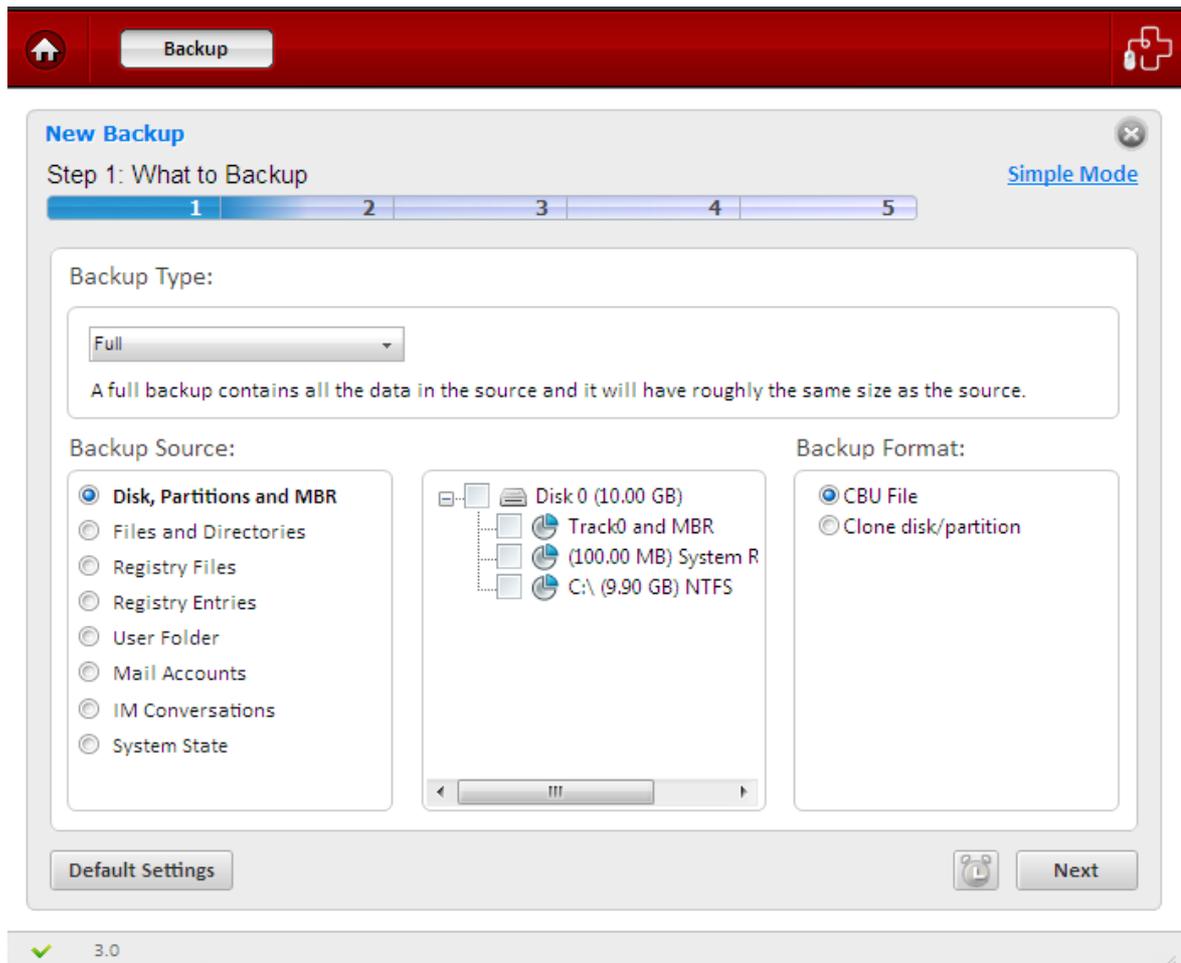
Backup Source	Available Backup Formats
	<ul style="list-style-type: none"> <li>Simple copy</li> </ul>
System State	<ul style="list-style-type: none"> <li>CBU File</li> </ul>

The available backup format types and their descriptions are given below.

Format	Description
CBU File	Native file format of the Comodo BackUp application. The backup file will be stored in the selected destination with a .cbu extension. This type of backup can be restored only with the CBU application.
Clone disk/partition	Available only when selecting Disk, Partitions and MBR as the backup source. Cloning is the process of copying the entire content of one disk/partition to another disk, so that the destination disk is an exact copy of the source disk. For example, if you are cloning a bootable disk/partition with a working operating system, the destination disk can be used to boot the system alone without the need of the source disk. This is very much useful when moving to a larger capacity disk or to restore to a virgin installation.
Simple Copy	Preserves a copy of the file in original format. The backup file is an exact copy of the selected file / folder in the current state.
Sync copy	Preserves a copy of the file in original format and checks the source file for updates at set time intervals. If the source file is found to be altered, the backup copy is also updated so that any alteration or update in the source is reflected in the backup and an up-to-date backup is provided at any given time.  Smart Synchronization helps save bandwidth and time by copying modified data in 64KB blocks. For example, if there is a change of just 1 byte in a 200 MB file, Comodo BackUp will copy only a 64 KB block to the destination instead of the entire 200 MB file.
ZIP File	Stores the backup as a zip file in the selected destination. The original files can be restored by simply extracting the zip file using programs like WinZip, WinRar, etc.
ISO File	Stores the backup as an ISO image. This is suitable if you wish to store the backup on a CD or DVD. You can directly write the image on to a CD or a DVD using a third party disk burning application.
Self Extracting CBU	Stores the backup file as an executable file (with the extension .exe). The backup can be restored by directly double clicking on the file from the Windows Explorer, without the need of CBU application. For more details on restoring a self extracting backup package, refer to the section <a href="#">Restoring Self Extracting Backups</a> .
REG File	Available only when selecting 'Registry Entries' as the backup source. The selected Registry entries are stored in the same format (with the .reg extension).

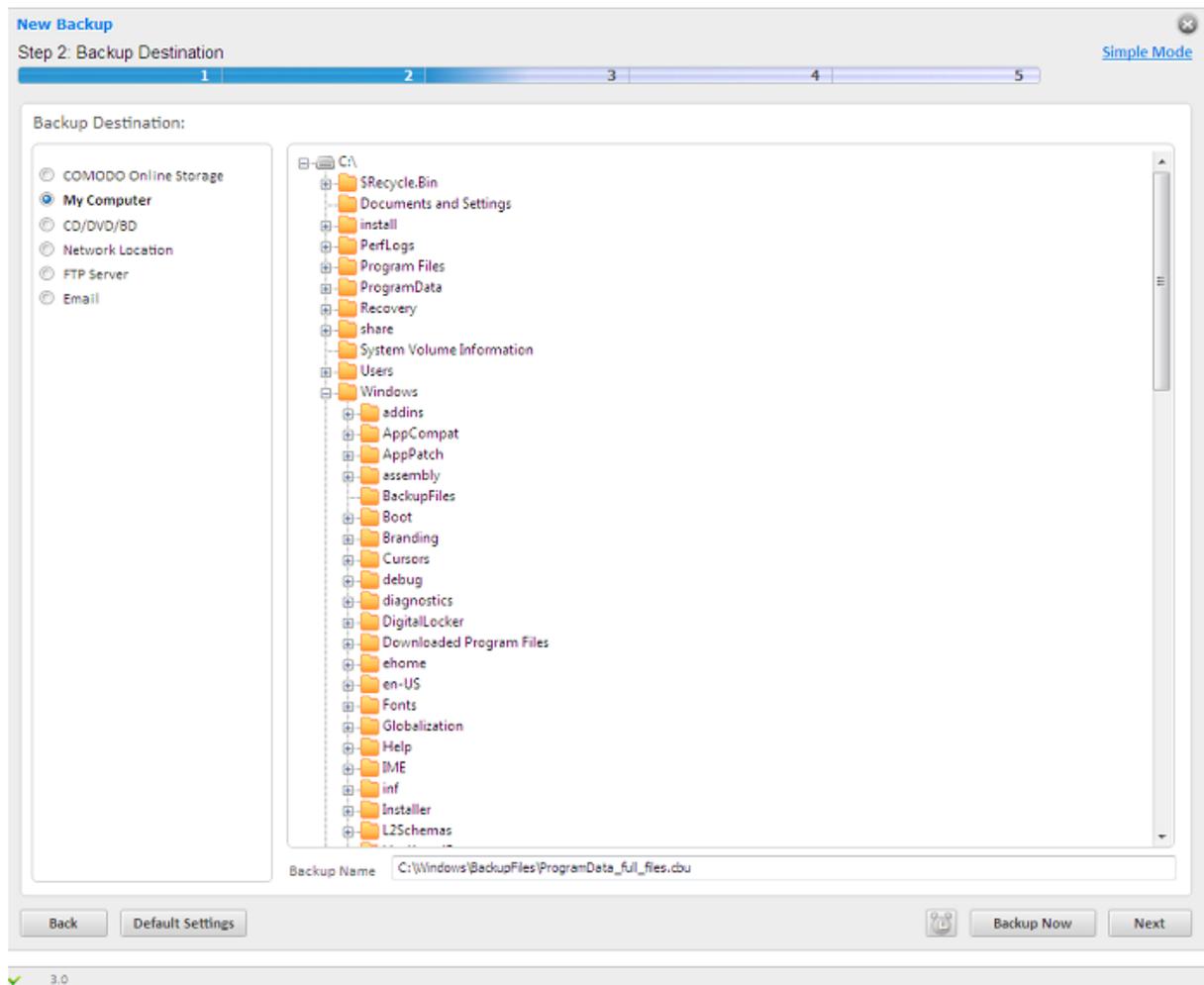
Select the backup format by clicking on the respective radio button and click Next.

The process moves to **Step 2 - Selecting the Backup Destination**.



### 2.1.2.2. Selecting a Destination to Backup

The interface for selecting the backup destination is same as that in Simple Mode Backup. Please refer to the section [Simple Mode > Selecting a Destination to Backup](#) for detailed explanations on the options available.



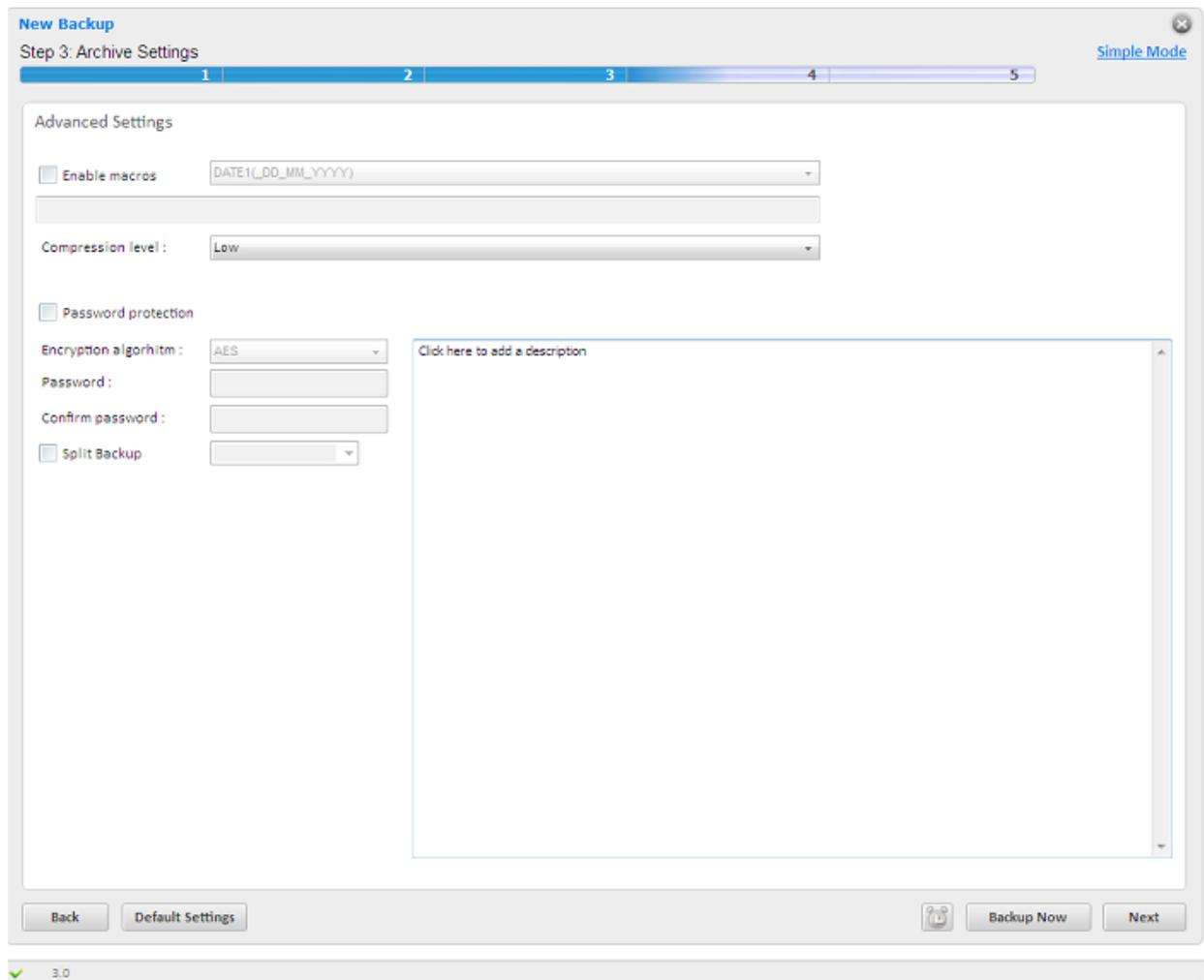
Click Next to move to the **Step - 3 Configuring Archive Settings**.

If you want to skip the further steps and finalize the backup process, click 'Backup Now' button. Refer to the section Finalization for more details.

If you want to skip the further steps and schedule the backup job click the Alarm Clock button. Refer to section **Scheduling the Backup Job** for detailed explanations of the options available.

### 2.1.2.3. Configuring Archive Settings

The next stage is to configure for archiving the backup files, set encryption and password protection for the backup.



### 2.1.2.3.1. Macros

The file names of the backup files can be named in chronological order, by adding suffixes to the file names indicating the date, time etc. This is useful when setting a single source (disk, file folder, etc) to be backed up periodically by setting scheduled backups or synchronized backups. You can even add the revision numbers as suffix. The suffix enables you to identify the backups of different versions of the same file and helps you in case you want to restore an earlier version of the file.

#### To set the Macros for naming the files

1. Select the 'Enable Macros' checkbox.

## Advanced Settings

2. From the drop-down menu containing the Macros, which are the building blocks for the suffixes to be added to the file name, select the Macros you want.
3. Click the 'Add Macros' button. The selected Macro appears as a suffix to the file name in the file name text box. You can add any number of macros to the file name by adding them one by one in the order you want.

**Note:** Selecting the option 'REVISION\_NO\_MAX(\_REV\_NO\_MAX)' from the drop-down displays the 'Reset Revision Number at' field. Select the checkbox if you want to reset the revision number and enter the revision number in the adjacent field.

- To remove the macros added, simply click the 'Remove Macros' button.

### 2.1.2.3.2. Compression level

Comodo BackUp compresses all the data into one file and stores with the file name having extension .cbu (e.g. filename.cbu), in the destination you choose in Step 2. You can choose the compression level in this stage of the process. You can choose from the levels 'None' through 'Maximum'. Higher the compression level, lower the backup disk space requirement. Select the compression level you want to use from the drop-down menu.

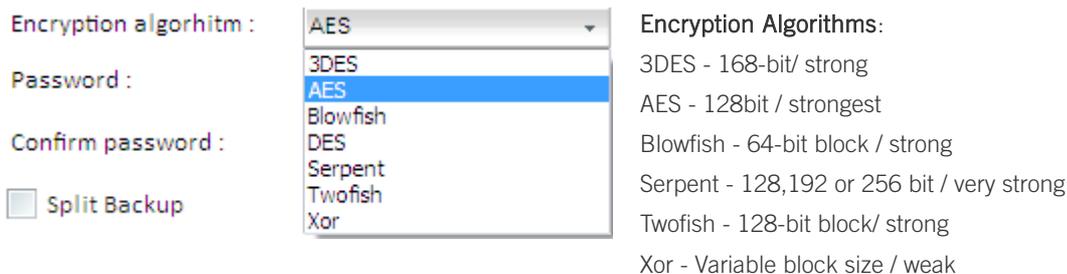
**Note:** For the backup files created without selecting the compression level, e.g., the backup files created through **Simple Mode** and the backup files created right after **Step 2 - Selecting the Destination for your Backup** by skipping the further steps, the compression level is set as 'Low' by default.

### 2.1.2.3.3. Password Protection

Providing a password protection requires the password to be entered while restoring the backup and also encrypts the backup with an encryption algorithm you choose.

#### To provide a password protection and encrypting the backup

1. Select the checkbox beside 'Password Protection'
2. Select the Encryption Algorithm you want to use for encrypting the backup from the drop-down menu.



For more details on the Encryption Algorithms, see [Appendix 1 Encryption Algorithms](#).

3. Type the password (of minimum four characters) in the 'Password' Text box
4. Retype the password in the 'Confirm password' text box.

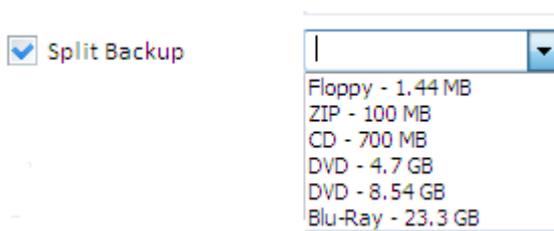
CBU generates a 32 byte key by applying a SHA256 hash algorithm to the password entered by you. If the encryption algorithm chosen by you requires a key of smaller bit length, the 32 byte key is truncated to the required length. CBU encrypts the backup file with the chosen algorithm using this key. During the restoration the backup file, CBU receives the password entered by you, generates a key by applying the same hash algorithm and uses this key to decrypt the backup file. If a wrong password is entered by someone maliciously, the key required to decrypt the backup could not be generated and the backup could not be restored, ensuring additional level of safety to the backup of your confidential information.

### 2.1.2.3.4. Splitting the Backup File

You can split the backup file into segment sizes of your choice. This is useful when you are taking backups of very large sizes, in removable media like **CD's, DVD's, ZIP drives, USB drives** etc. You can set the maximum files sizes of the segments to fit to the media you choose. The files can be rejoined while restoring the backup.

#### To split the Backup

1. Select the checkbox beside 'Split Backup'
2. Select the size you want from the preset sizes (set corresponding to different types of removable storage media like Floppy disk, CD, DVD etc. ) from the drop-down combo-box.



3. Alternatively, If you want the backup to be split into custom sizes, enter the maximum size (in MB) for each segment in the backup in the drop-down combo-box.



### 2.1.2.3.5. Description for the Backup

You can provide a description for the backup like the purpose of the backup etc. This description is displayed on the 'History' panel of Comodo BackUp interface to remind you on the purpose of backup etc.

Click on the text 'Click here to add a description' displayed at the right hand side inside the Advanced Settings pane and type the description text.

Password protection

Encryption algorithm :

Password :

Confirm password :

[Click here to add a description](#)

Click 'Next' to move to the **Step - 4 Configuring the advanced backup Settings** .

If you want to skip the further steps and finalize the backup process, click 'Backup Now' button. Refer to the section **Finalization** for more details.

If you want to skip the further steps and schedule the backup job click the Alarm Clock button. Refer to section **Scheduling the Backup Job** for detailed explanations of the options available.

## 2.1.2.4. Configuring Advanced Backup Settings

The fourth stage of the process is to configure the advanced settings for the created backup job. You can set file type filters so that you can only include only files of certain types to the backup and/or exclude files of certain types. Also you can configure for usage of resources by the application during the backup job execution, logs etc. in this stage.

**New Backup** Step 4: Backup Options [Simple Mode](#)

Activate	Filter name	Filter type
<input checked="" type="checkbox"/>	*.tmp	Exclusion
<input checked="" type="checkbox"/>	*.bak	Exclusion

When encountering locked files :

Disk (Network) Usage :  Processor Usage :

Create parent folders in destination path

Add backup to History events

Log to screen

Log to file:

Buttons: Back, Default Settings, Backup Now, Next

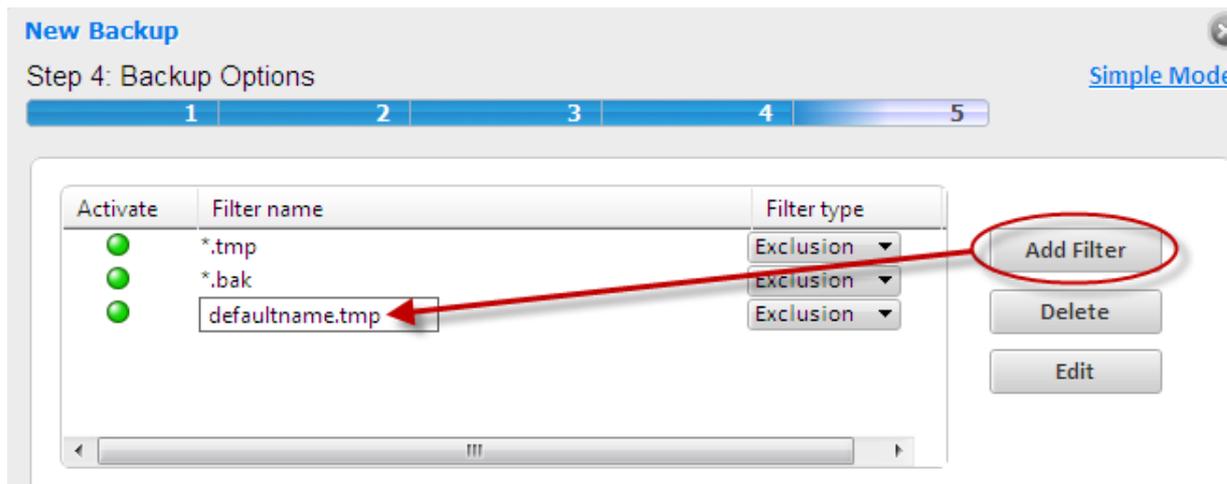
## 2.1.2.4.1. Filter Settings

Comodo Backup allows you to set filters for including or excluding the files to the backup from the source Files / Folders selected in **step 1**. This is useful, when you want to exclude or only include files of selected type or files having a selected string in their file name in the backup. For example, you may want to exclude all the temporary files in the selected folder from being backed up, include only the files with a specific string in the file name of a selected set of files or folder into the backup etc. You can set the exclusion and inclusion filters accordingly in this step.

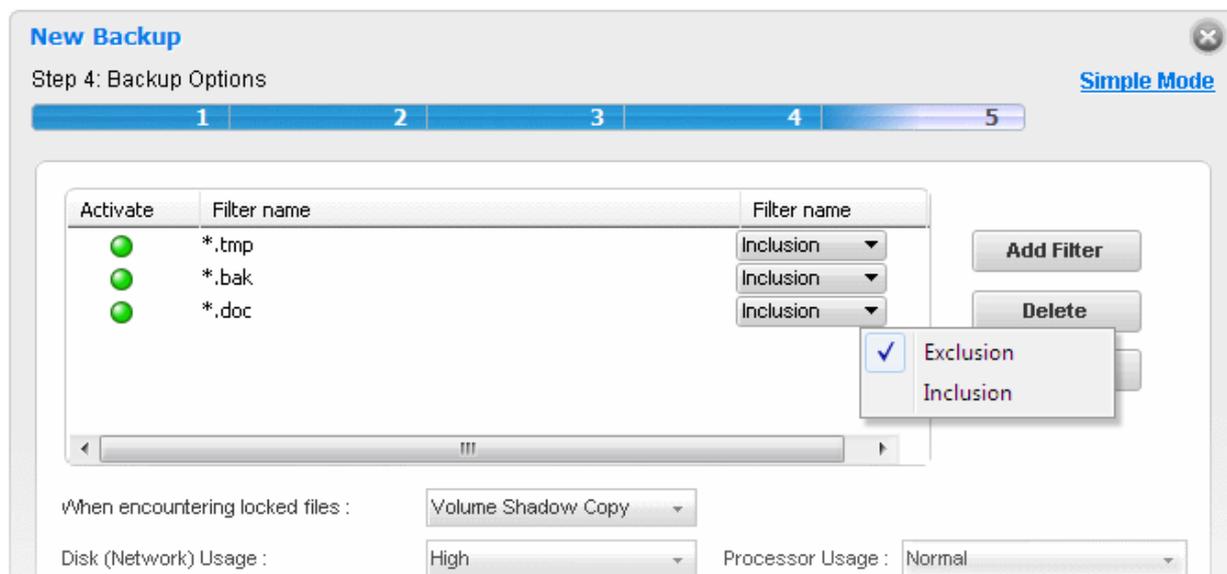
**Important Note:** The Filter Settings is active only if you have chosen **Files and Folders** as your backup source in **Step 1**.

### To set the filters

1. Click 'Add Filter' button. A new filter is created with a default name.



2. Rename the filter with wildcard characters suffixed with the file extension if you want certain file types to be excluded or to be only-included (e.g. \*.tmp, \*.txt) or rename the filter with the string having wildcard characters if you want to exclude files include only the files with the selected string in their filenames (e.g. nam\*.\*).
3. Select whether you want to set the filter as inclusion (only the files having the specified extension or the file name will be included in the backup from the source and the other files will be omitted) or exclusion (the files having specified extension or the file name, contained in the source, will be omitted during the backup process) from drop-down in the 'Filter type' column.

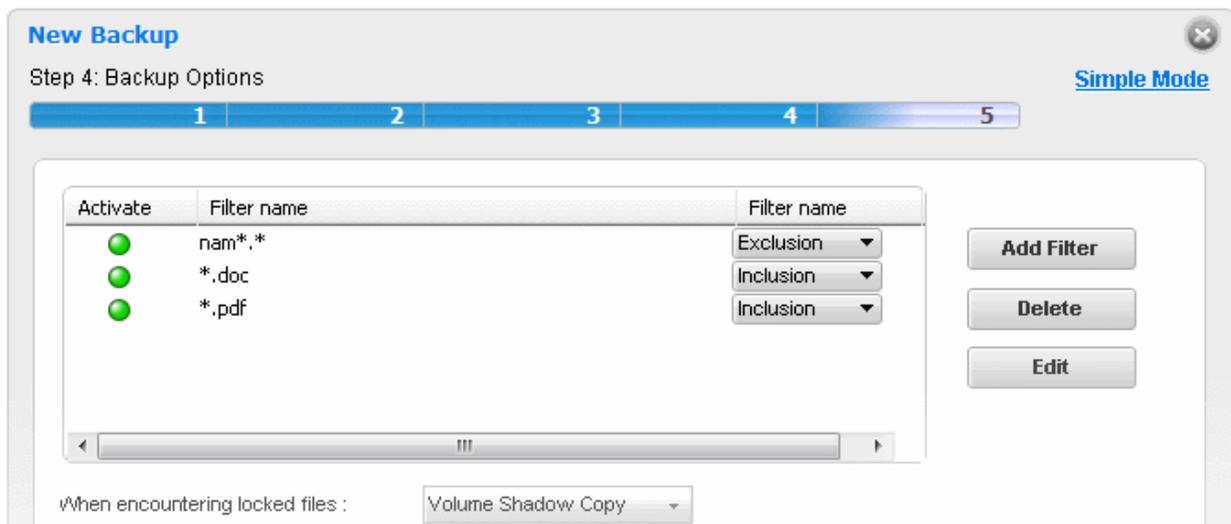


4. The filter will be added. Repeat the procedure for adding more number of filters.

5. Activate the filters by clicking on the green buttons in the 'Activate' column.

**Example 1** - If you have added an exclusion filter with the name '\*.tmp', all the files with the extension .tmp in the set of files or folders you chose in step 1, are omitted and only the other files in the set of files or folders are included in the backup. If you added an exclusion filter with the name ?a\*.\*, all the files / folders having 'a' as second letter in their file / folder names are omitted.

**Example 2** - If you have added an Inclusion filter with the name '\*.doc', only the files with the extension .doc in the set of files or folders you chose in step 1, are included in the backup and the other files are omitted. If you added an exclusion filter with the name ?a\*.\*, only the files / folders having 'a' as second letter in their file / folder names is included.



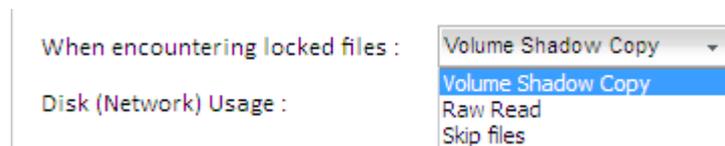
In the example shown above, Comodo Backup can include only the files with the extensions .doc and .pdf from the selected folders into the backup. The .doc or .pdf files having 'nam' at the start of their file names is not included in the backup.

To edit a filter, select the filter from list and click 'Edit'.

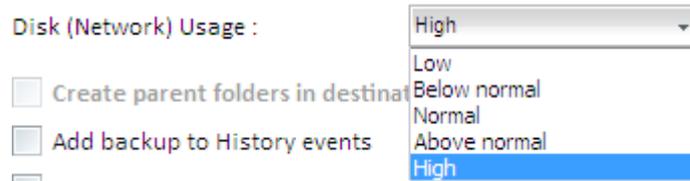
To remove a filter, select the filter from list and click 'Delete Filter'.

## 2.1.2.4.2. Advanced Options

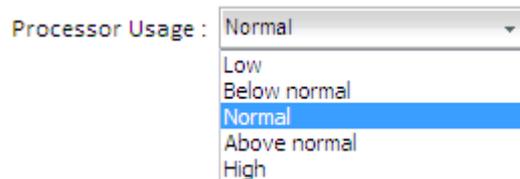
- **When encountering locked files** - The drop-down menu allows you to instruct how Comodo BackUp should react on the situation where one or more files to be backed-up are locked for reasons like they are in use by other programs or other users.



- **Volume Shadow Copy** - Uses Volume Snapshot Service (VSS) offered by the Windows Operating System. The service creates read-only copy or snapshot of the volume or the file system where the file in question is stored, at the specific point of time when the backup was initiated. The file is read from the read-only copy of the volume for inclusion in the backup.
- **Raw Read** - The locked files will be read directly from disk in the state they are, when they are processed for backup. This enables to have latest version of the file in the backup than the volume shadow copy.
- **Skip files** - Ignores the locked files.
- **Disk (Network) Usage** - You can choose the usage of the disk and network resources for the created backup job in this stage of the process. The available options are from 'Low' through 'High'. Higher the disk and network resources usage level, higher the speed of the backup process. Select the disk usage level you want to use from the drop-down menu.



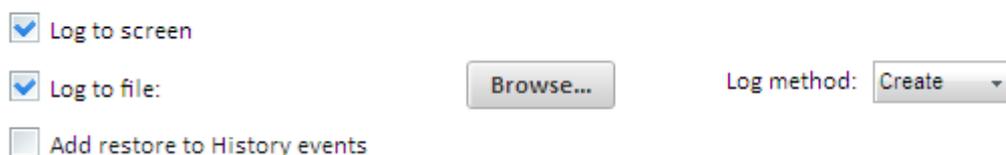
- **Processor Usage** - You can choose the usage of the processor resources for the created backup job in this stage of the process. The available options are from 'Low' through 'High'. Higher the processor usage level, higher the speed of the backup process. Select the processor usage level you want to use from the drop-down menu.



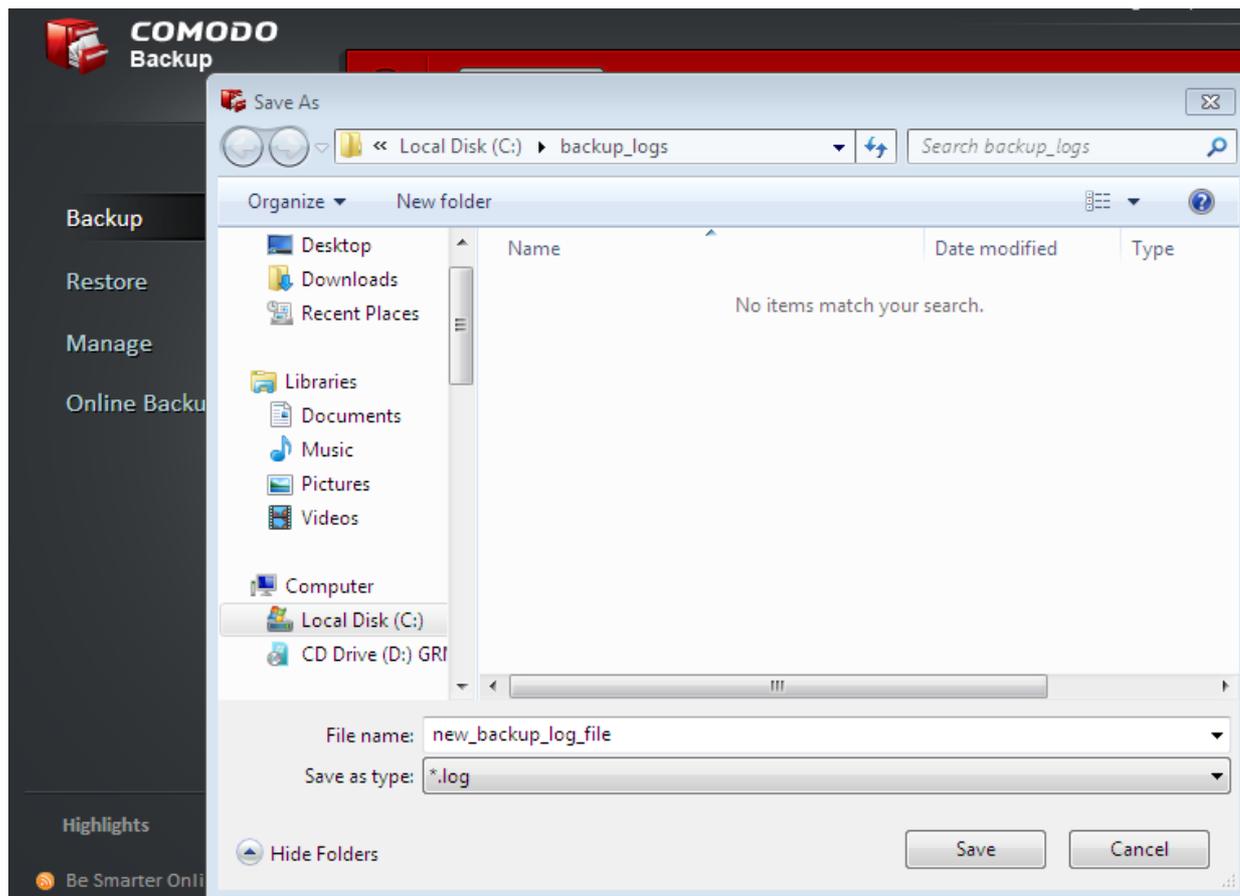
- **Backup all sectors including free space** - This option is visible only when 'Disk, Partitions and MBR' is selected as Backup Source in **Step 1**. Comodo BackUp backs up only the contents in the occupied space of the selected drive partition. If you want to backup the free space in the drive, select this checkbox. Including the free space in the backup enables you to recover files that were deleted from the drive upon using advanced, 3<sup>rd</sup> party, file recovery software.
- **Create parent folders in destination path** - This option is visible only when Simple Copy or Sync copy is chosen as Backup Format in **Step 1**. Selecting this option creates separate folder at the destination when you are creating simple copy of Sync copy backup for individual files and stores the files in the folders.
- **Add Backup to History Events** - Instructs the application to add this backup event to History so that the details of this backup operation is viewable through the '**Manage**' interface.
- **Log to screen** - The log of events (for example, details on each file or folder being backed up, error reports etc.) is created and displayed at the final stage of the backup operation in the right pane of the interface, only if this checkbox is left selected. By default, this option is selected. If you do not want to log the backup events, deselect this checkbox.
- **Log to file** - Enables you to save the log of events (for example, details on each file or folder being backed up / restored, error reports etc.) generated during the backup progress, as a text file for later reference or analysis.

## To save the log of events

- Select the 'Log to file' checkbox.

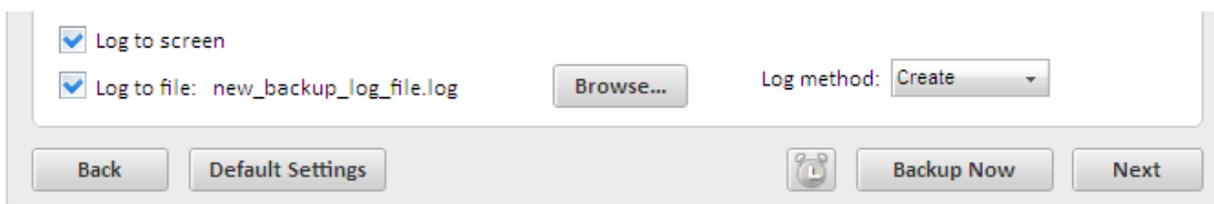


A 'Browse...' button will appear enabling you to navigate to the folder/file where you want to save the log.



- Click the Browse button and navigate to the folder.
- If you want to store the log as a new file, type the new file name in the File Name text box. If you want to add the log information to an existing log file, select the file. Click 'Save'.

The new file name will appear in the interface.



- Select 'Create' from the 'Log method' drop-down menu, if you are creating the log file for the first time or select 'Append' if you want to add the log information to the existing file.
- Click Next to move to the [Step - 5 Configuring Email Notification and Miscellaneous settings](#).
- If you want to skip the further steps and finalize the backup process, click 'Backup Now' button. Refer to the section [Finalization](#) for more details.
- If you want to skip the further steps and schedule the backup job click the Alarm Clock button. Refer to section [Scheduling the Backup Job](#) for detailed explanations of the options available.

### 2.1.2.5. Configuring Email Notification and Miscellaneous settings

The final stage is to configure for email notifications to be sent on successful completion or failure of the backup job and other miscellaneous settings like run tasks e.g. mounting / unmounting hard disks before / after the backup and even set your system to shutdown on completion of a backup.

**New Backup** Simple Mode

Step 5: External Tasks

1 2 3 4 5

E-mail Notification:  on success  on failure

Account:

SMTP:

Port:

Subject:

From:

To:

Username:

Password:

Run task before backup

Wait for task to complete

Run task after backup

Wait for task to complete

Shutdown after backup is complete

Use SSL Connection

Remember Me

### 2.1.2.5.1. Email Notifications

Comodo BackUp can send email notifications on execution of each backup job. You can configure CBU to send notifications to yourself or other people like your team members, to be informed of the backup. You can also configure whether the email notifications are to be sent only on successful creation of backup, only on failure or both.

#### To configure email notification

1. Select the check boxes beside 'on success' and / or 'on failure' depending on your requirement on when you and others are to be informed of the backup job.

E-mail Notification:  on success  on failure

Account:

SMTP:

Port:

Subject:

From:

To:

Username:

Password:

Use SSL Connection  Remember Me

2. If you are using your email account for the first time, Select 'New' from the 'Account:' drop-down.
3. Enter the name of the SMTP server, the address of the outgoing mail server that the notification emails are sent through, in the 'SMTP Server' text box.
4. Enter the port number of the server to be used. (default = 25 for non-SSL connection and 465 for SSL connection)
5. Type the subject for the backup email in the 'Subject' text box. This is to indicate that the email is autogenerated by Comodo BackUp application (e.g. CBU Notification).
6. Enter the address on behalf of whom the notification should be sent. (e.g. your email address) in the 'From' text box. Note: This address should be supported by SMTP server you defined.
7. Enter the email address of the person to whom the notification should be sent in the 'To' text box. If you want the notification file to be sent to yourself, enter your email address here.
8. Type the username of your email account in the 'Username' text box.
9. Type your email account password in the 'Password' text box.
10. If you want to use the secure SSL connection for the email, select the 'Use SSL Connection' checkbox.

**Note:** The 'Account:' drop-down can display all the email accounts you might be using for sending Backup files. New email accounts can be added to this drop-down, by selecting the 'Remember me' checkbox whenever you use an email account for the first time. When using a previously added email account in future, you just need to select the account from the Account: drop-down, and need not enter the other details.

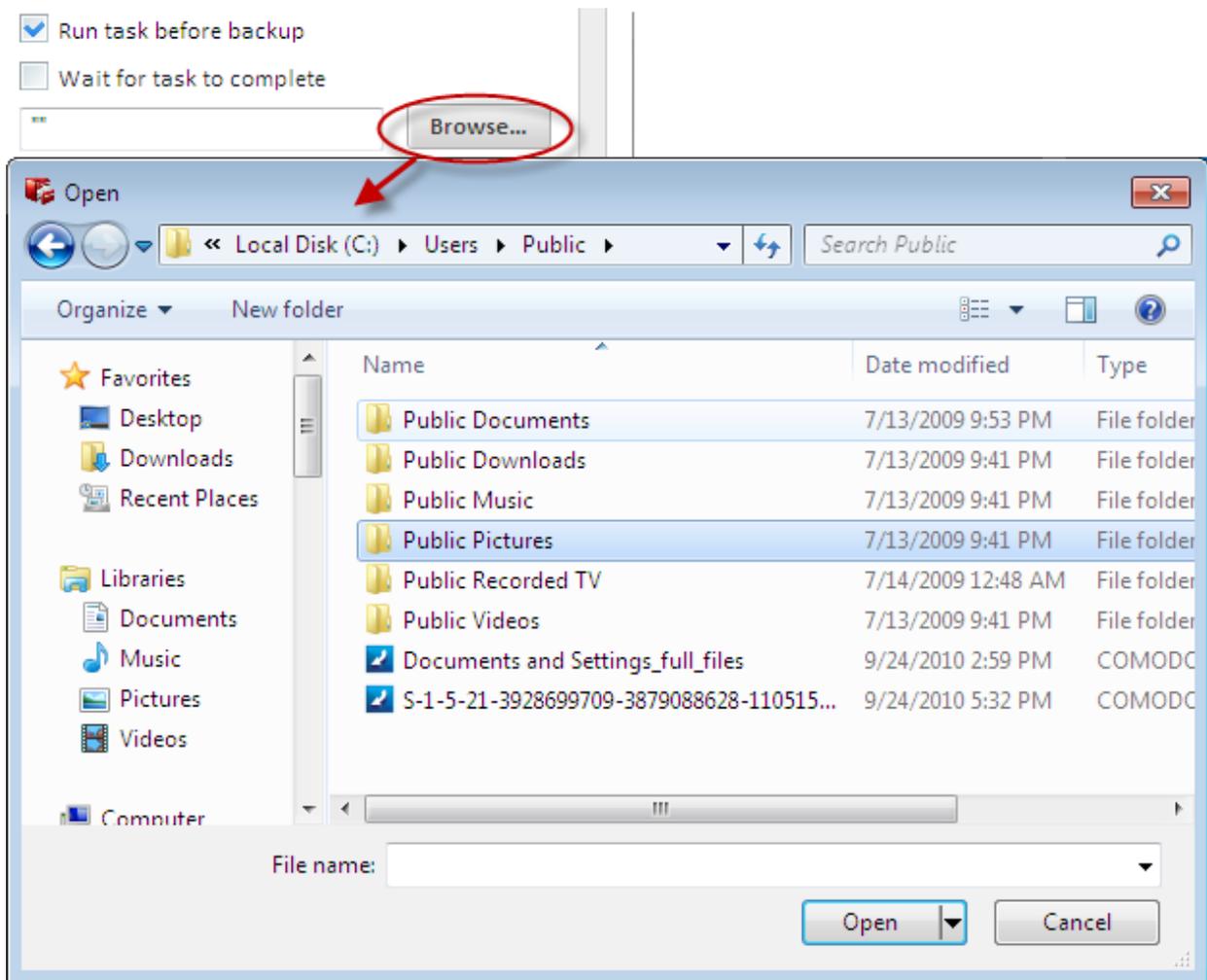
To check whether you have made the configurations correctly, click 'Send test message' button. A success or failure dialog is displayed. If a failure dialog is displayed, recheck your specifications and try again. On success message, check your email inbox to see the test message.

### 2.1.2.5.2. Miscellaneous Settings

**Run Tasks before and/or after Backup** - Comodo Backup allows you to run specific tasks before and / or after every manual or scheduled backup. For example, you may want to run your virus scanner before backing up to avoid potential infection of the destination folder. You can even mount an unmounted drive partition before backup to enable storing the backup file in the partition and unmount the partition on completion of the backup process by running a batch file with a list of corresponding Windows commands, play music files to indicate start and / or completion of the backup operation etc.

#### To run a task before a backup operation

1. Select the 'Run task before backup' checkbox and click 'Browse'.



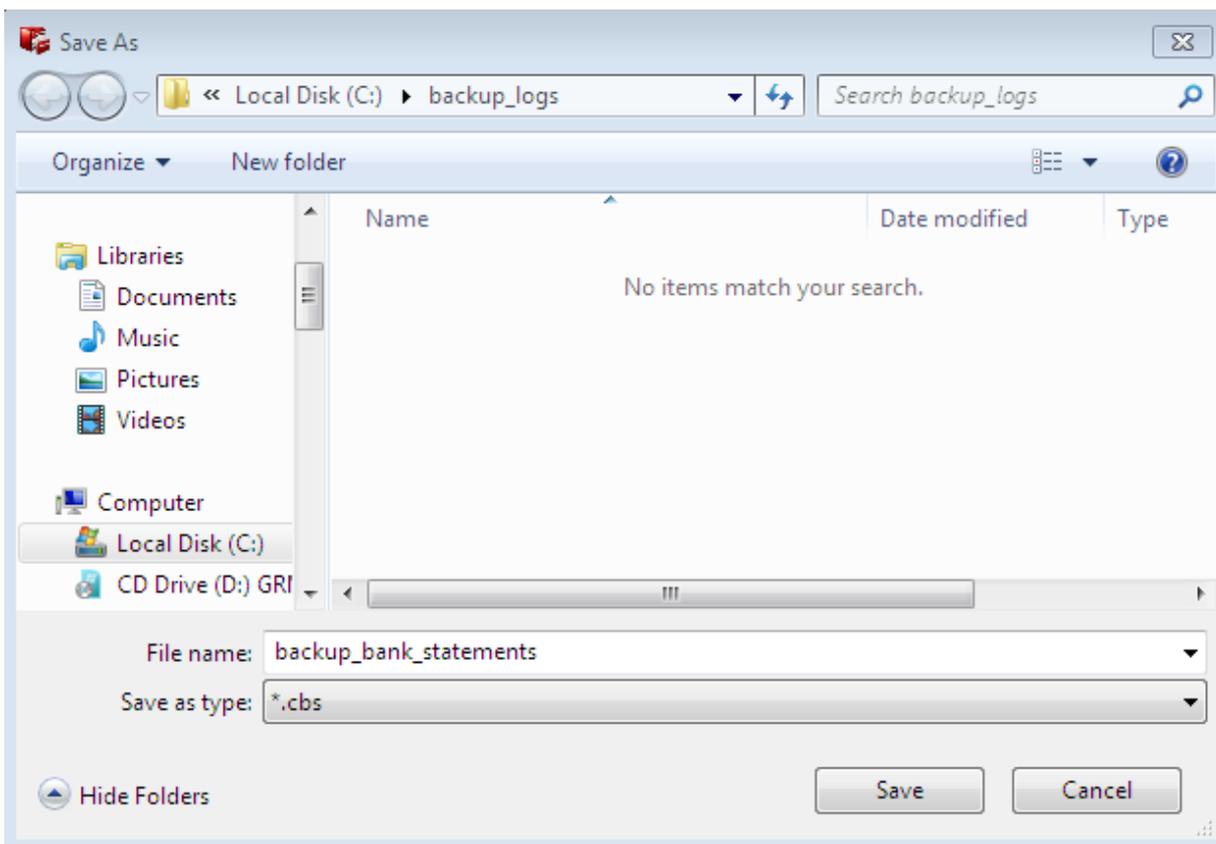
2. Navigate to the location of the file to be executed and click 'OK'.
3. Select the checkbox 'Wait for task to complete' if you want CBU to wait until the selected task is to be completed before executing the backup job. Leaving this box unchecked makes CBU to start the backup operation before completion of the selected task.
  - Repeat the same procedure for running a task after backup.

### 2.1.2.5.3. Export to script

Clicking the 'Export to script' button enables you to store the backup job as a script file in any desired location in your system and to run the saved job from that location when ever needed. This is useful for the backup jobs you want to execute often, without scheduling.

#### To store the created backup job as a script file

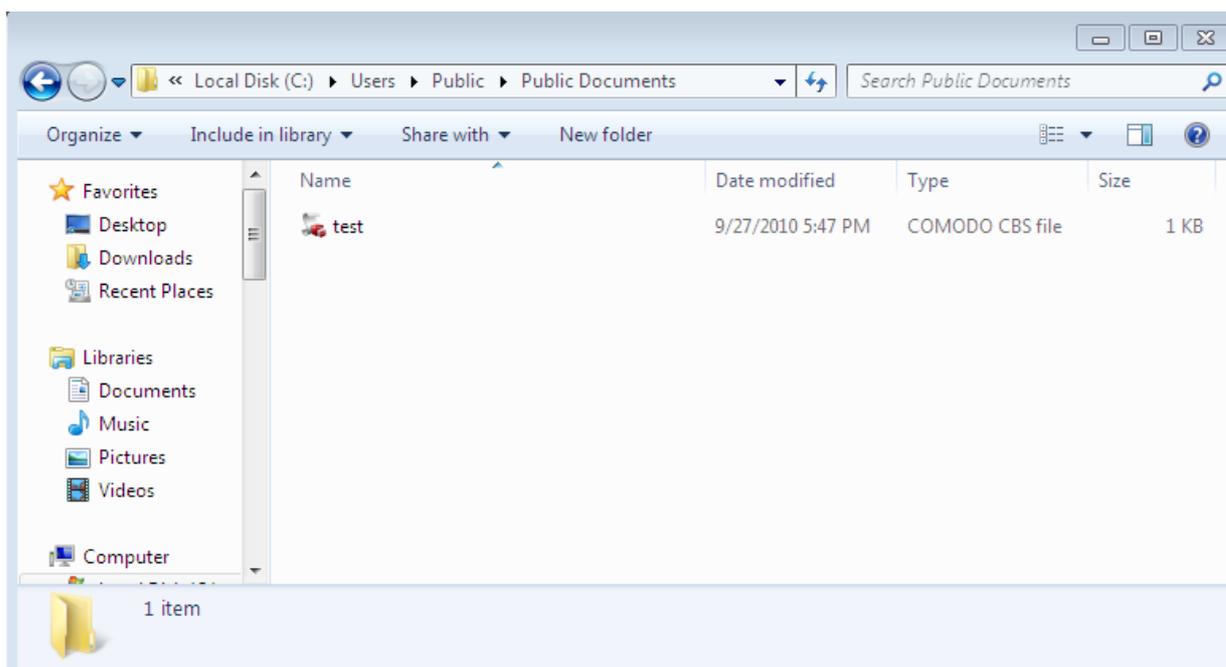
1. Click 'Export to script' button. A 'Save As' dialog opens.
2. Browse to the location where you want to store the script file of the created backup job.



3. Enter the 'File name' as you want and click 'Save'. The script is stored as a file with .cbs extension.

### To run the script from the saved location

1. Navigate to the location where the Backup Job script is saved with the .cbs extension, from Windows Explorer.



2. Double click the saved file or right click on the file and select the 'Open' option.

The selected backup job is executed as explained in the section Finalization > Instant Execution.

The final stage is the execution of the configured backup job. You can:

Schedule the backup to run at recurring time intervals or upon the occurrence of an certain event (optional);

and/or

Execute the backup job instantly.

## 2.1.2.6. Schedule the Backup (optional)

You can schedule the configured backup job to be executed at recurring intervals or upon occurrence of a certain event. The scheduling process in Advanced Mode is similar to that in Simple Mode. Please refer to [Simple Mode > Schedule the Backup \(optional\)](#) for detailed explanation of the process.

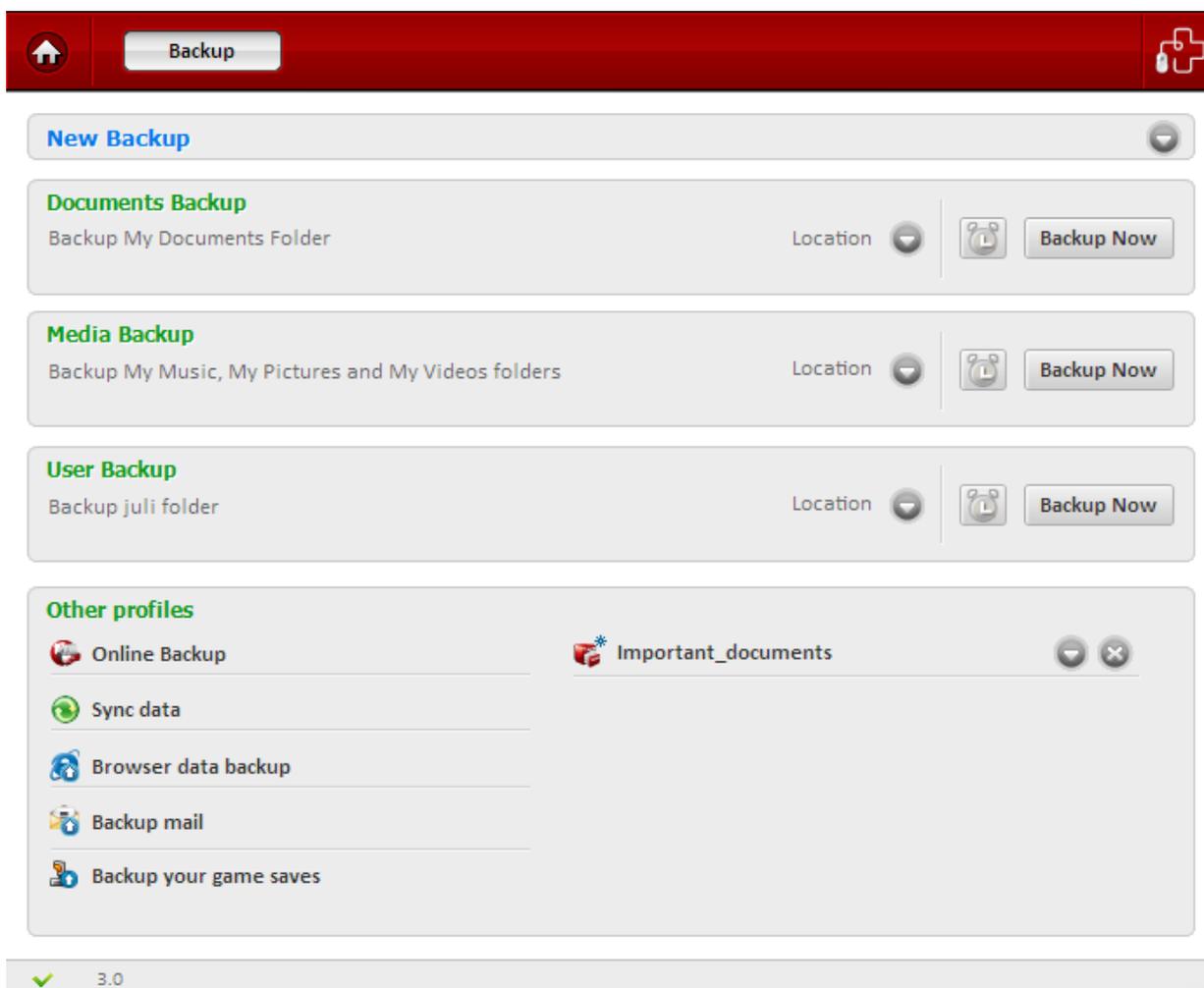
## 2.1.2.7. Run the Backup

To execute the configured backup job instantly, just click the 'Backup Now' button at the bottom right corner. The execution process in Advanced Mode is similar to that in Simple Mode. Please refer to [Simple Mode > Run the Backup](#) for detailed explanation of the process.

## 2.2. Using Pre-defined Backup Profiles

The Backup area of Comodo BackUp features a set of predefined backup profiles that allows you to backup your important files and valuable collections stored in standard folders like 'My Documents', 'My Music', 'My Pictures', 'My Videos' etc. with a single mouse click.

You can also add backup jobs that you want to run often, as custom profiles to this area. This enables you to run the same backup job with a few mouse clicks in future.



The available predefined backup job profiles are:

- Documents Backup;
- Media Backup;
- User Backup;
- Other Profiles.

## 2.2.1. Documents Backup

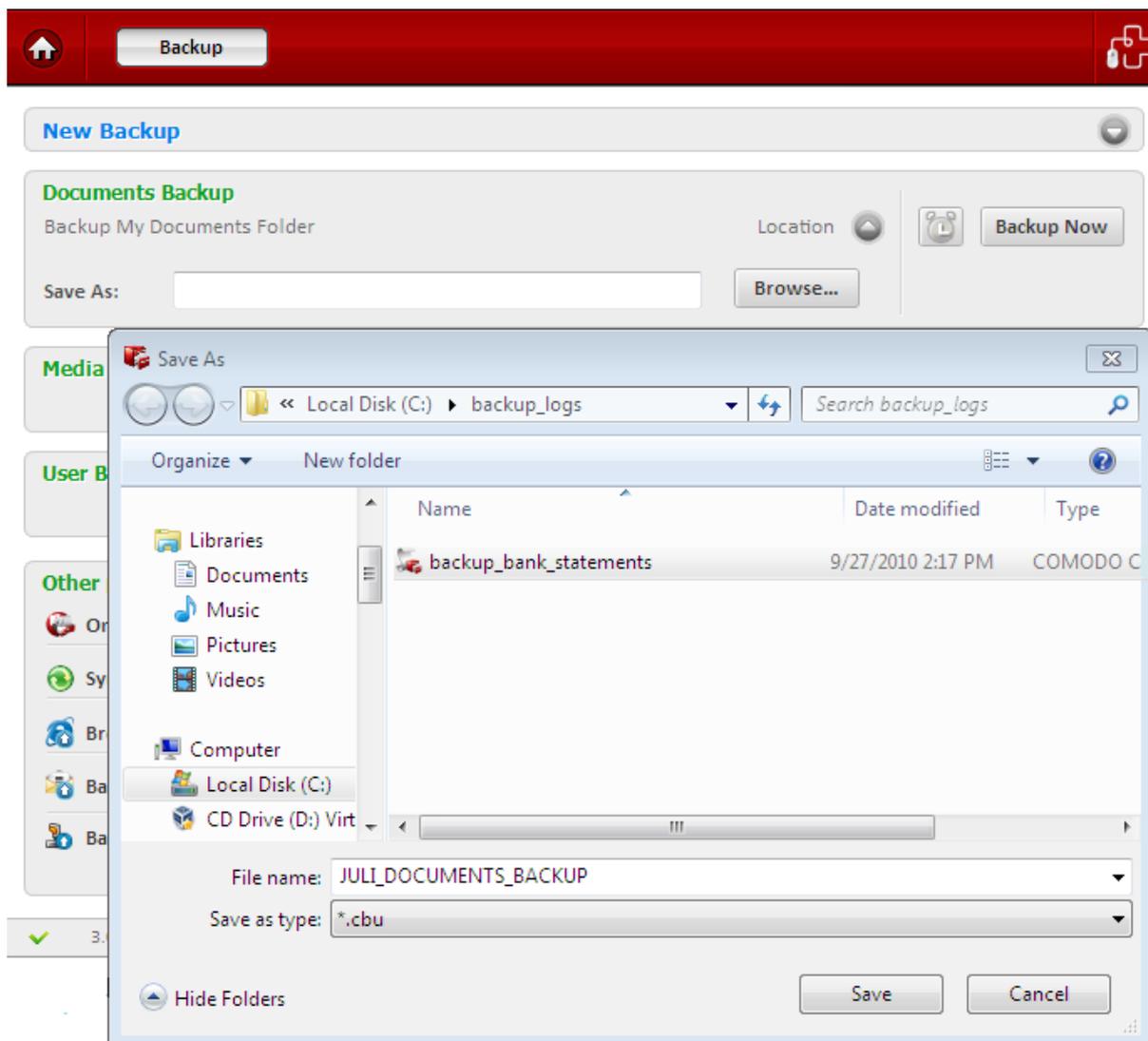
The Documents Backup area allows you to backup your 'My Documents' folder with a single mouse click.

- To backup your My Documents folder instantly, click the 'Backup Now' button.
- To schedule backup of My documents folder to run at a later time Schedule the Backup Job Schedule the Backup Job Schedule the Backup Job Schedule the Backup Jobime or at periodic intervals, click the alarm clock button and create a schedule. Refer to the section [Schedule the Backup Job](#) for more details.

The backup file will be stored in the default location (C:\Documents and settings\Username\Backups) and with the default file name 'My Documents\_full\_files.cbu'. If you have configured a custom default backup location in [Settings > Default Backup Location](#), the backup file will be stored in the configured location.

The Location settings in this area also allows you to choose a backup destination and to set the file name for the backup file of your choice.

- Click the down arrow ▼ beside 'Location'.
- Click 'Browse...' beside 'Save As:' text box and navigate to the folder where you want to store the backup file in the 'Save As' dialog.



- A suggested file name 'USER NAME DOCUMENTS BACKUP' will appear in the File Name text box of the 'Save

As' dialog. If you want, you can change the file name and click 'Save'.

- Click 'Backup Now' for instant backup or alarm clock button for scheduling the backup to run at a later time or at periodic intervals.

The backup file will be saved with .cbs extension.

## 2.2.2. Media Backup

The Media Backup area allows you to create a full backup of your valuable collections in 'My Music', 'My Pictures' and My Videos' folders with a single mouse click.

- To backup your media collection folders instantly, click the 'Backup Now' button.

To schedule backup of the media collection folders to run at a later time or at periodic intervals, click the alarm clock button and create a schedule. Refer to the section [Schedule the Backup Job](#) for more details.

The backup file will be stored in the default location (C:\Documents and settings\Username\Backups) and with the default file name 'My Pictures\_full\_files.cbu'. If you have configured a custom default backup location in [Settings > Default Backup Location](#), the backup file will be stored in the configured location.

The Location settings in this area also allows you to choose a backup destination and to set the file name for the backup file of your choice.

- Click the down arrow ▼ beside 'Location'.
- Click 'Browse...' beside 'Save As:' text box and navigate to the folder where you want to store the backup file in the 'Save As' dialog.
- A suggested file name 'USER NAME MEDIA BACKUP' will appear in the File Name text box of the 'Save As' dialog. If you want, you can change the file name and click 'Save'.
- Click 'Backup Now' for instant backup or alarm clock button for scheduling the backup to run at a later time or at periodic intervals.

The backup file will be saved with .cbs extension.

## 2.2.3. User Backup

The User Backup area creates a full backup of all the Windows Settings configured by the user and all user related files like files in 'My Documents', 'My Pictures' etc. E.g. On Windows XP or Vista, for a user named 'John Smith' it creates a backup of the folder 'C:\Documents and Settings\John Smith'. This means it does backup of the user's desktop, documents, pictures, user registry settings, etc.

- To create a full back of the User Settings and files instantly, click the 'Backup Now' button.
- To schedule backup of of the media collection folders to run at a later time or at periodic intervals, click the alarm clock button and create a schedule. Refer to the section [Schedule the Backup Job](#) for more details.

The backup file will be stored in the default location (C:\Documents and settings\Username\Backups) and with the default file name 'Username\_full\_files.cbu'. If you have configured a custom default backup location in [Settings > Default Backup Location](#), the backup file will be stored in the configured location.

The 'Location' settings in this area also allows you to choose a backup destination and to set the file name for the backup file of your choice .

- Click the down arrow ▼ beside 'Location'.
- Click 'Browse...' beside 'Save As:' text box and navigate to the folder where you want to store the backup file in the 'Save As' dialog.
- A suggested file name 'USER NAME DOCUMENTS BACKUP' will appear in the File Name text box of the 'Save As' dialog. If you want, you can change the file name and click 'Save'.
- Click 'Backup Now' for instant backup or alarm clock button for scheduling the backup to run at a later time or at periodic intervals.

The backup file will be saved with .cbs extension.

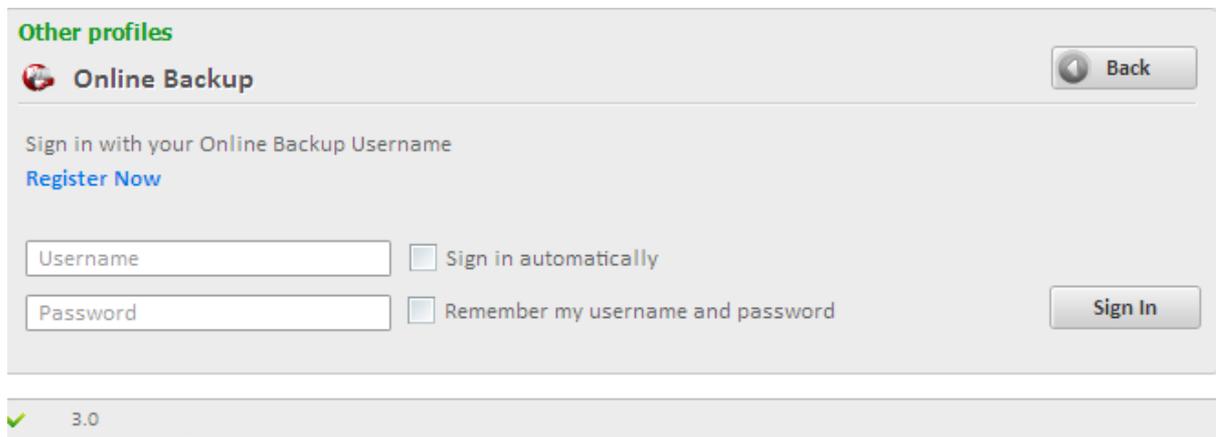
## 2.2.4. Other Profiles

The Other Profiles area displays shortcuts for accessing your Comodo Online Storage Account, synchronize data between source and backup files, predefined backup configuration profiles for Browser data, mails, game saves and custom

profiles.

### 2.2.4.1. Online Backup

Clicking the shortcut 'Online Backup' opens an interface for logging-in to your Comodo Online Storage account.



**Other profiles**

**Online Backup** Back

Sign in with your Online Backup Username  
[Register Now](#)

Username  Sign in automatically

Password  Remember my username and password Sign In

✓ 3.0

This interface is similar to the Online Backup interface appearing on clicking Online Backup tab from the Left Hand Side Navigation panel. Refer to the section [Configuring Your Comodo Online Storage Account](#) for more details.

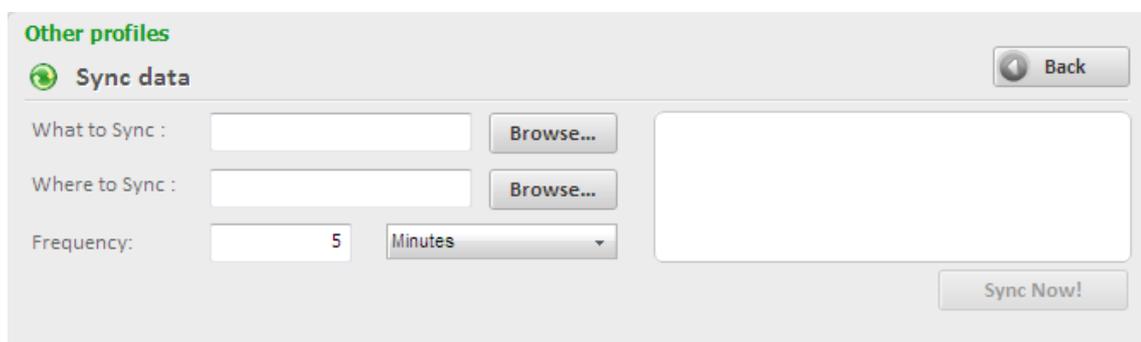
### 2.2.4.2. Sync data

The shortcut 'Sync data' enables to synchronize the data between the source item and its previously created backup file so that the recent changes made to the source are made to be reflected in the respective backup, without the need to repeat the entire backup operation. It also enables configuring for automatic synchronization of data at periodic intervals.

Smart Synchronization feature in the application helps save bandwidth and time by copying modified data in 64KB blocks. For example, if there is a change of just 1 byte in a 200 MB file, Comodo BackUp will copy only a 64 KB block to the destination instead of the entire 200 MB file.

#### To synchronize data between a source file and its backup stored in your system

1. Click the shortcut 'Sync data' from the 'Other profiles' area.



**Other profiles**

**Sync data** Back

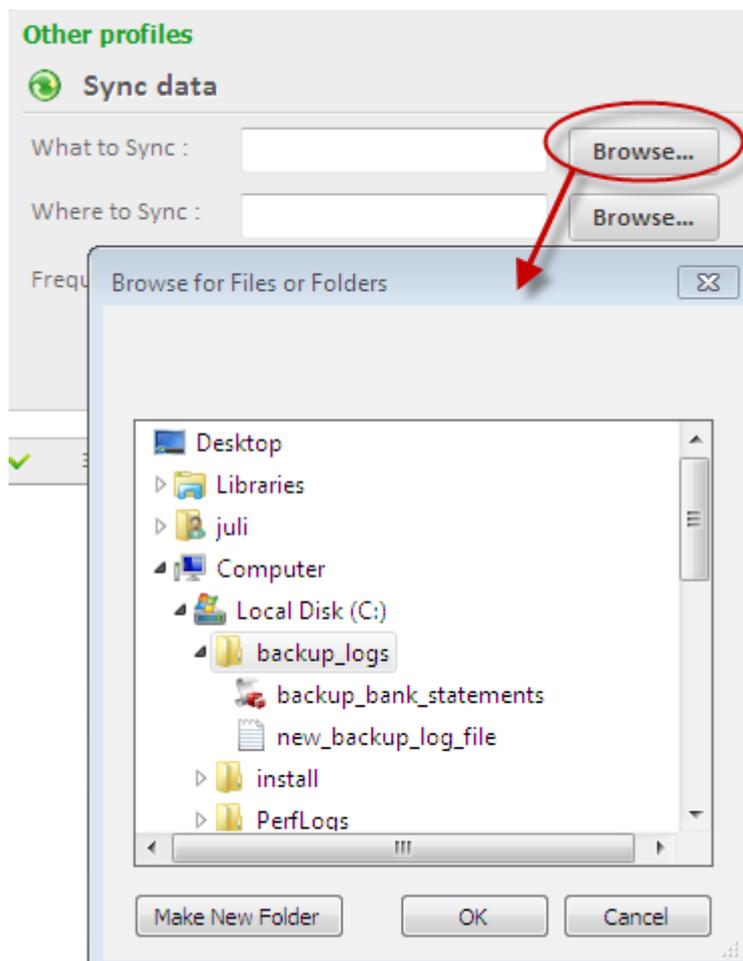
What to Sync :  Browse...

Where to Sync :  Browse...

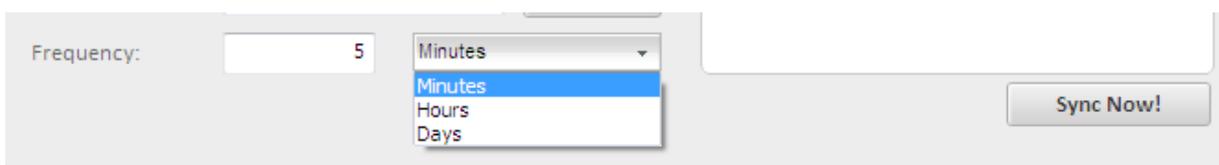
Frequency:  Minutes

Sync Now!

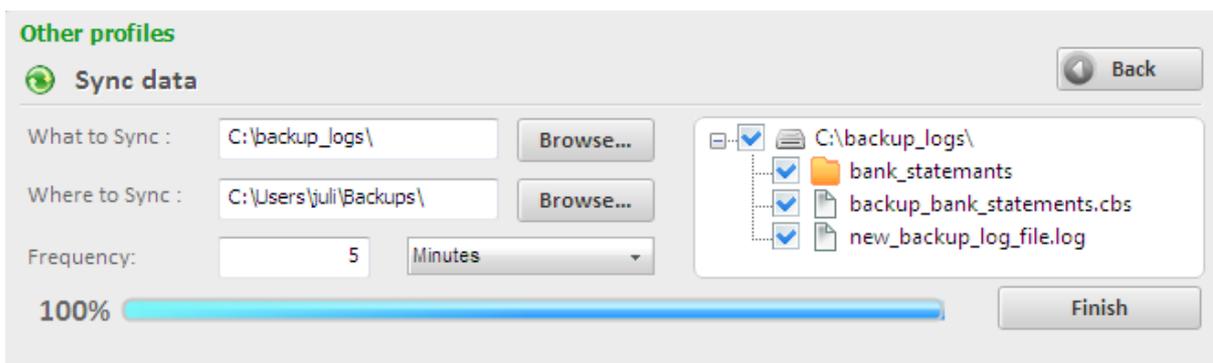
2. Click 'Browse...' beside 'What to sync' text box and navigate to the source item.



3. Click 'Browse...' beside 'Where to sync' text box and navigate to the backup file
4. Set the interval at which you wish the data to be synchronized between the source and the backup file. Enter the time period in the 'Frequency' text box



- Select the units from Minutes, Hours and Days from the drop-down beside the text box.
5. Click 'Sync Now'. The synchronization progress will be displayed.

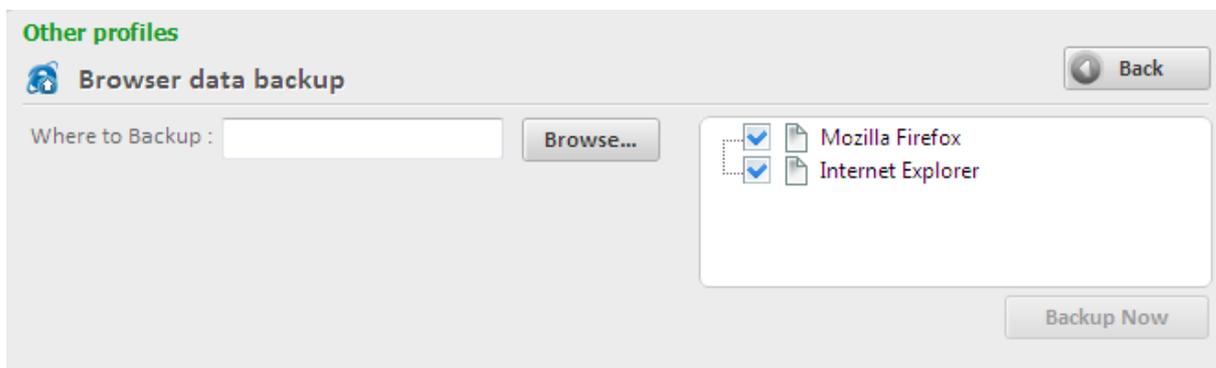


6. Click 'Finish' on completion. The backup file will be updated to contain the latest data of the source file.

From this moment, the backup file will be synchronized with the source file at periodic intervals as set in the Frequency field.

### 2.2.4.3. Browser data backup

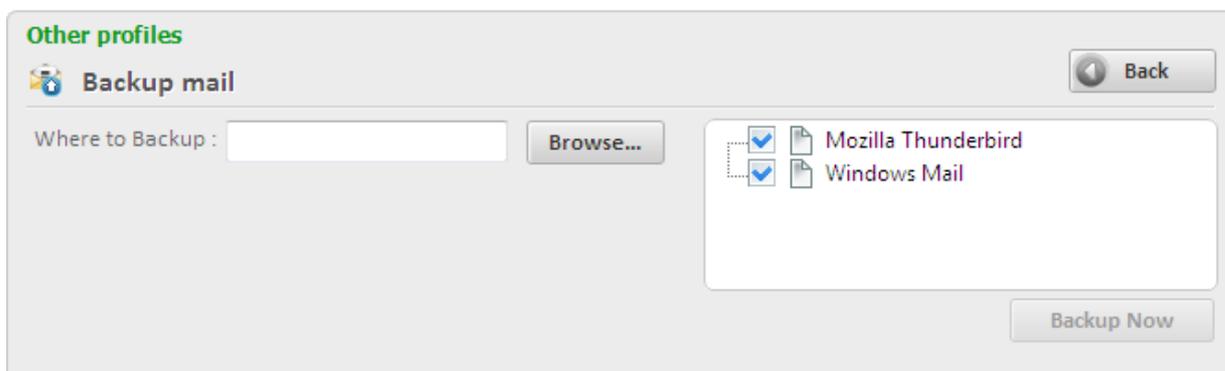
Clicking the shortcut Browser data backup enables to backup your Browser settings such as Home page, Favorites, Security Settings, stored passwords with a few mouse clicks.



- The web browsers installed in your system are listed in the right hand side pane. Select the browsers whose data are to be backed-up.
- Click 'Browse...' beside 'Where to sync' text box and navigate to the backup file.
- Click 'Backup Now'.

### 2.2.4.4. Backup mail

The shortcut Backup mail allows you to backup the emails in the inbox of your mail clients like Mozilla Thunderbird, Eudora, Microsoft Outlook 2003, Microsoft Outlook 2007, Windows Live Mail, Outlook Express etc. with a single click. This will also backup settings (such as incoming server, outgoing server, if the email is downloaded or remains on server, etc). This is helpful to restore your mails and settings when you reinstall your operating system or configuring your mail settings on a new computer system.



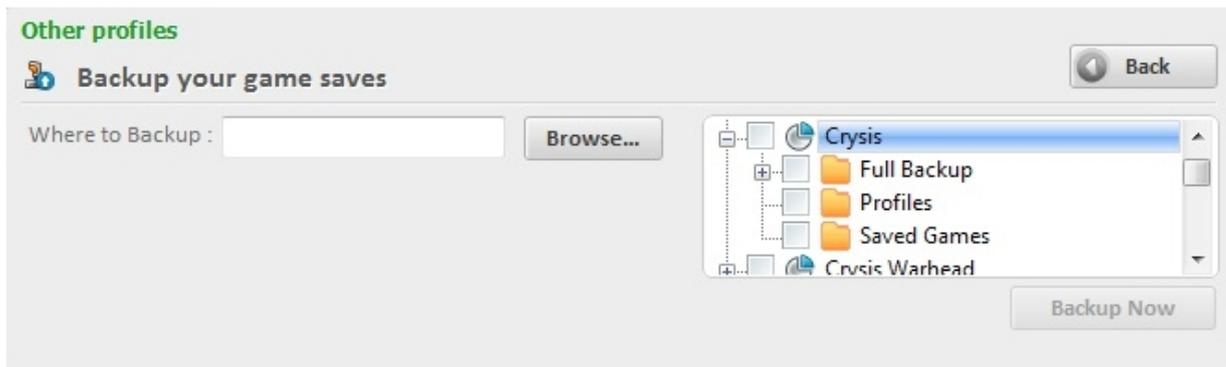
- The mail clients installed and configured in your system are listed in the right hand side pane. Select the mail client(s) whose data are to be backed-up.
- Click 'Browse...' beside 'Where to Backup' text box and navigate to the destination for the backup file
- Click 'Backup Now'.

### 2.2.4.5. Backup your game saves

Clicking the shortcut 'Backup your game saves' enables to backup your half-finished game states so that you can resume a game from the last game status even if the original game installed in your system is lost and you have reinstalled it in your system.

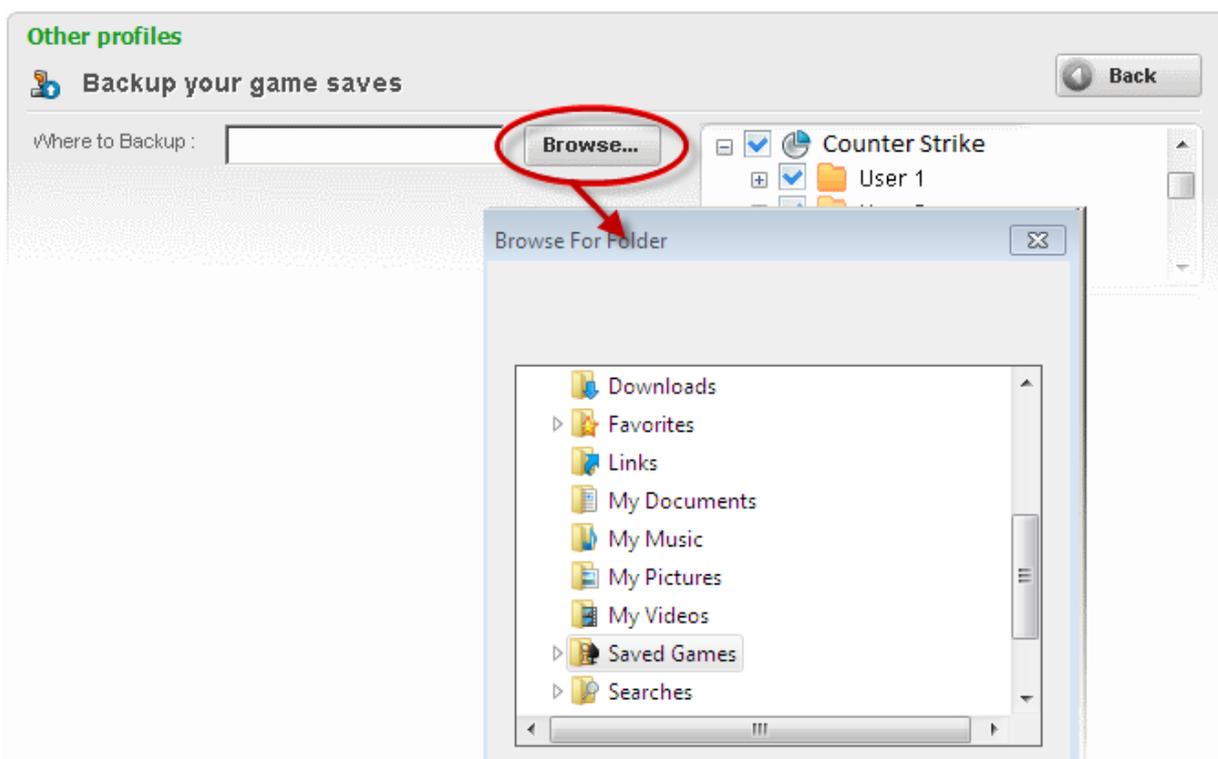
#### To backup your saves

Click the shortcut Backup your game saves from the 'Other profiles' area.



Select the game state file from the right hand side pane

Click 'Browse...' beside 'Where to Backup' text box...



... and navigate to the destination for the backup file

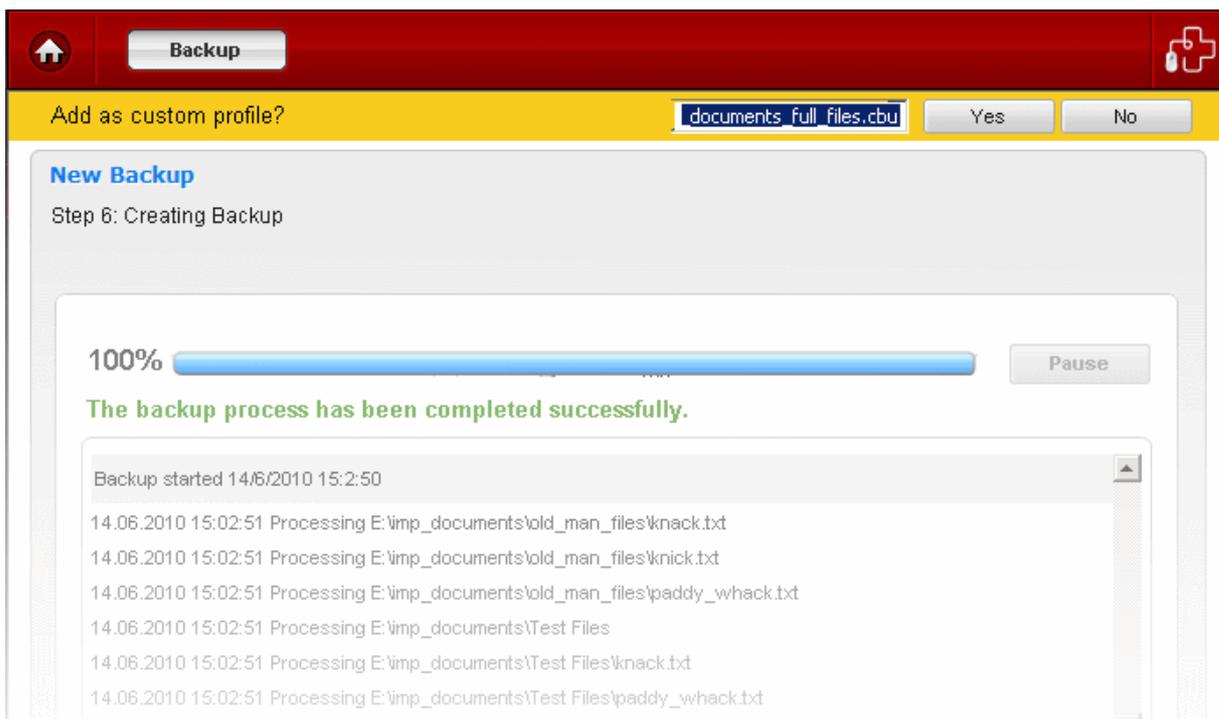
Click 'Backup Now'.

## 2.2.4.6. Custom Profiles

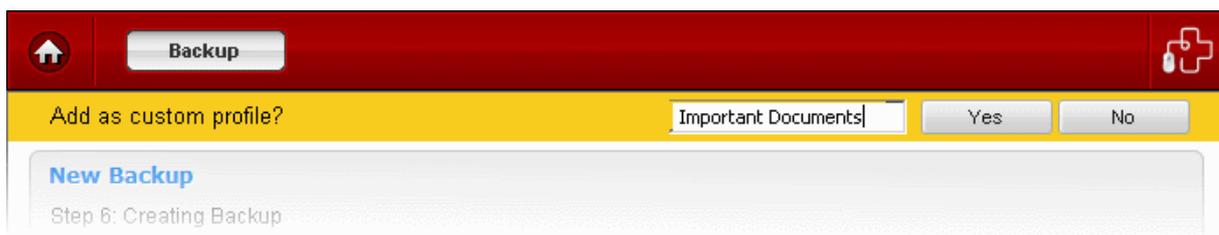
Comodo BackUp allows you to add the custom backup profiles for the backup jobs that you want to run often. The added profiles are listed in the Other Profiles area. The added profile acts as a shortcut to initiate the same backup process.

### Adding a new profile

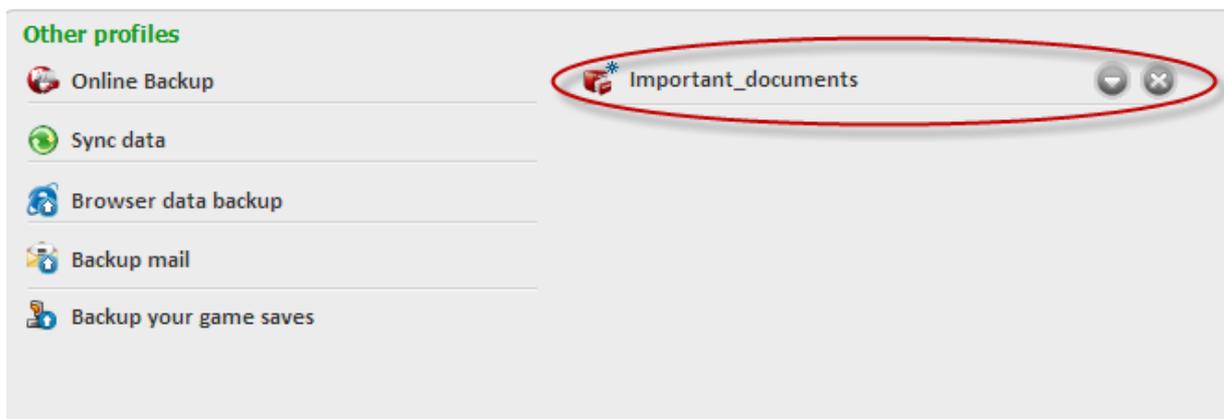
On successful completion of a manual backup, a prompt dialog will be displayed, asking whether you wish to add the completed job as a custom profile.



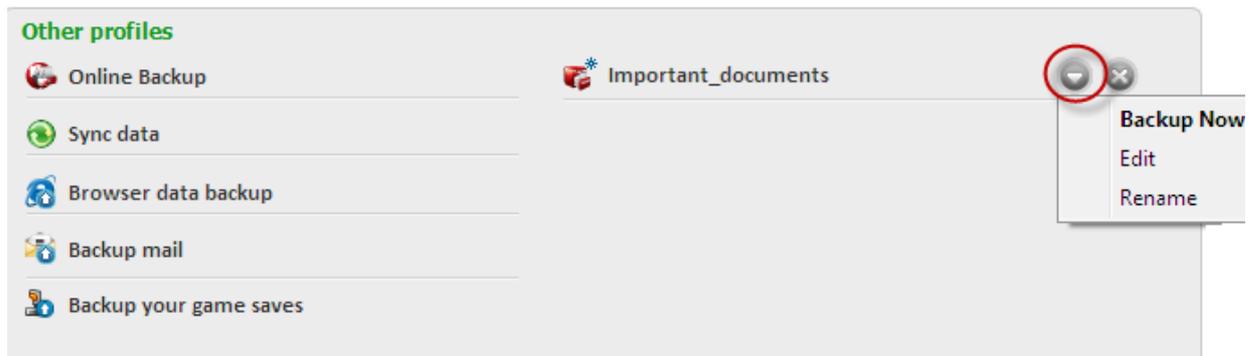
- Enter a name to easily identify the backup job and click 'Yes' to add the backup job as a custom profile...



...so that a shortcut for the backup job will be created in the 'Other profiles' area.



- Clicking on the shortcut starts the process of creating a backup for the same source at the same destination.



Clicking the down button you have three options:

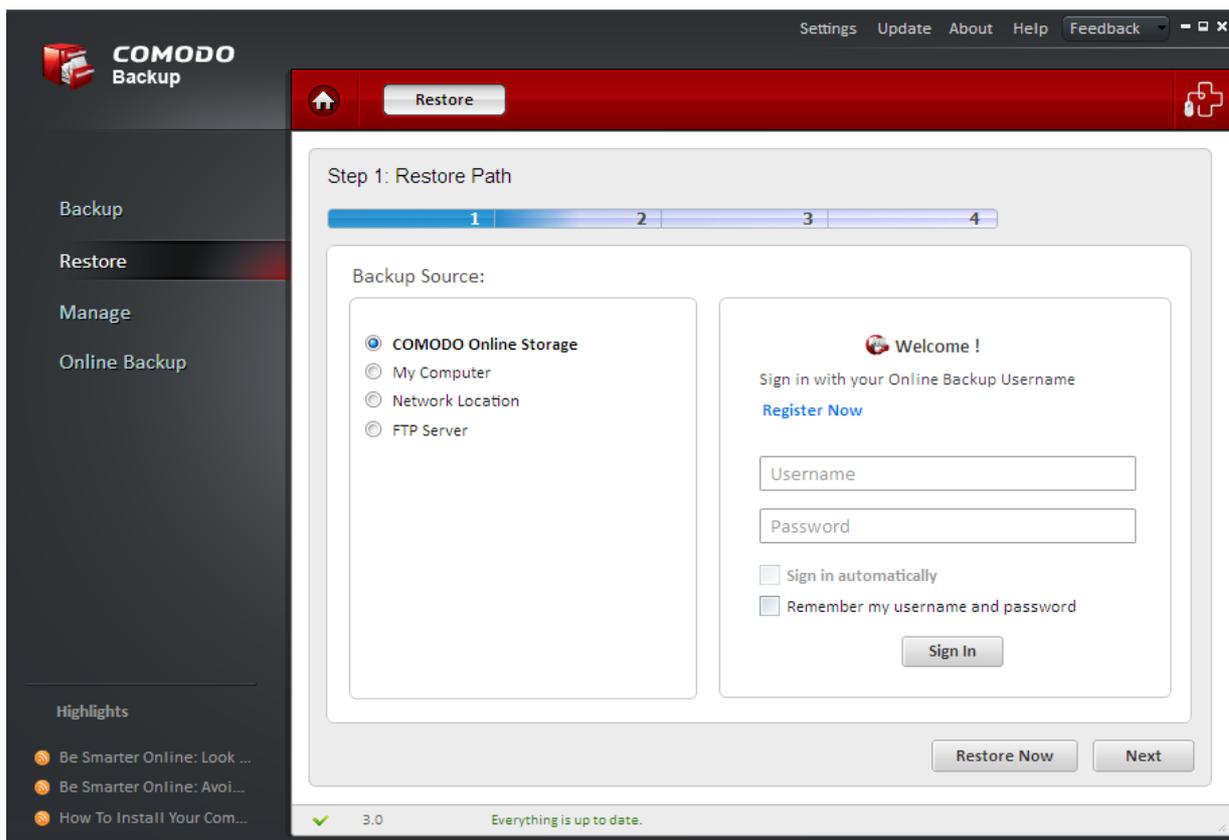
- Backup Now - Allows you to backup the custom backup profile instantly
- Edit - Allows you to edit the custom backup profile
- Rename - Allows you to rename the custom backup profile.

## 3. Restoring Your Files and Settings

Once you have successfully created a backup (.cbu) file you can restore these files at any time and to any location. The restore wizard quickly guides you through this process and allows you to choose the specific file from which you want to restore; the mode of restoration; the precise files within from the .cbu that you wish to copy over and finally the folder or drive that you wish to restore to.

**Note:** Comodo BackUp can perform a restore operation only from a valid Comodo backup file with the extension .cbu. You cannot run a restore operation without creating any backups.

**Tip:** If you have created a self extracting backup by selecting the backup format as 'Self extracting CBU' in **step 1**, you can restore it just by double clicking on the file from Windows Explorer window. For more details, please refer to the section **Restoring Self Extracting Backups**.



To access the Restore interface, click on the 'Restore' tab from the Left Hand Side Navigation pane.

Restoring the files from the BackUp consists of four simple steps:

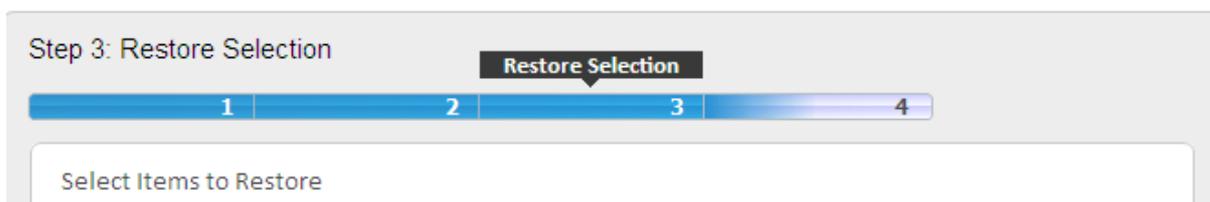
**Step 1: Select the restore path**

**Step 2: View Restoration Information and Mounting Backup as Virtual Drive**

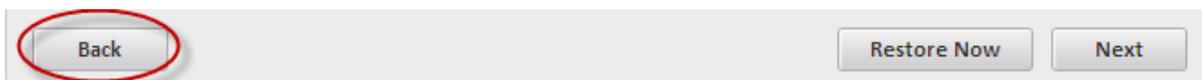
**Step 3: Select the files to restore and restore location**

**Step 4: Selecting Restore Method.**

The progress bar on the top indicates the restoration configuration progress with step numbers. Placing the mouse cursor on a step displays a tool tip with a brief description of the step.



To return to a previous step to review/redo the configuration made, just click the respective step number. You can also return to the previous step by clicking the 'Back' button.



On completion of the above steps, you need to **finalize** the restoration operation by executing it instantly.

## 3.1. Selecting the Restore Path

The first stage of the process is to specify the path where the backup file is located. You can choose to restore from your local machine, from another computer in your network, or from a FTP server, where you have saved your backup of the

files you require to restore.

Click on the links below to get more information on each destination type.

- **Comodo Online Storage** - Restores your backup file located on the Comodo online storage.
- **My Computer** - Restores your backup file located on your local hard drive.
- **Network** - Restores your backup file located on another computer in the network.
- **FTP Server** - Restores your backup file located on a FTP server.

After selecting the restore path from the left hand side panel, you need to make a further selection from the right hand side panel.

## Comodo Online Storage

### To restore a backup of your content stored on Comodo Online Storage

1. Select 'Comodo Online Storage' radio button.

The right hand side pane displays the login page for your Comodo Online Account.

2. Enter your Username and Password and click 'Sign In'.

Your online storage space will be visible/accessible as regular Windows tree structure.

3. Navigate to and select the .cbu file that you wish to restore.

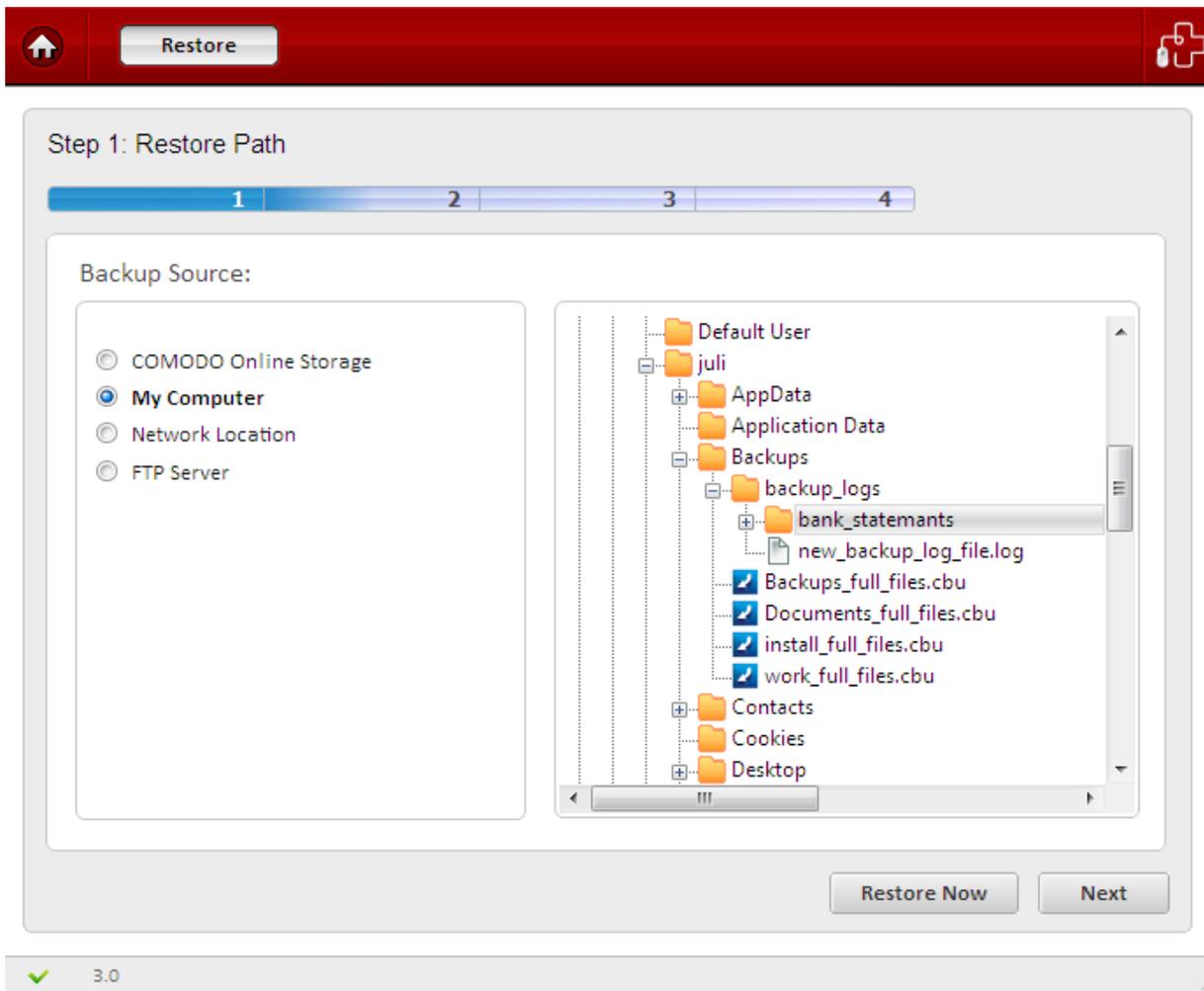
## My Computer

### To restore a backup stored in your local hard disk drive, a mapped network drive, a USB memory

plugged to your computer, a mounted virtual drive or a CD/DVD inserted into the respective drive

1. Select 'My Computer' radio button.

The disk drives and folders in your computer are displayed as a tree structure in the Right Hand Side panel.

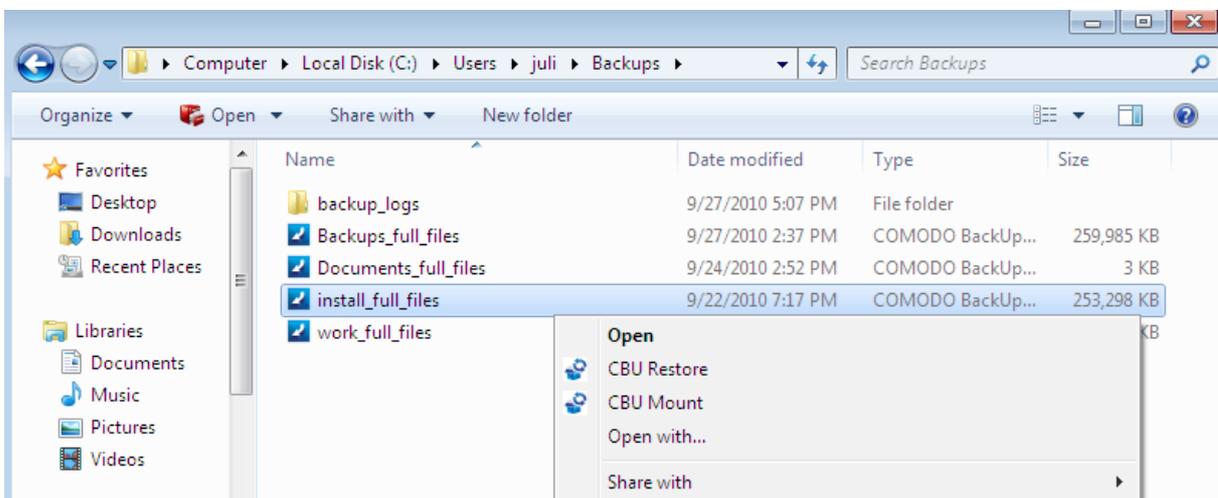


2. Navigate to and select the .cbu file that you wish to restore and click 'Next'.

Alternatively

- Navigate to the backup file through Windows Explorer, right click on the .cbu file and select 'CBU Restore'.

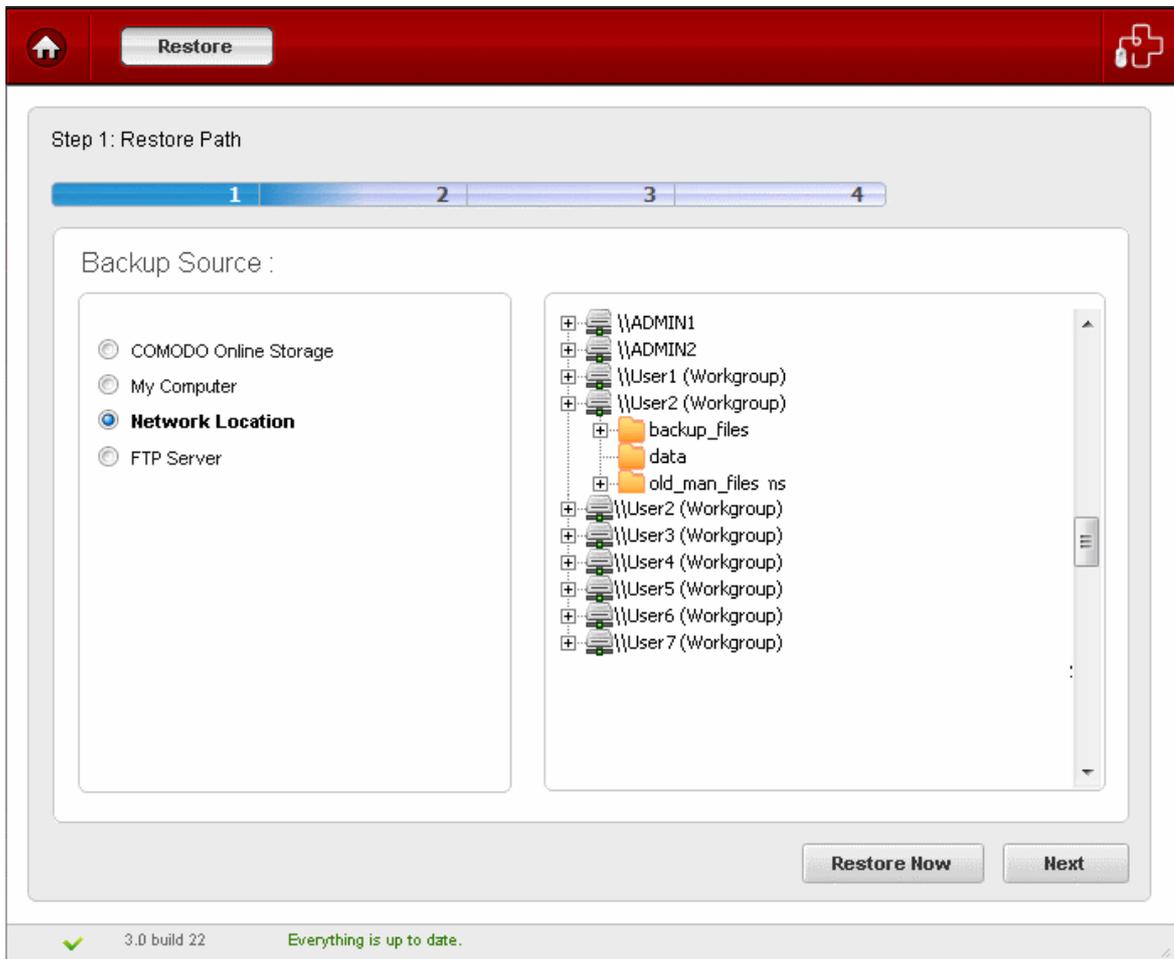
This takes you to Step 2 - **Viewing Backup Information and Selecting Backup Method**.



## Network Location

### To restore a backup stored in another computer on your network

1. Select 'Network Location' radio button.



All the computers connected in your network are displayed in the Right Hand Side pane. (It may take a few seconds to list all the computers. Please wait).

2. Select the computer in which you have saved the backup. You will be prompted to enter the user name and password if the computer you selected is protected by user access control.
3. Enter the login User name and password for the computer you selected in the respective fields and click 'OK'.

You can navigate through the folder tree structure of the selected computer.

- Navigate to the backup file you wish to restore.

## FTP Server

### To restore a backup stored in an FTP server

1. Select 'FTP Server' radio button.

The Right Hand Side pane displays the login page for your FTP server

Step 1: Restore Path

1 2 3 4

Backup Source:

- COMODO Online Storage
- My Computer
- Network Location
- FTP Server

Welcome !

Sign in with your FTP Username

Account:

Server:

Port:

Username:

Password:

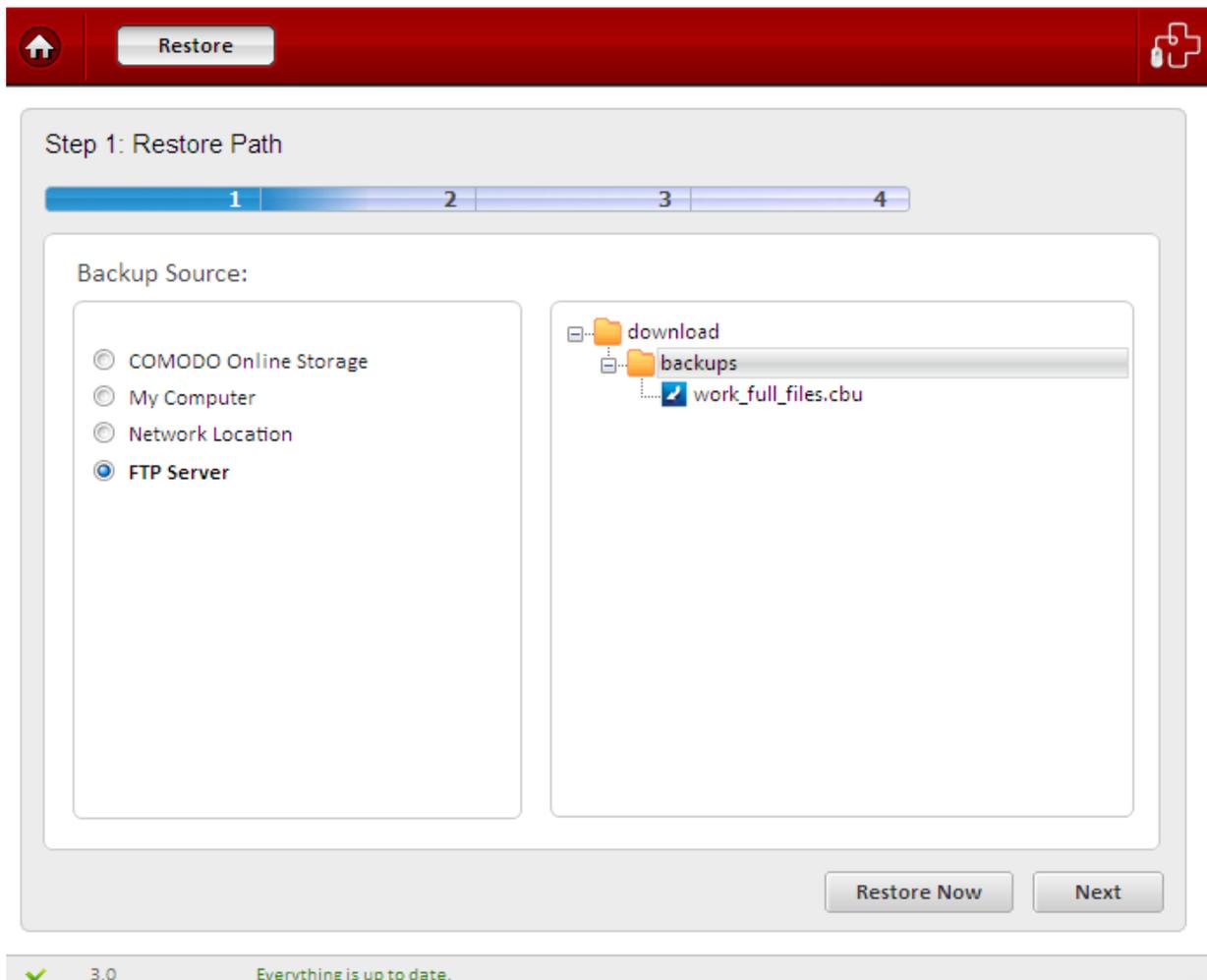
Remember my username and password

✓ 3.0

2. The right pane displays the login page for your FTP server.
3. Type the name of your FTP server in the 'Server' text box (The prefix ftp:// is optional).
4. Enter the port number of the server for connection (default = 21).
5. Type your user name for the FTP server in the 'Username' text box.
6. Type your password for accessing the FTP server.
7. Click 'Sign In'.

**Note:** The 'Account:' drop-down can display all the FTP accounts you might be using as Backup destinations. New FTP accounts can be added to this drop-down, by selecting the 'Remember my username and password' checkbox whenever you use an FTP account for the first time. When using a previously added FTP account in future, you just need to select the account from the Account: drop-down, and need not enter the Server name, username and password.

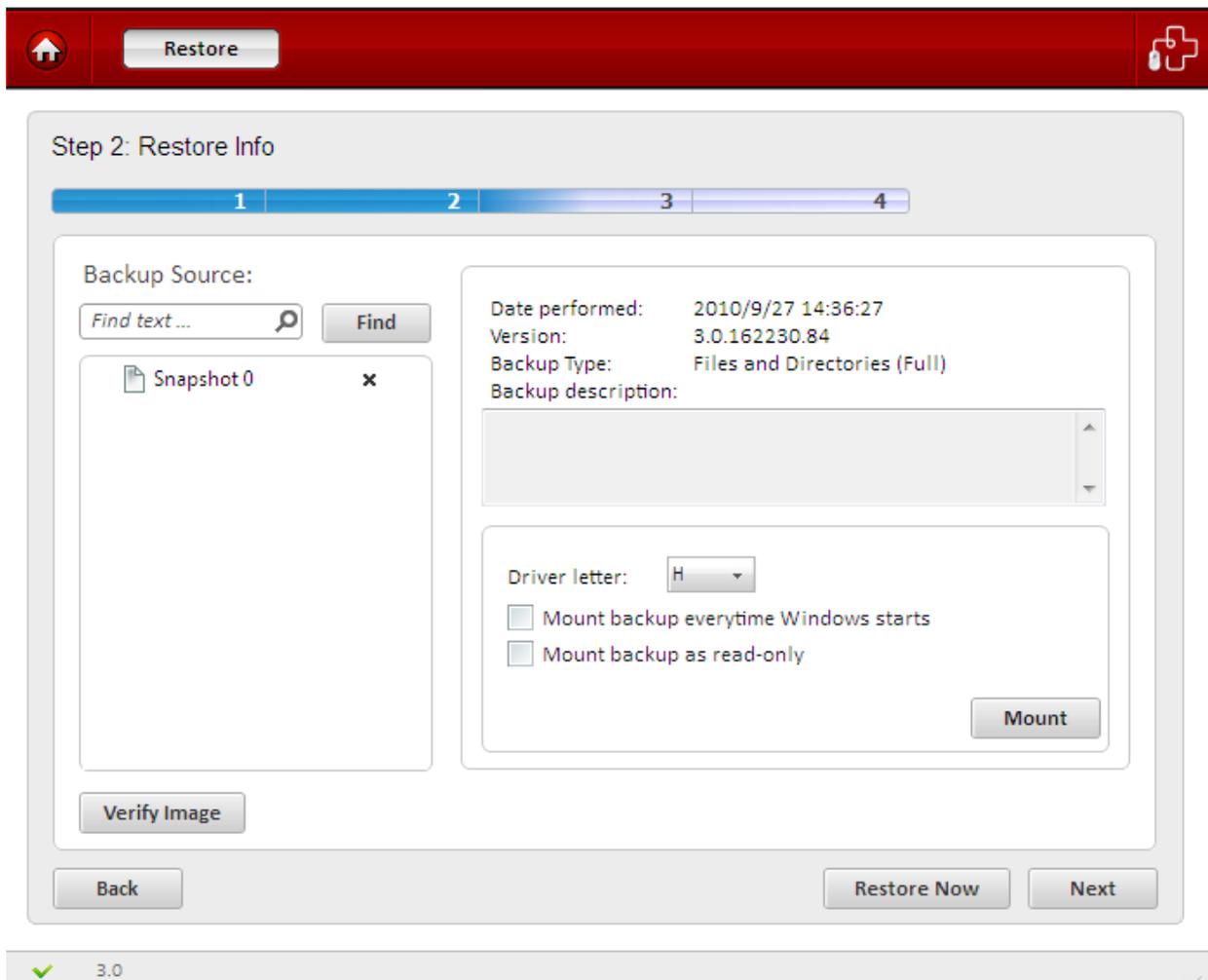
On successful login, the folder tree structure of the server will be displayed.



8. Navigate to the file you wish to backup.
9. Click 'Next' to move to **Step 2 - Viewing Restoration Information and Mounting Backup as Virtual Drive.**
  - To skip the further steps and to restore the items to their original location instantly, click 'Restore Now'. The files will be appended to the original location - meaning only those files having the same file names in the original location, as those in the backup are replaced from the backup. Files having different file names from those in the backup, are kept intact.

## 3.2. Viewing Restoration Information and Mounting Backup as Virtual Drive

The second stage of the process is to view the details of the backup and verify whether you have chosen the correct backup and check whether the backup file is valid and consistent. This stage also allows you to mount the selected backup as a virtual drive in your system.



The upper right hand side pane gives you a snapshot of details on the backup you are about to restore. This is useful to check whether you have chosen the right backup file for restoration.

- Date Performed - The date and time at which the backup file was created.
- Version - The version of Comodo Backup application used for creating the backup file.
- Backup Type - The type or source of data you chose in **step 1** during **creation of the backup job**.
- Backup Description - The description about the backup you entered in **step 2**, during **creation of the backup job**.

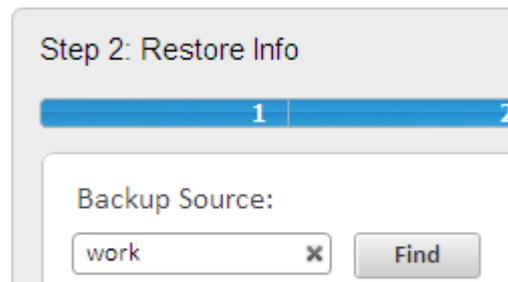
The left hand pane allows you to confirm the file and to verify its consistency and the lower right hand side pane allows you to mount the backup as a virtual drive.

### Find Text

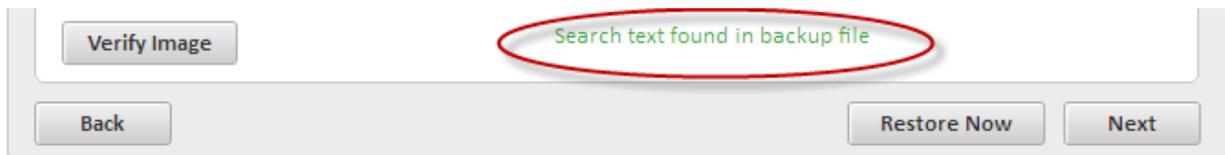
To check whether the backup file has the specific file / folder that you wish to restore and to confirm that you are restoring the correct backup you wanted, you can search the backup file for a keyword / phrase specific to the contained file / folder you wanted to restore. For example, if you want to restore a backup containing your bank statements, you can search the backup file for keywords like bank name, month, available balance etc. You can even enter the file name of a content file of a backup as your search keyword.

### To search the backup file for a specific keyword

Enter the keyword in the text box and click the 'Find' button.



The contents of the backup file is searched for the input keyword. If the input keyword is found in the backup file, the message 'Search text found in the backup file' will be displayed. If the input keyword does not exist in any of the content files in the backup, then the message 'No match was found' will be displayed.

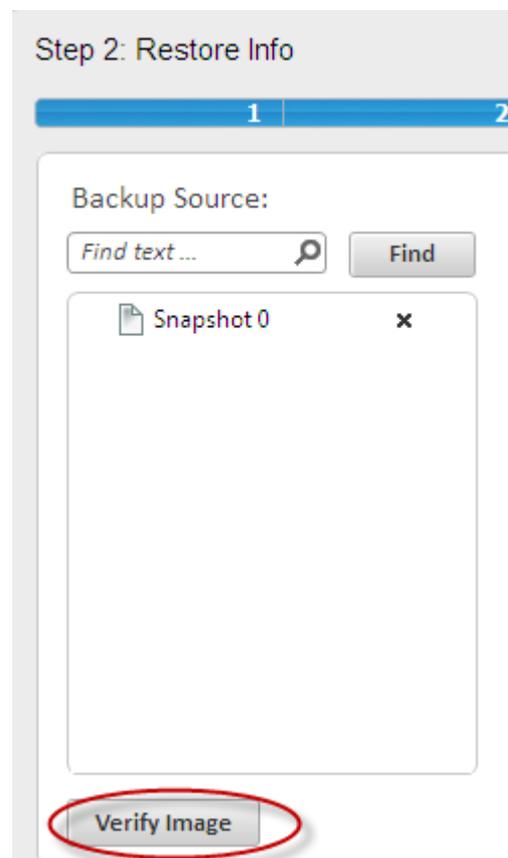


### Verify Image

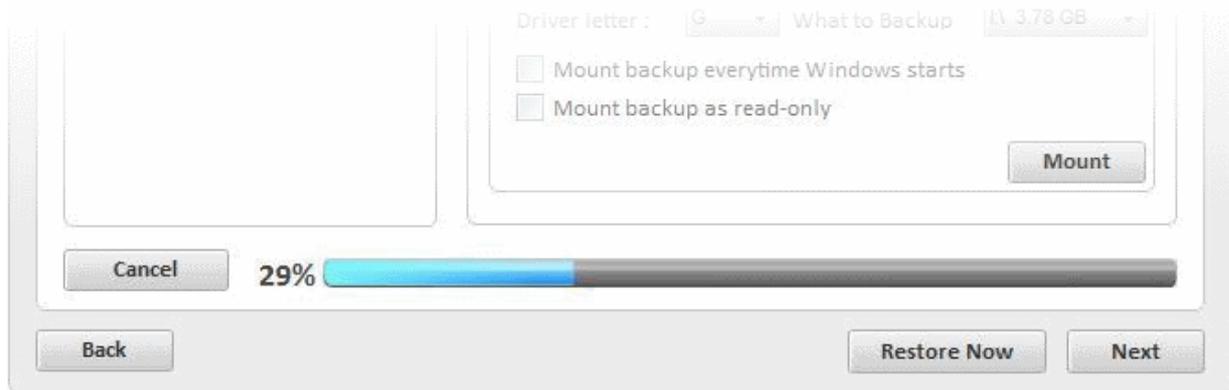
The integrity of the back up file that you choose to restore can be checked by clicking the 'Verify' button.

#### To verify the integrity of the backup file

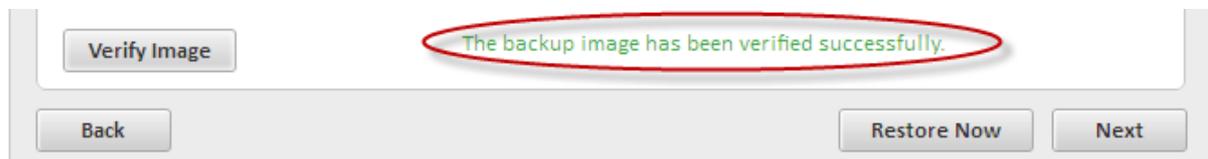
1. Select the snapshot of the backup from the list of snapshots.
2. Click the 'Verify Image' button.



All the split segments in the backup file are checked and the progress is indicated on the progress bar.



On completion of verification and if the backup file is found to be intact, the message 'The backup image has been verified successfully' is displayed. If the backup file is found corrupted, then the message 'The backup image is corrupted' is displayed.



### 3.2.1. Mounting the Backup as Virtual Disk

Comodo BackUp allows you to mount the backup file as a virtual disk in your system so that the backup is displayed as a separate drive partition with a new drive letter in Windows Explorer.

The backup file mounted as a virtual disk actually serves as a drive in its own right. You can browse through the Folders and Files in the disk as you normally browse a physical disk partition and search/edit files in incomparably less time.

You can even mount the backup file stored in your online storage space in Comodo Online Storage as a virtual drive so that you can browse the online storage space as other drives through Windows Explorer.

**Note:** Only the backup files created for the sources Disks, Partitions and Files and Folders can be mounted as virtual disks.

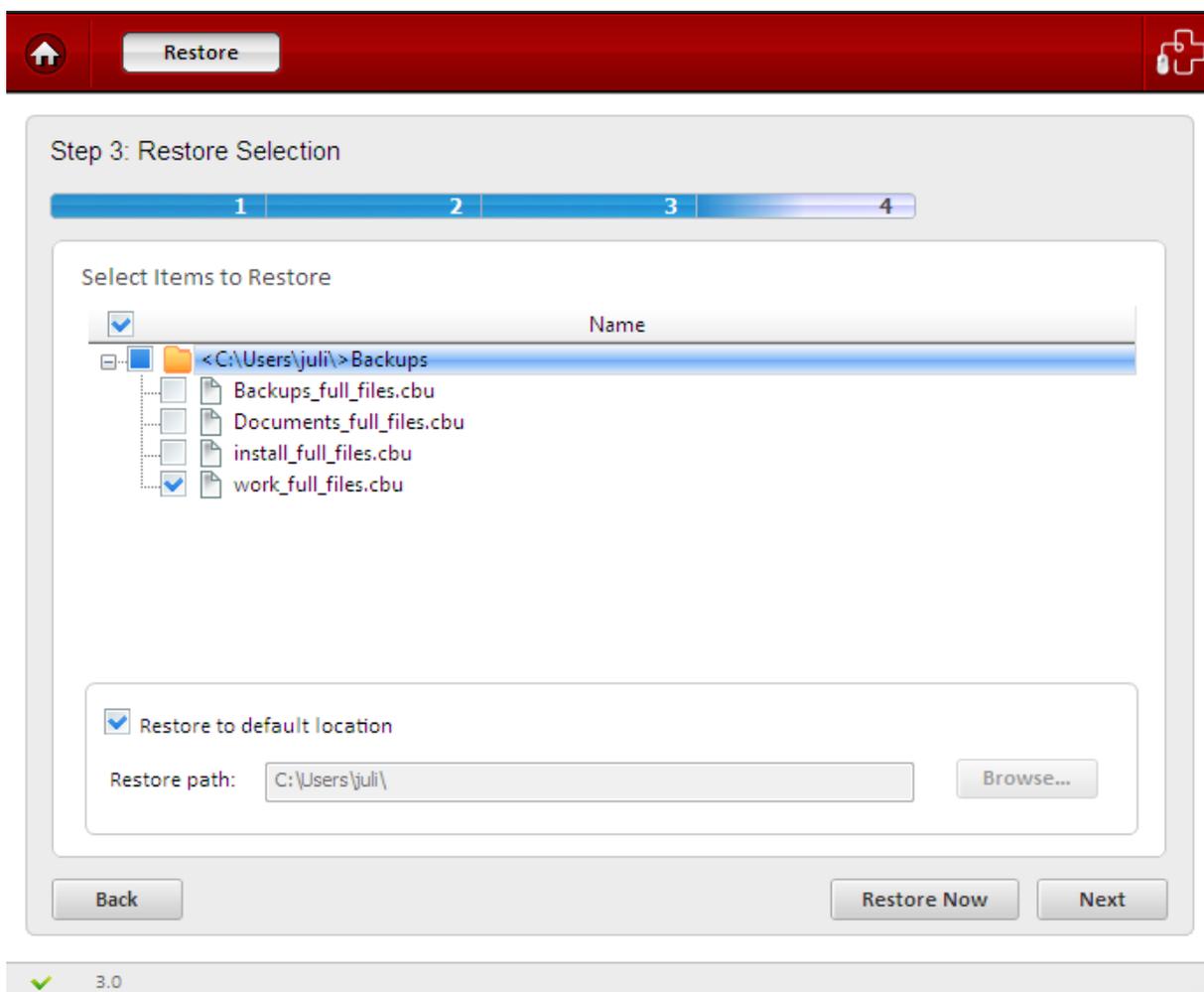
#### To mount the selected backup as a virtual drive

1. Select a drive letter from the Drive letter drop-down menu
2. Configure the 'Mount' settings
  - **Mount backup everytime Windows starts** - Instructs the application to repeatedly mount the backup as virtual drive with the selected drive letter, every time windows is started. Select this option if the backup is scheduled one and going to be updated periodically.
  - **Mount backup as read-only** - By default, the backup is mounted as a Read-Only drive, so that you can view the folders and files but cannot edit the files. If you want to mount the virtual drives enabling editing the files, uncheck this checkbox. The backup files of the **Files and Folders** can only be mounted as a Read-Only virtual drive.
3. Click 'Mount'.
  - Click 'Next' to move to **Step 3 - Selecting the files to restore and restore location**
  - To skip the further steps and to restore the items to their original location, click 'Restore Now'. The files will be appended to the original location - meaning only those files having same file name in the original location, as those in the backup are replaced from the backup. Files having different file names from those in the backup, are kept intact.

**Note:** You can also mount the backup files stored in your system as Virtual Drive from the **Manage** interface. Refer to **Manage > Mounted Drives** for more details.

### 3.3. Selecting the Files to Restore and Restore location

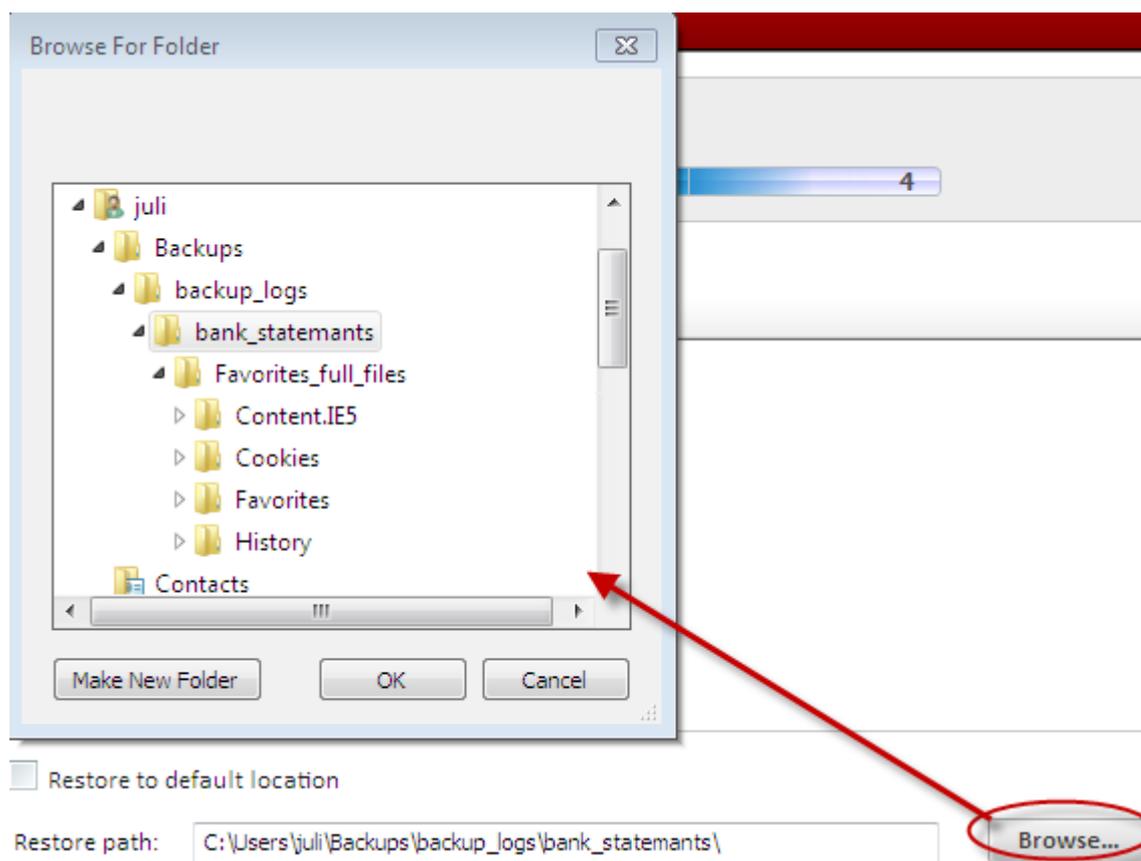
The third stage of the process is to select the files you wish to backup from the backup image (.cbu file) and the restoration location - the drive / folder in your hard drive where the files are to be copied.



The upper pane shows a list of the files that you specified in the backup job. To select the files to be restored, select the check-boxes beside the respective file names and leave the rest unchecked.

The lower pane allows you to select the folder to which the files are to be restored.

- If you wish to restore the files to their original location, leave the check box 'Restore to default location' checked. This restores the files to original locations from where those were backed up. If your backup consists of files or folder from multiple locations then all files are restored to their respective original locations.
- If you wish to restore the files to a different location from the original location, uncheck 'Restore to default location' and type the path in the 'Restore path' text box. You can also click 'Browse' button and navigate to the required folder.



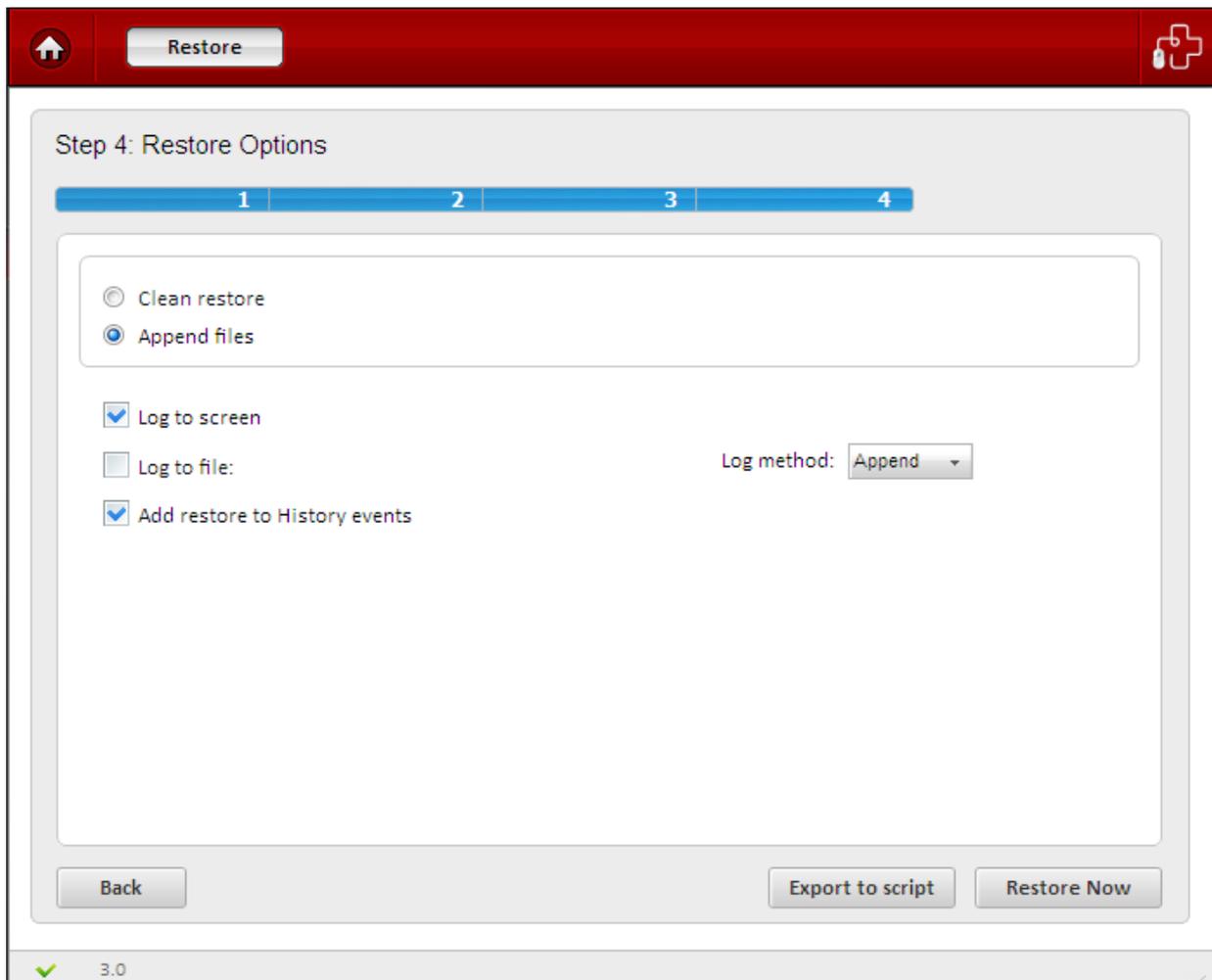
### Restoring Registry and User Settings

You can restore the Registry, User, Mail and Messenger settings and / or system files when you want to rollback part of a system to a previous configuration. In order for this rollback to work correctly, the backup copy of the registry and / or the user settings MUST be restored back to their original locations. For this reason, Comodo recommends that users leave 'Restore to default location' checked. If you wish to export the backed up registry and / or user settings to an alternative location (for example, troubleshooting or other analysis) then uncheck 'Restore to default location' and select a different restore destination by clicking the 'Browse' button.

- Click 'Next' to move to **Step 4 - Selecting Restore Method**
- To skip the further step and to restore the items to their original location, click 'Restore Now'. The files will be appended to the original location - meaning only those files having the same file names in the original location, as those in the backup are replaced from the backup. Files having different file names from those in the backup, are kept intact.

## 3.4. Selecting Restore Method

The final stage of the process is to specify the restoration mode (whether to replace all the files in the restoration folder with the restored files or to replace only the files with the same file names as those of the restored files and leave the other files in the restoration folder undisturbed). This stage also allows to configure the log options.



### Restore method

- **Clean restore** - Selecting this option deletes all the files in the folder you specify as restoration location in step 3 and copies the files from the backup in the folder. For example if you want to restore a backup file to folder D:\Data, the folder D:\Data is deleted, then recreated with all files and folders in the backup.

**Note:** If you have selected the entire folder for backup in **step 1** while **creating the backup job**, then all the files are replaced in the destination folder during the restoring operation as said above. If you have selected only individual files from a folder for backup, only those files are replaced in the same folder during restoration operation and the other files in the same folder are not affected.

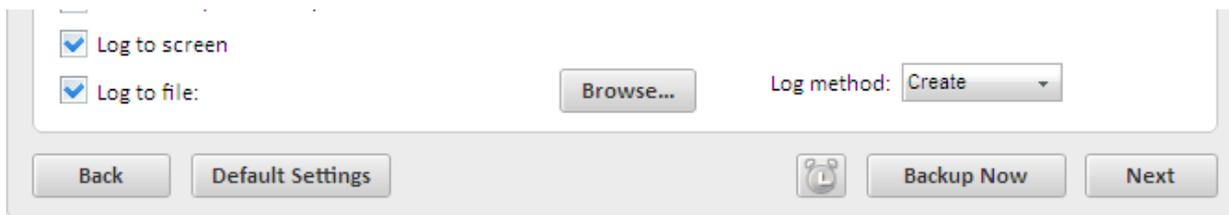
- **Append files** - Selecting this option deletes only those files having same file name as those in the backup and replaces them in the restoration folder. Files having different file names from those in the backup, is kept intact.

### Log Options

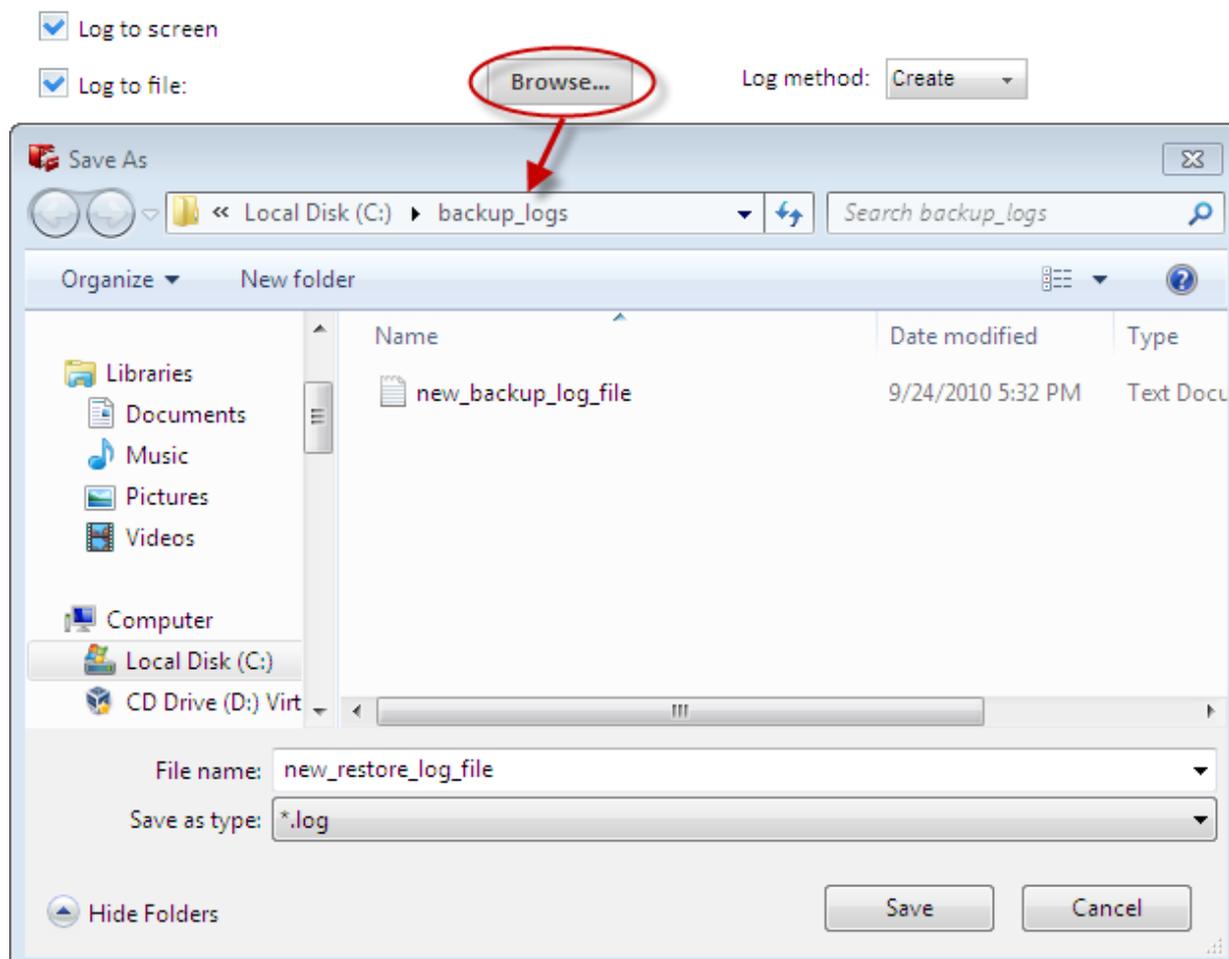
- **Log to screen** - The log of events (for example, details on each file or folder being restored, error reports etc.) is created and displayed at the final stage of the restoration operation in the right pane of the interface, only if this checkbox is left selected. By default, this option is selected. If you do not want to log the restoration events, deselect this checkbox.
- **Log to file** - Enables you to save the log of events (for example, details on each file or folder being restored, error reports etc.) generated during the restoration progress, as a text file for later reference or analysis.

### To save the log of events

- Select the 'Log to file' checkbox.

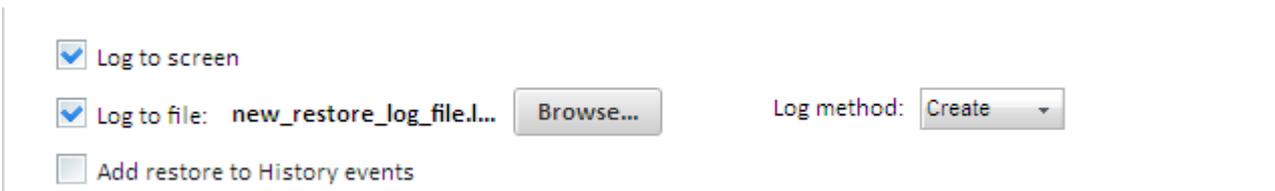


A 'Browse...' button will appear enabling you to navigate to the folder/file where you want to save the log.



- Click the 'Browse' button and navigate to the folder.
- If you want to store the log as a new file, type the new file name in the File Name text box. If you want to add the log information to an existing log file, select the file. Click 'Save'.

The new file name will appear in the interface.



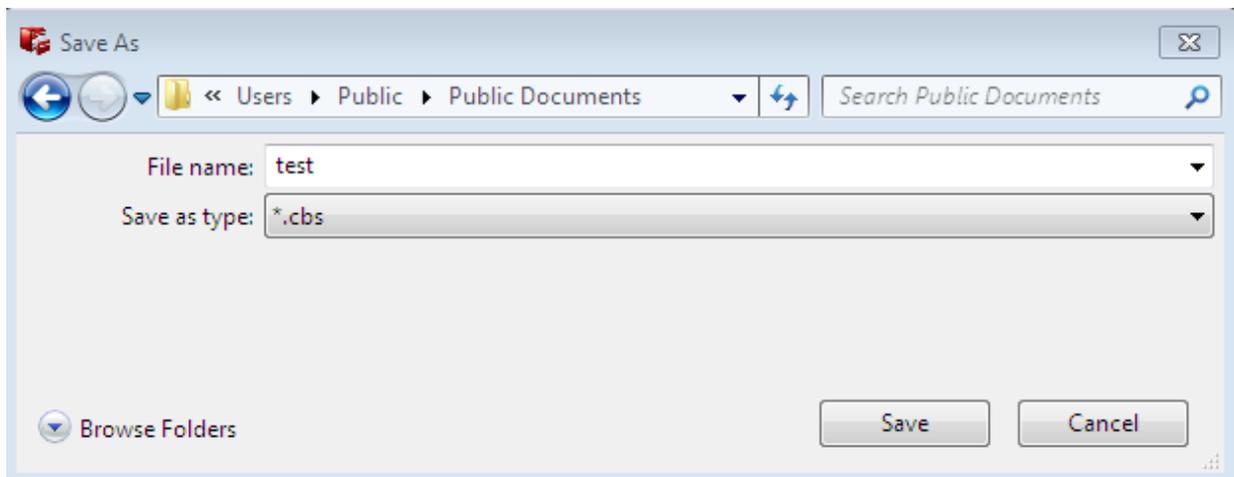
- Select 'Create' from the 'Log method' drop-down menu, if you are creating the log file for the first time or select 'Append' if you want to add the log information to the existing file.
- Add Restore to History Events - Instructs the application to add this restoration event to History so that the details of this restoration operation is viewable through the 'Manage' interface.

### Export to Script

Clicking the 'Export to script' button enables you to store the restore job as a script file in any desired location in your system and to run the saved job from that location when ever needed. This is useful for the restore job you want to execute often.

#### To store the created Restore job as a script file

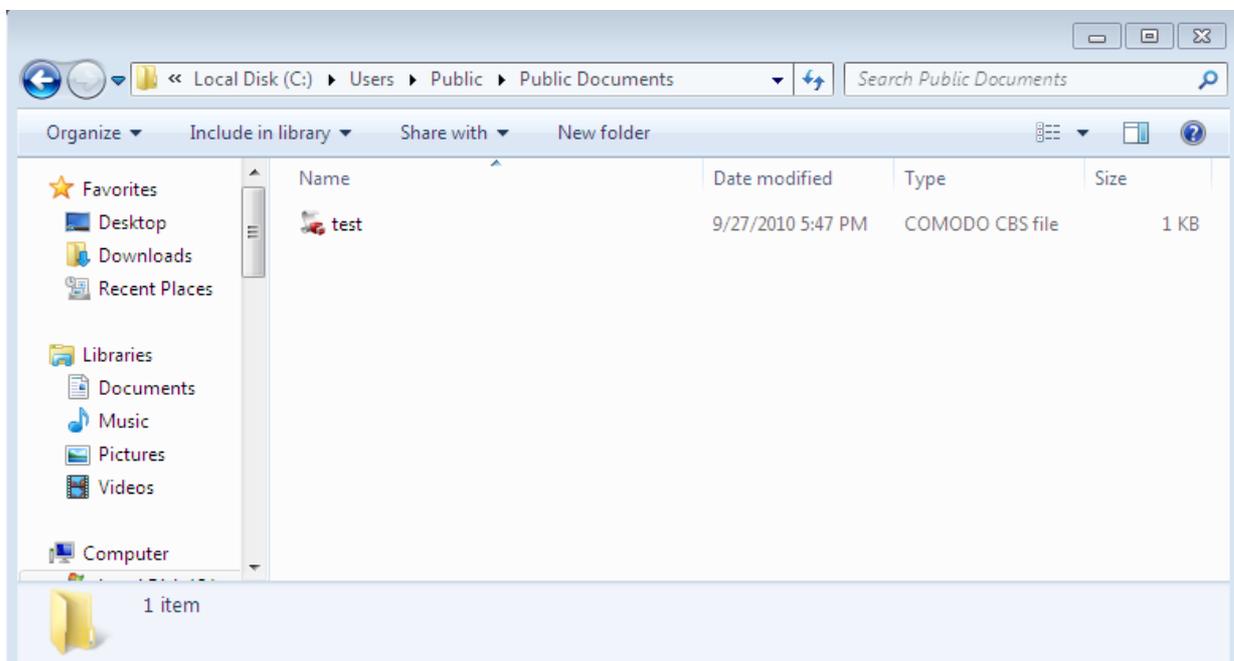
1. Click 'Export to script' button. A 'Save As' dialog opens.



2. Browse to the location where you want to store the script file of the created restore job.
3. Enter the 'File name' as you want and click 'Save'. The script is stored as a file with .cbs extension.

#### To run the script from the saved location

1. Browse to the location where the Restore Job script is saved with the .cbs extension through the Windows Explorer.

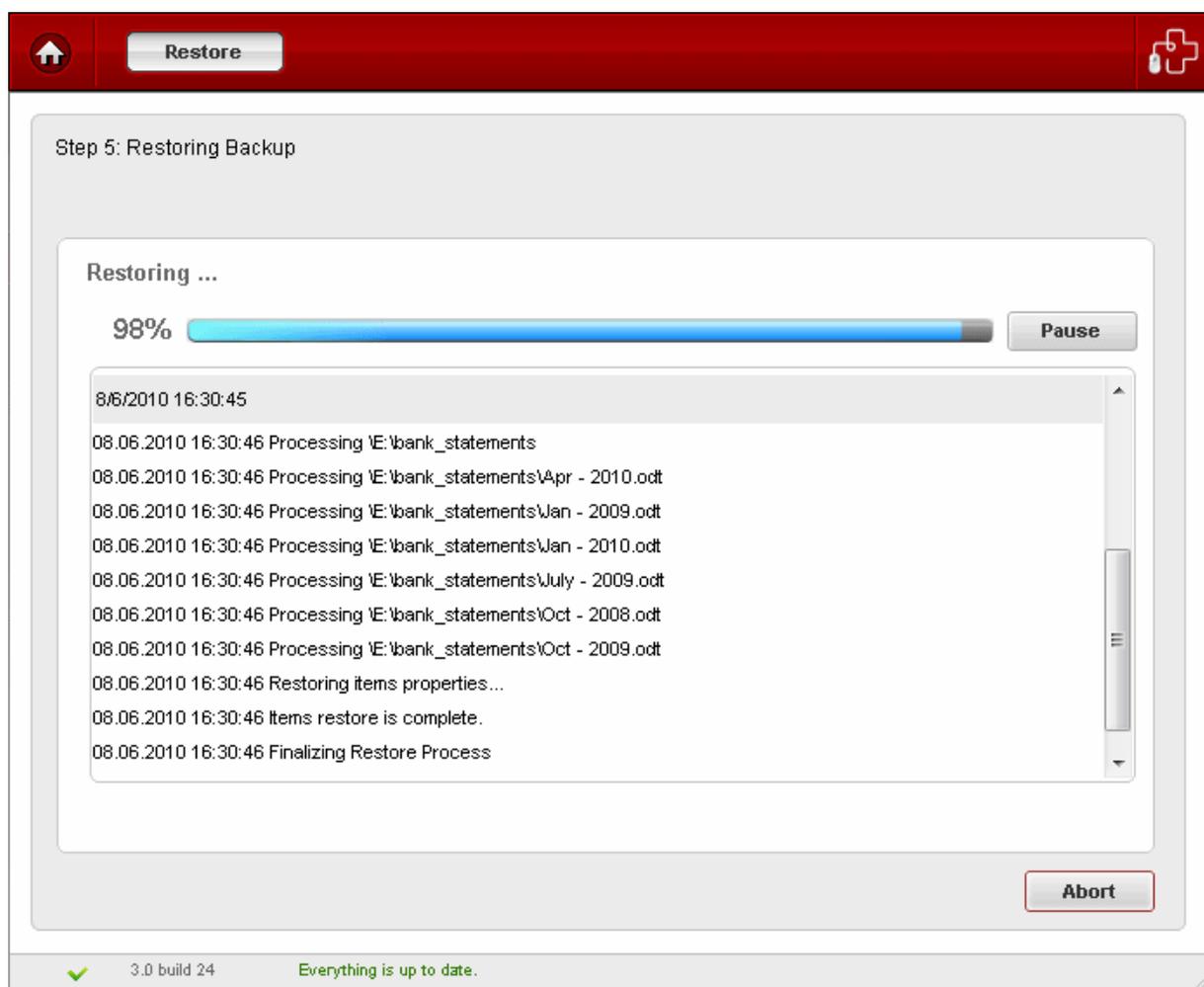


2. Double click the saved file or right click on the file and select the 'Open' option.  
The selected Restore job is executed as explained in the section **Finalization**.

## 3.5. Finalization

In order to finalize the restoration operation, click the 'Restore Now' button. The progress bar indicates the restoration

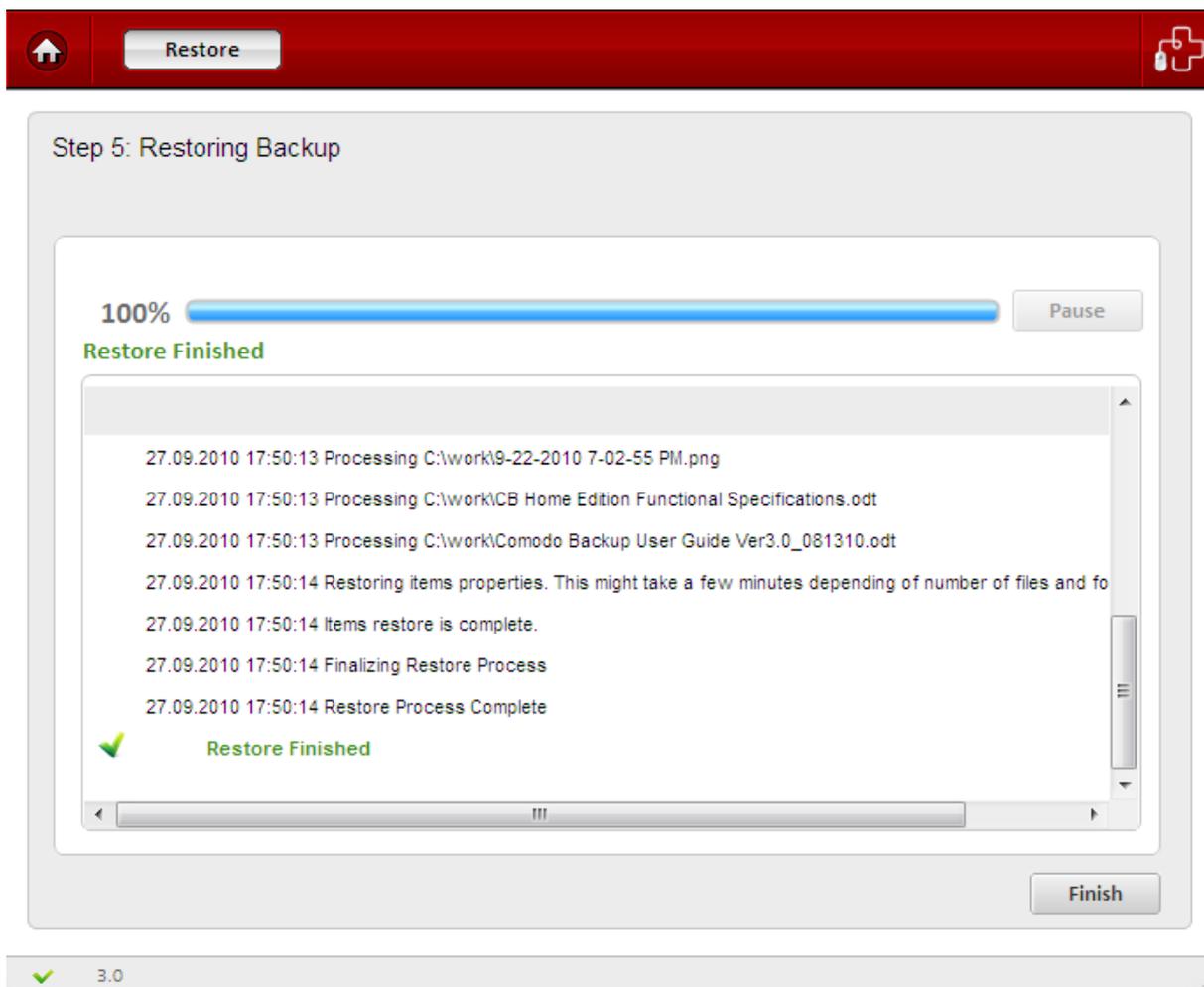
progress.



The lower pane displays the log information and shows the details about the files currently being restored and error reports, if any.

**Note:** The log is displayed only if 'Log to Screen' is left selected in Step 4. You can also **save the log** as a text file for later reference or analysis.

Also you can pause/resume the progress if you wish.



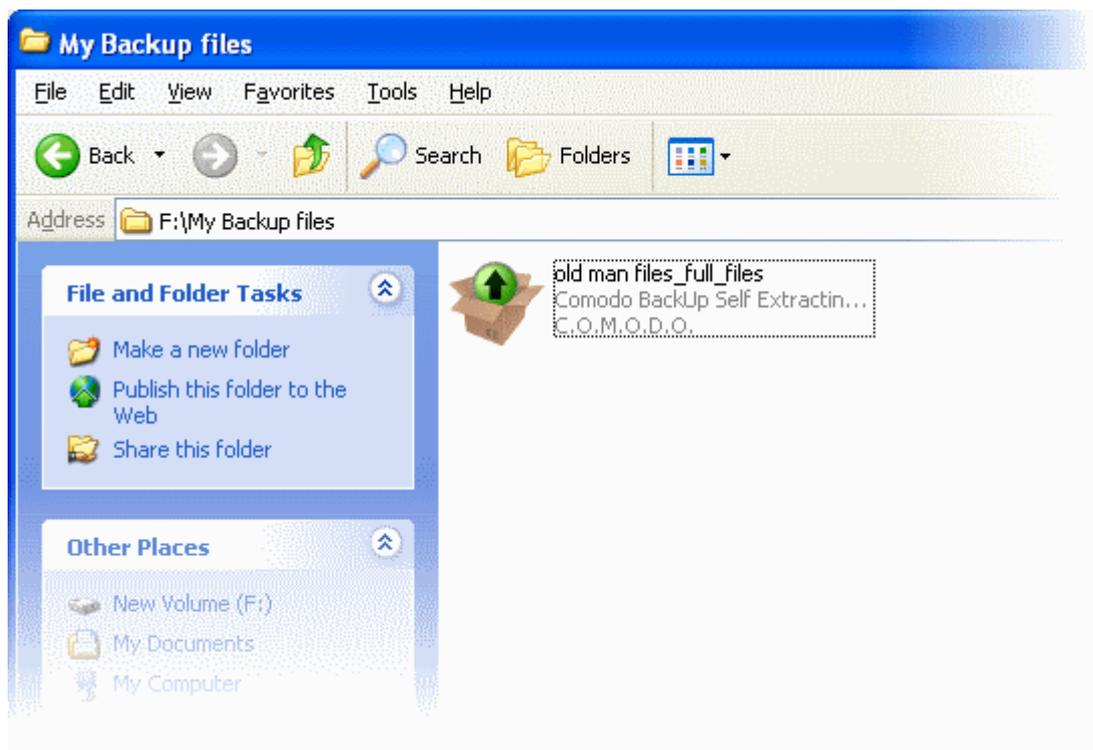
To complete the restoration process, click 'Finish'

## 3.6. Restoring Self Extracting Backups

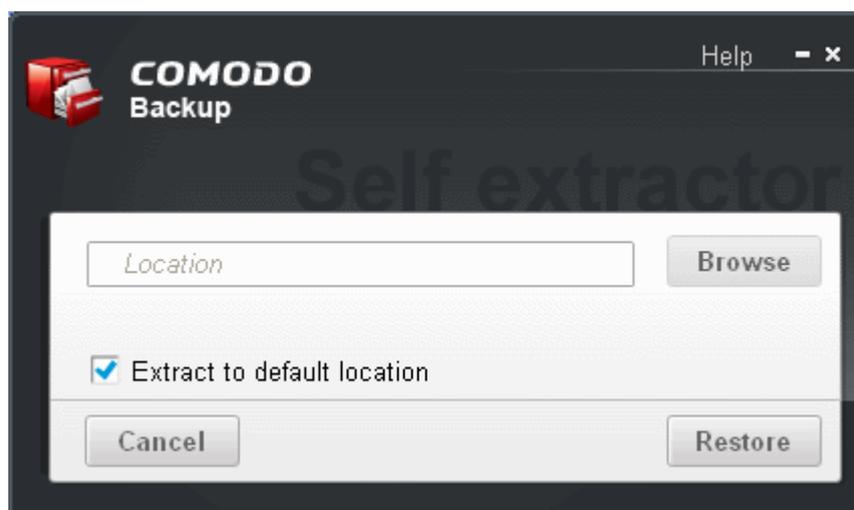
If you have created self extracting backup packages of your files/folders or registry entries by selecting the backup format as Self extracting CBU in **step 1** while creating the backup jobs, the backup files are stored as executable files (with the extension .exe). They can be restored without starting the Comodo BackUp application, just double clicking on the file from the Windows Explorer window.

### To restore a self extracting backup package

1. Open the folder containing the backup file in Windows Explorer and double click on the file.

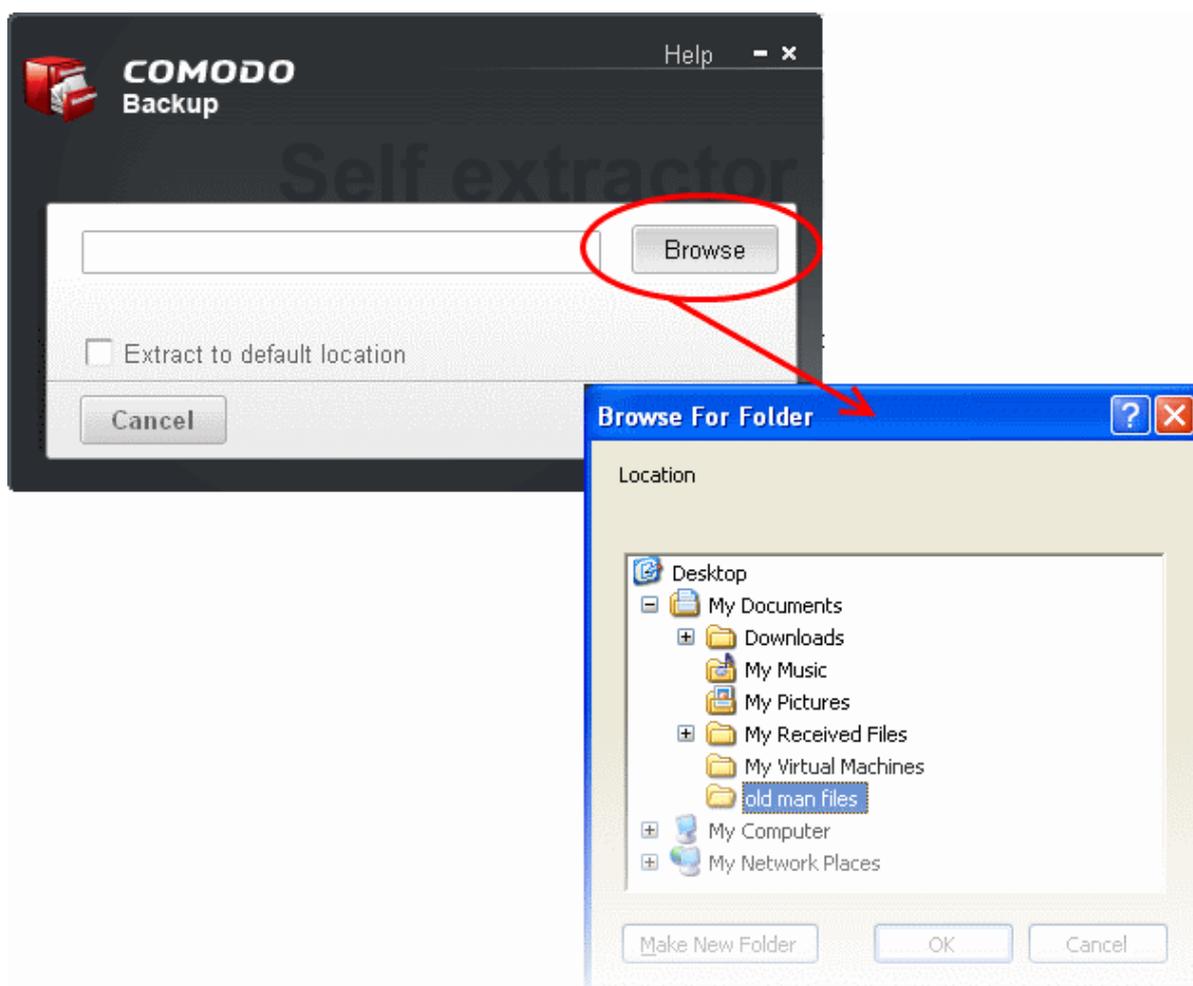


The Self Extractor wizard will start.



2. Select the restore location:

- If you wish to restore the files to their original location, leave the check box 'Extract to default location' checked and click 'OK'. This restores the files to original locations from where those were backed up. If your backup consists of files or folder from multiple locations then all files are restored to their respective original locations;
- If you wish to restore the files to a different location from the original location, uncheck 'Extract to default location', click 'Browse' and navigate to the required folder and click 'OK'.



**Tip:** You can also create a new sub folder inside the selected folder by clicking the Make New Folder button.

3. Click 'Restore'.

The folders/files will be restored to the selected location and the completion dialog will be displayed.

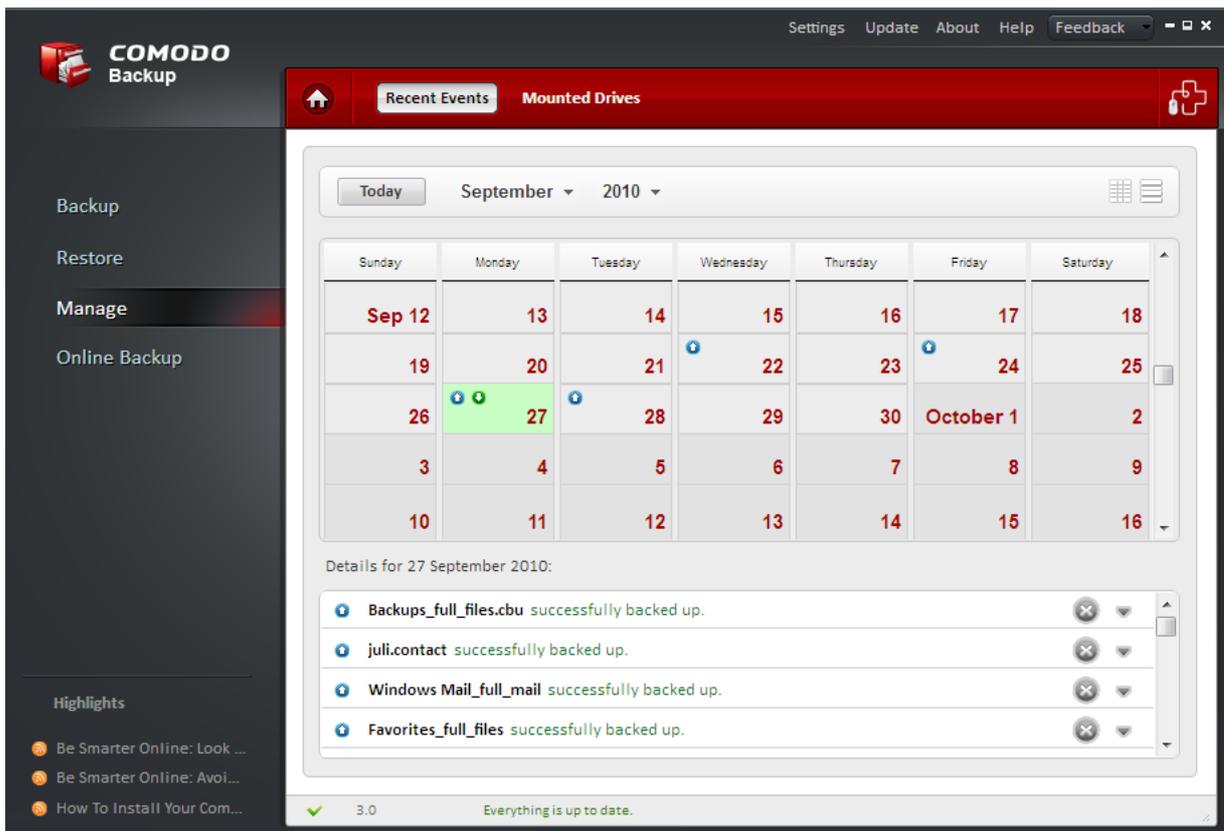
**Tip:** If you have restored the files to a different location other than the original location, you can view the files immediately by clicking the 'Open containing folder' link.

4. Click 'Finish' to close the wizard.

## 4. Managing Your Backups

The Manage area in Comodo BackUp allows you to view the history of backup and restore events, scheduled backup jobs that are due to be executed and to edit and instantly run the scheduled backup jobs. Also, it allows you to mount the stored backups as virtual drives.

To access the manage interface, simply click the Manage tab from the Left Hand Side Navigation pane.



The Manage Area contains two tabs namely:

- **Recent Events** - Displays the history of backup and restore events and scheduled backups which are due to run. You can switch between:
- **Calendar view** - Displays a calendar with the restore/backup events indicated on each date
- **List view** - Displays the events as a list.
- **Mounted Drives** - Enables you to view a list of backups mounted as virtual disks in your system and allows you to mount new virtual disks from the stored backups.

## 4.1. Viewing Backup History

The Recent Events area in the Manage Interface allows you to view the history of backup and restore events. It is displayed by default whenever you click the 'Manage' tab. You can also access the area by clicking the Recent Events tab from the tab structure of the 'Manage' interface.

The History of the events can be viewed in **calendar view** or **list view**.

### 4.1.1. Calendar view

The calendar view is displayed by default. You can also switch to calendar view from list view by clicking the Calendar button in the interface.



The calendar view displays icons indicating the successful backup, restore and scheduled backup events occurred in the respective dates and a list of events occurred on the selected date in the lower pane.

- - Indicates the backup events
- - Indicates the restore events

📅 - Indicates the scheduled backup jobs

↔️ - Indicates the synchronization events

- To switch the selection to the current date in the calendar click the 'Today' button.
- To view backup and restore events on a specific date in the current month, click on the specific date in the calendar.
- To view the backup and restore events in the previous months, the month and year from the month and year drop-down menus at the top.

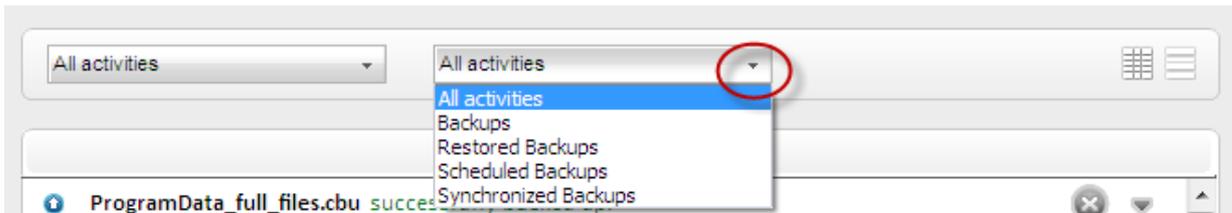
## 4.1.2. List View

- To switch to list view, click the List button in the interface.

The list view displays the list of events in chronological order.

- To filter the entries based on time, select the period from the first drop-down menu.

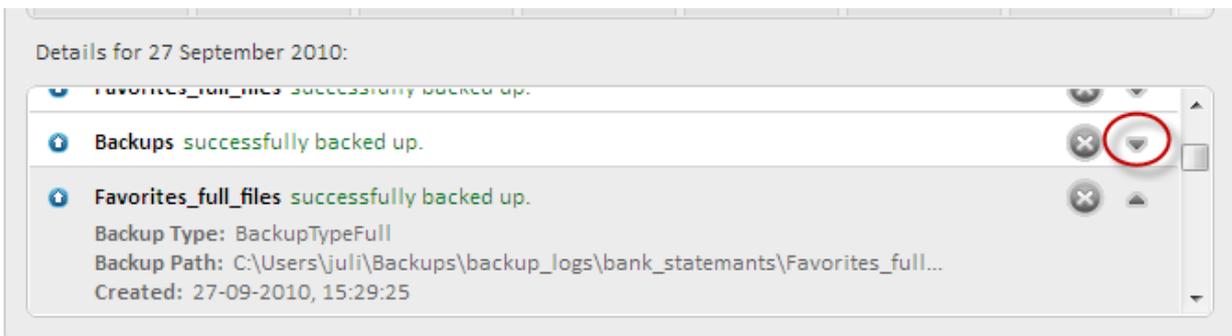
- To filter the entries based on activities, select the activity from the second drop-down menu.



- To delete all the entries and clear the list, click the 'Clear recent activity' button.

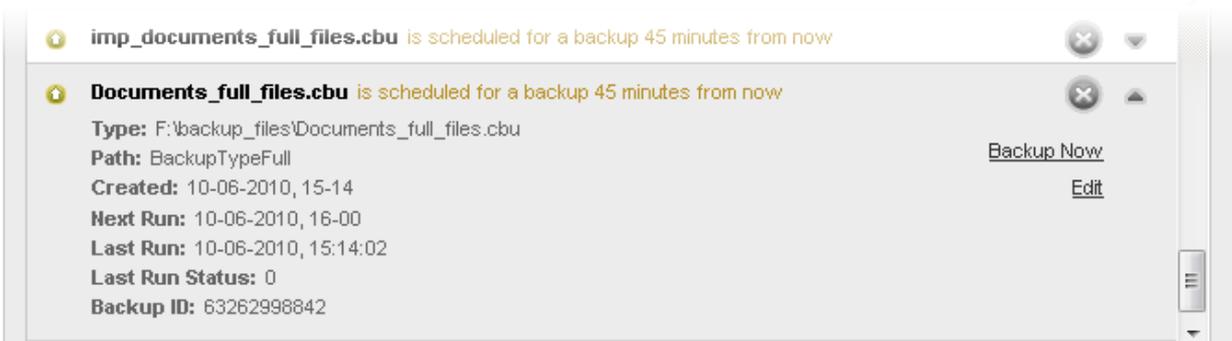
### 4.1.3. Viewing details of backup/Restore events and editing scheduled backup jobs

To view the details of a backup/restore event, click the down button ▼ alongside the corresponding entry.



To delete entry from the list of events, click the 'Delete' button ✕.

To edit/reschedule a scheduled backup job, select the down arrow ▼ button alongside scheduled backup entry.



To run the scheduled backup job instantly, click the Backup Now link.

To modify the time and date that the backup should run, click the Edit link. The schedule interface will open. Refer to the section [Schedule the Backup](#) for more details.

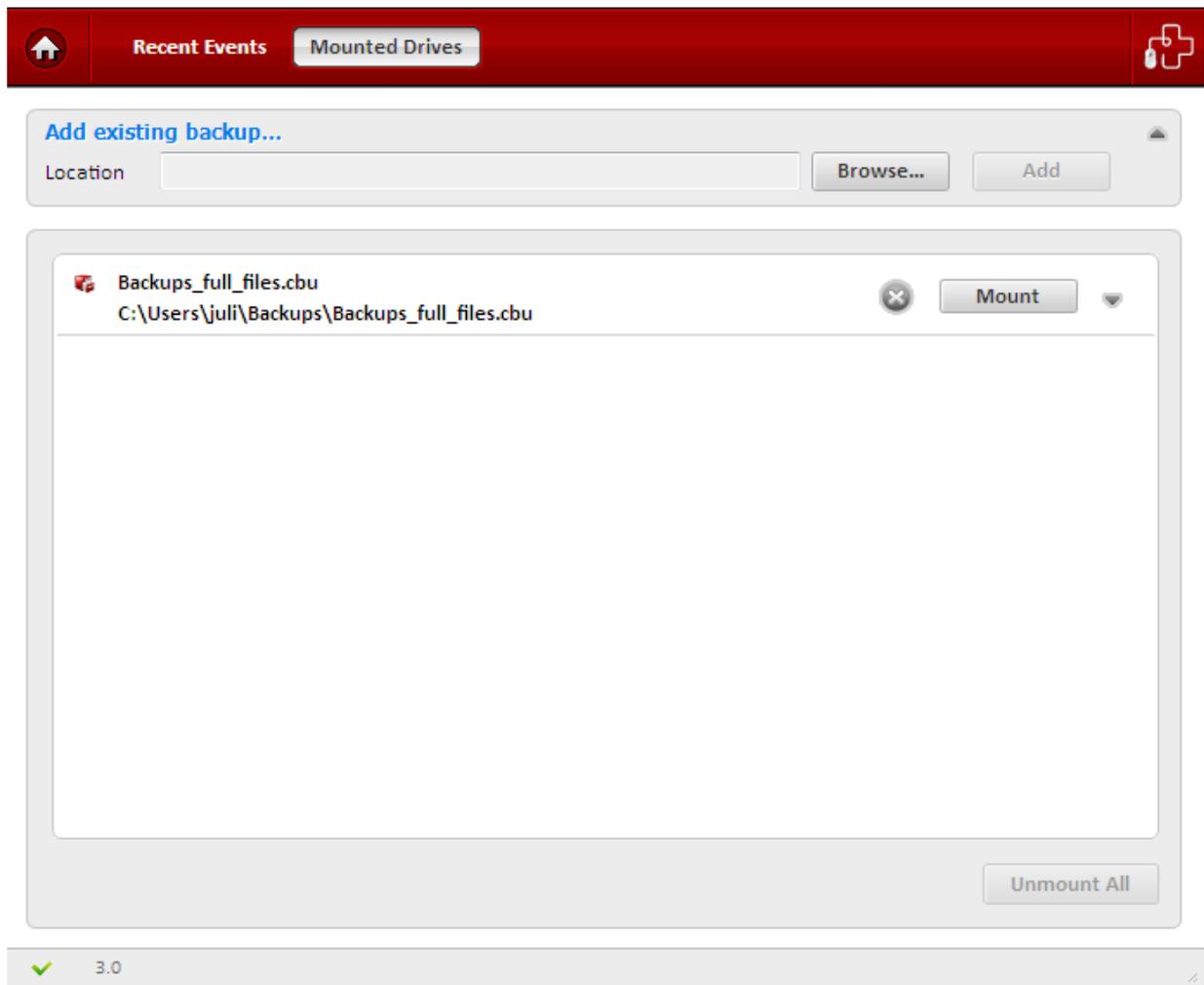
To cancel/remove the backup job click the 'Delete' button ✕.

## 4.2. Mounting Backups as Virtual Drives

The 'Mounted Drives' area in the Manage Interface allows you to view the list of virtual drives mounted in your system from the stored backup files and allows you to mount new virtual drives.

**Background Note:** The backup file mounted as a virtual disk is displayed as a separate drive partition with a new drive letter in Windows Explorer and actually serves as a drive in its own right. You can browse through the Folders and Files in the disk as you normally browse a physical disk partition and search/edit files in incomparably less time.

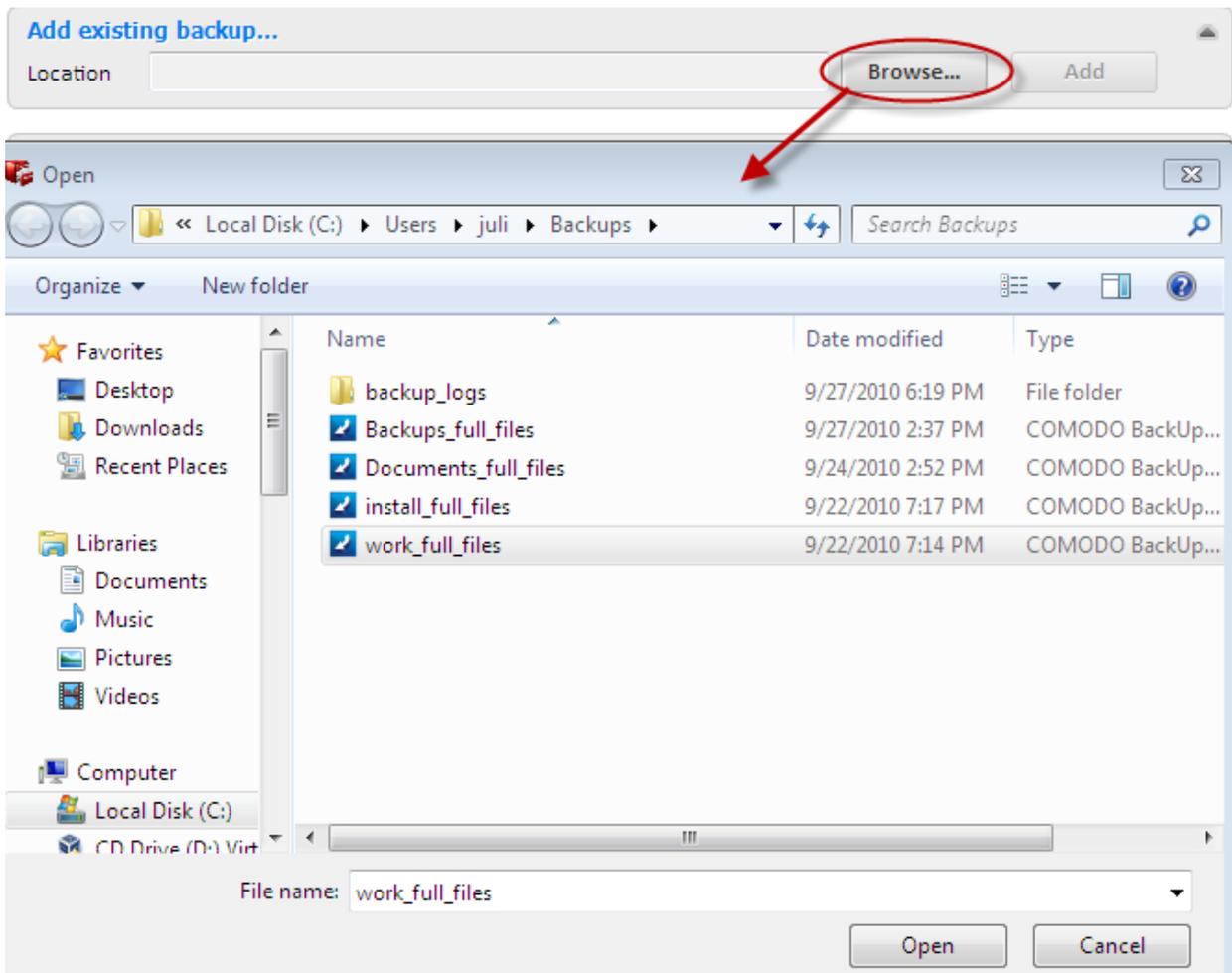
To access the Mounted drives area, click the Mounted Drives tab from the 'Manage' interface.



A list of mounted virtual drives is displayed.

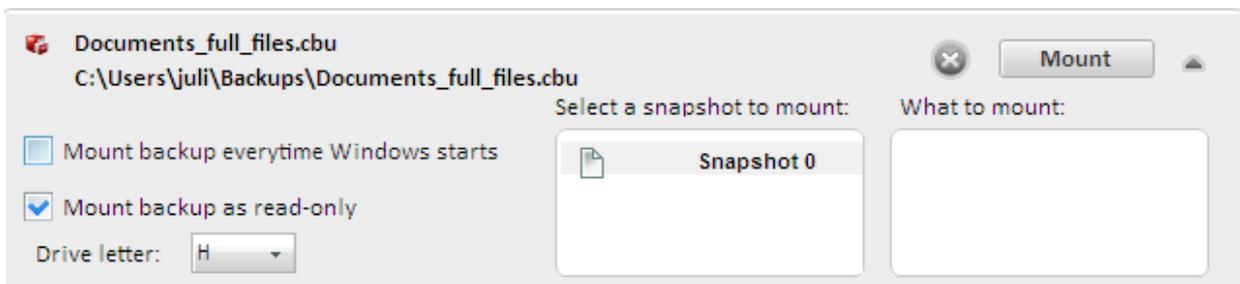
To mount a backup as a new virtual drive

- Click on the 'Add existing backup...' tab and add the backup file into the 'Mounted Drives' area by clicking the 'Browse...' button...



...navigating to the backup file and clicking the 'Add' button. The backup will be added to the 'Mounted Drives' area.

- To mount the backup with the next available drive letter, click 'Mount'.
- If you want to configure advanced options for mounting the virtual drive, click the down arrow ▼ beside the backup file name.



Make your selections from:

- **Mount backup everytime Windows starts** - Instructs the application to repeatedly mount the backup as virtual drive with the selected drive letter, every time windows is started. Select this option if the backup is scheduled one and going to be updated periodically.
- **Mount backup as read-only** - By default, the backup is mounted as a Read-Only drive, so that you can view the folders and files but cannot edit the files. If you want to mount the virtual drives enabling editing the files, uncheck this checkbox.
- **Select a snapshot to mount** - Creating a full backup and multiple differential and incremental backups for the same source creates several snapshots for the same backup file (in .cbu format). The 'Select a snapshot to mount' box displays a list of all the snapshots of the backup file and allows you to select which backup in the .cbu file you want to mount as the virtual drive.
- **What to mount** - If you have chosen to mount the backup of a disk/partition as a virtual drive, the partitions in the backup are listed in the 'What to mount' box. You can select which partition you want to mount as the virtual

drive.

- Select a drive letter from the Drive letter drop-down menu
- Click 'Mount'.

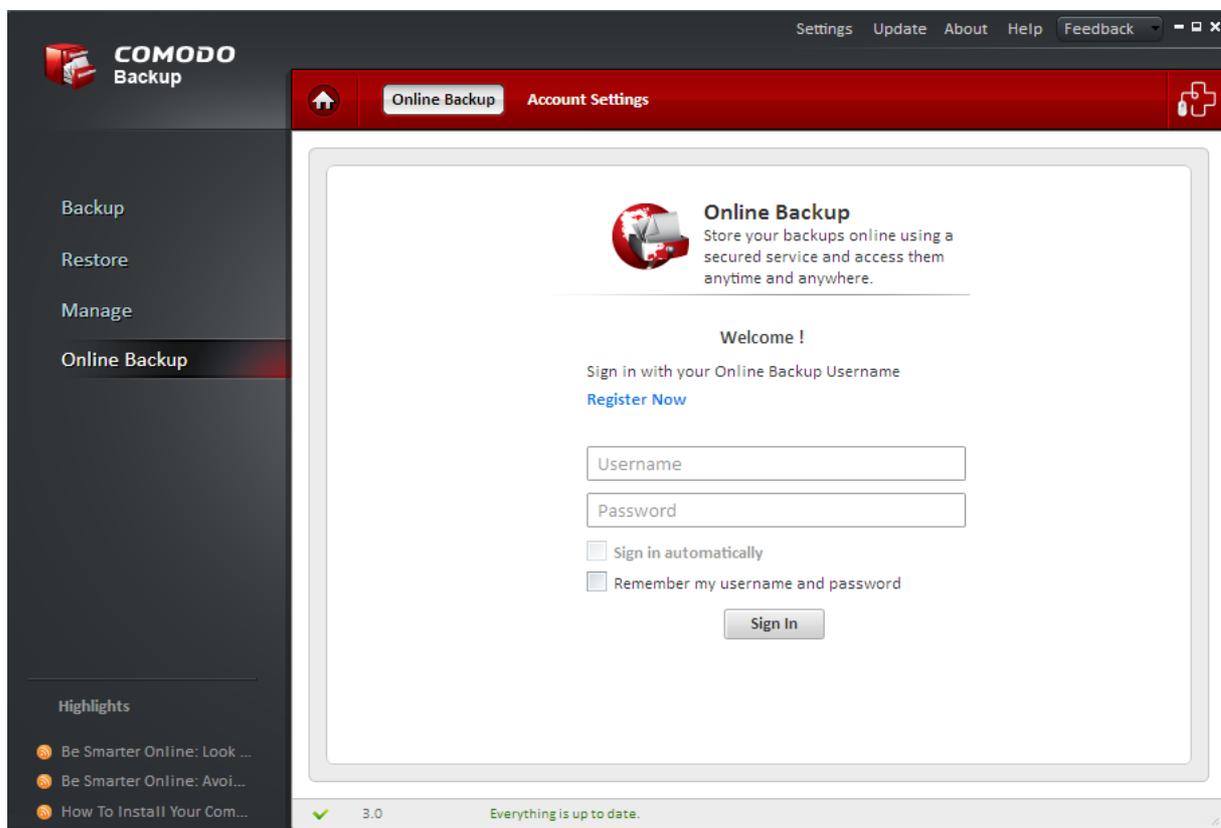
## 5. Configuring Your Comodo Online Storage Account

Comodo Online Storage (COS) is a fast, secure online backup service that provides essential disaster recovery for mission critical or otherwise important files in the event of damage, deletion or theft. Files and data of all types are stored on Comodo's highly secure servers and can be accessed over the Internet from anywhere in the world. With efficient features like scheduled backup, encrypted backup, incremental backup and archiving, you can be sure your backed-up data is not only highly secure, but always updated. In the event something goes wrong with your hard drive, or you lose your system in a disaster or to burglary, you can retrieve your precious files instantly by logging into your account and restoring the backed-up files and data.

You can mount your online storage space as a virtual drive simultaneously on multiple systems and can be used to store backups, documents, photos, music, videos and any other type of files. You can browse/manage files on the online storage space with Windows Explorer as you do with your normal drive partition. Any change that you do in the Online Storage space will be instantly visible in all other computers that are configured to this virtual drive. In addition, this drive is accessible to any program such as Windows Media Player and you can listen to music from this virtual drive directly as you can do from your own system. Not only files and directories, but email clients, IM conversations, disk and partitions (sector-by-sector image) and registry keys also can be stored as backups in the Online Storage space.

The Online Backup area in the Comodo Backup enables you to create and configure your Comodo Online Storage account.

To access the Online Backup area, click the 'Online Backup' tab from the Left Hand Side Navigation pane.



From here, you can:

- **Create a new online storage account;**
- **Log-in into your account and manage your files on the online storage;**
- **Manage Your Account.**

## 5.1. Creating a New Online Storage Account

To store your valuable and important files and data in Comodo's online server, you need to first have an online account.

### To create a new online account

**Online Backup**  
Store your backups online using a secured service and access them anytime and anywhere.

**COMODO**  
Creating Trust Online®

**Comodo Online Storage**

**Comodo Sign-Up Page**

<input type="radio"/> 500GB at price of \$250.00 for 1 month	<input type="radio"/> 500GB at price of \$2,500.00 for 12 months
<input type="radio"/> 200GB at price of \$100.00 for 1 month	<input type="radio"/> 200GB at price of \$1,000.00 for 12 months
<input type="radio"/> 100GB at price of \$50.00 for 1 month	<input type="radio"/> 100GB at price of \$500.00 for 12 months
<input type="radio"/> 50GB at price of \$25.00 for 1 month	<input type="radio"/> 50GB at price of \$250.00 for 12 months
<input type="radio"/> 10GB at price of \$5.00 for 1 month	<input type="radio"/> 10GB at price of \$50.00 for 12 months
<input type="radio"/> 1GB at price of \$0.50 for 1 month	<input checked="" type="radio"/> 1GB at price of \$5.00 for 12 months

- Click the 'Register Now' link in the Comodo Online Account pane. The following page is displayed:
- Select the radio button corresponding to the subscription package you want to use from the list displayed.

## Customer Information (an \* indicates required fields)

When paying by credit card, the billing information should be exactly as it appears on your credit card statement. For credit card verification, please ensure that your first and last name are entered as they appear on your card.

### User Details

Are you an existing Comodo customer?  Yes  No

**Login\***  
(4 character min.)

**Password\***  
(6 characters min.)

**Password Confirmation\***

**First Name\***

**Last Name\***

**Email\***

**Telephone Number**

### Contact Information

**Company Name**

**Street Address\***

**Address2**

**City\***

**Country\***

**State or Province**

**Postal Code\***

### Billing Information

The same as Contact Information

- Enter the appropriate User Details and Contact Information in the respective sections.

### Payment Options

PayPal

When paying by credit card, the billing information should be exactly as it appears on your credit card statement. For credit card verification, please ensure that your first and last name are entered as they appear on your card.

#### Credit Card Details

Credit Card Number\*

Security Code\*  [what is it?](#)

Name exactly as it appears on your credit card\*

Expiration date\*  -

- Select the radio button of the payment mode of your preference in the Payment Options section.
- Enter your Credit Card Details in the respective fields.

### Terms and Conditions

END USER LICENSE AND SUBSCRIBER AGREEMENT  
Comodo Online Storage

I accept the Terms and Conditions

**SIGN UP**

- Read the 'End User License and Subscriber Agreement' and select 'I accept the Terms and Conditions' checkbox.
- Click 'SIGN UP'

Your online account is now created. You can now Sign-up with the login name and the password you entered in the Registration Form.

## 5.2. Logging-in to Your Account and Managing Files on Online Storage

Once you have successfully created an online account, you can login to your online storage area, by entering your your service username and service password.

Online Backup **Account Settings**

**COMODO**  
Creating Trust Online®

Help Contacts

Welcome

Please enter your login and password

Login: johnsmith

Password: ●●●●●●●●●●

Login

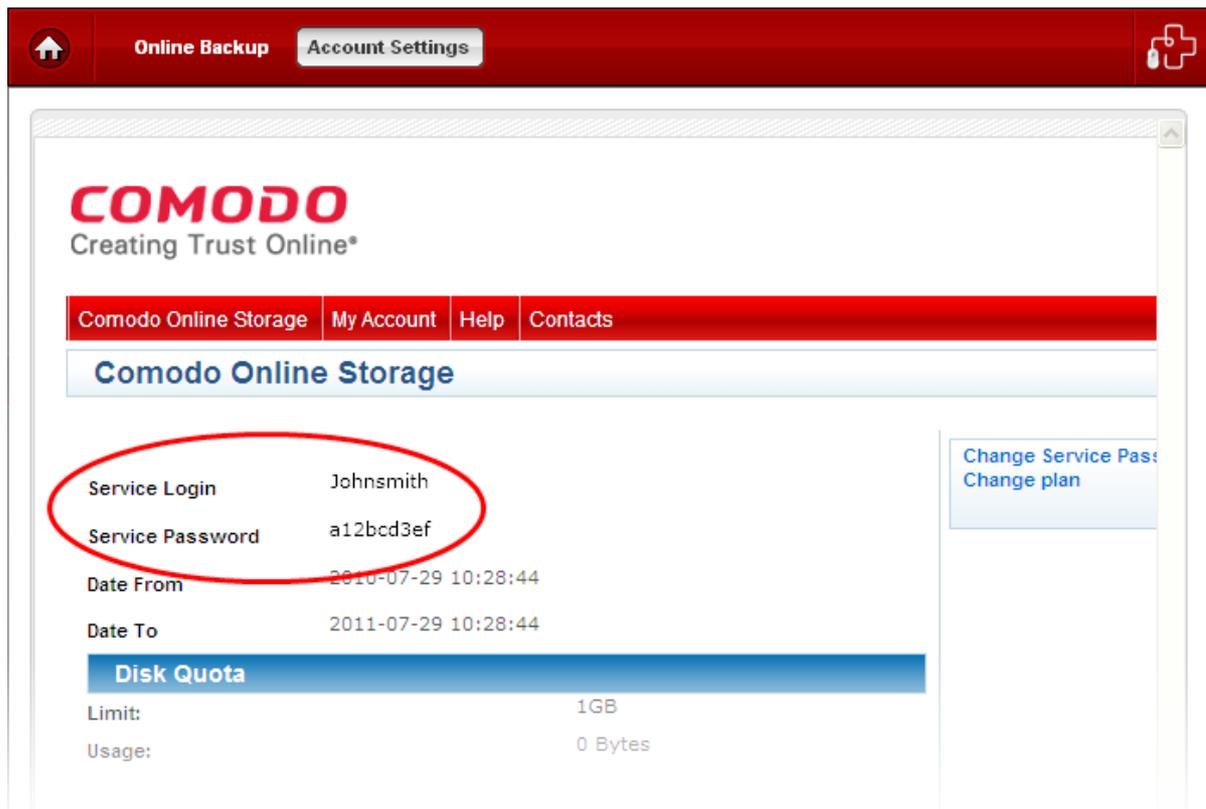
Create New Account  
Forgot Password

Version: 3.0

**Important Note:** This is not the same password as your Comodo account password that you specified during your **account creation**. This is a unique, random password that was generated to authenticate you to the COS servers.

## Retrieving Your Service Login and Service Password

1. Open the Online Backup interface by clicking the 'Online Backup' tab from the Left Hand Side Navigation pane and click the 'Account Settings' tab.
2. Enter your username and password you specified during your account registration and click 'Login'. Your account page will be displayed.



The screenshot displays the 'Account Settings' page for Comodo Online Storage. At the top, there are navigation tabs for 'Online Backup' and 'Account Settings'. The main content area features the Comodo logo and a navigation bar with links for 'Comodo Online Storage', 'My Account', 'Help', and 'Contacts'. Below this, the 'Comodo Online Storage' section is visible. A table lists account details: 'Service Login' (Johnsmith), 'Service Password' (a12bcd3ef), 'Date From' (2010-07-29 10:28:44), and 'Date To' (2011-07-29 10:28:44). A red circle highlights the 'Service Login' and 'Service Password' fields. Below the table is a 'Disk Quota' section with a blue bar, showing a 'Limit' of 1GB and 'Usage' of 0 Bytes. On the right side, there are two buttons: 'Change Service Password' and 'Change plan'.

Your service login and service password are displayed at the top-left corner of the page. Note down these login credentials. You need to enter only these login credentials to access your online storage space.

**Note:** If required, you can change this password to something more memorable by using the 'Change Service Password' button on the right. Refer to [Changing Your Password](#) section of this guide for more details.

### To log-in to your account

- Click 'Online Backup' from the Left Hand Side Navigation pane.

Online Backup Account Settings

**Online Backup**  
Store your backups online using a secured service and access them anytime and anywhere.

Welcome !

Sign in with your Online Backup Username  
[Register Now](#)

username

\*\*\*\*\*

Sign in automatically

Remember my username and password

Sign In

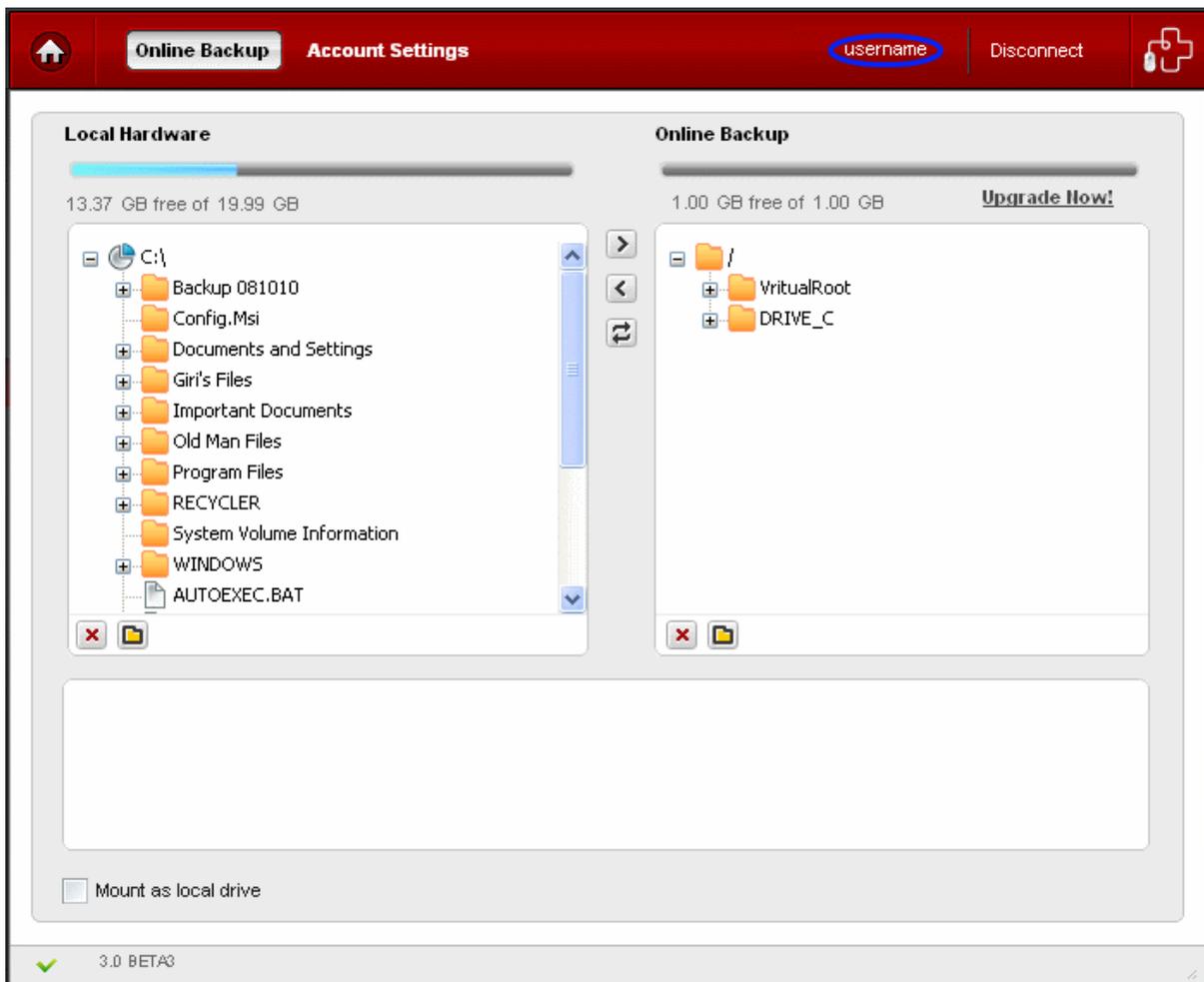
3.0

- Enter your Username and Password.
- Selecting 'Remember my username and password' instructs the application to store your username and password. This saves you from entering your login credentials every time you login.
- Selecting 'Sign in automatically' instructs the application to login automatically every time the application is started.
- Click Sign In.

**Tip:** You can also sign-in to your account by entering your username and password from the **Online Storage** area in the Summary screen.

After successful login, your username is displayed in the tab structure area and the disk partitions and folders of your system are displayed as a tree structure in the left hand side pane and the folders and files in your online storage space are displayed as a tree structure in the right hand side pane.

The status bars above the panes display the usage state of your local hard disk and your online backup storage space.



You can:

- Copy folders/files between your local system and the online storage
- Synchronize the contents of a folder/file in your system with the copy of the same in the online storage
- Create new folders on your local system and the online storage
- Delete folders/files in your local system and the online storage
- Mount your online storage space as a virtual drive in your system
- Rename folders/files in your local system and the online storage
- Upgrade your account for additional storage space.

### To copy folders/files between your local system and the online storage

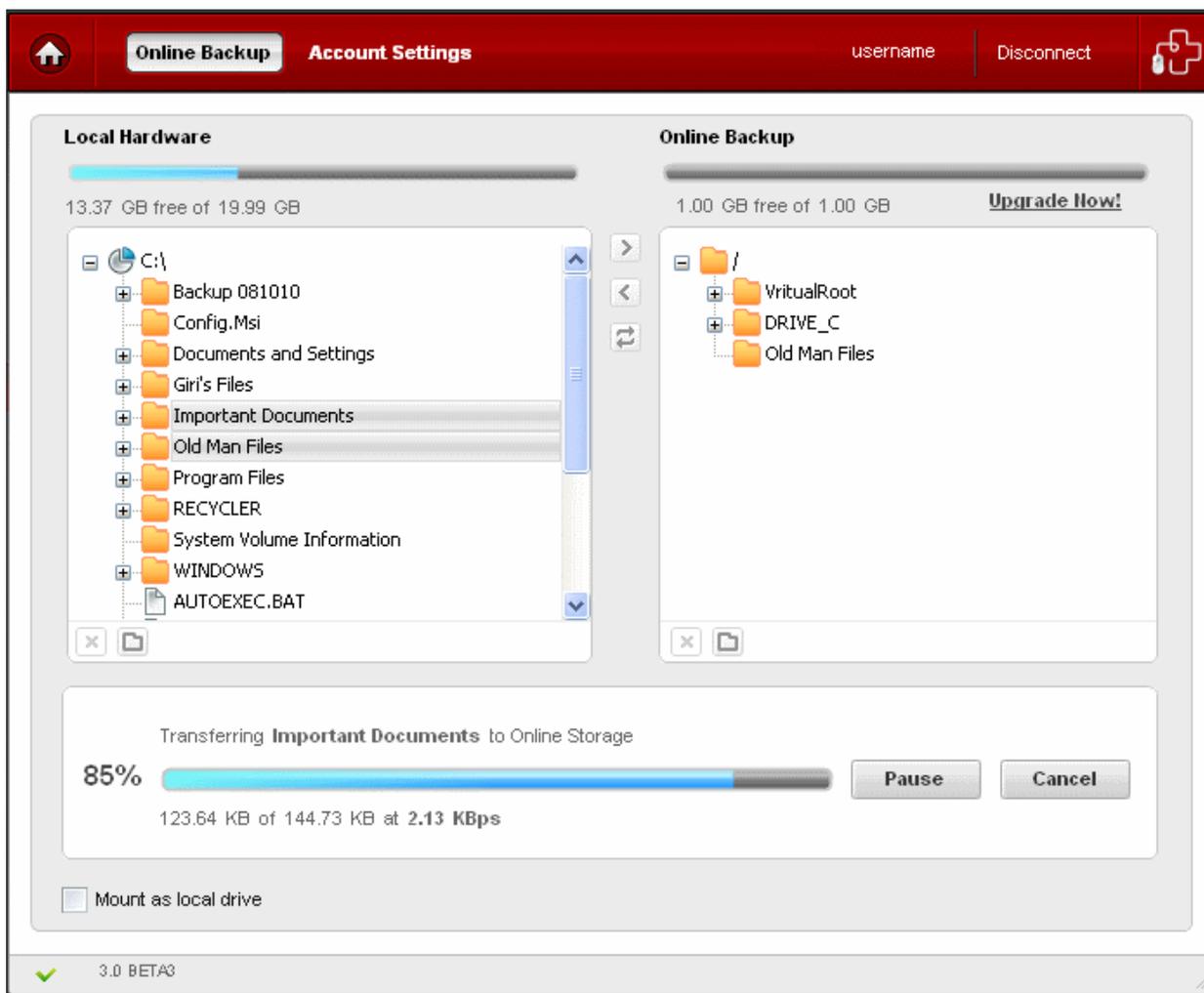
1. First select the destination folder in the destination location (Online Storage or the Local System)
2. Select the folder/file to be copied from the source location (Local System or the Online Storage)

**Tip:** Use Control/Shift keys to select multiple folders/files at once.

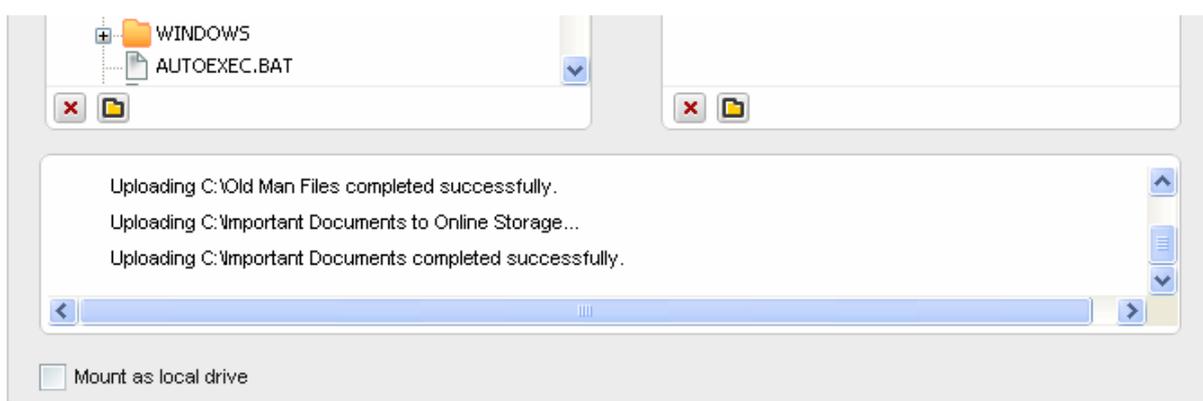
3. Click the right arrow to copy the selected folders/files to the Online Storage or
4. Click the left arrow to copy the selected folders/files to your computer

**Tip:** Alternatively you can select the folders/files to be copied, drag and drop to the destination folder.

The transfer progress will be indicated in the lower pane and...



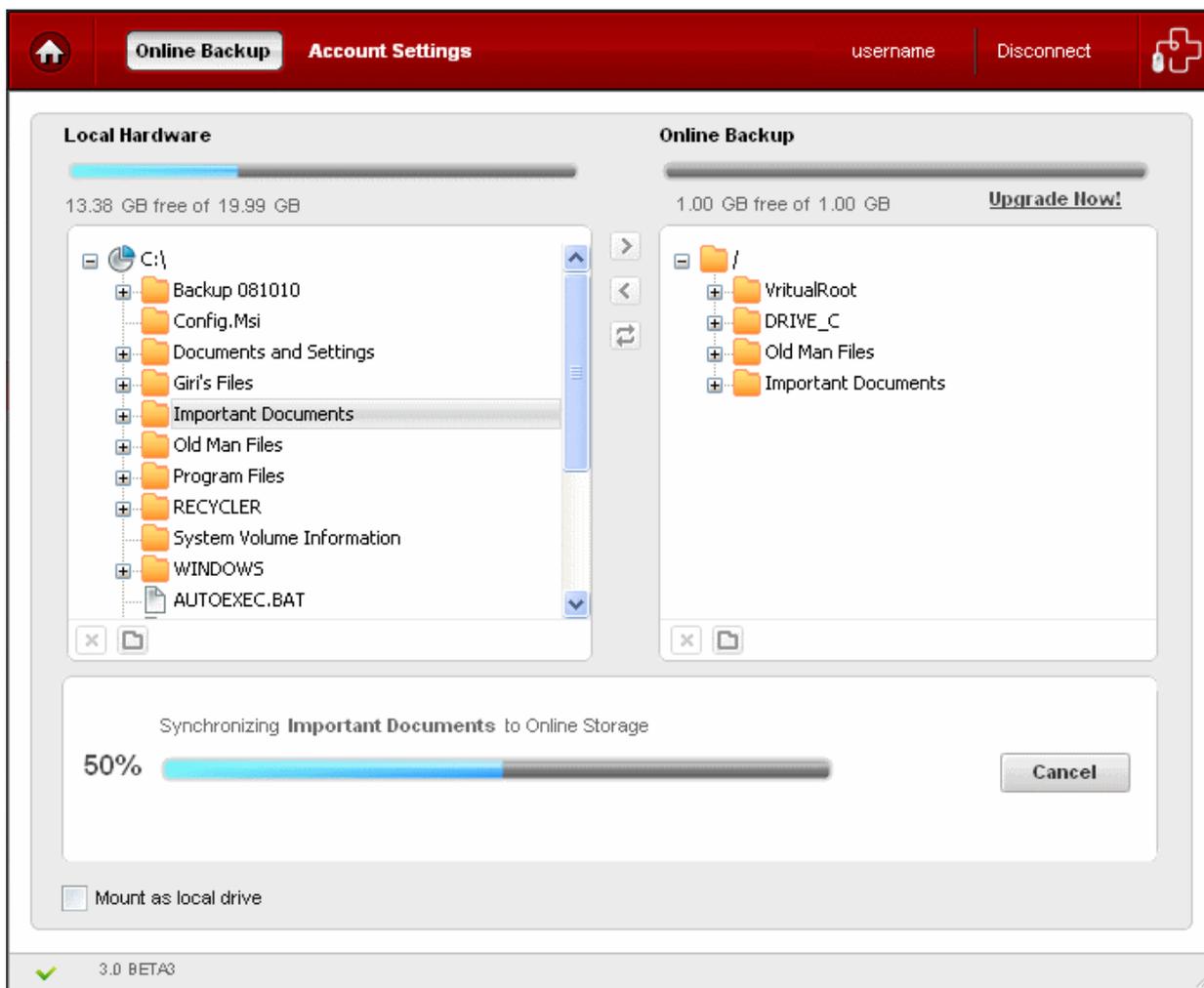
...on completion, the details about the files currently being copied and error reports, if any will be displayed in the lower pane.



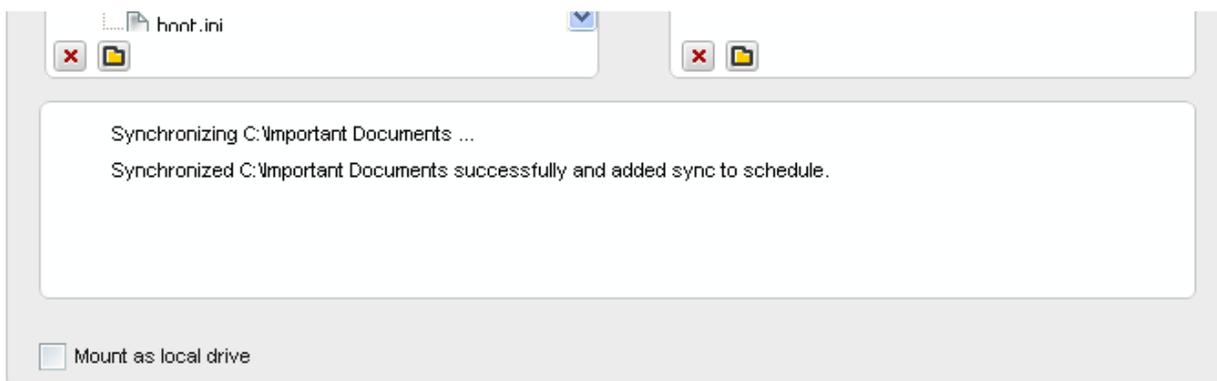
## To synchronize the contents

1. First select the copy of the folder in the destination location (Online Storage or the Local System)
2. Select the source folder from the source location (Local System or the Online Storage)
3. Click the 'Sync'  button

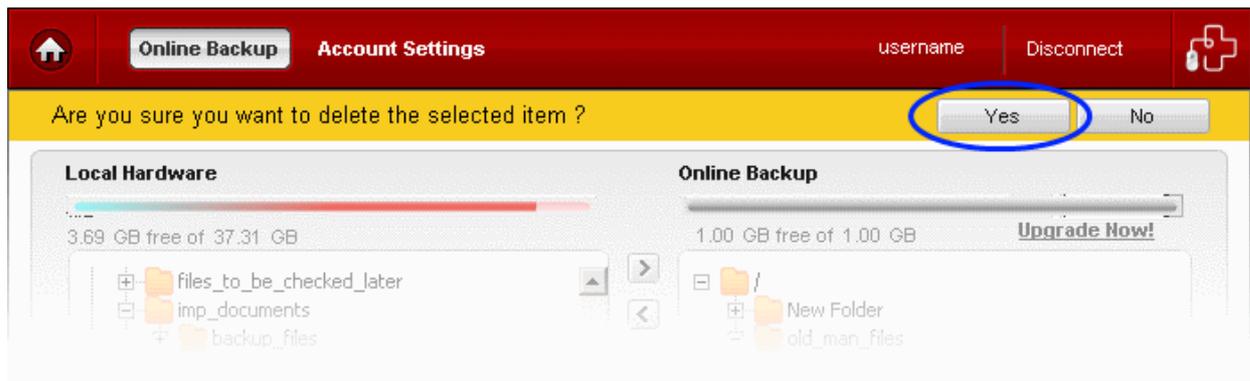
The synchronization progress will be indicated and...



on successful completion, the two folders will be having the same content.

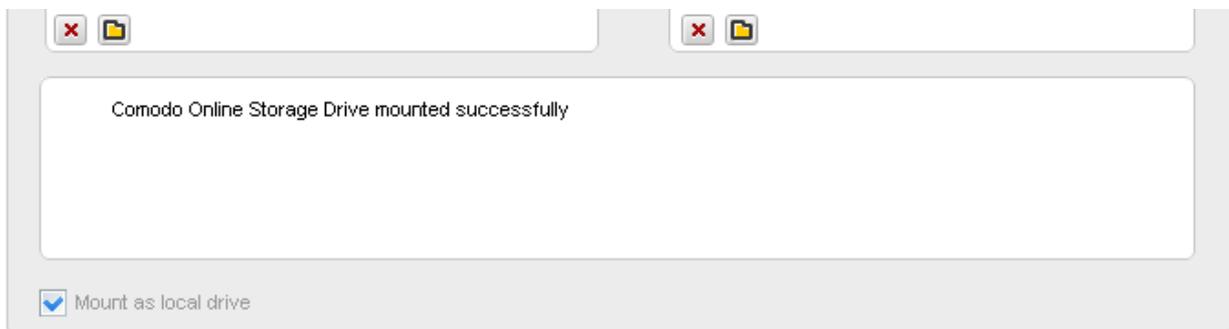


- To create new folders in your local system or online storage space, simply select the parent folder and click 'New Folder' or the new folder icon .
- To delete folders/files in your local system or online storage, simply select the folder/file and click the delete icon  and click 'Yes' in the confirmation message.

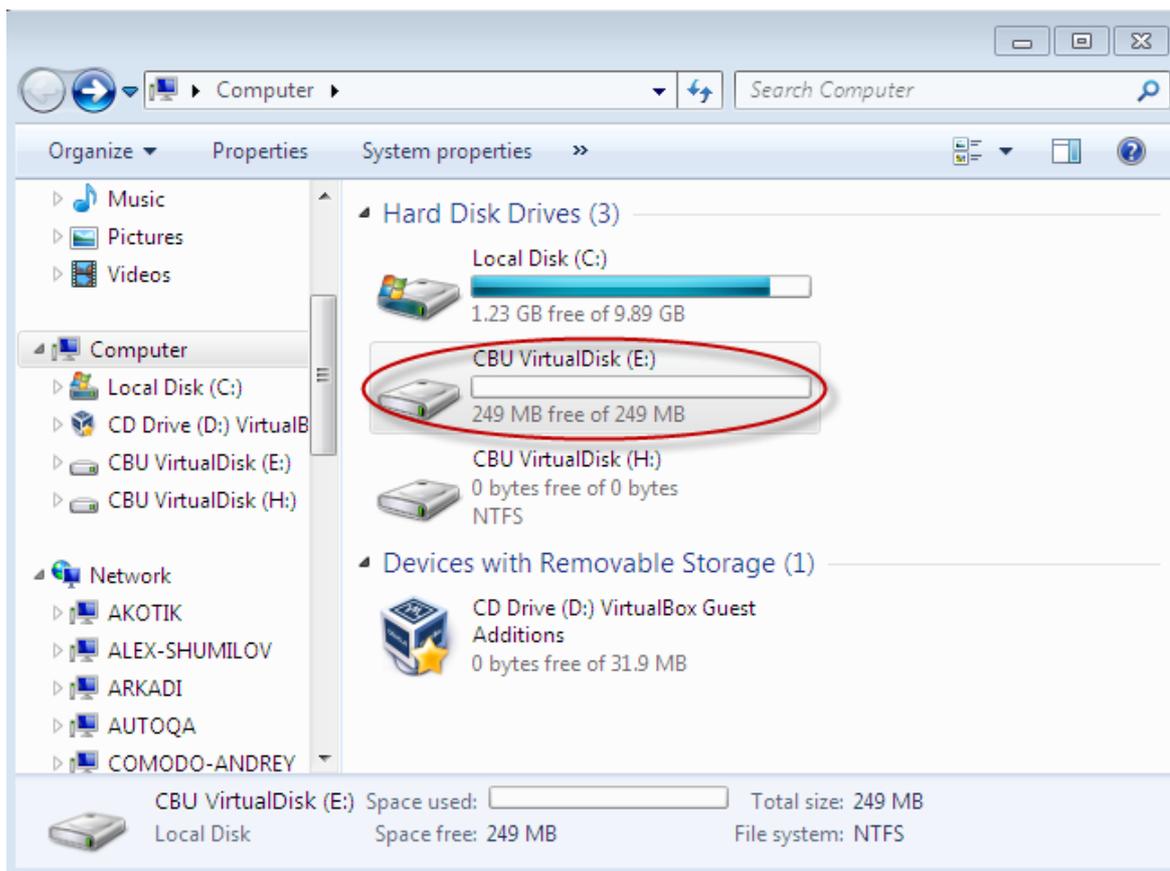


## To mount your Online Storage space as a virtual drive

- Select the 'Mount as local drive' checkbox.



A confirmation message will be displayed in the lower panel. The storage will be mounted with the drive letter next to the drive letter of your last hard disk partition.



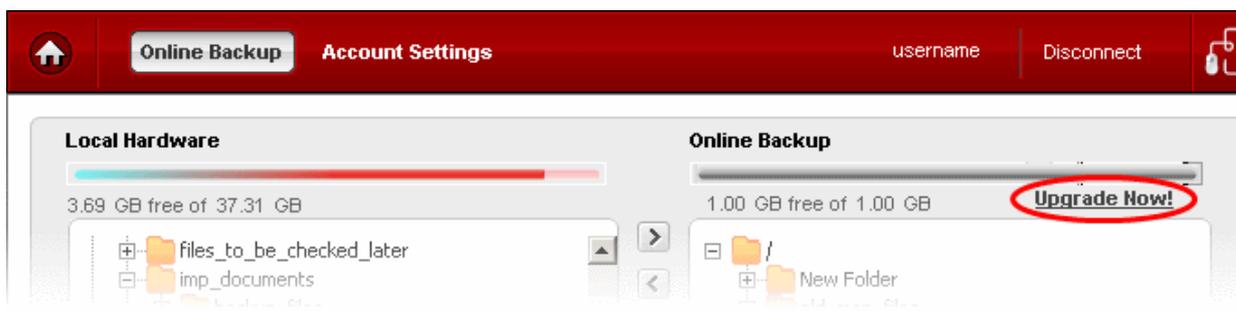
You can browse and manage folders and files in the online storage through Windows Explorer.

### To rename folders/files in your local system or online storage

- Double-click the item that you wish to rename.
- Type the new name for the file or folder.

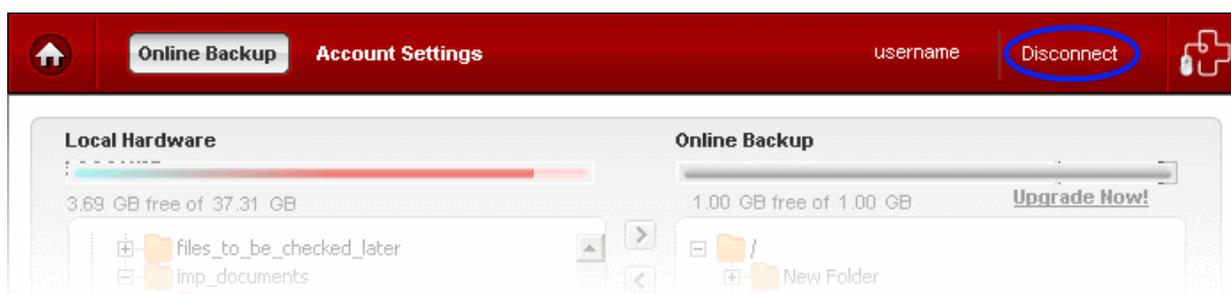
### To upgrade your online storage space

- Click the 'Upgrade now' link. You will be taken to the Comodo Online Storage Signup page.



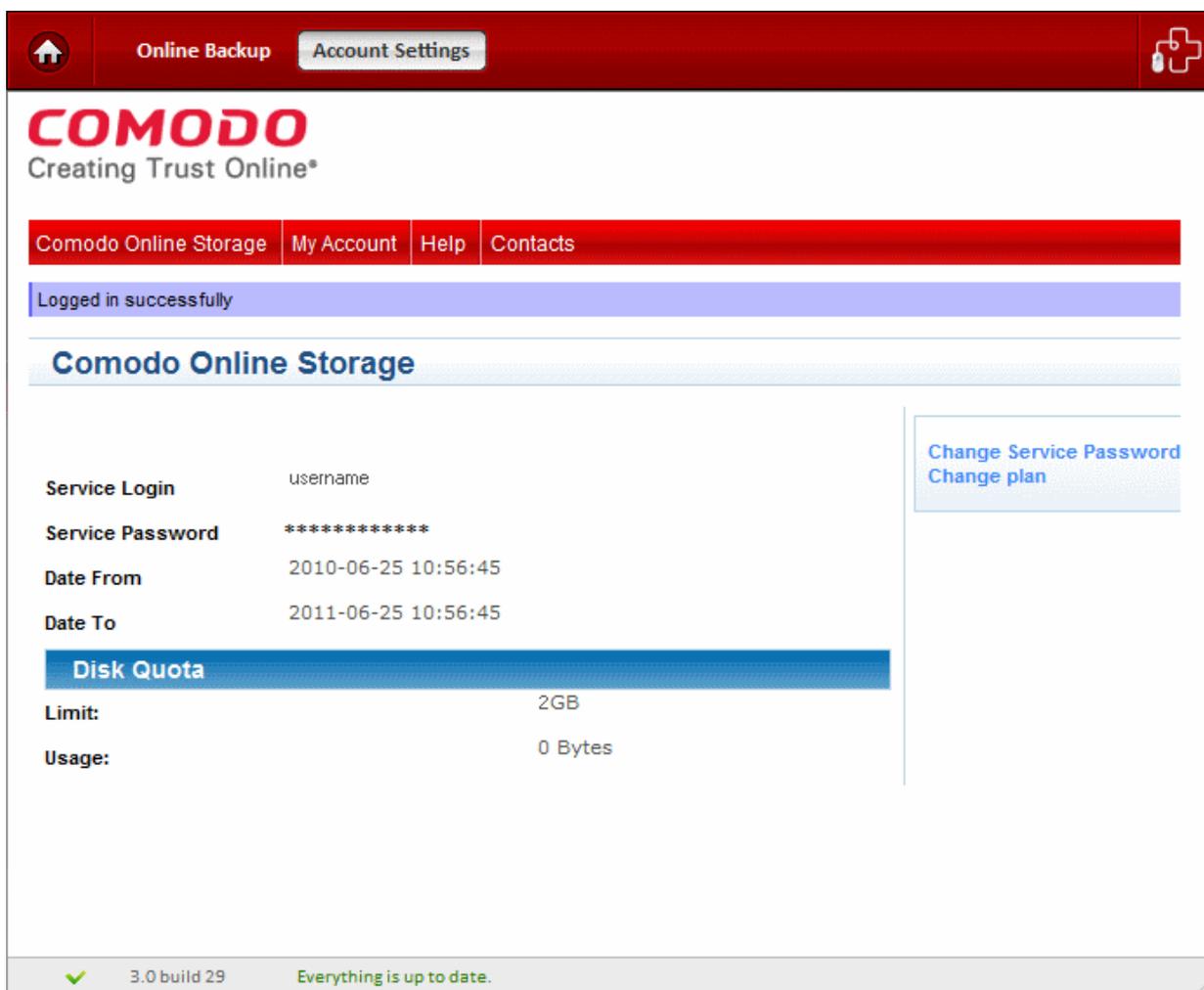
Refer to the section **Creating a New Online Storage Account** for more details on the Sign-up form. Select 'Existing User' in the user details area.

To logout, simply click the 'Disconnect' tab at the tab structure area.



## 5.3. Managing Your Account

The Account Settings area enables you to view your account details and change your Login username and password at anytime.



To access the Account Settings area, click the 'Account Settings' tab from the Online Backup interface.

The Accounts Settings contains four tabs:

- Comodo Online Storage;
- My Account;
- Help;
- Contacts.

By default, the Comodo Online Storage area will be opened, which displays your Comodo Online Storage account details like your validity period and the usage status of your online space. This area also allows you to upgrade your account for additional space and change your login password.

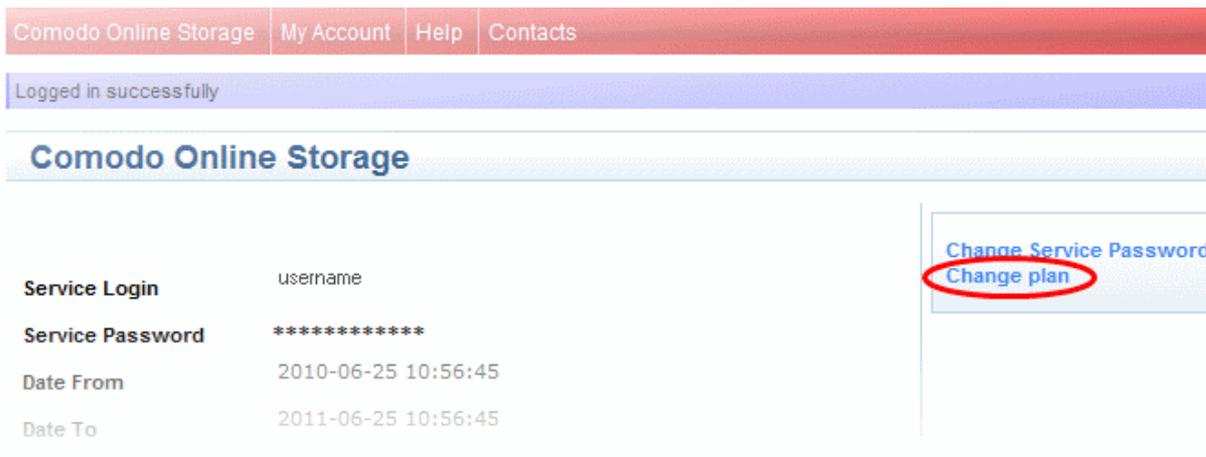
From this area, you can:

- [Change your service plan;](#)
- [Change your password.](#)

## 5.3.1. Changing Your Service Plan

You can upgrade your account for purchasing additional online storage space on Comodo Online Storage from the Comodo Online Storage area. To do so:

1. Click 'Online Backup' from the Left Hand Side Navigation pane.
2. Login to your account by entering your Username and Password.
3. Click 'Account Settings' > 'Comodo Online Storage'
4. Click the 'Change Plan' link in the right hand side pane.



You will be taken to the Comodo Online Storage Signup page.

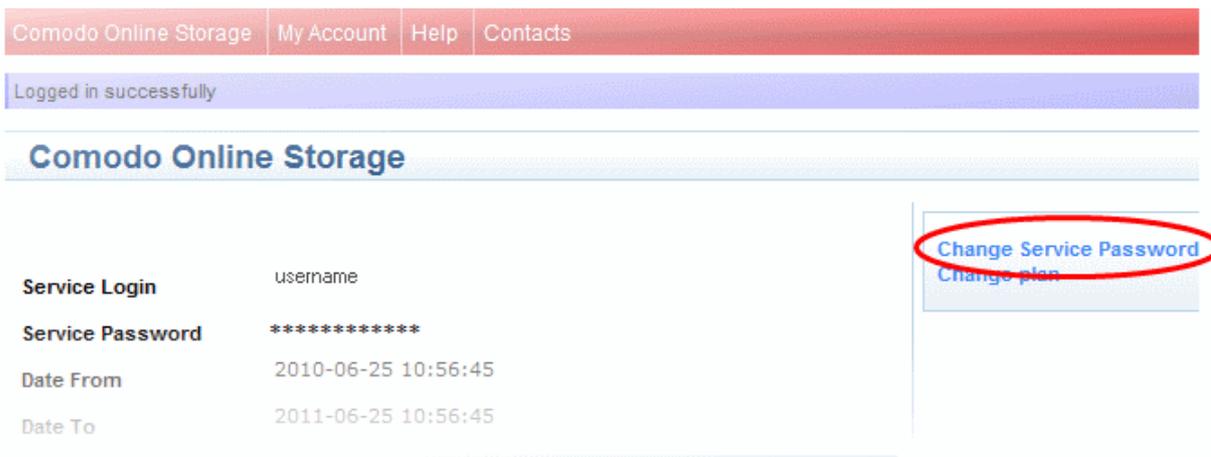


Refer to the section [Creating a New Online Storage Account](#) for more details on the Sign-up form. Select 'Existing User' in the user details area.

## 5.3.2. Changing Your Password

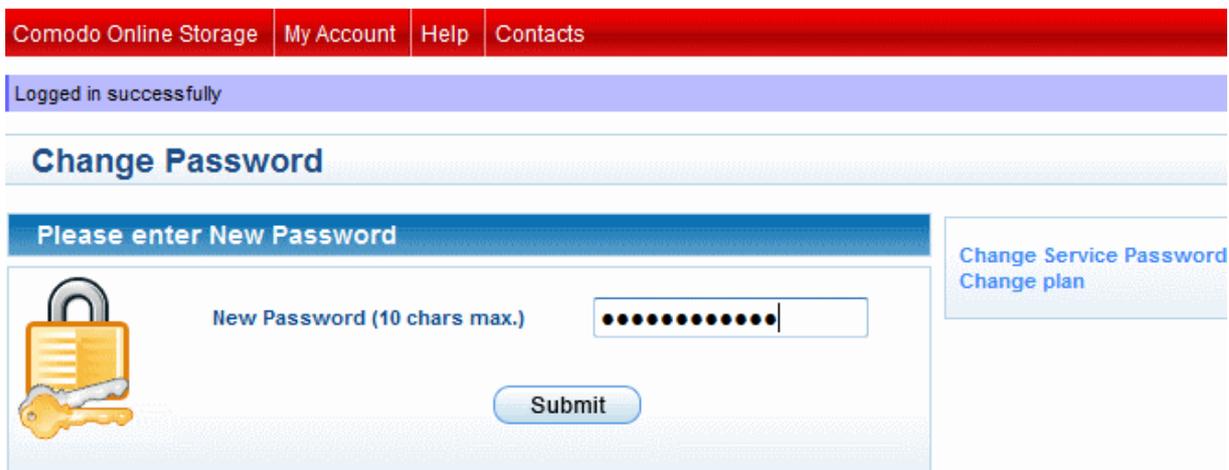
1. Click 'Online Backup' from the Left Hand Side Navigation pane.
2. Login to your account by entering your Username and Password.
3. Click Account Settings > Comodo Online Storage

4. Click the 'Change Service Password' link in the right hand side pane.



The 'Change Password' screen will appear.

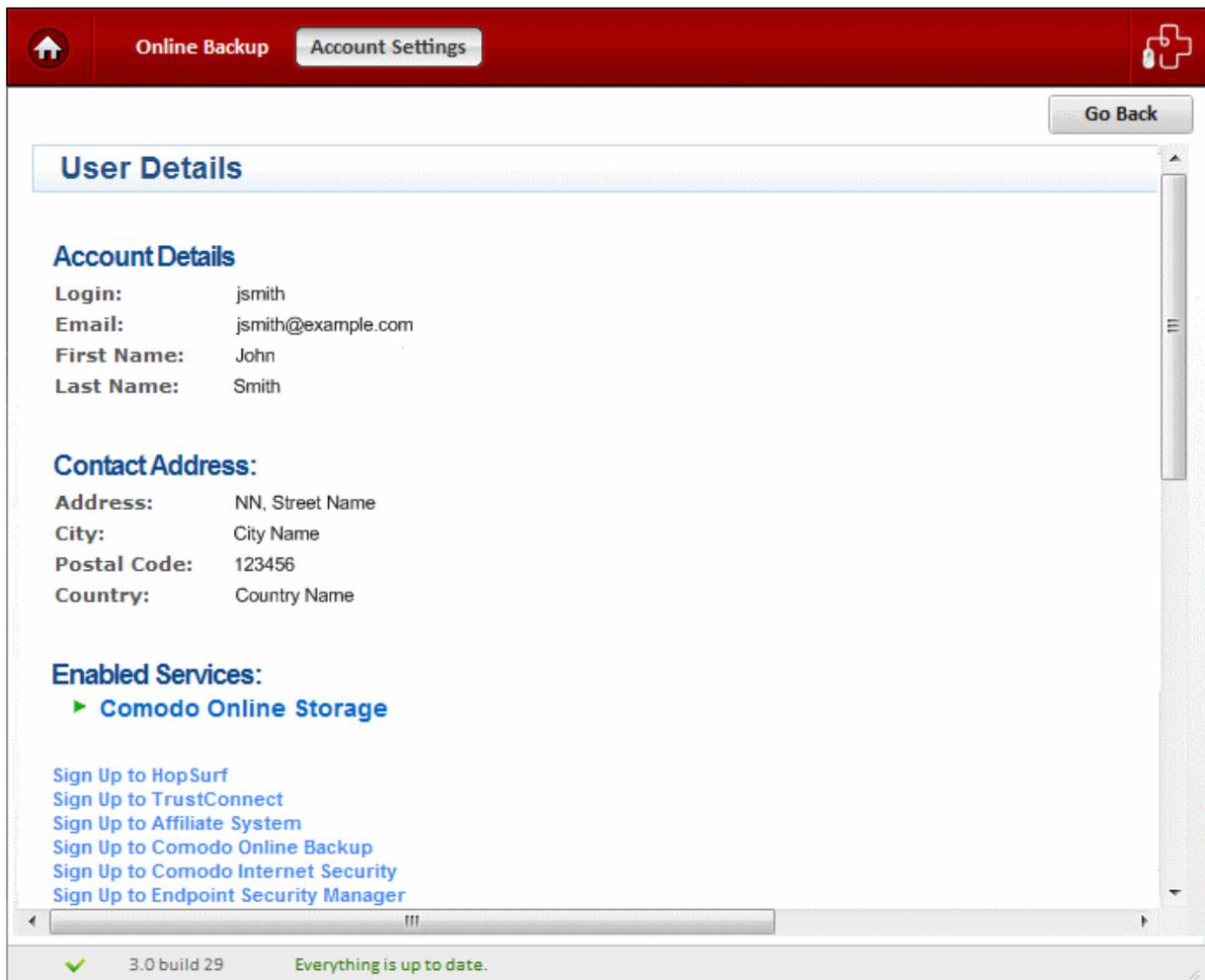
5. Enter your new password in the 'New Password' text box and click 'Submit'.



Your password attached to your account will be changed. You can use your new password from the next login onwards.

### 5.3.3. My Account

The 'My Account' tab displays the full details of your account with Comodo Accounts Manager.



This area also allows you to sign-up for other Comodo Products and Services.

## 5.3.4. Help

Clicking the Help tab takes you to Comodo's searchable knowledgebase and troubleshooter at <http://support.comodo.com>.



If you do not find a solution in our knowledgebase or troubleshooter, you can submit a support ticket after registering an account. Registration is free.

## 5.3.5. Contacts

Clicking the 'Contacts' tab takes you to the 'Contact Us' page.

The 'Contact Us' page contains telephone numbers and email addresses for contacting Comodo for purchasing Comodo Products and Services and to get Product Support.

## 5.4. Troubleshooting Login Problems

Problems logging into your Comodo Online Storage (COS) account via the Comodo Backup 3.0 interface could be because:

- You are attempting to log into your COS account using your Comodo Accounts Manager (CAM) username and password. Your password for COS is randomly generated and can be found inside your CAM account. If you signed-up for your COS account through Comodo Accounts Manager (CAM) at <https://accounts.comodo.com/>, then you need to enter the Service Login and Service Password. To find out how, see [Where is my COS Password ?](#)
- You are trying to access Comodo Online Storage using your Comodo Online Backup (COB) username and password. COS and COB are different account types and you cannot use your COB credentials for COS. We are currently working on migrating COB accounts over to COS but, in the meantime, please continue to use the COB client to access COB files (and not the Comodo Backup 3 software).
- If you signed-up for your COS account using the Comodo BackUp 3 software, then you have to use the service username/password. This is different from the username/password you specified during your account creation. Refer to [Logging-in to Your Account and Managing Files on Online Storage](#) for more details.
- You have forgotten your COS password. If so, click the 'Forgot Password' link in the GUI. See [Retrieving a forgotten password](#) for more details.

### Where is My COS Password?

If you have signed-up for your COS account through Comodo Accounts Manager (CAM) at <https://accounts.comodo.com/>, then you need to enter the Service Login and Service Password created for COS to access your online storage space.

**Important Note:** This is not the same password as your Comodo Account password that you specified during your account creation with CAM. This is a unique, random password that was generated during account creation to authenticate you to the COS servers.

## To know the service login username and service password

1. Login to your CAM account at <https://accounts.comodo.com/> using your username and password specified during account creation with CAM.



Help | Contacts | SignUp | Login

Welcome

Please enter your login and password

Login: John Smith

Password: ●●●●●●●●●●

Login

Create New Account  
Forgot Password

2. On successful login, click the Comodo Online Storage tab.

COMODO Creating Trust Online®

Welcome: John Smith

Comodo Online Storage | My Account | Help | Contacts | Logout

Comodo Online Storage

Service Login	johnsmith
Service Password	generated_password
Date From	2010-07-29 10:28:44
Date To	2011-07-29 10:28:44

Disk Quota

Limit: 1GB

Usage: 0 Bytes

Change Service Password  
Change plan

CAM v2.8

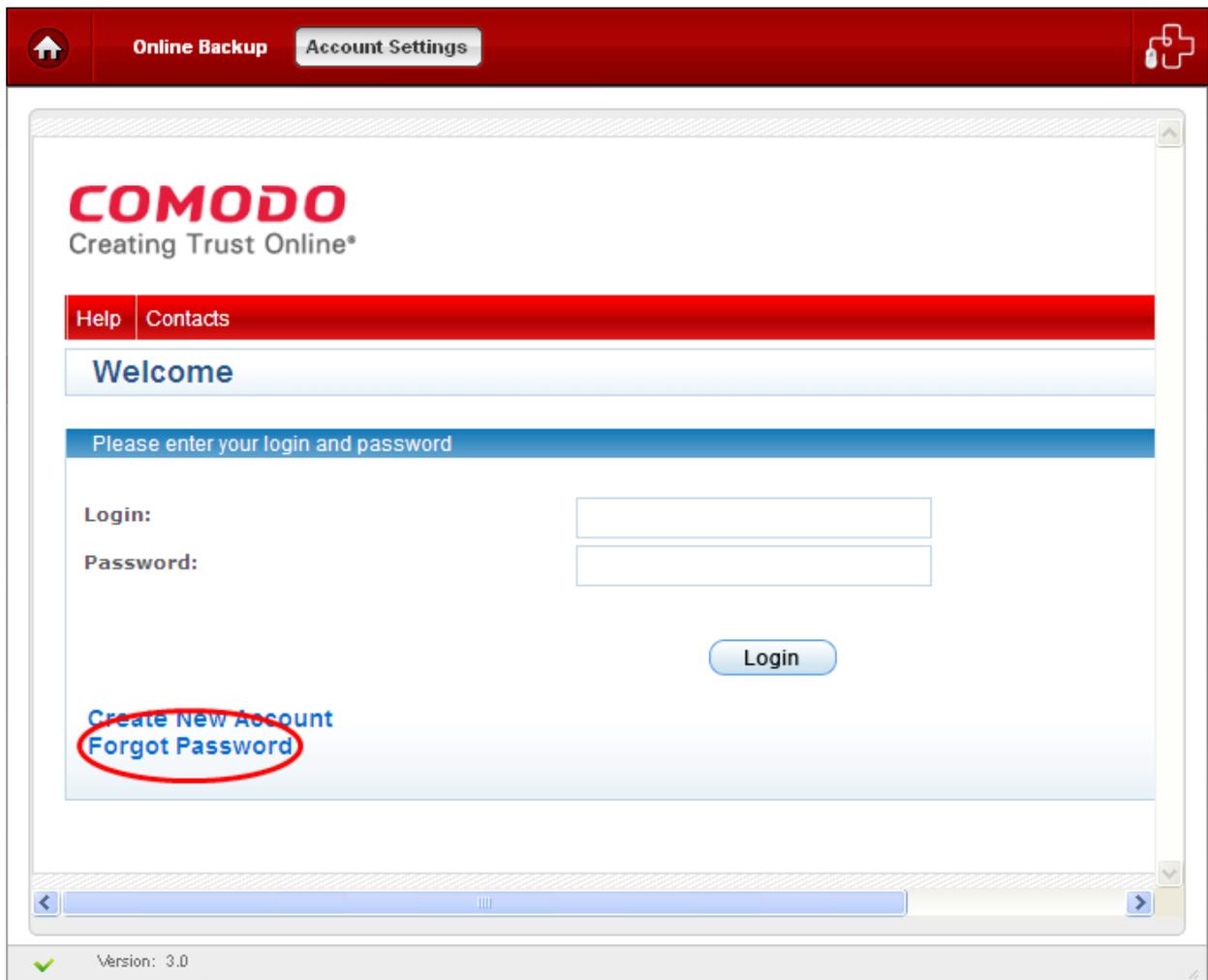
The Service Login and Service Password are displayed at the top left. You need to enter only these to access your online storage space through Comodo BackUp application.

If required, you can change this password to something more memorable by using the 'Change Service Password' button on the right. Refer to [Changing Your Password](#) section of this guide for more details.

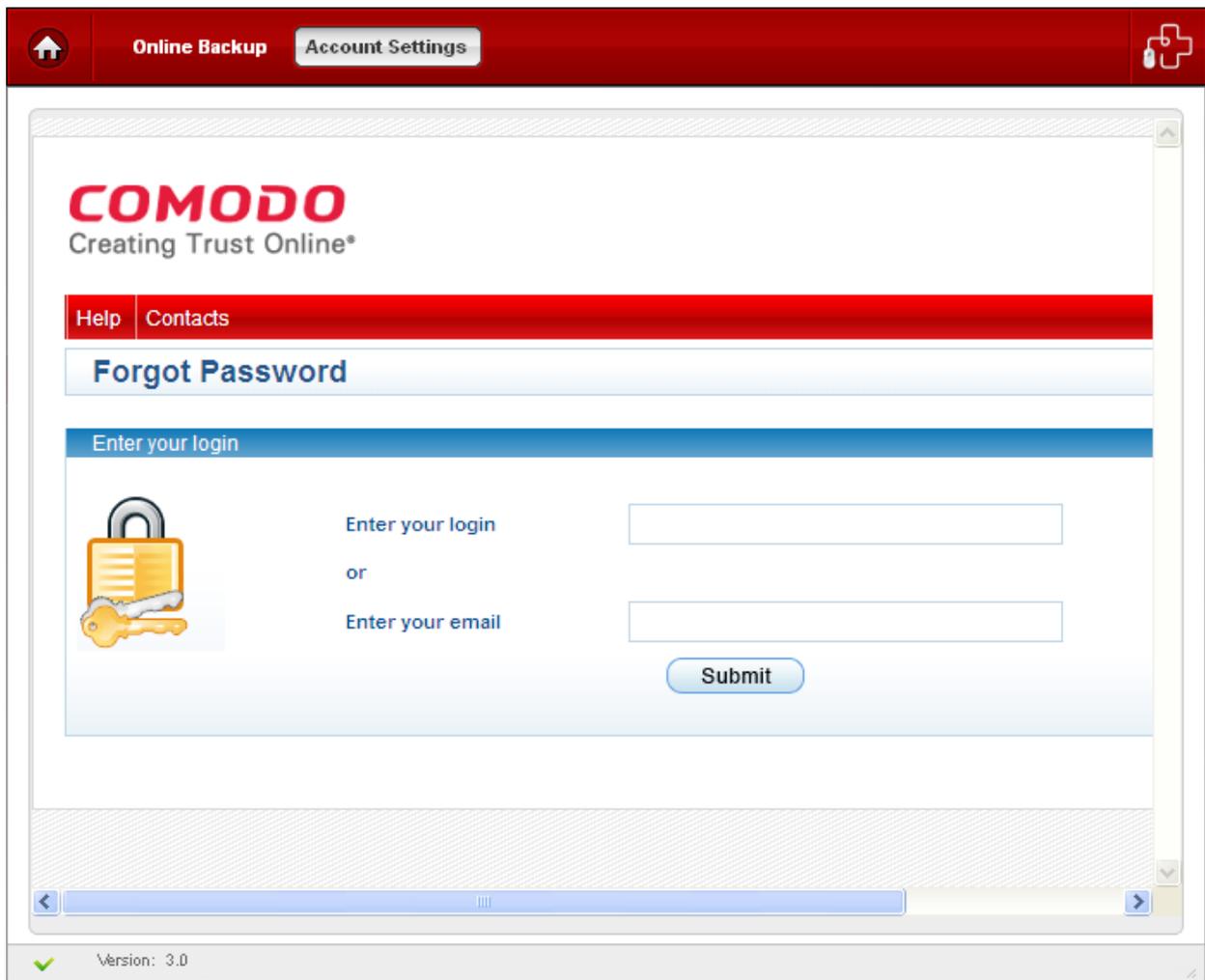
## Retrieving a Forgotten Password

If you have forgotten your password, you need not panic. Comodo BackUp enables you to change your password by sending an authentication email.

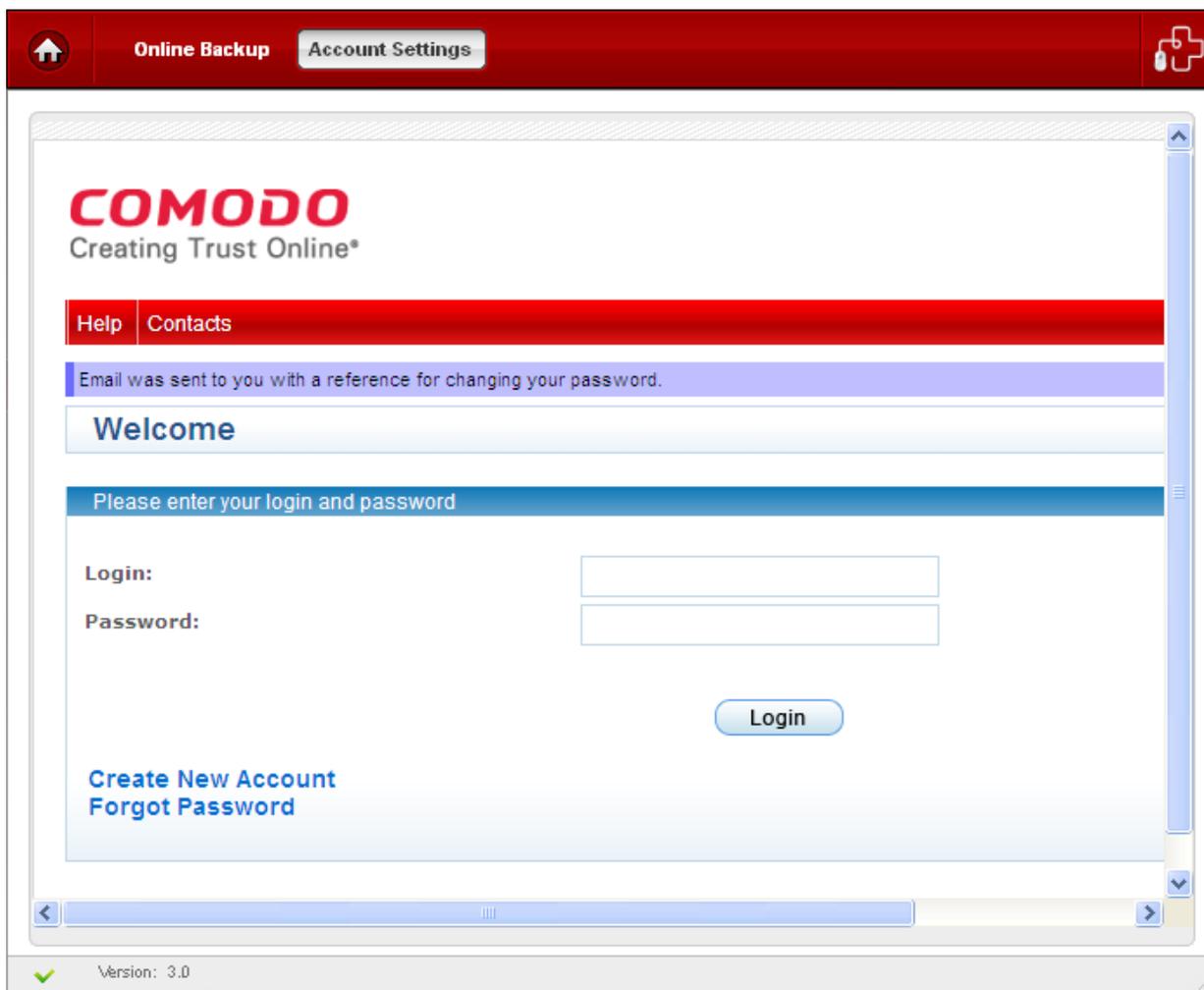
- Click 'Account Settings' tab in the Online Backup area of Comodo BackUp application...



and click 'Forgot Password' link at the bottom left corner.



- Enter your username and/or your valid email address (registered with your account) in the respective box(es) and click 'Submit'.



An email will be sent to the specified email address. Follow the instructions in the email to change your password. You will be able to login to your account with your new password.

## 6. Comodo BackUp Settings

The 'Settings' area in Comodo BackUp allows you to configure the miscellaneous settings concerning the overall behavior of the application.

To access the settings area, simply click the Settings tab from the title bar.



The 'Settings' panel will open.



## Settings

Select from the following options those you want to be used.

Password Protect Settings

Integrate into Windows Explorer Shell (right click menu)

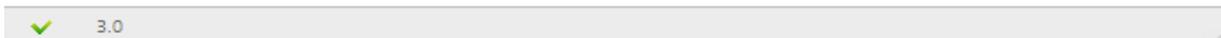
Default Backup Location

**Update Settings**

Automatically check for updates

Automatically update the software

Alert me whenever there is a new BETA version available



You can configure for the following in the Settings panel:

- [Password Protection Settings](#)
- [Integration to Windows Explorer](#)
- [Default Backup Location](#)
- [Program Update Settings](#)

### Password Protection Settings

You can protect the settings you have configured for Comodo BackUp from unauthorized access and modification by others by providing Password Protection. You will be asked for the password every time you open Comodo BackUp.

#### To provide a password protection

1. Select the 'Password Protect Settings' checkbox.

### Settings

Select from the following options those you want to be used.

Password Protect Settings

2. Type the password in the text box below 'Password Protection Settings'.
  - To disable the password protection, deselect the 'Password Protection Settings'.

### Integration to Windows Explorer

By default, Comodo BackUp application is integrated to Windows Explorer Shell, so that:

- you can directly start the backup operation of a drive partition, folder or file onto any desired location by right clicking on the item and selecting 'CBU Backup' from the context sensitive menu;
- you can directly start the backup operation of a drive partition, folder or file onto Comodo Online Storage by right clicking on the item and selecting 'Online Backup' from the context sensitive menu;
- you can directly start the restore operation of a backup file (file with .cbu extension) by right clicking on the item and selecting 'CBU Restore' from the context sensitive menu;
- You can directly mount a backup file as a virtual drive in your system by right clicking on the item and selecting 'CBU Mount' from the context sensitive menu;

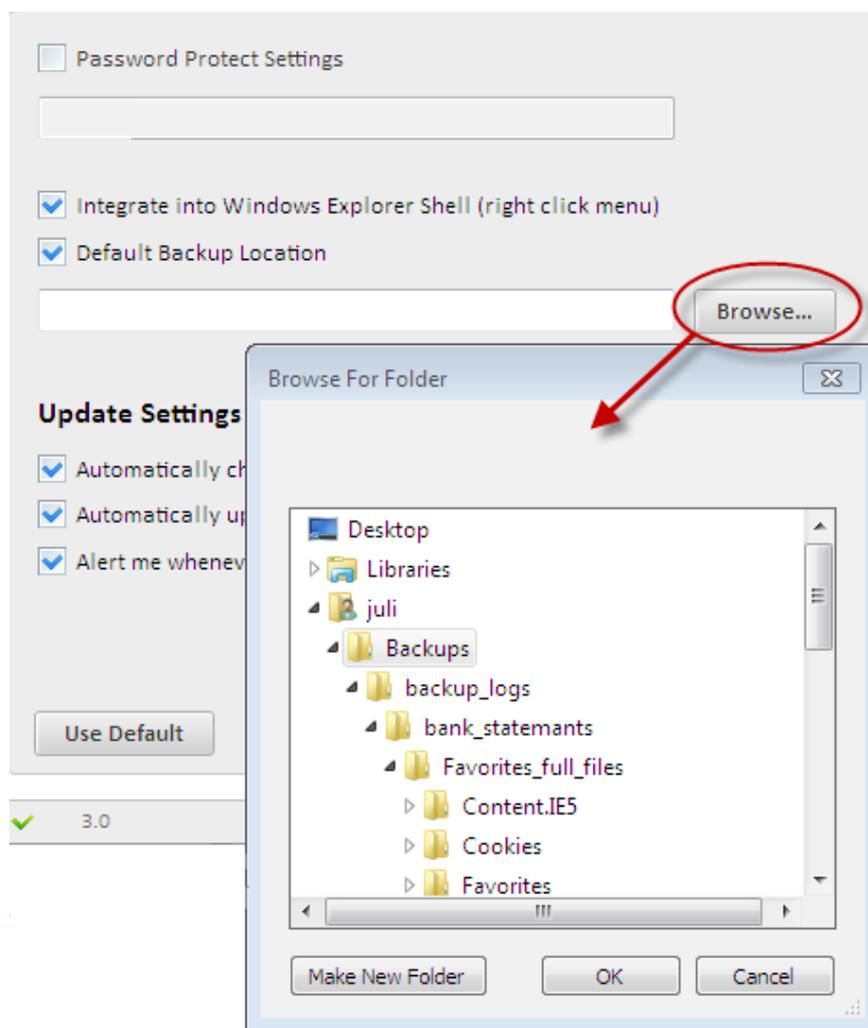
If you do not want to have CBU integrated to your Windows Explorer, uncheck the 'Integrate into Windows Explorer Shell (right click menu)' check box.

## Default Backup Location

Comodo BackUp allows you to define a default location for storing the backup files when using the predefined backup profiles. The application is shipped with a default location C:\Documents and Settings\Username\Backups\filename.cbu.

## To set a default location of your choice

1. Select the 'Default Backup Location' checkbox.
2. Click the Browse... button...



...and navigate to the location of your choice.

## Program Update Settings

- **Automatically check for updates at startup** - Starts the process of searching for latest updates for Comodo BackUp from the Comodo servers whenever the application is started and prompts you to download and install the updates, if available.

- **Automatically update the software** - Searches for latest updates for Comodo BackUp from the Comodo servers and starts the update process automatically without waiting for your confirmation.
- **Alert me whenever there is a BETA available** - Searches for the release of BETA version of Comodo BackUp and prompts you to download, whenever available.
- Click 'Apply' for your settings to take effect.
- Click 'Use Default' to clear your selections and rollback the applications to default settings.

## 7. Comodo BackUp Feedback

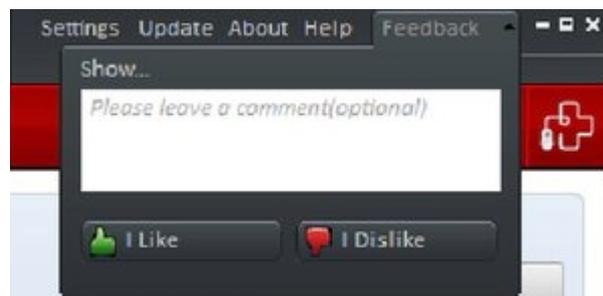


The feedback feature allows users bi-directional communication with the Comodo BackUp development community and can be used to quickly offer feedback, comments and suggestions about the software. The feedback feature is present throughout the application and allows you to simply register a Like/Dislike comment by clicking the appropriate button and (optionally) to send us a comment about your impressions of the software. If you do choose to leave a comment then any replies from the developers will be displayed within in the Comodo BackUp interface itself. Every message reaches our developers and Comodo makes great efforts to take every comment into consideration and to reply to our users. Developers and testers will interact directly with you through the application interface and suggestions for new features may well be implemented in future versions of the product.

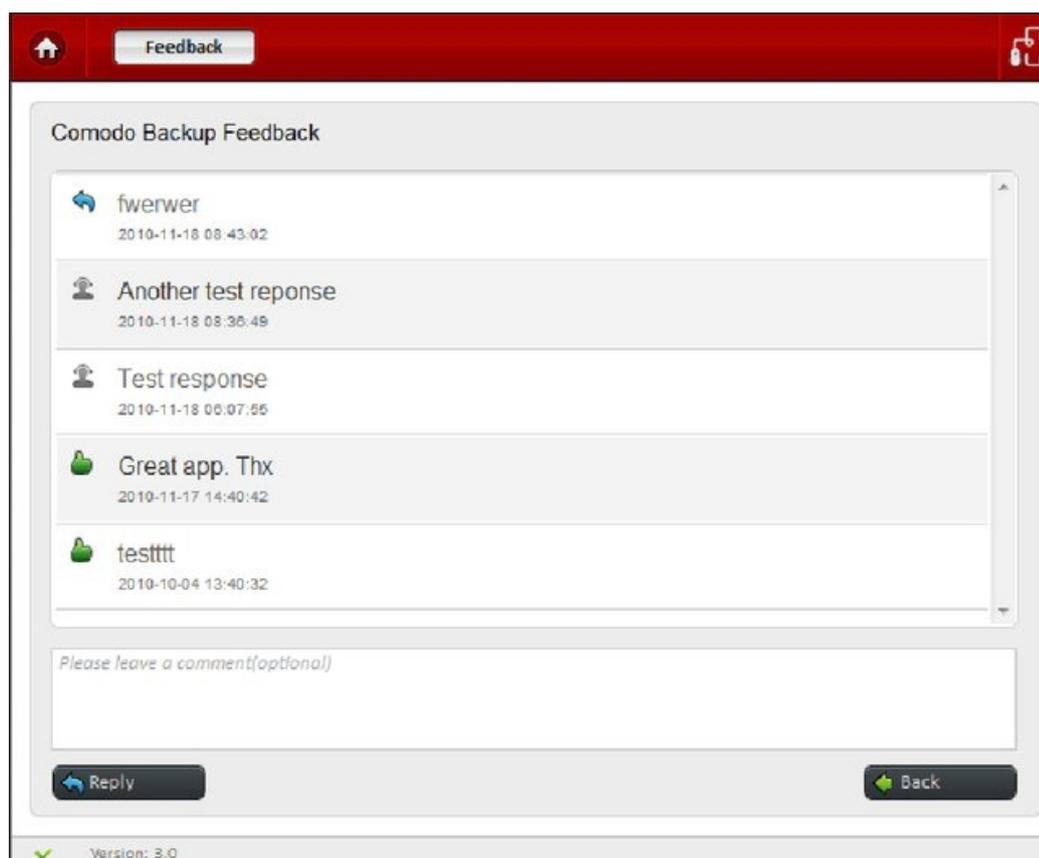
Integrating the ability to provide software feedback in such a direct fashion allows our users to raise issues and suggestions more quickly, improves our ability to resolve problems faster and ultimately allows us to produce a product that truly reflects the requests of our users.

### 7.1. How to leave Feedback

To open the feedback interface, simply click the 'Feedback' menu item at the top right of the Comodo BackUp interface (see screenshot below).

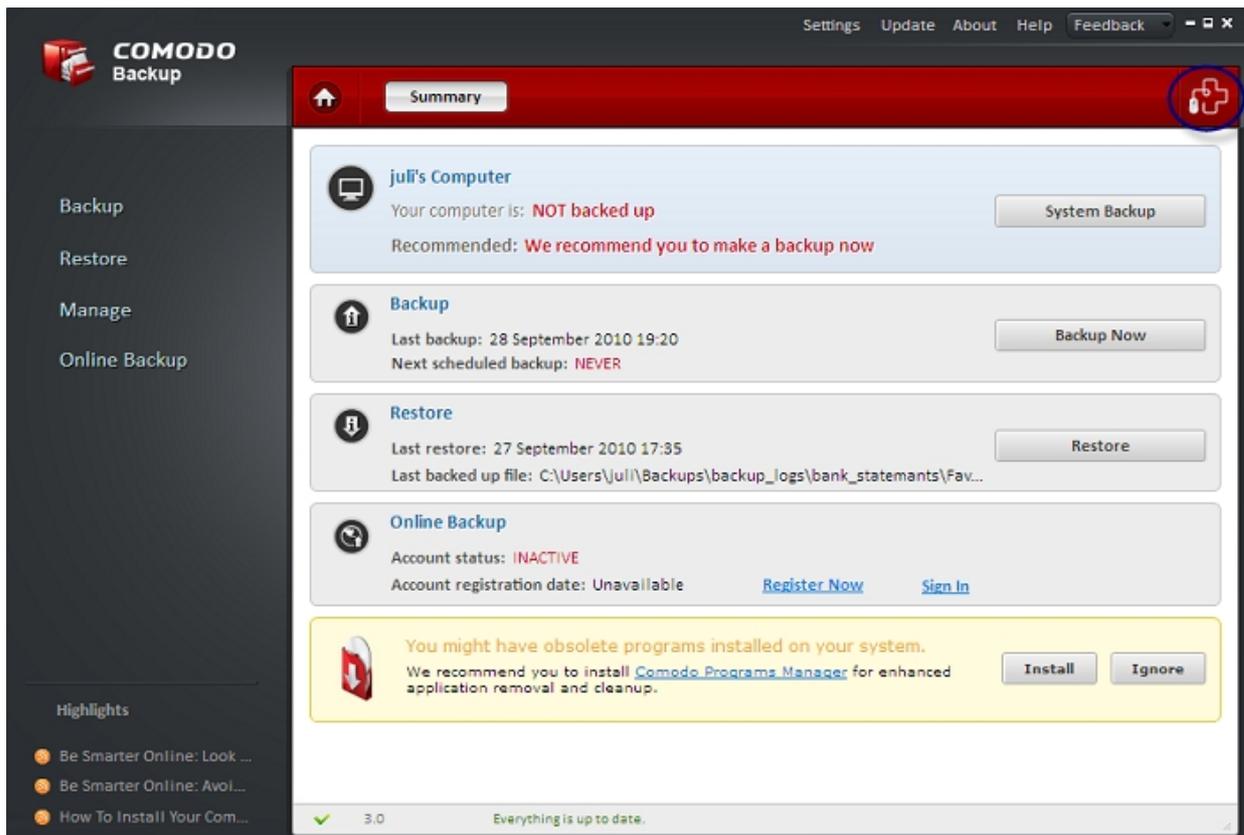


Click the 'I Like' or 'I Dislike' buttons to send a quick notice of your approval or disapproval with the application in general. If you would like to be more specific then please type a comment in the field provided before clicking the 'I Like' or 'I Dislike' button. Your message will be immediately sent to our developers. All feedback and responses, including your own, can be viewed by clicking the 'Feedback' button as shown below:



## 8. Using Live Help

Comodo Live PC Support is a remote assistance service offered by Security Experts in Comodo who can access your computer through their Remote Desktop. Should you need any assistance or encounter a problem with your system, you can get an immediate solution from our computer experts by clicking the Live PC Support tab from the Main interface of Comodo BackUp.



For more details, refer to:

[Installing Live PC Support Client;](#)  
[Launching and Using the Service.](#)

More details on Live PC Support can be found in [Appendix 2 Live PC Support](#).

## 8.1. Installing Live PC Support Client

Getting the Live PC Support service requires the Live PC Support client installed in your system.

### To install the Live PC Support client

- Click the **Live PC Support** tab from the Main Interface. The application detects whether the client is installed in your system. If not, a prompt dialog is displayed to check whether you want to download and install the client. Click 'OK' to continue.

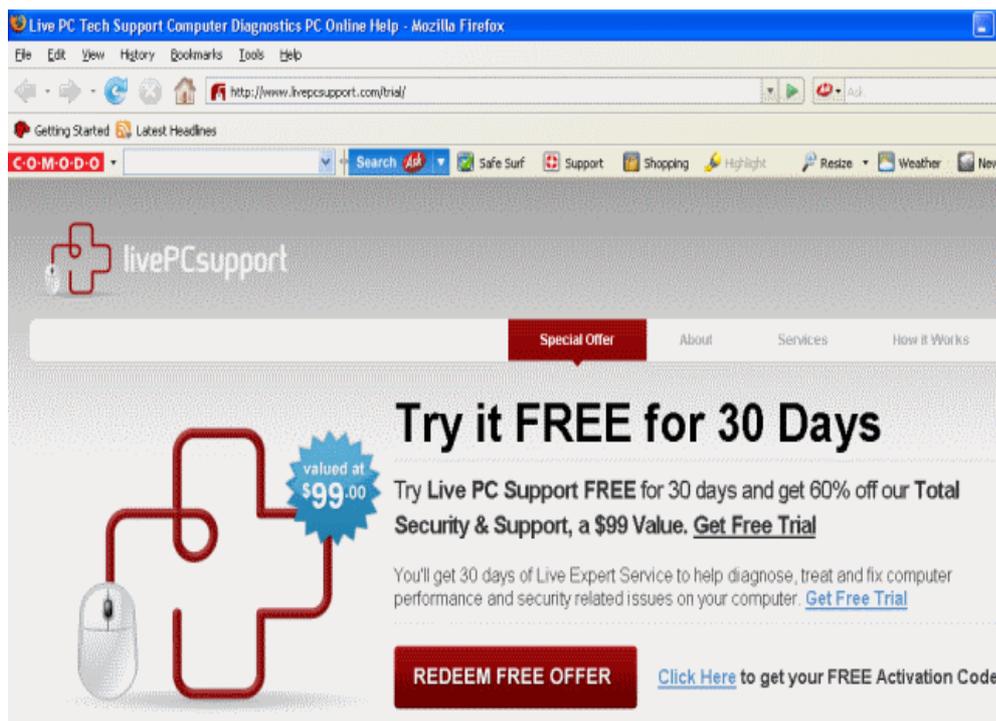


The client is automatically downloaded and installed. The shortcut icon  appears on your desktop and a Live PC Support quick launch icon  appears in the system tray. The installation is a one time process. Once installed, clicking the **Live PC Support** tab or the desktop shortcut icon automatically launches the application enabling you to chat with a Comodo Computer Support Technician any time.

In order to get the livePCsupport services, you need to sign up for a 30 day free trial account.

### To sign up for a 30 day free trial

- visit <http://www.livepcsupport.com/trial/>



- Click on [Click Here](#) link to get your Free Activation Code and follow the sign up procedures. Your subscription ID is sent to you by email.

## 8.2. Launching and Using the Service



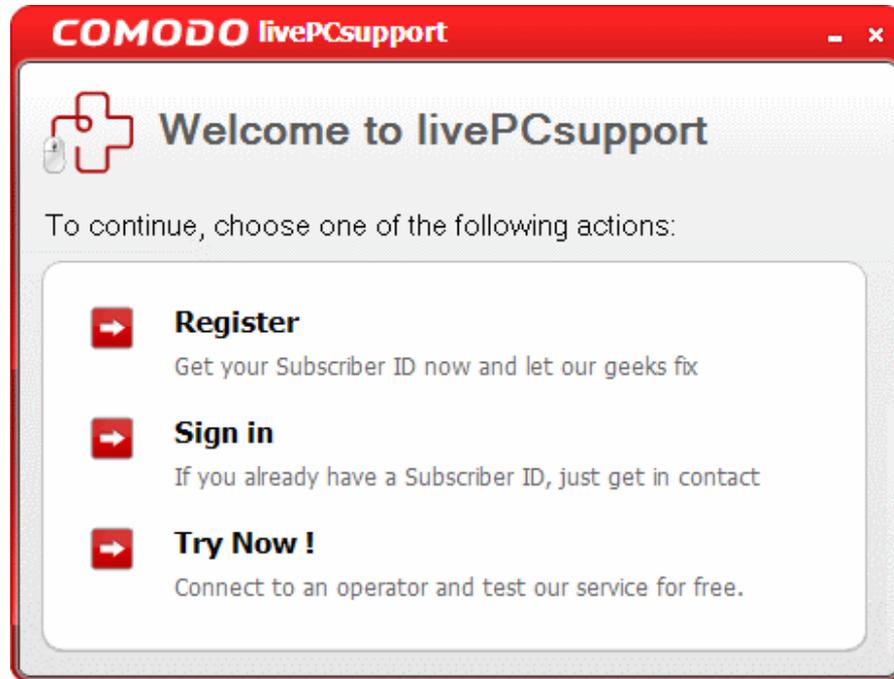
- Click the **Live PC Support** tab from the Main Interface.
- Double click on the shortcut icon to livePCsupport from the desktop;
- Click on the 'livePCsupport' system tray icon or launch livePCsupport from the Start Menu. Click 'All Programs > COMODO > LivePCsupport > Comodo LivePCsupport'.



The Live PC Support options dialog will be displayed.

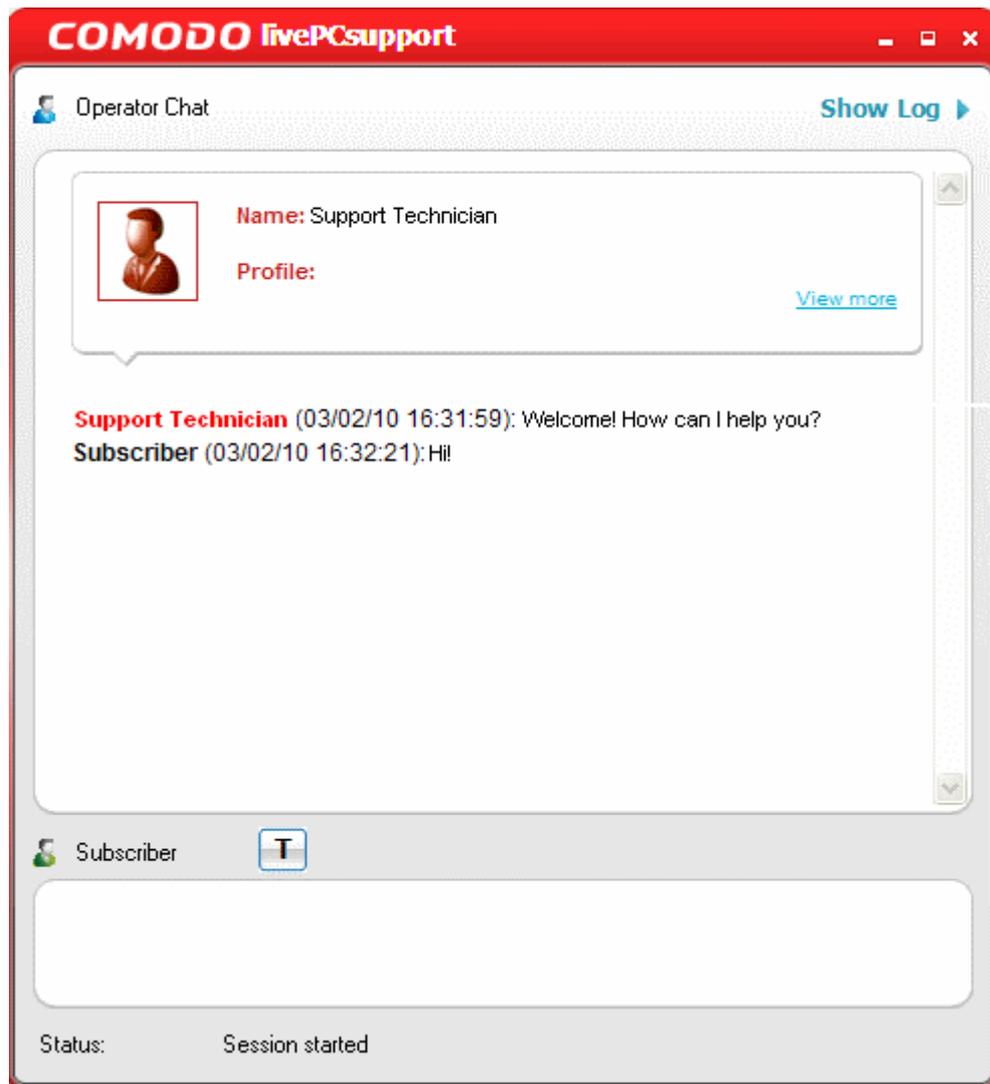
Select the type of service you need:

- **Other** - Select if you need assistance in removing registry errors, privacy issues, junk files, and other Windows/System related problems.
- **Virus Infection** - Select if you need assistance in removing viruses, malware etc. from your system.



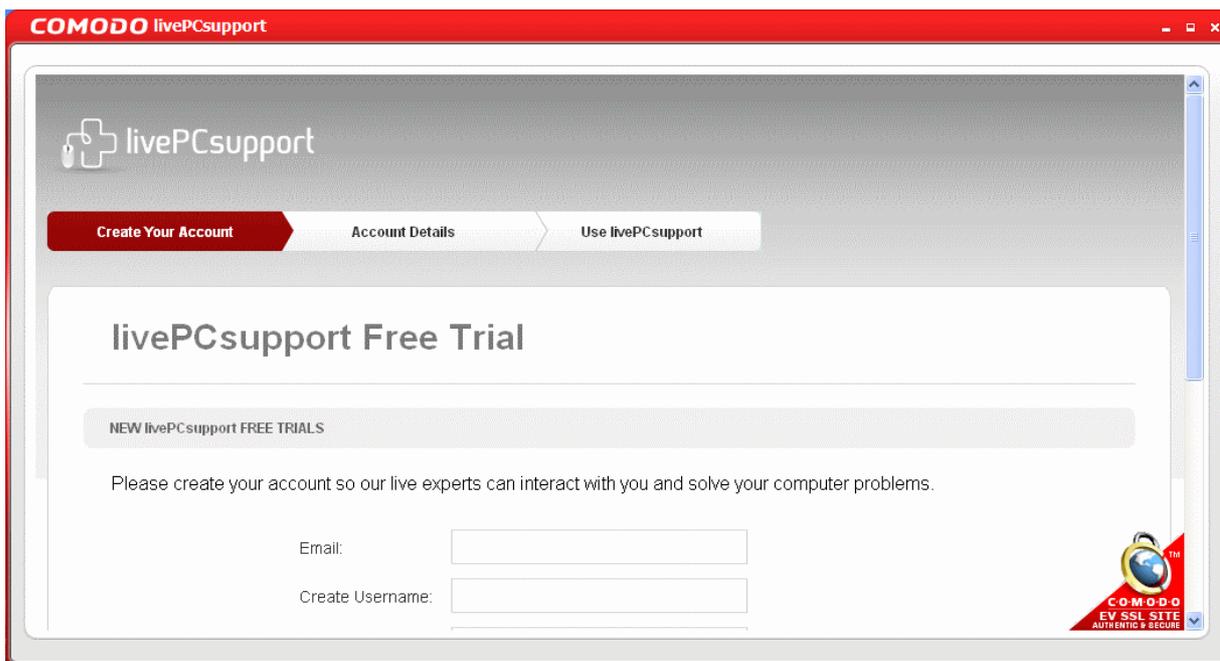
You will be connected to the technician skilled in the specific area. Clicking any of the options will open the registration screen.

**Try Now** - The easiest and fast way to get the services is by clicking the 'Try Now!' link. Within seconds, a Comodo Support Technician will respond in a chat window and ask you to describe the problem.



Explain the problem in your computer. The technician will access your computer through a remote desktop and fix the problems. The trial service does not require a subscription.

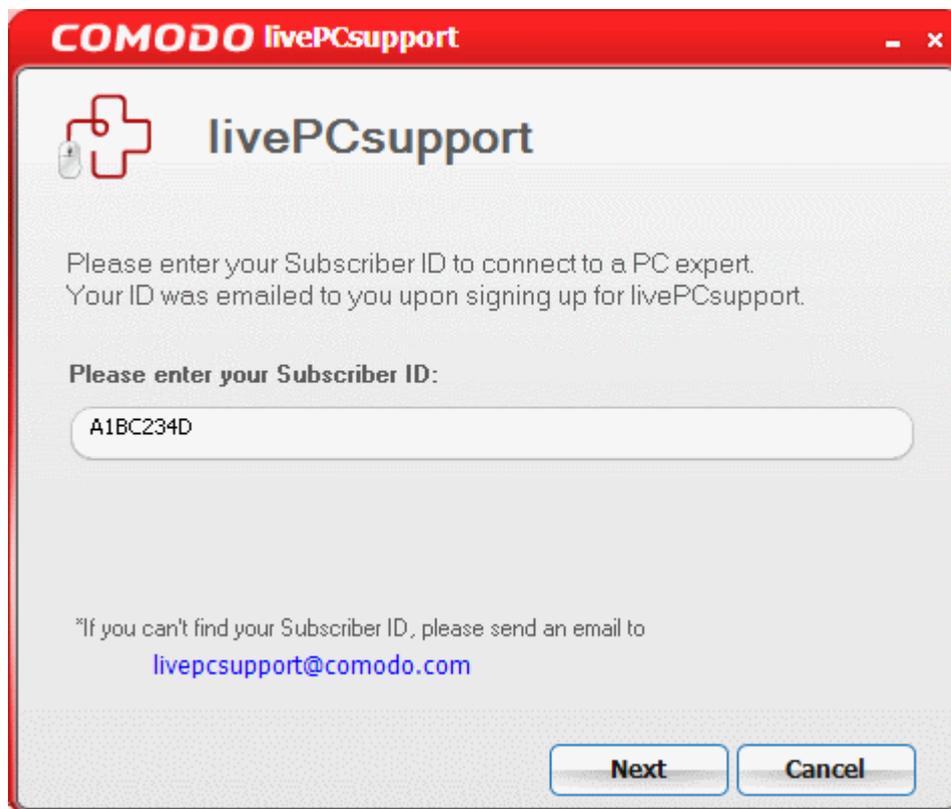
**Register** - Clicking the 'Register' link will take you to the LivePCSupport trial sign-up page.



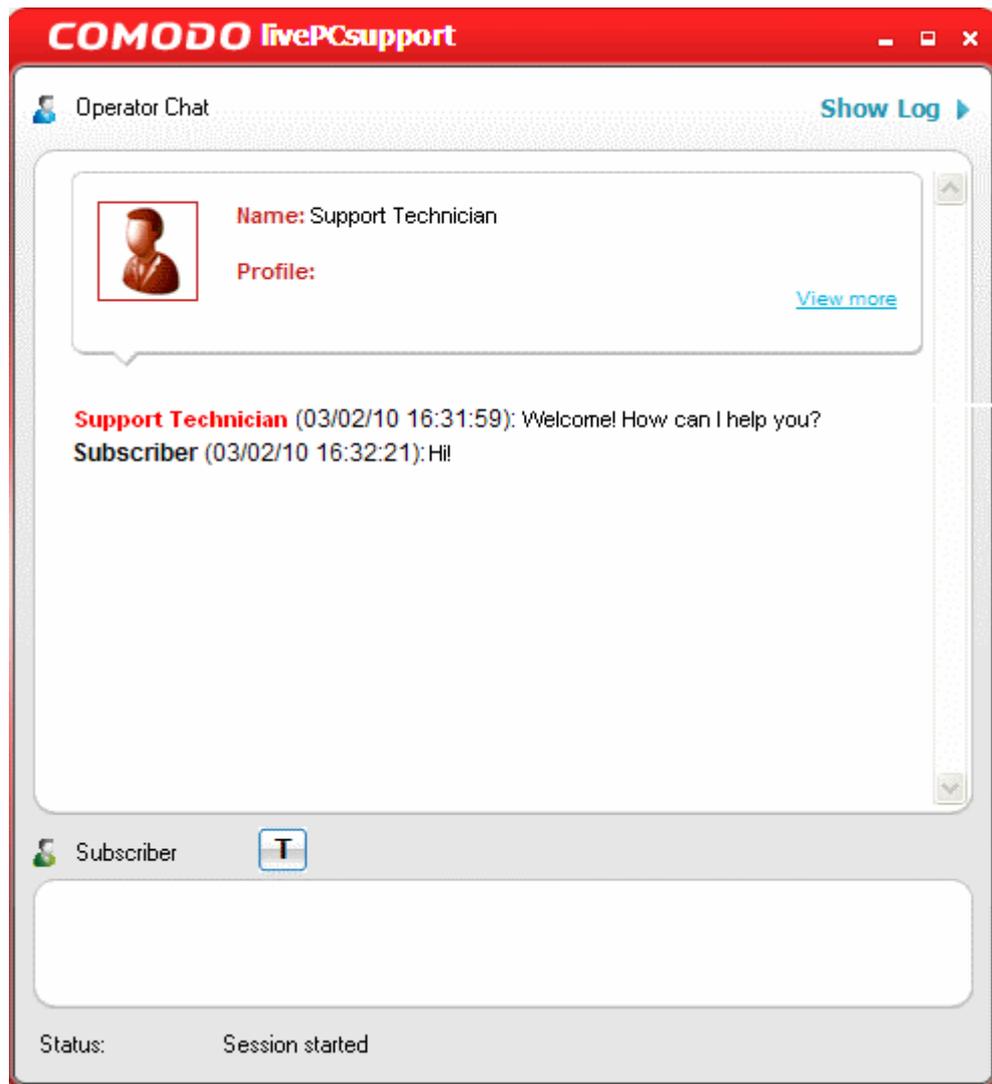
- Follow the sign up procedures. Your subscription ID will be sent to you by email.

**Sign-in** - Click this button if you already have a subscription ID. At the login box:

Enter the Subscription ID you received through email...



...and click 'Next'. Within seconds, a Comodo Support Technician will respond in a chat window and ask you to describe the problem.



Explain the problem in your computer. The technician will access your computer through a remote desktop and fix the problems.

## 9. Using the Command Line Interface and Script Files

Comodo Backup allows users to operate its backup, restore and scheduling functionality from the Windows command line interface. Command lines (and sequences of command lines) for backup and restore tasks can also be saved as a script file (.txt format) which can be called to execute the task from the command line interface.

### To access the Windows command line interface

- Click Start > All Programs > Accessories > Command Prompt.

or

- Click Start > Run, type 'cmd' in the Run interface and click 'OK'.

Click the links below for more details on the tasks executed from the Command Line Interface:

- [Running a Backup Task from the Command Line Interface](#)
- [Running a Restore Task from the Command Line Interface](#)
- [Running a Scheduled Backup Job Instantly from the Command Line Interface](#)
- [Running Backup/Restore Tasks using Script Files](#)

### 9.1. Running a Backup Task from the Command Line Interface

- Open the Windows command line interface
- Commands are specified in the format

```
<installation path>/ <executable>/ <command #1> <command #2>
```

So the path to the executable is followed by commands for the configuration of the backup task in sequence with space between each switch command. For example, if Comodo Backup has been installed to the default directory, the format would be:

```
C:\Program Files\COMODO\COMODO BackUp\CBU.exe /command#1 /command#2.
```

**Note:** The Commands and the arguments are not case sensitive and can be arranged in any order.

#### Table of backup commands and arguments

Backup Commands and Arguments	
Command / Argument	Description
/backup_operation	Standard backup operation command.
/backup_type <backup type>	Specifies the type of backup. Can be full , incremental or differential backup.

Backup Commands and Arguments	
/parent_backup_storage_type <destination type>	Specifies the destination type of the parent backup if any. (Use for incremental and differential type backups). Parameters same as for /destinationType command.
/parent_backup_path <full path>	Specifies the full path for the parent backup file if any. (Use for incremental and differential type backups). Encapsulate in quotes.
/parent_incremental_snapshot_no <number>	Specifies the incremental snapshot number from the parent backup (for backup containing multiple snapshots). This command is optional.
/parent_backup_connection_password <password> and /parent_backup_connection_username <user name>	Specifies for incremental and differential backups that have parent backups on destinations like Ftp or Comodo Online Storage. Encapsulate the parameters in quotes.
/type <backup source type>	Specify the backup source type. It can be one of the following: 'disk' - To backup an entire disk. 'partition' - To backup a disk partition. 'filesandfolders' - To backup selected files or folders. 'regkeys' - To backup selected registry keys and values. 'entirereg' - To backup the entire registry. 'user' - To backup Windows system settings configured by the user and all user related files like files in 'My Documents', 'My Pictures' etc. 'email' - To backup emails in your inbox and client settings of your email clients like Mozilla Thunderbird, Eudora, Microsoft Outlook 2003, Microsoft Outlook 2007, Windows Live Mail, Outlook Express etc. 'messenger' - To backup messenger archive like the history of all conversations, conferences, calls, etc. of Instant Messenger (IM) clients like Windows Live Messenger, Skype, Yahoo! Messenger and Pidgin. 'system' - To perform a system state backup. All the folders and files that are installed with the version of Windows currently in-use, are copied. This includes all the user settings, registry, all user accounts, etc. For example, If the Windows is installed on drive C:\ then this can backup 'C:\WINDOWS', 'C:\Users', 'C:\Program Files' and all files on 'C:\' that are necessary for Windows to boot.
/source <actual source>	Specify the actual source data to be backed up. Depending on the source type selected the <actual source> can be one of the following: disk backup - 'diskN' where N is an integer number representing the disk number. (E.g. /source disk3) partition(s) backup - A list of the partition(s)'s drive letters separated by commas ',' . (E.g. /source E, F) files and folders backup - A list of paths of the files or folders separated by ' ' (within the the quotation marks). (E.g. /source 'C:\folder ID:\123.txt   ...   ...' ) custom registry keys backup - A list of the keys to be backed up with in the quotation marks. (E.g. /source 'HKEY_LOCAL_MACHINE\SYSTEM\123   ...   ...' ) If one of the path represents a value rather than a key , prefix 'V' before the path (E.g. 'VHKEY_LOCAL_MACHINE\Software\value2'). entire registry backup - No need for specifying because there can only be one source. user settings backup - No need for specifying because there can only be one source. email backup - A list of email clients using the predefined macro's : THUNDERBIRD

Backup Commands and Arguments	
	<p>(for Mozilla Thunderbird), EUDORA(for Eudora), WL_MAIL(for Windows Live Mail), OUTLOOK2003 (for Microsoft Outlook 2003), OUTLOOK2007 (for Microsoft Outlook 2007), OUTEXP (for Outlook Express), W_MAIL(for Windows Mail). (E.g. /source OUTLOOK2003)</p> <p>instant messenger backup. A list of instant messengers using the predefined macro's : YAHOO_MESS (for Yahoo Messenger), SKYPE (for Skype) , WL_MESS (for Windows Live Messenger), PIDGIN (for Pidgin). (E.g. /source SKYPE, WL_MESS)</p> <p>system backup. No need for specifying because there can only be one source.</p>
/backupStepSize <backup step size>	Specify this only for disk or partition backup. (Eg. /backupStepSize 65536).(valid values are: 65536, 131072, 262144, 524288 and 1048576 ). This command is optional. Default value is 65536;
/backupFreeSpace	Specify this only for disk or partition backup, if you want to backup the free space in the selected disk or partition. Including the free space in the backup enables to recover even deleted files from the drive upon restoring the backup, using your preferred file recovery software. This command is optional.
/simpleCopy	Specify this for files and folders if you want to preserve the backup copy of the file in the original file format. This command is optional.
/simpleCopyToZip	Specify this if you want the files and folders type backup to be saved in zip format. Optional. Default vaue is FALSE(cbu format).
/syncSimpleCopy <updateInterval>	Specify this only for files and folders if you want to preserve the backup copy of the file in the original file format and to update it along with the source. Set the update interval in minutes so that Comodo BackUp checks the source file for updates at the set interval and update the copy if any update is found. (E.g. /syncSimpleCopy 5) This command is optional. If this option is enabled /scheduleTask is not available.
/selfExtracting	Specify this if you want the backup to be stored as a self extracting .cbu file. Available for files and folders and regisry entries type backup. Optional(default backup type is .cbu format).
/regFile	Specify this for only for custom registry backup, if you want to preserve the backup in .reg format.
/backupRegAttributes	Specify this for only for custom registry backup, if you want to the backup security attributes too. This command is optional.
/exclusionFilter <filters>	Specify this only for files and folders if you want to exclude certain file types from being backed up. Provide a list of file types using wildcard characters separated by ' ' within the quotation marks. (E.g. /exclusionFilter '*.bak *a*!...'). This command is optional.
/inclusionFilter <filters>	Specify this only for files and folders if you want to include only certain file types to the back up. Provide a list of file types using wildcard characters separated by ' ' within the quotation marks. (E.g. /exclusionFilter '*.txt *a*!...'). This command is optional.
/compressionLevel <level>.	Specify this to set the compression level for the backup file. The options available are low, medium, high and maximum. Higher the compression level, lower the disk space requirement. This command is optional. Default value is no compression.

Backup Commands and Arguments	
	<p>(E.g. /compressionLevel medium)</p> <p><b>Note</b> - This option is not available for /simpleCopy and /syncSimpleCopy commands.</p>
/encryptionPassword <actual password>	<p>Specify a password, if you want to encrypt your backup. Include the password within quotation marks. (E.g. /encryptionPassword 'password'). This command is optional. The file is not encrypted by default.</p> <p><b>Note</b> - Providing a password protection requires the password to be entered while restoring the backup and also encrypts the backup with an encryption algorithm you choose. This is useful when you are creating a backup job for your confidential files/folders.</p>
/encryptionAlgorithm <encryption algorithm>	<p>Select an algorithm to be used for encrypting your backup. The options available are AES, Serpent, XOR, Blowfish, DES, 3DES, Twofish. Include the selected algorithm within quotation marks. (E.g. /encryptionAlgorithm 'Serpent'). If this command is not specified but /encryptionPassword is specified, then the default algorithm is AES.</p> <p>For more details on the Encryption Algorithms, see <a href="#">Appendix 1 Encryption Algorithms</a>.</p>
/reCheckPassword	<p>If this command is set, the encryption password is asked every time when the scheduled backup is executed. This is equivalent to un-checking the "Remember backup password (unsafe)" check box in the Schedule Settings GUI of <b>Step 3</b> during <b>creation of the backup job in advanced mode</b>.</p>
/split <split size>	<p>Specify this command if you want to split the backup into smaller segments. This is useful when you are taking backups of very large sizes, in removable media like CD's, DVD's, ZIP drives, USB drives etc. You can set the maximum files sizes of the segments to fit to the media you choose. The files can be rejoined while restoring the backup. Minimum size is 5 MB. This command is optional. The backup file is not split by default.</p>
/locked_files_treatment <treatment>	<p>Specifies the handling type of locked files(in use etc.) . Can be vss, rawread or skip. This parameter is optional. Default value is vss.</p>
/description <description>	<p>You can provide a description for the backup like the purpose of the backup etc. This description is displayed on the 'History' panel of Comodo BackUp interface to remind you on the purpose of backup etc. Include the description within the quotation marks. (E.g. /description 'this is my first backup').</p>
/destinationType	<p>Specify the type of destination. The options available are:</p> <p>/destinationType Disk File or /destinationType1 (for storing the backup in your hard drive locally);</p> <p>/destinationType Ftp or /destinationType 3 (for storing the backup in a FTP location);</p> <p>/destinationType Network or /destinationType 7 (for storing the backup in a network computer).</p>
/destinationPath <backup destination>	<p>Specify the destination for the backup file within quotation marks .(E.g. /destinationPath 'D:\backup\file.cbu' (local storage), /destinationPath '\\user1\upload\backup.cbu' (network destination), /destinationPath 'ftp://ftp.funet.fi/pub/standards/folder/backup.cbu' (ftp server destination))</p>
/remote_username <user>	<p>Specify the user name for a network or ftp backup destination. Include the user</p>

Backup Commands and Arguments	
name>	name within quotation marks. This command is required only if the remote computer / ftp server requires a username. (E.g. /remote_username 'user1')
/remote_password <password>	Specify the password for a network or ftp backup destination. Use in conjunction with /remote_username. This command is only required if the remote computer / ftp server requires a password. (E.g. /remote_password 'password')
/emailNotification	Set email notification to be sent. The Command is optional. No notification is sent by default.  Comodo BackUp can send email notifications on execution of each backup job. You can configure CBU to send notifications to yourself, or create a mailing list of other people like your team members, to be informed of the backup. You can also configure whether the email notifications are to be sent only on successful creation of backup, only on failure or both.
/onSuccess	Specify to Send email on successful backup operation. Used in conjunction with /emailNotification.
/onFailure	Specify to Send email if the backup operation fails. Used in conjunction with /emailNotification.
/smtpServer <smtp server>	Specify smtp server for email notification. (E.g. /smtpServer my.outgoing.server.com)
/subject <email subject>	Specify the subject of the email to be sent on success or failure. Used in conjunction with /emailnotification. (E.g. /subject 'CBU Notification')
/sender <email address of sender>	Specify the email address of the sender of the email notification. Used in conjunction with /emailnotification. (E.g. /sender 'yourname@yourdomain.com')
/recipient <email address of recipient>	Specify the email address(es) of the recipient(s) of the email notification. Used in conjunction with /emailnotification. (E.g. /recipient 'user1@domain.com, user2@someemail.com')
/emailUsername <user name>	Specify the user name for email notification. Include within quotation marks. Used in conjunction with /emailnotification. (E.g. /emailUsername 'yourusername')
/emailPassword <password>	Specify the password for email notification. Include the password within quotation marks. Used in conjunction with /emailnotification. (E.g. /emailPassword 'password')
/runTaskBefore <path>	Set a task to be executed before the execution of the backup job. Specify the path of the file to be executed within quotation marks.  <b>Note:</b> Comodo Backup allows you to run specific tasks before and/or after every manual or scheduled backup. For example you may want to run a virus scanner before backing up to avoid potentially infecting the destination folder. You can even mount an unmounted drive partition before backup to enable storing the backup file in the partition and unmount the partition on completion of the backup process by running a batch file with a list of corresponding Windows commands, play music files to indicate start and/or completion of the backup operation etc.
/runTaskAfter <path>	Set a task to be executed after the execution of the backup job. Specify the path of the file to be executed within quotation marks.

Backup Commands and Arguments	
/shutdown	Specify this option only if you want your system to be shutdown on completion of the backup job. This command is optional. The computer is not shut down by default.
/scheduleTask	Specify a schedule for the backup.
/schedule_mode <mode>	Specify the schedule mode. Used in conjunction with /scheduleTask. The schedule mode can be one of the following: Once - The backup job is executed once at the set date and time. Manual - Allows you to execute the backup job at any time you wish. Atlogon - Executes the created backup job every time when the user logs on to the computer. Daily - Executes the created backup job every day at the set time. Weekly - Executes the created backup job on selected day(s) of every week at the set time. Monthly - Executes the created backup job on selected date of every month at the set time. WhenIdle - Executes the created backup job whenever the system goes idle with a set delay.
/rememberPassword	Specify this command if the password should be remembered (only for network or ftp type destination) for the scheduled backup. Used in conjunction with /scheduleTask . This command is optional.
/rememberUser	Specify if the user name should be remembered (only for network or ftp type destination) for the scheduled backup. Used in conjunction with /scheduleTask and /rememberPassword. This command is optional.
/scheduleSettings <settings>	Specify the schedule settings (interval, date, time, day, etc.). Used in conjunction with /scheduleTask. Depending on the schedule mode the options are: for 'once' the format is : 'DAYMONTHYEAR_HOUR:MINUTE'. for 'daily' the format is : 'HOUR:MINUTE'. for 'weekly' the format is : 'WEEKDAYWEEKDAY!...!..._HOUR:MINUTE'. for 'monthly' the format is : 'DAYOFMONTH_HOUR:MINUTE'. For "whenIdle" the format is : "NUMBEROFSECONDSTOWAITBEFOREIDLE". /scheduleSettings is optional for whenIdle mode. Default value is 0. for the rest there are no settings to be set. Time format is 24 hours style.
/backupNow	Specify if the scheduled backup should also be run at the moment. Use in conjunction with /scheduleTask. This command is optional. The default behavior is only to create the schedule and finish.
/handleMissedSchedule <no of option>	Specifies in what way a missed scheduled backup should be treated. Options available are: NO_ACTION = 1 (no action is taken), RUN_TASK = 2 (the scheduled task is run when the user opens the Comodo BackUp application for the next time), NOTIFY = 3 (notifies the user that a scheduled task has been missed). (E.g. /handleMissedSchedule 1) Use in conjunction with /scheduleTask . This Command optional. Default value is no_action.

Backup Commands and Arguments	
/guiRunMode	<p>Specifies the way the user interface should behave on completion of a scheduled backup. Options available are:</p> <p>/guiRunMode Normal or /guiRunMode 1 (for normal run mode),</p> <p>/guiRunMode AutoClickFinish or /guiRunMode 2 (On successful completion of the backup process, the 'Finish' button is effectively be clicked automatically so that the application returns with its main interface. The application is not closed until you click the close button from the Windows controls.),</p> <p>/guiRunMode AutocloseGUI or /guiRunMode 3 (On successful completion of the backup job, the application is closed automatically)</p> <p>/guiRunModeSilentRun or /guiRunMode 4 (Comodo BackUp is run at the background at the scheduled time to execute your backup job),</p> <p>/guiRunModeServiceModeRun or /guiRunMode 5 (Comodo BackUp is run as a Windows Service so that the backup job is executed at the background automatically even if you are not logged in)</p> <p>/guiRunModeMinimizeToTray or /guiRunMode 6 (On successful completion of the backup job, the application GUI is minimized to system tray)</p> <p>Used in conjunction with /scheduleTask. Command is optional. Default value is /guiRunModeAutoClickFinish.</p>
/secondsToWait <number of seconds>	<p>Specify number of seconds to wait before a logon type scheduled backup. Use in conjunction with /scheduleTask /Atlogon. This command is optional. The default value is 0.</p>
/log <log file path>	<p>Specify the log file path if you want the log of the events to be stored in a text file. Include the log file path within quotation marks. (E.g. /log 'C:\Documents and Settings\username\My Documents\cbulog.txt'). If no parameter(&lt;log file path&gt;) is set, the log file is created in the default COMODO Backup folder.</p> <p><b>Note</b> - It is recommended to setup a log file when running a backup job from the command line interface as it enables you to check the success or failure of the backup job at a later time.</p>
/disc_label	<p>Specifies the optical disc label if the user has chosen an optical disc as a backup destination. This command is optional.</p>
/burn_speed	<p>Specifies the burning speed for the optical drive where the user has select to store the backup. This command is optional.</p>
/eject_disc	<p>Specifies if the optical disc should be ejected after the backup is complete. This command is optional.</p>
/silentRun	<p>Specify this command if you want the backup operation to be performed silently. Otherwise the GUI will open directly at step 6 and the operation will start.</p>

## Examples:

To backup the emails and settings of your Outlook 2003 mail client in another computer in your network every Monday at 6:00 pm, you can enter the command line as follows:

```
'C:\Program Files\COMODO\COMODO BackUp\CBU.exe /backup_operation /type email /source OUTLOOK2003 /destinationType 7 /destinationPath '\\user1\myusername\emailbackup.cbu' /remote_username 'user1' /remote_password 'password'/scheduleTask /schedule_Mode weekly /scheduleSettings Monday_18:00 /guiRunMode 1'
```

To backup your files in My Documents folder, excluding the .bak files, in encrypted form and in your F: drive daily at 7:00

pm, you can enter the command line as follows:

```
'C:\Program Files\COMODO\COMODO BackUp\CBU.exe /backup_operation /type filesandfolders /source 'C:\Documents and Settings\username\My Documents' /destinationtype 1 /exclusionfilter "*.bak" /destinationpath "f:\mydocumentsbackup.cbu" /encryptionPassword 'password' /encryptionalgorithm 'AES' /scheduleTask /schedule_mode daily /scheduleSettings 19:00 /guiRunMode 1'
```

## 9.2. Running a Restore Task from the Command Line Interface

- Open the Windows command line interface
- Commands are specified in the format

```
<installation path>/<executable>/ <command #1> <command #2>
```

So the path to the executable is followed by commands for the configuration of the restore task in sequence with space between each switch command. For example, if Comodo Backup has been installed to the default directory, the format would be:

```
C:\Program Files\COMODO\COMODO BackUp\CBU.exe /command#1 /command#2
```

**Note:** The Commands and the arguments are not case sensitive and can be arranged in any order.

**Table of Restore Commands and Arguments**

Table of Restore Commands and Arguments	
Command / Argument	Description
/restore_operation	Standard restore operation command.
/destinationType <type>	Specify the type of destination. The options available are: <ul style="list-style-type: none"> <li>• /destinationType Disk File or /destinationType1 (for restoring a backup from your local hard drive);</li> <li>• /destinationType Ftp or /destinationType 3 (for restoring a backup from a FTP location);</li> <li>• /destinationType Network or /destinationType 7 (for restoring a backup from a network computer).</li> </ul>
/backupFileDestination <destinationPath>	Specify the destination path from which the backup file has to be restored, within quotation marks .(E.g. /destinationPath 'D:\backup\file.cbu' (local storage), /destinationPath '\\user1\upload\backup.cbu' (network destination), /destinationPath 'ftp://ftp.funet.fi/pub/standards/folder/backup.cbu' (ftp server destination))
/snapshot_to_restore <snapshot number>	Specifies the snapshot number to be restored (for multiple shapshot backups). This parameter is optional. By default the last snapshot will be restored.
/remote_username <username>	Specify the account user name for a network or ftp backup destination. Include the user name within quotation marks. This command is required only if the remote computer / ftp server requires a username. (E.g. /remote_username 'user1')
/remote_password<password>	Specify the account password for a network or ftp backup destination. Use in conjunction with /remote_username. This command is only required if the remote computer / ftp server requires a password. (E.g. /remote_password 'password')

Table of Restore Commands and Arguments	
/backupFile_password<password>	If the backup file is encrypted, specify the encryption password within quotation marks.
/verify	Specify this command if you want to check the integrity of the backup file before restoration. Can also be used in stand-alone mode without <b>/restore</b> command. When used in conjunction with <b>/restore_operation</b> , the backup file is first verified; if the verification is not successful the restore process does not continue. In stand-alone mode the following commands must be supplied: <b>/destinationType</b> , <b>/backupFileDestination</b> , <b>/backupFile_password</b> if file is encrypted, <b>/remote_username</b> and <b>/remote_password</b> if needed. This command is optional.
/cleanRestore	Specifying this command chooses the Clean Restore method in which all the files in the folder you specify as restoration location are deleted and the files from the backup are copied to the folder. For example if you want to restore a backup file to folder D:\Data, the folder D:\Data is deleted, then recreated with all files and folders in the backup. <b>Note:</b> The default method is Append Files, in which only those files having same file name as those in the backup are deleted and replaced with those in the restoration folder. Files having different file names from those in the backup, is kept intact.
/selectiveRestore <selected paths>	Specify which files from the backup to be restored. Can be used for files and folders, custom registry, email and instant messengers type backups. For files, folders and registry keys the paths must be included in quotation marks and separated by ' '. For files and folders, the full path must be specified for the file/folder selected, as it was during the backup operation. For email clients and IM's use the predefined macros presented in <b>/source</b> command for <b>'/backup_operation'</b> . This Command is optional. By default a full restore is performed. For partitions the selective restoration is performed through the <b>/restoreLocation</b> command. While specifying the restore location, specify only the partitions you want to be restored.
/restoreLocation <location path>	Specify the restore location. For files and folders type backup specify the full path. For partitions and the format is: 'C->YID->X' where C, D are partitions that are to be restored and Y and X are the partitions where C and D are restored on. For disk backup specify only the disk where the backup is restored(Ex. 'disk7'). If this command is not specified a restore is attempted on the default location. For file and folders restore location include the <location path> within quotation marks.
/setNativeModeRestore	Specifying this command schedules for a native mode restoration if it cannot be performed in plain Windows (user mode) due to files that are opened etc. The command is optional.
/diskUsage	Specifies the usage degree of the disk(network) for the backup operation. Options are: low, below_normal, normal, above_normal and high. This command is optional. Default value is high.
/processorUsage	Specifies the usage of the processor for the backup operation. Options are: low, below_normal, normal, above_normal and high. This command is optional. Default value is normal.
/log <log file path>	Specify the log file path if you want the log of the events to be stored in a text file. Include the log file path within quotation marks. (E.g. <b>/log 'C:\Documents and Settings\username\My Documents\cbulog.txt'</b> ). If no parameter(<log file path>) is set, the log file is created in the default COMODO Backup folder.

Table of Restore Commands and Arguments	
	<b>Note:</b> It is recommended to setup a log file when running a restoration job from the command line interface as it enables you to check the success or failure of the restore job at a later time.
/silentRun	Specify this command if you want the restore operation to be performed silently. Otherwise the GUI will open directly at <b>step 4</b> and the operation will start.

### Example:

To restore a folder importantbackup.cbu to its original location with clean restore method,

```
C:\Program Files\COMODO\COMODO BackUp\cbu.exe /restore_operation /destinationtype 1 /backupfiledestination "F:\backups\importantbackup.cbu" /cleanrestore.
```

## 9.3. Running a Scheduled Backup Job Instantly from the Command Line Interface

Scheduled backup jobs can be immediately run from the command line interface by using the /runbackup command followed by the ID number of the target job.

- Open the Windows command line interface

```
<installation path>/<executable> /runbackup <backupID>
```

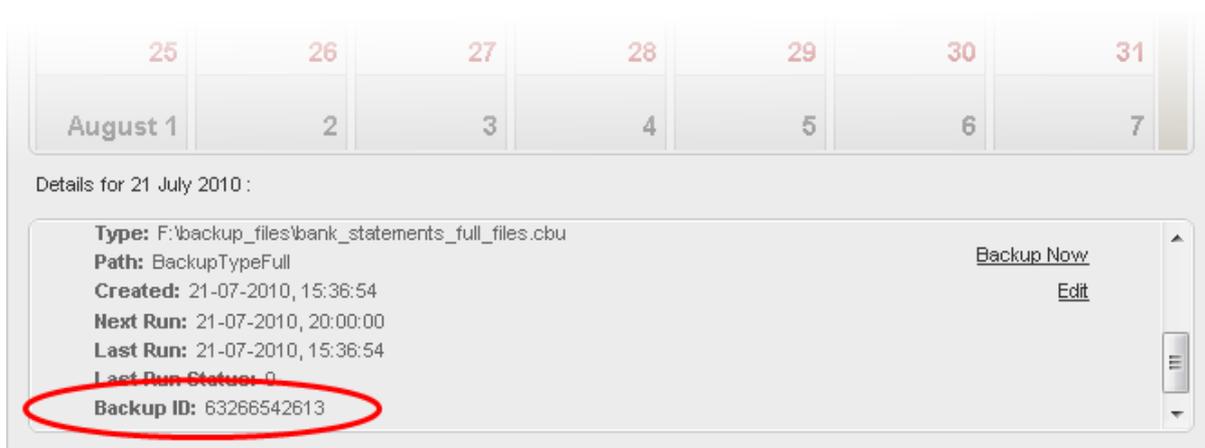
Take care to place a space between the command and the ID. For example, if Comodo Backup has been installed to the default directory, the full command would be:

### Example:

```
C:\Program Files\COMODO\COMODO BackUp\CBU.exe /runbackup 63241739864.
```

The backup ID for a scheduled backup job can be found from the 'Manage' > 'Recent Events' interface of Comodo BackUp.

To find the Backup ID of a Scheduled Backup job, click the down arrow alongside the corresponding entry in the list of backup events and scheduled backup jobs displayed in the lower pane. The backup ID will be given in the list of attributes of the scheduled backup job.



## 9.4. Running Backup and Restore Tasks from Script Files

You can create script files (in .txt format) for the Backup and Restore jobs executed often and call the script file to execute the task from the command line interface instead of typing the commands repeatedly. Each script file should contain the command line to execute the specific backup or restore task.

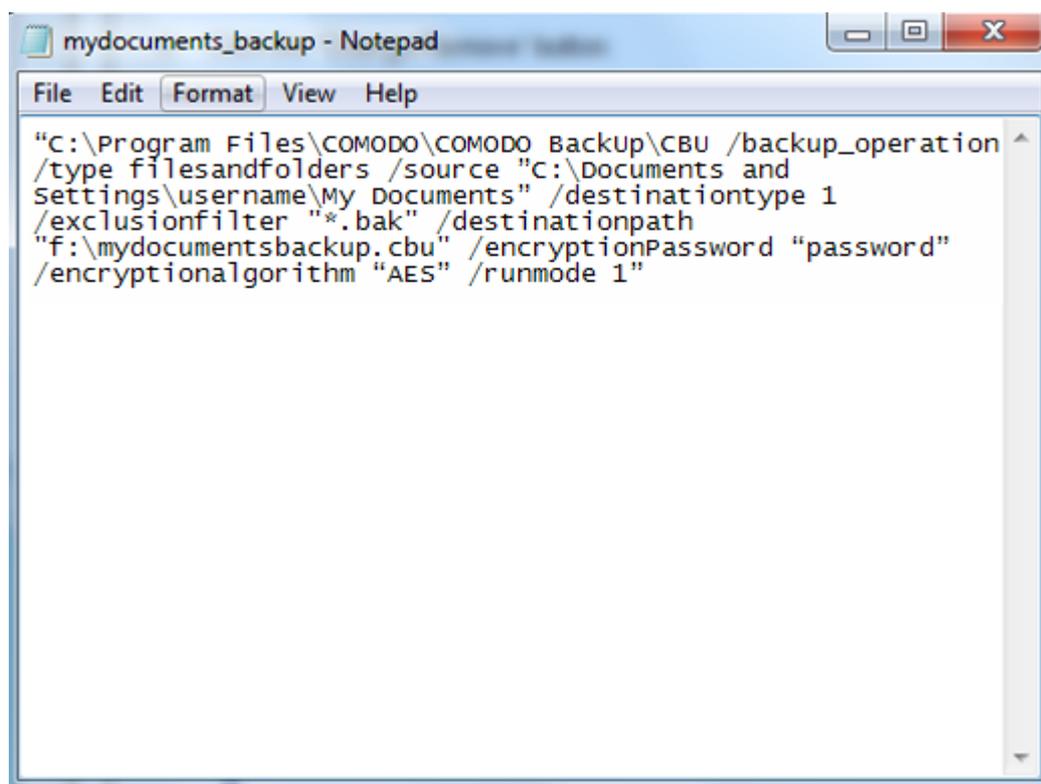
You can also export the configured backup and restore jobs as script files if you want to execute. For more details, refer to the sections:

- [Configuring Email Notification and Miscellaneous Settings > Export to Script](#) for creating a script file for a backup job;  
and
- [Selecting Restore Method > Export to Script](#) for creating a script file for a restore job.

### To generate a script file manually

- Open a new notepad file by clicking Start > All Programs > Accessories > Notepad.
- Type the command line in the file.
- Save the file at desired location.

For example, to backup your My Documents folder, generate the script as given below.



```
"C:\Program Files\COMODO\COMODO Backup\CBU /backup_operation
/type filesandfolders /source "C:\Documents and
Settings\username\My Documents" /destinationtype 1
/exclusionfilter "*.bak" /destinationpath
"f:\mydocumentsbackup.cbu" /encryptionPassword "password"
/encryptionalgorithm "AES" /runmode 1"
```

To execute the task from the command line interface using the script file, type the command as follows:

```
C:\Program Files\COMODO\COMODO Backup\CBU.exe /script 'C:\SomeFolder\ScriptName.cbs'
```

- Include the file path within quotes.

#### Example:

```
C:\Program Files\COMODO\COMODO Backup\CBU.exe /script 'D:\backup_script_files\mydocuments_backup.txt'
```

The backup/restore task is executed as per the command line in the script file.

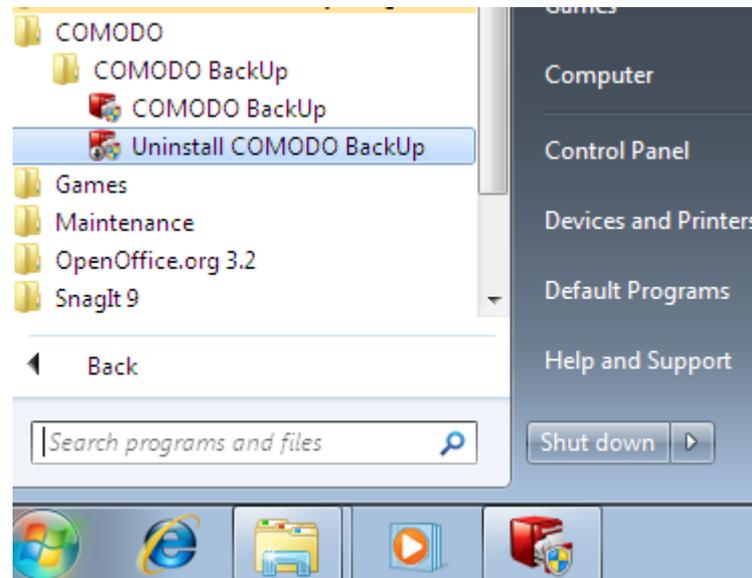
# 10. Uninstalling Comodo Backup

## To uninstall Comodo BackUp:

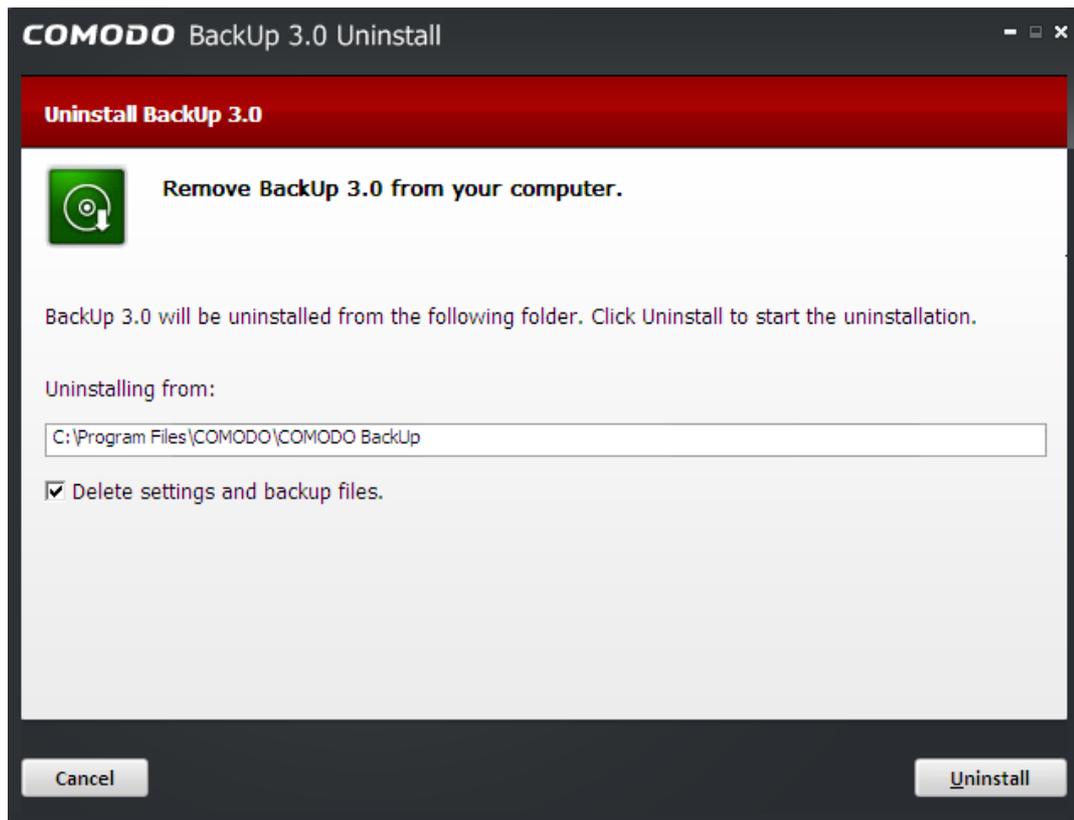
1. Click Start > Settings > Control Panel
2. In the Control Panel, double-click Add/Remove Programs
3. In the list of currently installed programs, click Comodo BackUp
4. Click the 'Change/Remove' button.

Or

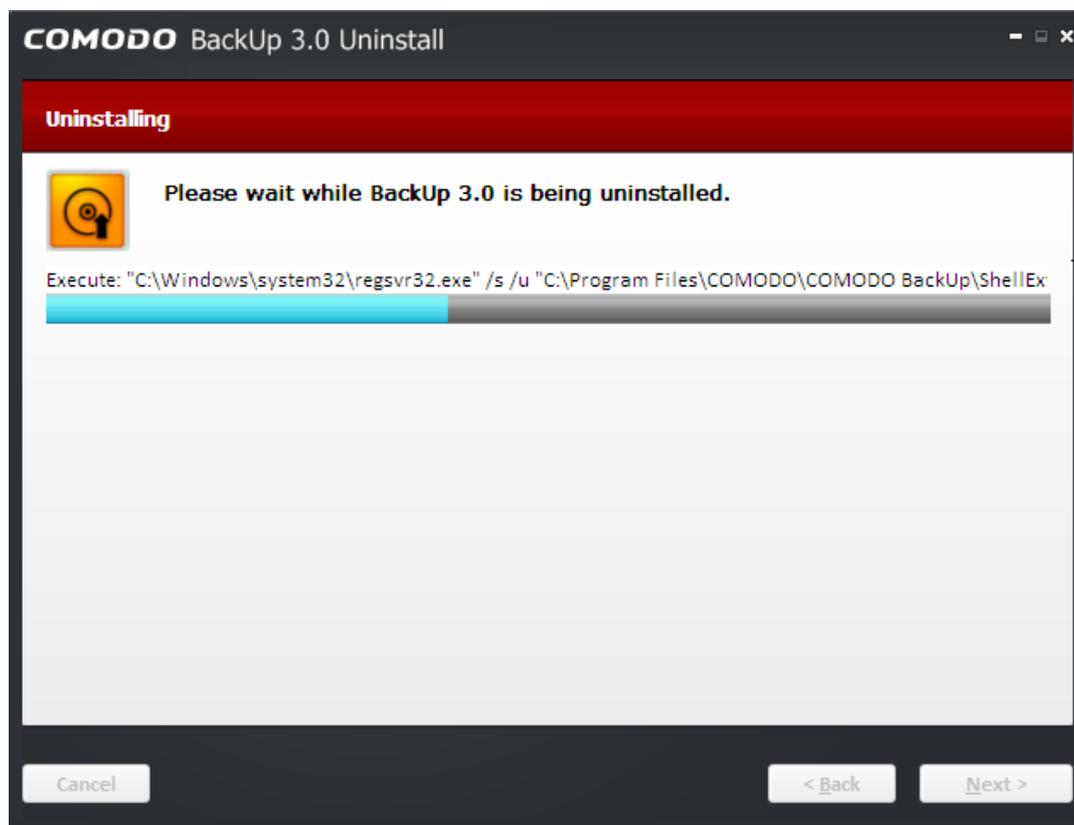
1. Click Start > All Programs > Comodo > Comodo BackUp > Uninstall Comodo BackUp.



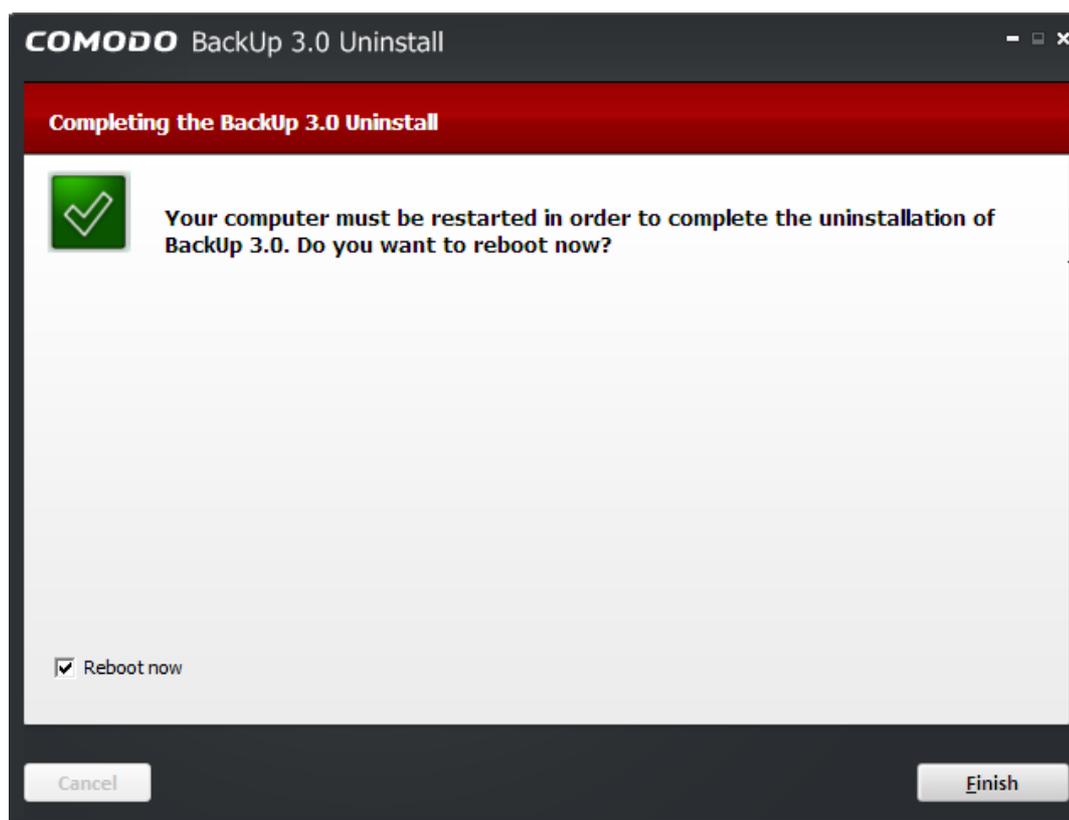
The uninstallation wizard will be started.



Click 'Uninstall' to continue. The Uninstallation progress will be displayed...



...and on completion, the 'Uninstallation Complete' dialog will be displayed.



Click 'Finish' to finish the process.

The uninstallation takes effect only on restart of your computer.

## 11. Getting Support

Comodo is committed to provide the best support for its products. If you need technical assistance, we offer the following convenient support services:

### Comodo Forums

Find the answers to your questions online at <http://forums.comodo.com>

Register at Comodo Forums and join thousands of other users discussing all aspects of our products.

You'll benefit from the expert contributions of developers and fellow users alike and can find answers to any questions you may have. [Join the forums now.](#)

### Email Support

If you are unable to find a solution in either the help guide or the forums, then please email support at [support@comodo.com](mailto:support@comodo.com)

**Note:** We do not offer phone support for any of our Free products.

Before reporting problems, please visit our searchable knowledgebase and troubleshooter at <http://support.comodo.com>  
If you do not find a solution in our knowledgebase or troubleshooter, please submit a support ticket at <http://support.comodo.com>.

# Appendix 1 Encryption Algorithms

Encryption Algorithms			
Algorithm	Block Size / Encryption level / Speed	Brief Description	Recommendation
AES (Advanced Encryption Standard )	128 bits/Strongest	Also known as Rijndael. This cipher is used for encryption by default.	Ideal for both domestic and exportable use.
Serpent	128, 192 or 256 / very strong / fast	128, 192, 256-bit block cipher. Designed by Ross Anderson, Eli Biham and Lars Knudsen as a candidate for the Advanced Encryption Standard.	Ideal for both domestic and exportable use.
3DES	168 bits/strong/Slow	Applies Data Encryption Standard (DES) cipher three consecutive times to the message to form the message digest. Offers protection against meet-in-the-middle attacks.	Suitable for domestic use.
XOR	Variable block size /very weak / very fast	160 bit key. XOR encryption is a trivially simple symmetric cipher which is used in many applications where security is not a defined requirement	Not recommended
Blowfish	64-bit block / variable key length: 32 bits to 448 bits/strong/fast	Symmetric block cipher. It is a Feistel network, iterating a simple encryption function 16 times. The block size is 64 bits, and the key can be any length up to 448 bits. Designed by Bruce Schneier.	Ideal for both domestic and exportable use. Much faster than DES and IDEA.
Twofish	128-bit block/ 28-, 192-, or 256-bit key/ strong/ very fast	Symmetric key block cipher with a block size of 128 bits and key sizes up to 256 bits.	A widely used and recommended choice for most cases.

## Appendix 2 Live PC Support

**Live PC Support** offers the quickest, most comprehensive way of getting help with your computer problems. Live PC Support is carried out by Comodo computer experts establishing a remote desktop connection to your machine and fixing your computer's problems right in front of your eyes. No longer do you need to make time-consuming calls to impatient help desk support staff. Instead, just sit back and relax while our friendly technicians do the work for you.

### Live PC Support includes the following services:

- **Virus Diagnosis / Removal** - Scanning your PC to check for viruses and spyware. Automatic/manual removal of the detected viruses.
- **PC Tune Up** - Running full scans to evaluate issues affecting your computer's performance. Fine Tuning key areas and improving speed and stability.
- **Internet Login Protection** - Activating your computer's basic security settings to prevent loss of sensitive data and identity theft.
- **Email Account Set Up** - Setting up your Internet-based email account - any provider, any account. Great for new computers and novice email users.
- **Software Installation** - Installing your Comodo products and customizing configuration for maximum security protection and efficiency.
- **Printer Set Up and Troubleshooting** - Installing or updating software and printer drivers, checking ink levels and configuring your printer to work on a wireless or wired network.
- **Green PC** - Optimizing your power management setting based on how you use your computer. Go green and save money on your electric bill.
- **Computer Troubleshooting** - Checking basic hardware conflicts in Windows.

### Features:

**Our experts are available 24 hours per day** to perform the services listed above.

**Unlimited incidents on an unlimited number of computers.**

**30 day Free Trial !!**

**Enjoy using your problem-free computer once again !!**

Please visit <http://www.livepcsupport.com> for more details.

The service requires the LivePCSupport client installed in your system.

### To download and install the LivePCSupport client

- Click the **Live PC support** tab from the Main interface of Comodo BackUp

This automatically installs and launches the client. Within seconds, a Comodo Support Technician responds in a chat window and asks you to describe the problem. After you do, our computer expert takes over! LivePCSupport enables our experts to actually tap into your computer and make the changes necessary to solve your problem, and get your PC working perfectly.

If you once install the client, you can initiate the chat at any time by clicking the link any time.

For technical product questions please visit: <https://support.comodo.com/> (Comodo's Customer Service management system requires you to establish a free service account. Your service account provides access to Comodo's extensive Knowledgebase, Customer Forums, and Live Chat support and offers the ability to submit support requests into our service management system).

# Appendix 3 Creating a Rescue Disk with WinPE / BartPE

Using a Rescue Disk with WinPE (Windows Preinstallation Environment) / BartPE (Bart's Preinstalled Environment) allows a user to boot Windows, even if a hardware or software fault has disabled the installed operating systems on the internal hard drive for instance, to recover files. It can also be used to scan for and remove rootkits, viruses and spyware (that have infected boot files), or to reset a lost administrator password.

## Important Information

- Comodo BackUp should be used only for restore operations with BartPE/ WinPE rescue disks.
- Users should make sure to run Comodo BackUp from a location other than the destination of the restore operation. In case of system drive or entire hard disk restore, the entire Comodo BackUp installation folder should be copied to another location before beginning the restore operation.
- Drive letters might differ when booting with a BartPE/ WinPE rescue disk
- Registry entries backups cannot be restored with BartPE/ WinPE rescue disk

This section explains how to create a rescue disk using either WinPE or Bart PE. Please click on the links below to go to the section that you require help with:

[Technical Differences Between Windows PE and Bart PE](#) - Compares Windows PE and Bart's PE

[Windows PE Overview](#) - An overview Windows PE and explains creating Vista, Windows 7 and Windows 2008 server image

[Creating a Vista image with Windows PE](#)

[Creating Windows 2008 server image with Windows PE](#)

[Creating a Windows 7 image with Windows PE](#)

[Bootimg from a Windows PE disk](#) - Guidance on creating a bootable CD-ROM, UFD and launching Comodo BackUP using Windows PE

[Creating a bootable CD-ROM](#)

[Creating a bootable UFD](#)

[Launching Comodo BackUp using Windows PE](#)

[Bart's PE \(Bart's Preinstalled Environment\)](#) - An overview Bart's PE

[Features and Benefits](#) - Shows features and benefits using Windows PE and Bart's PE

## The technical difference between WindowsPE and Bart'sPE :

- **Target** - Microsoft sees Windows PE as an installation platform. Bart sees Windows PE as the next generation rescue platform.
- **Start-menu** - Bart's builder gives you a simple, dynamic and powerful start-menu (Nu2Menu, see screenshots). Microsoft's builder does not give you a start-menu, it uses a command prompt.
- **Build** from - Bart's builder can also build from Windows XP Home Edition or from a preinstalled Windows XP version (without CD).
- **Plugins** - With PE Builder you can easily add applications, ivers or tools using plugins. This makes PE Builder extremely powerful. The end user can even combine plugins from different software vendors into one CD image.
- **Network support** - PE Builder includes its own network support tools (bartpe/penetcfg) to start TCP/IP and Microsoft Client. The TCP/IP settings like: dynamic/static ip-address, subnet-mask, default gateway, dns-servers computer-name, workgroup can be changed on-the-fly. You can create pre-defined profiles, that you can select. Microsoft Windows PE only supports DHCP or fixed settings using winbom.ini. Also there is a plugin (NwDskPe) created by Erwin Veermans that loads the Netware Client on BartPE (IP/IPX).
- **Fileshare** - BartPE can start File Sharing support so you can connect to the system through a share.
- **VNC** - Because of the File Sharing support you can also run UltraVNC.

- Dos support - Bart's builder has a plugin called "dospe".
- License - Microsoft Windows PE is only for Enterprise/OEM customers (see previous), BartPE is for everybody.
- 64-Bit - Bart's builder does not support Windows 64-bit editions.

## Windows PE Overview

Windows Preinstallation Environment (Windows PE, WinPE) is a lightweight version of Windows XP, Windows Server 2003, Windows Vista, Windows 7, or Windows Server 2008 R2 that is used for the deployment of workstations and servers. It is intended as a 32-bit or 64-bit replacement for MS-DOS during the installation phase of Windows, and can be booted via PXE, CD-ROM, USB flash drive or hard disk.

### Creating a Vista image with Windows PE

Windows PE is built from Windows Vista components, providing a robust, flexible, and familiar environment. In fact, Windows PE can run many Windows Vista applications, detect and enable most modern hardware, and communicate across Internet Protocol (IP) networks. Windows PE typically consumes less than 100 MB of disk space and can run entirely from Random Access Memory (RAM), enabling you to insert a second CD that contains drivers or software.

**Note:** In order to launch Comodo BackUp using Vista, you must copy C:\Windows\System32\oledlg.dll to your Comodo BackUp installation directory (default = C:\Program Files\COMODO\COMODO Backup\)

#### Step 1: Downloading and Installing WinBuilder

#### Step 2: Running WinBuilder for the First Time

#### Step 3: Configure WinBuilder's Options

#### Step 4: Creating your VistaPE Build

The processes for creating a WindowsPE boot disk are similar for Windows 7 and Vista. For both operating systems, you have the choice to use a command or the user interface.

## Customized Windows Vista Installations

Enterprises will appreciate Windows PE, however, because IT departments will be able to create scripts and applications to automate deployment. For example, using the process below, an IT department could configure a Windows Deployment Services remote deployment infrastructure, create a configuration script, and build a custom Windows PE image to enable a highly automated deployment process:

1. When a new computer is connected to the network, the built-in Pre-boot eXecution Environment (PXE) client connects to the Windows Deployment Service server and downloads the customized Windows PE image across the network.
2. The new computer loads Windows PE into memory and launches the configuration script. The script verifies that the computer's configuration meets the IT department's hardware requirements.

**Note:** Windows Deployment Server (Windows DS) is a replacement for Remote Installation Services (RIS).

3. If necessary, the script backs up the user's data to a shared folder on another computer.
4. The script runs the Diskpart tool to partition and format the disk.
5. The script connects to a shared folder containing the Windows Vista Setup files and runs the Windows Vista Setup program to install the operating system fully unattended.

### General functionality:

Possibility to fully or partially loading VistaPE at startup into memory (boot.wim)

Support for a big number of SATA/RAID/SCSI/NIC drivers

Capable to read and write on NTFS/FAT32/FAT/Ext2/Ext3 partitions

- Full networking support
- Automatic hardware detection (PnP)
- Booting from CD/HDD/UFD/Network
- Compatibility with Microsoft Windows Vista
- A wide range of programs and shells (Explorer, LiteStep, BS Explorer...)
- No limits regarding the maximum number of open processes
- Automatic creation shortcuts for programs
- Ability to remove VistaPE boot media while VistaPE is running (using boot.wim)
- Full multilanguage support

## Step 1: Downloading and Installing WinBuilder

Download the latest version of WinBuilder from the [link](#) below and save to a folder on your computer.



WinBuilder is a free application designed to build and customize boot disks (Live CDs) based on Microsoft Windows (WinPE)

More details - <http://en.wikipedia.org/wiki/WinBuilder>



In case you need help, you're welcome to ask questions or read more about WinBuilder projects on the forum sections below.

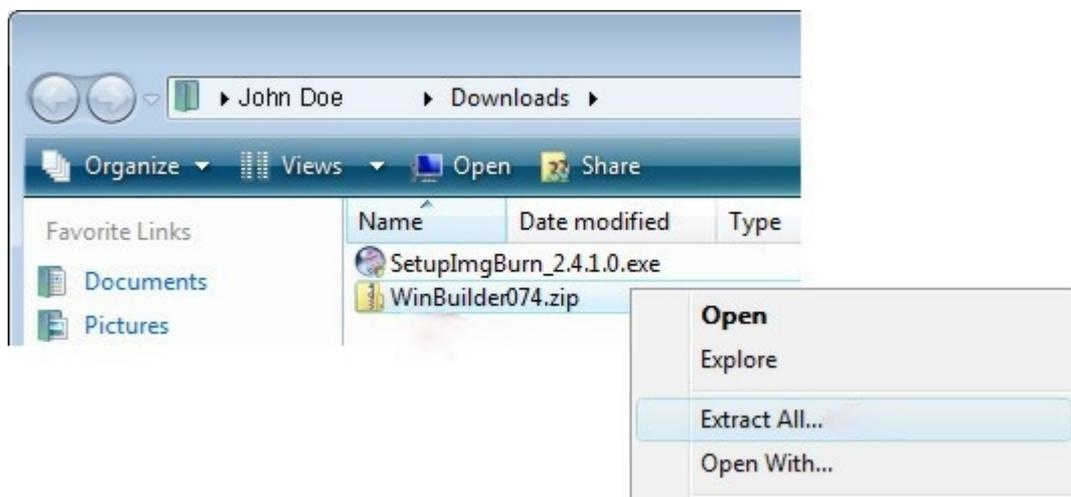
Click on the latest version of WinBuilder.

Click the Save button.

Browse to where you want to save the file (Downloads, for example) and then click the Save button.

When the download is complete, click the Open Folder button. If you use a download manager or want to manually browse to the download location. In that case, click the Close button.

You should see the downloaded WinBuilder ZIP file in the new window. To extract the files and install WinBuilder, right-click on the WinBuilder ZIP file and select Extract All... from the pop-up menu.



Type in the extraction folder: *C:\WinBuilder074*

**Note:** Do not use any folder that uses User Permissions. This includes any folder on the Desktop, My Documents, etc.

Using a folder that has User Permissions will result in VistaPE booting to a black desktop and not working properly. A folder created in the root directory is recommended.

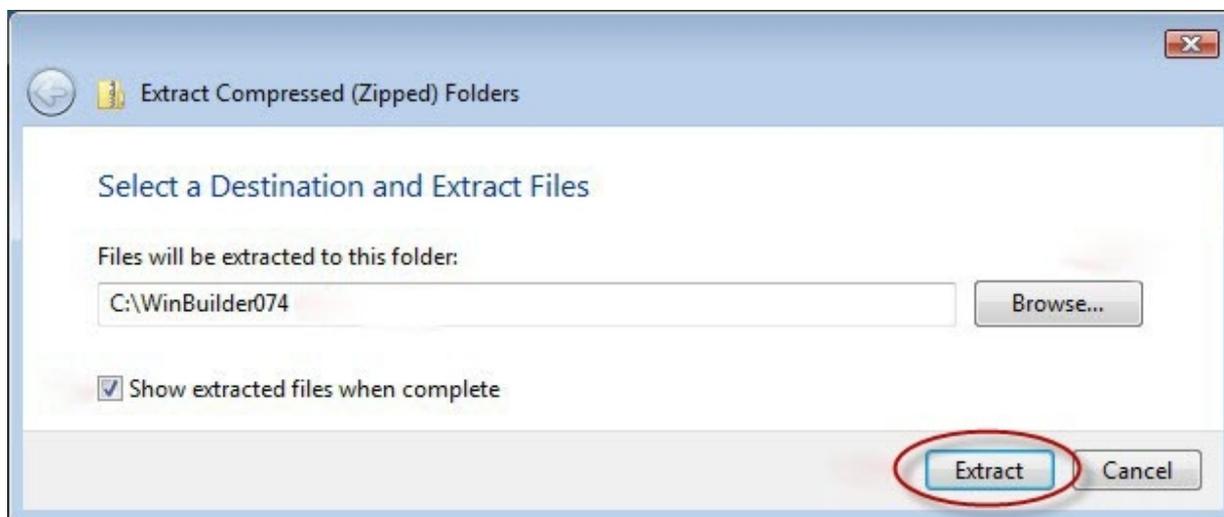
**Note:** Do not include any spaces in the folder path or name. Examples: C:\WinBuilder, D:\WinBuilder, C:\WB-Setups\WB074, etc.

Browse to the extraction folder and you can see the executable file WinBuilder.exe now exists in the folder and is ready to be run.

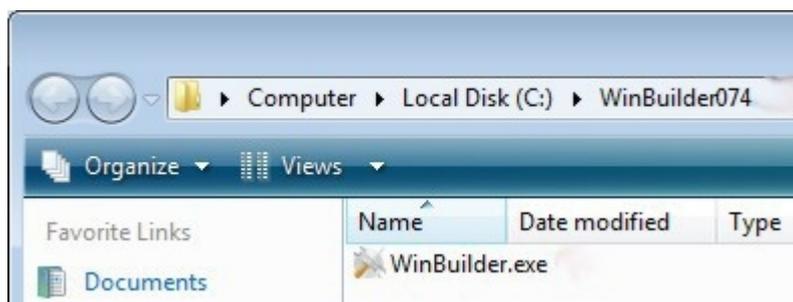
**Tip:** If you have a compression program you like to use (WinZip, Stuffit, PkZip, WinRAR, etc.), feel free to use it to extract the file contents.

Type in the extraction folder: *C:\WinBuilder074*

- If you leave the Show extracted files when complete checkbox checked, a new window will open and display the results after the extraction has finished. Click the Extract button to install WinBuilder.



- Once viewing the extraction folder, you can see the executable file WinBuilder.exe now exists in the folder and is ready to be run.



Browse to the extraction folder and you can see the executable file WinBuilder.exe now exists in the folder and is ready to be run.

## Step 2: Running WinBuilder for the First Time

For XP, just double-click on the WinBuilder program to run it (or right-click on it and select Open from the pop-up menu).

Starting WinBuilder in Vista

When running WinBuilder in Vista, you'll need to run it in Administrator Mode.

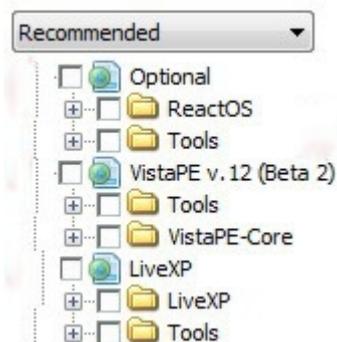
- Right-click on the WinBuilder.exe file and select Run as administrator from the pop-up menu.
- If you get a security warning, click the Run button to allow the program to run.

If you don't want to see this warning again for this program, uncheck the Always ask before opening this file checkbox.

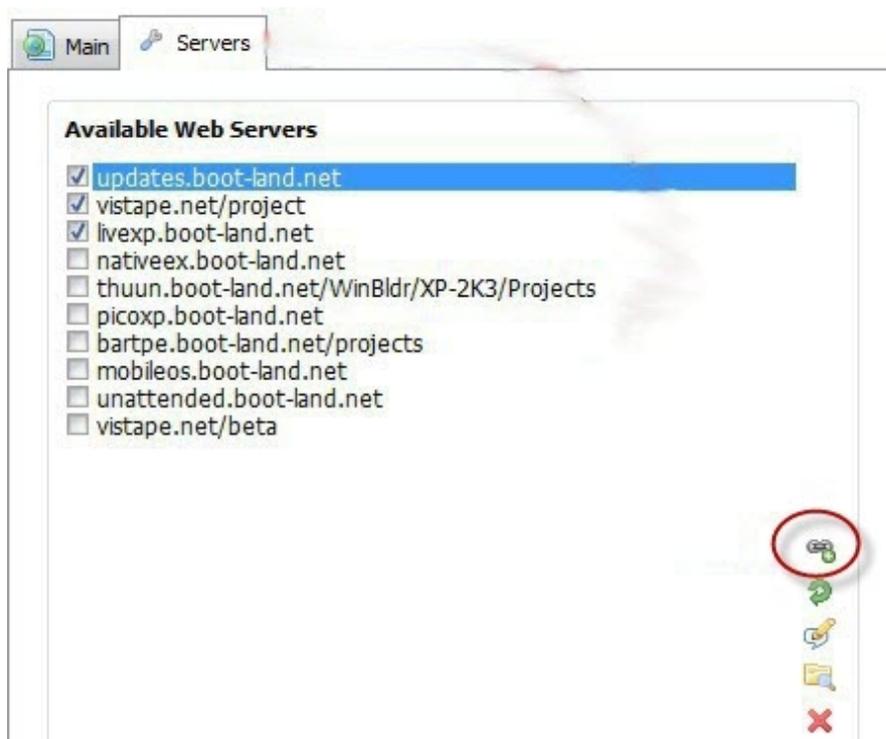
- If Vista's UAC is turned on, click Allow to let the program run.
- WinBuilder will start and display the "Welcome" page. Click on the Download tab.

Wait while WinBuilder updates the projects list and displays them in the tree on the left side of the screen.

- Uncheck the VistaPE 12 script as well as all the other project scripts. Below, unchecked Optional, VistaPE v.12 (Beta 2) and Live XP.



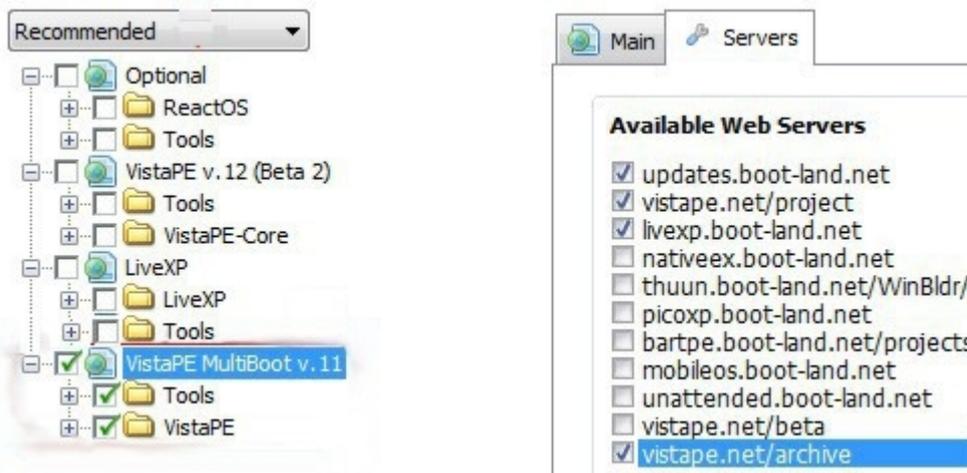
- Add the VistaPE 11 server so you can download VistaPE 11. Click the Servers tab and then the Add a new web server button.



- Type in vistape.net/archive and click the OK button.



- The new server will be display in the list on the right and VistaPE 11 will now be a project option in the tree on the left. Leave the drop-down box set at Recommended.

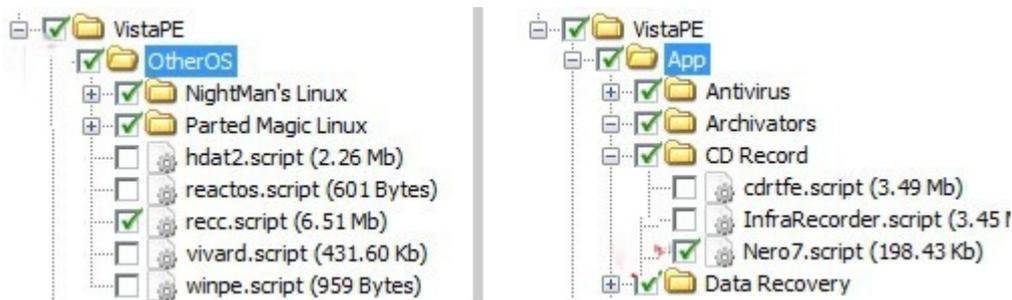


**Note:** Do not check or uncheck any of the main VistaPE 11 checkboxes (shown in Figure 2.5). Leave them just as they are. This will keep them at their default values. If you uncheck one and then recheck it, it will select every script in that tree.

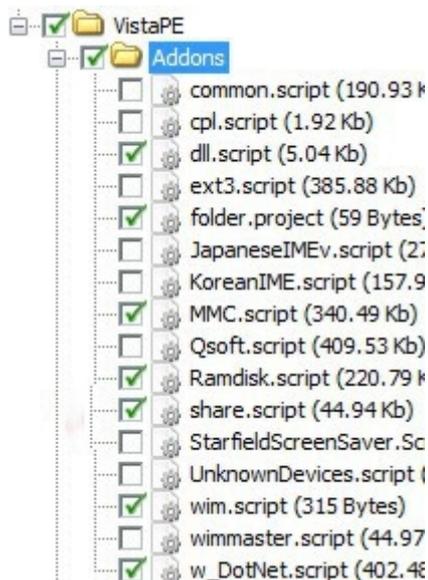
- Uncheck the following scripts which are not needed for your first build:

OtherOS

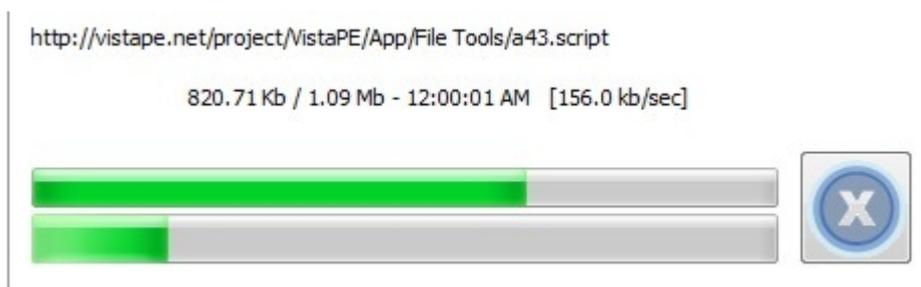
App >> CD Record >> Nero7



- If you are using the Windows AIK as the source for your VistaPE build, also uncheck the Addons >> share script to avoid build errors.



- Once you have the script selections correct, click the Download button to begin downloading the scripts. This may take a while depending on your internet connection speed and the size of the scripts you've selected.
- WinBuilder will display the download progress. Wait until the downloading is finished before proceeding.



After the downloading is finished, WinBuilder may restart and you may get another security warning. Select the option to run the program.

### Step 3: Configure WinBuilder's Options

When WinBuilder is run after the scripts are downloaded, the main screen will be shown.

Notice the locations of the following controls: The Scripts tab, the Play button, the Refresh button, the Script button, and the Paths button.

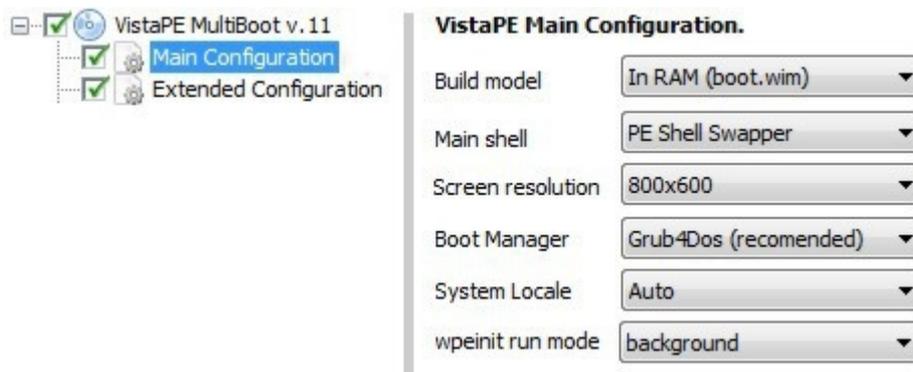
- The Scripts tab should be selected by default. If it's not, click on it.



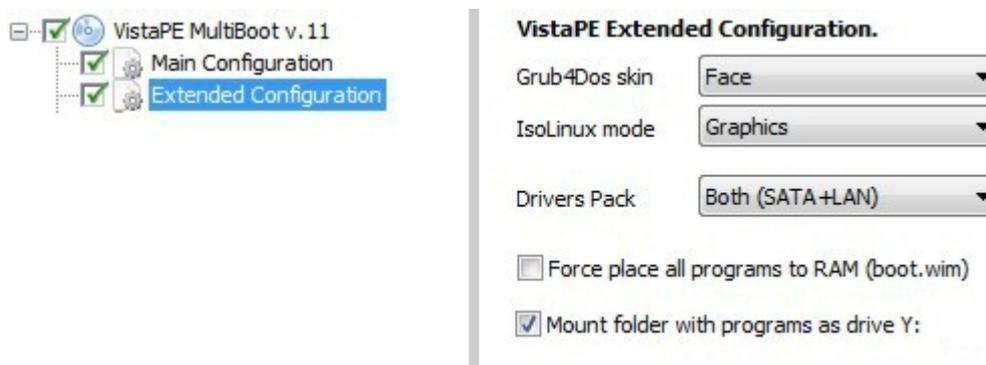
- Change several settings.

Select the Main Configuration script by clicking on it in the VistaPE tree on the left. The options for the selected script will be displayed on the right.

Change the default Screen resolution setting to at least 1024x768 if you know your monitor can handle it (most can). If you are unsure, leave it at 800x600.



- Select the Extended Configuration script. Then check the Mount folder with programs as drive Y: option.



- Expand the Build section and select the 0 - PreConfig script.

This is where the path to the Windows AIK (WAIK) is saved. The default installation folder is already entered. If you are not using the WAIK or you have installed it into its default location (recommended), leave the settings as they are. Otherwise,

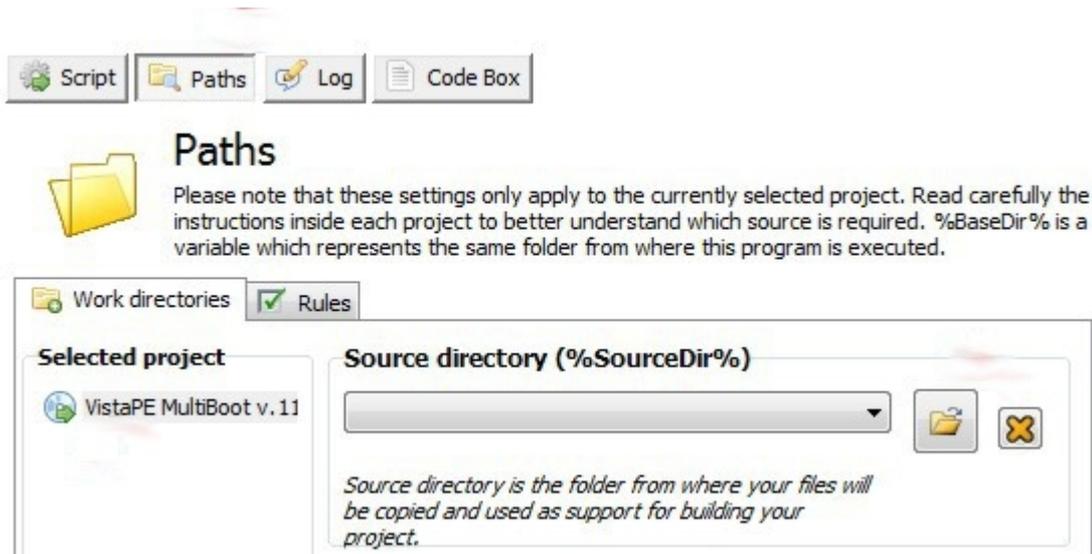
click the 'Open Folder' button to find the installation folder for the WAIK.

- Expand the Finalize section and check the 7 - Create ISO option.

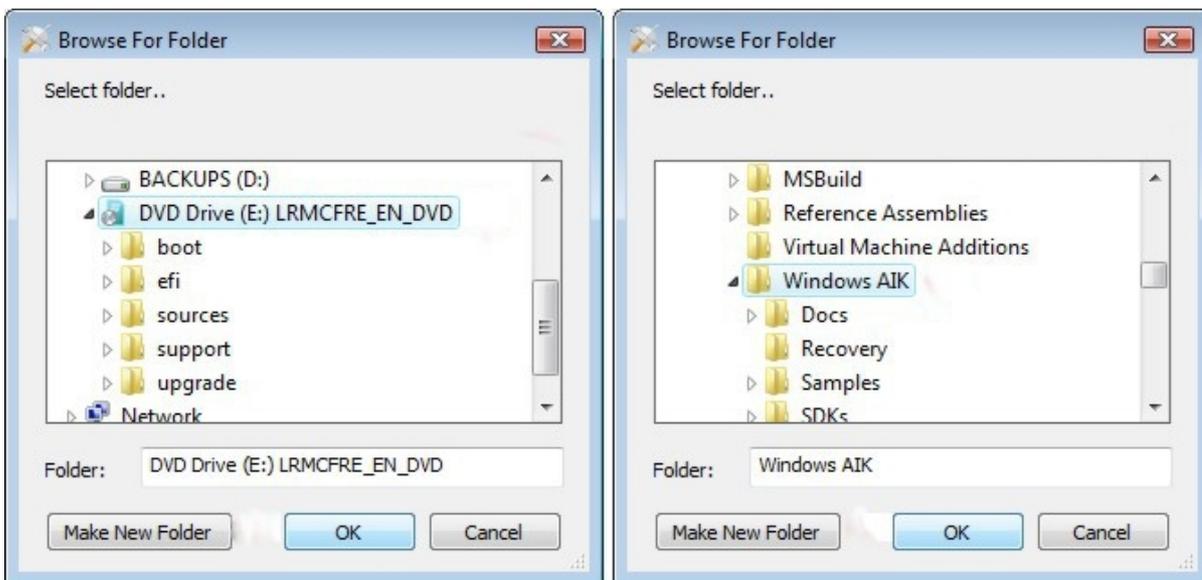


- To set the path to the source of the VistaPE build. The source can be a standard Vista DVD or the WAIK.

Click the Paths button. Make sure the VistaPE project is selected and then click the "Open Folder" button.



- Browse to the location of the source and click the OK button. (if you are using the WAIK as the source, browse to the WAIK installation folder).

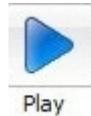


- The Source directory will update to the folder you selected.



## Step 4: Creating your VistaPE Build

- Click the Play button to begin the build process.

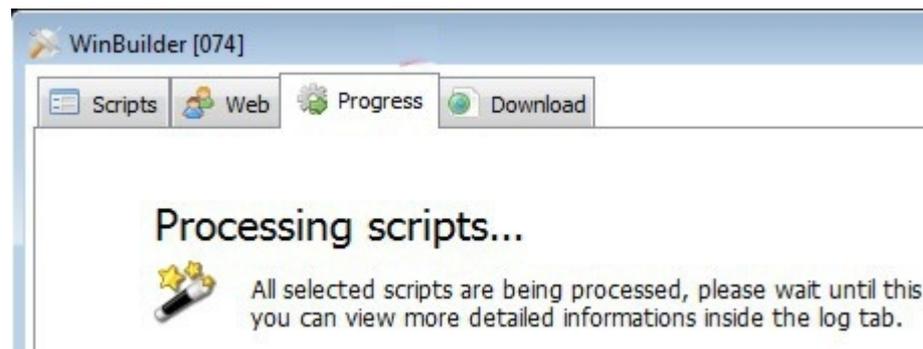


- The first time you run the VistaPE script, you will most likely get an error message stating that wimfltr.sys driver is not installed. Click the OK button to install the driver.

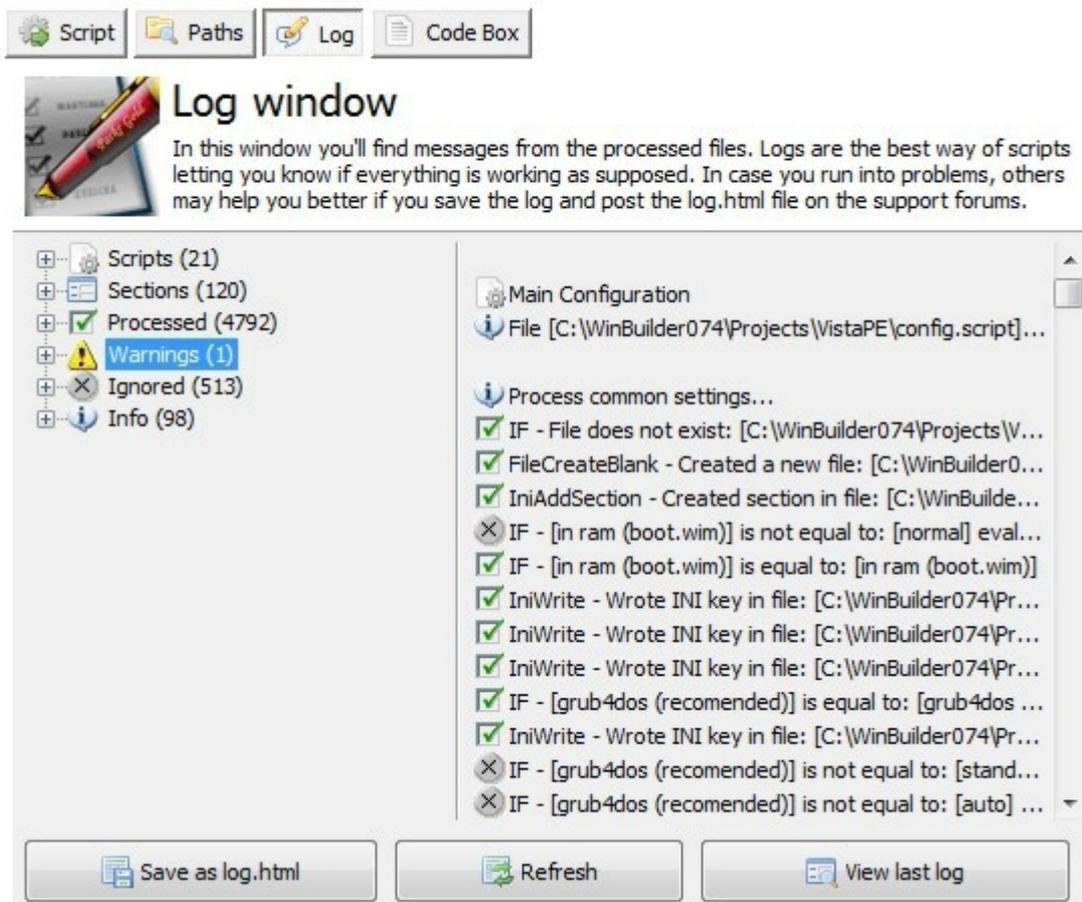
**Note:** If you see an error about bcdedit.exe not being found, copy bcdedit.exe to the location shown in the error message. Do a search for bcdedit.exe on your hard drive and your Vista source. You should find it.

**Tip:** Either of these error messages should only show up the first time you run the VistaPE script.

- WinBuilder will open a new tab, the Progress tab, and display the progress of the build. When finished, it will return to the main screen.

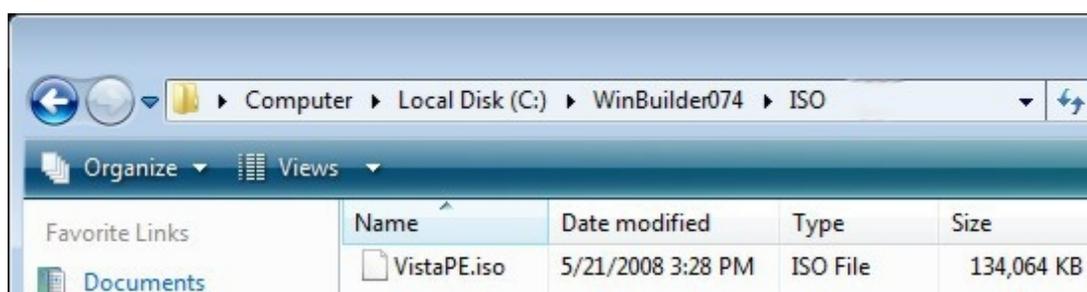


- You can view the build log by clicking on the Log button.



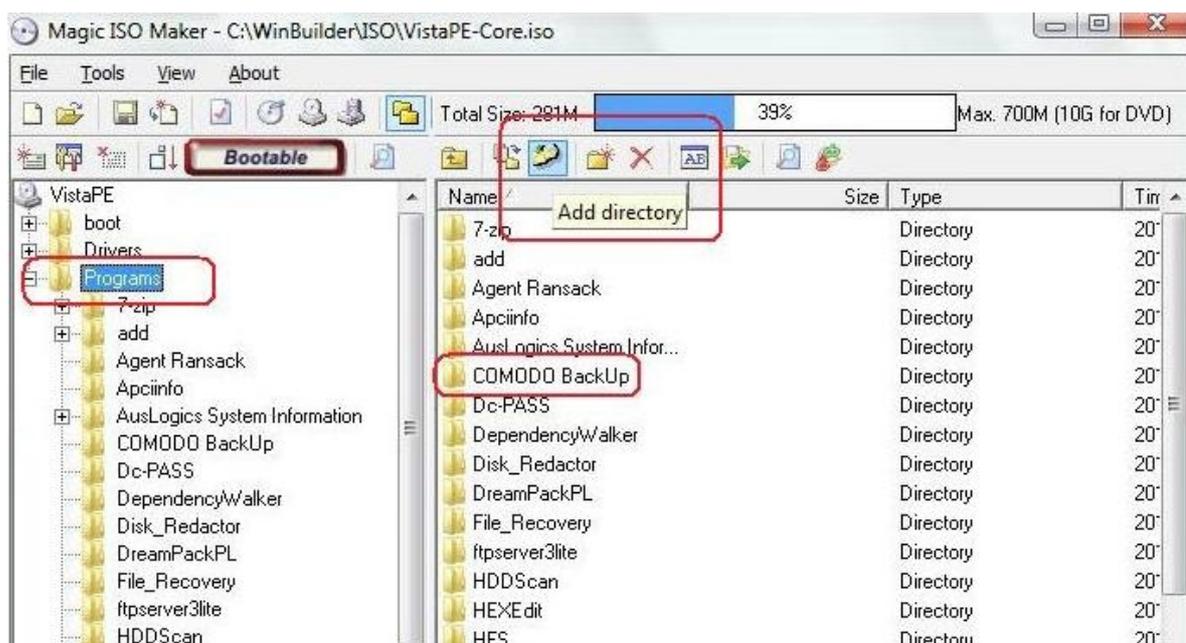
**Note:** It is not uncommon to have one or more warnings in a build. If there are any errors, you can browse the log and see what is causing the problem.

- The created VistaPE CD ISO file can be found the ISO sub-folder in the folder in which WinBuilder was installed. In this example, it is in the C:\WinBuilder074\ISO folder.



- Add **Comodo BackUp** to the VistaPE image

Before adding Comodo Backup, copy from C:\Windows\System32\oledlg.dll to the Comodo BackUp install directory. In order to add Comodo Backup folder to the .iso image you can use one of the .iso software applications which should allow to add an entire directory to the existing image. Launch the software and open the .iso file. Add Comodo BackUp directory to 'Programs' folder contained by the .iso file. In the below image you can view this operation done with Magic ISO.



After adding Comodo BackUp directory, save the changes to the VistaPe.iso image.

This ISO file can be burned to a CD using any ISO capable burning program . You'll just be burning the VistaPE.iso file to a CD instead of the WAIK img file to a DVD).

You may to consider using CD-RW media for burning your VistaPE CD. This will allow you to reuse the CD as you go through the process of finalizing your VistaPE build.

You have completed building a plain VistaPE CD. Make sure the computer is set to boot first from the CD/DVD drive, insert the VistaPE CD and reboot the computer.

### Creating Windows 2008 server image with Windows PE

Windows Server 2008 boot process is almost the same as Windows Vista. If you want to use the install.wim from the installation media, you can change the following steps a bit according to your requirement.

There are brief steps (note the step 3 will be a little different):

**Step 1:** Copy the Windows product DVD source files to a network share.

**Step 2:** Create a master installation.

**Step 3:** Capture an image of the installation.

- Boot the master computer by using your bootable Windows PE media.
- At a command prompt, capture an image of the installation. You can use ImageX command-line utility like this

```
imagex /compress <type> /capture c:\image_directory d:\imaging\data.wim 'new_image_file'
```

For more details, please refer to the 'Windows Preinstallation Environment (Windows PE) User's Guide' document included in Windows AIK.

- Replace the default Install.wim on the network share with your custom image. The image must be called Install.wim.

**Step 4:** Create a custom answer file.

**Step 5:** Deploy the image by using Windows Setup.

### Creating a Windows 7 image with Windows PE

The primary tool for customizing Windows PE 2.0 is PEimg, a Windows PE command-line tool. After creating a customized image, you can deploy the image to a hard disk or create a bootable Windows PE RAM disk on a CD-ROM, a USB flash drive (UFD) or a hard disk.

A Windows PE RAM disk boots directly into memory and is assigned the drive letter X, which does not correspond to the media (for example, a UFD or a CD-ROM) from which you booted. Ensure that you have sufficient memory to support the size of your Windows PE image plus any additional memory requirements, for example, if you plan on running any

customized applications that need additional working memory.

**Step 1: Set up a Windows PE Build Environment**

**Step 2: Mount the Base Windows PE Image**

**Step 3: Add Additional Package**

**Step 4: Add Additional Customizations**

**Step 5: Add Comodo BackUp**

**Step 6: Commit Changes to the Image**

**Step 7: Replace the Default Boot.wim File**

## System Requirements:

To build a technician computer, you will need:

- An x86- or x64-based computer running Windows XP, Windows Vista, or a Windows Server 2003 operating system.
- Windows OPK or Windows AIK.
- A CD or DVD burner to create portable media.
- Image-burning software.
- .NET Framework 2.0 (provided with the tools during setup).
- Network access, to download the latest updates (if you plan to use the technician computer as a network share).

## Default Installation Directories

By default, the Setup creates the following directory structure

C:\Program Files\<>version>\Docs\

C:\Program Files\<>version>\Recovery\

C:\Program Files\<>version>\Samples\

C:\Program Files\<>version>\SDKs\

C:\Program Files\<>version>\Tools\

## Step 1: Set up a Windows PE Build Environment

Create a required directory structure that supports building a Windows PE image.

- On your technician computer, click Start, point to All Programs, point to Windows OPK or Windows AIK, and then click Windows PE Tools Command Prompt. The menu shortcut opens a Command Prompt window and automatically sets environment variables to point to all the necessary tools. By default, all tools are installed at C:\Program Files\version\Tools, where version can be Windows OPK or Windows AIK.
- At the command prompt, run the Copype.cmd script. The script requires two arguments: hardware architecture and destination location. For example,

```
copype.cmd <architecture> <destination>
```

where <architecture> can be x86, amd64, or ia64 and <destination> is a path to the local directory. For example,

```
copype.cmd x86 c:\winpe_x86
```

The script creates the following directory structure and copies all the necessary files for that architecture. For example,

```
\winpe_x86
```

```
\winpe_x86\ISO
```

```
\winpe_x86\mount
```

This command copies all of the X86 files into a folder called c:\WinPE

## Step 2: Mount the Base Windows PE Image

Mount the base image to a local directory so that you can add or remove packages.

- At the command prompt, mount the base Windows PE image (Winpe.wim) to the \Mount directory by using ImageX. For example,

```
imagex /mount /w c:\winpe_x86\winpe.wim 1 c:\winpe_x86\mount
```

## Step 3: Add Additional Package (this step is optional)

Install additional packages:

In order to start Comodo BackUp GUI, you need to install an additional package to your basic WinPE image and this is winpe-hta.cab. Otherwise, you can just copy oledlg.dll from C:\Windows\System32 to Comodo Backup install directory.

Use the following command line in order to install any packages:

```
dism /image:%WINDIR%\mount /Add-Package /PackagePath:"%Program Files%\Windows AIK\Tools\PETools\x86\WinPE_FPs\<PackageName>.cab"
```

For example:

```
dism /image:c:\winpe_x86\mount /Add-Package /PackagePath:"c:\Program Files\Windows AIK\Tools\PETools\x86\WinPE_FPs\winpe-hta.cab"
```

## A list of the available packages and their functions

Package Name	Description
WinPE-FONTSupport-<region>-Packages	Additional font support for ja-jp, ko-kr, zh-cn, zh-hk, and zh-tw.
WinPE-HTA-Package	HTML application support
WinPE-MDAC-Package	Microsoft Data Access Component support
WinPE-Scripting-Package	Windows Script Host support
WinPE-SRT-Package	Windows Recovery Environment component (available only on the Windows OPK)
WinPE-WMI-Packages	Windows Management Instrumentation (WMI) support
WinPE-XML-Package	Microsoft XML (MSXML) parser support

- Repeat Step 1 for each package.

## Step 4: Add Additional Customizations

This step is optional but recommended. You can add applications and scripts to your Windows PE image that you might need while working in Windows PE. The following is a list of common tools to include in your Windows PE image.

- **ImageX**

A command-line tool for capturing and applying images during deployment scenarios. For example, at a command prompt,

```
copy "c:\program files\<>version>\Tools\x86\imagex.exe" c:\winpe_x86\iso\
```

Package Manager (Pkgmgr.exe)

A tool for servicing Windows image (.wim) files offline. You must copy the entire \Servicing folder and MSXML6 binaries. Offline servicing requires ImageX. For example,

```
xcopy "c:\program files\<>version>\Tools\<>architecture>\Servicing" c:\winpe_x86\iso\Servicing /s
```

```
copy %windir%\system32\msxml6*.dll c:\winpe_x86\iso\Servicing
```

where <version> can be Windows OPK or Windows AIK and <architecture> can be x86, amd64 or ia64. In both previous examples, the tools are not loaded into memory during a Windows PE RAM boot. The media must be available to access the tools.

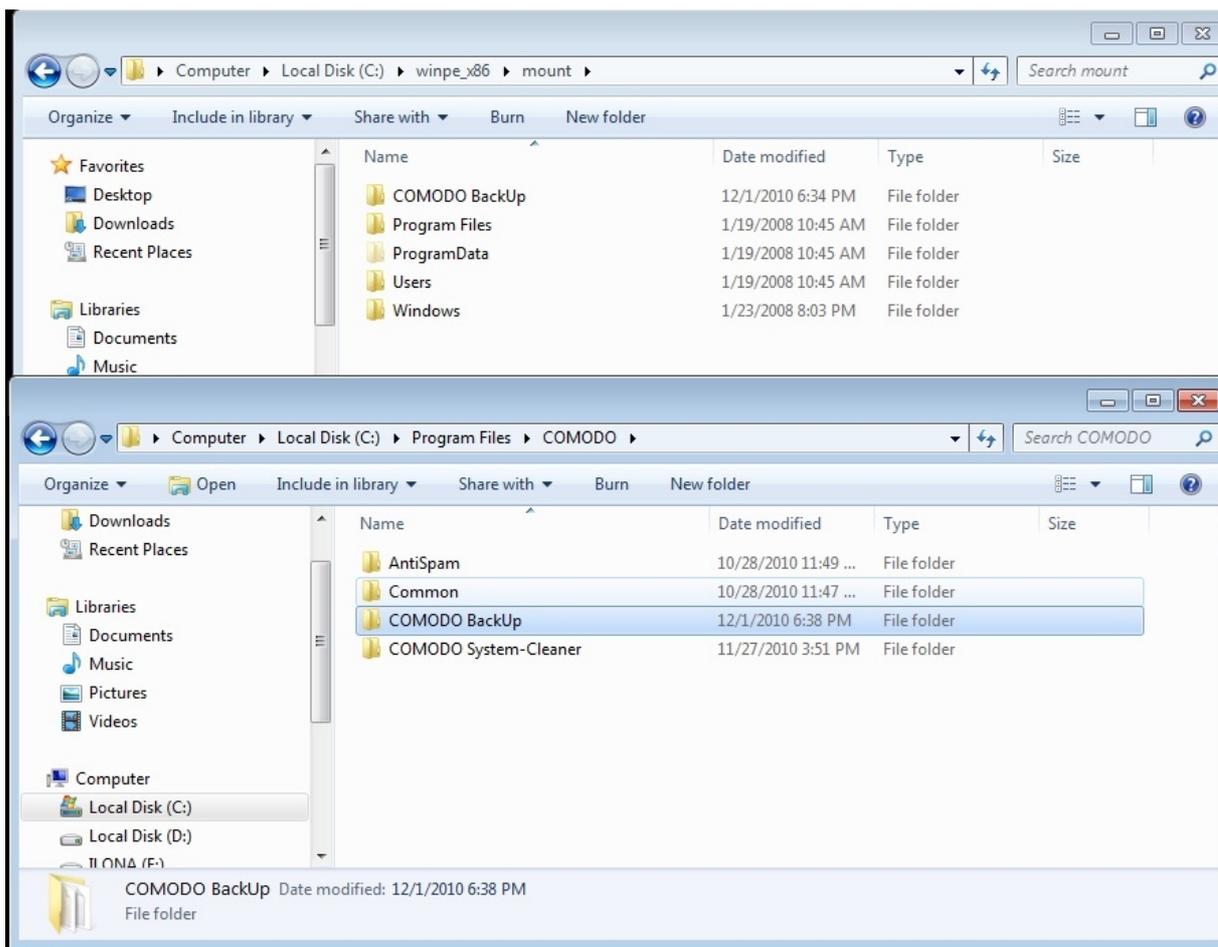
To load the tools into memory along with Windows PE, copy the source files into the mounted \Windows directory. For example,

```
c:\winpe_x86\mount\Windows
```

**Important:** Adding files to the \Windows directory will increase the size of your Windows PE RAM image. Ensure that your computer has sufficient memory to boot Windows PE and to run various applications.

## Step 5: Add Comodo BackUp

Copy the Comodo BackUp install directory to *C:\winpe\_x86\mount*.



## Step 6: Commit Changes to the Image

Commit the changes to the original image file (Winpe.wim) by using the ImageX /unmount option with the /commit option. For example,

```
imagex /unmount c:\winpe_x86\mount /commit
```

## Step 7: Replace the Default Boot.wim File

Replace the default Boot.wim in the ISO directory with your new customized image. The image must be called Boot.wim. For example,

```
copy c:\winpe_x86\winpe.wim c:\winpe_x86\ISO\sources\boot.wim
```

You have a customized Windows PE RAM disk image that you can place on bootable media, like a CD-ROM or a UFD.

# Booting Windows PE

After creating a custom Windows PE image, you must decide how the image will boot up and where it will run from. The first method is booting from a removable media into random access memory (RAM) and then running directly from a RAM disk. The second method is booting and running directly from a CD or the hard disk.

**Tip:** A USB flash drive consists of a flash memory data storage device integrated with a USB (Universal Serial Bus). USB flash drives are typically removable and rewritable, and physically much smaller than a floppy disk.

There are methods of starting Windows PE by using a RAM disk. You can create bootable Windows PE RAM disk images on:

- CD-ROM.
- A USB flash drive (UFD).

Normally, when you start a computer from a hard disk drive, a CD-ROM, or a Windows DS (PXE) server, Windows keeps operating system file handles open and dedicated to that instance of Windows. Therefore, you cannot remove the CD that you used to start the computer and insert another CD. You cannot delete the hard disk partition from which you started the computer. The Windows DS (PXE) server that is used to start the computer must keep those file handles open, and Windows PE client computers cannot be detached from the network without causing Windows PE to become unstable.

The size of Windows PE enables the entire Windows PE operating system image to load into random access memory (RAM) and to start the computer from a RAM disk. The RAM disk boot feature provides a virtual CD file system in memory.

The Windows operating system Setup Loader now supports loading Windows PE from a RAM disk. The RAM disk driver supports loading an ISO-9660 (CD) image as a RAM disk.

Booting Windows PE from a RAM disk enables you to:

- Swap the CD that is used to start the computer and insert another CD to add drivers, utilities, applications, or a Windows operating system image.
- Start the computer from a Windows DS (PXE) server with the ability to disconnect from the network once Windows PE has loaded. After the initial download of the Windows PE image, there is no longer any dependency on network resources, such as file handles, which normally must remain loaded until the Windows PE client computer restarts.
- Delete and repartition the hard disk from which Windows PE has just started.
- Decrease total boot time.

## Creating a bootable CD-ROM

- At the command prompt, create a .iso file by using oscdimg. For example,  
`oscdimg -n -bc:\winpe_x86\etfsboot.com c:\winpe_x86\ISO c:\winpe_x86\winpe_x86.iso`

For IA-64 architecture, replace Etfsboot.com with Efsys.bin.

- Burn the image (Winpe\_x86.iso) to a CD-ROM.

## Creating a bootable UFD

- Login to your Operation system. Insert your UFD device.
- At a command prompt, use Diskpart to format the device as FAT32 spanning the entire device, setting the partition to active. For example,

```
diskpart
select disk 1
clean
create partition primary size=<size of device>
select partition 1
active
format fs=fat32
assign
exit
```

where the value of disk 1 is equal to UFD.

- On your technician computer, copy all the content in the \ISO directory to your UFD device. You can manually create the directory structure or use the xcopy command to automatically build and copy the appropriate files from your technician computer to your UFD device. For example,

```
xcopy c:\winpe_x86\iso\*.* /s /e /f f:\
```

where c is the letter of your technician computer hard disk and f is the letter of your UFD device.

## Launching Comodo BackUP using Windows PE

**Note:** In order to launch Comodo BackUp using Vista, you must copy C:\Windows\System32\oledlg.dll to your Comodo BackUp installation directory (default = C:\Program Files\COMODO\COMODO Backup\).

1. Boot your system using the Windows PE CD/DVD or USB that you have created. Open the command prompt and switch to the drive upon which you have installed. (for example,

X:\windows\system32> D:

where 'x' is the boot drive and 'D' is the installation drive.

2. Use the CD command to point to the Comodo BackUp installation directory. For example,

D:\CD Program Files\COMODO\Comodo Backup\

3. Open cbu.exe. For example,

D:\Program Files\Comodo\Comodo Backup\cbu.exe.

```

Administrator: X:\Windows\system32\cmd.exe
[\\computername [/CACHE] ; [/ALL] ; /DOMAIN[:domainname]]
The syntax of this command is:
NET VIEW
[\\computername [/CACHE] ; [/ALL] ; /DOMAIN[:domainname]]
The syntax of this command is:
NET VIEW
[\\computername [/CACHE] ; [/ALL] ; /DOMAIN[:domainname]]
Load vdbus driver
DrvLoad: Successfully loaded x:\Program Files\Comodo\Comodo Backup\vdbus.inf.
X:\Windows\system32>d:
D:\>cd "Program Files"
D:\Program Files>cd COMODO
D:\Program Files\COMODO>cd "COMODO Backup"
D:\Program Files\COMODO\COMODO Backup>cbu
D:\Program Files\COMODO\COMODO Backup>
    
```

## Bart's PE (Bart's Preinstalled Environment)

This is a lightweight variant of Microsoft Windows XP or Windows Server 2003 32bit operating systems, similar to a Windows Preinstallation Environment, which can be run from a Live CD or Live USB drive.

A BartPE system image is created using PE Builder. It requires a legal copy of Windows XP or Windows Server 2003. Additional applications can be included in the image using plugins. It complete Win32 environment with network support, a graphical user interface (800x600) and FAT/NTFS/CDFS filesystem support.

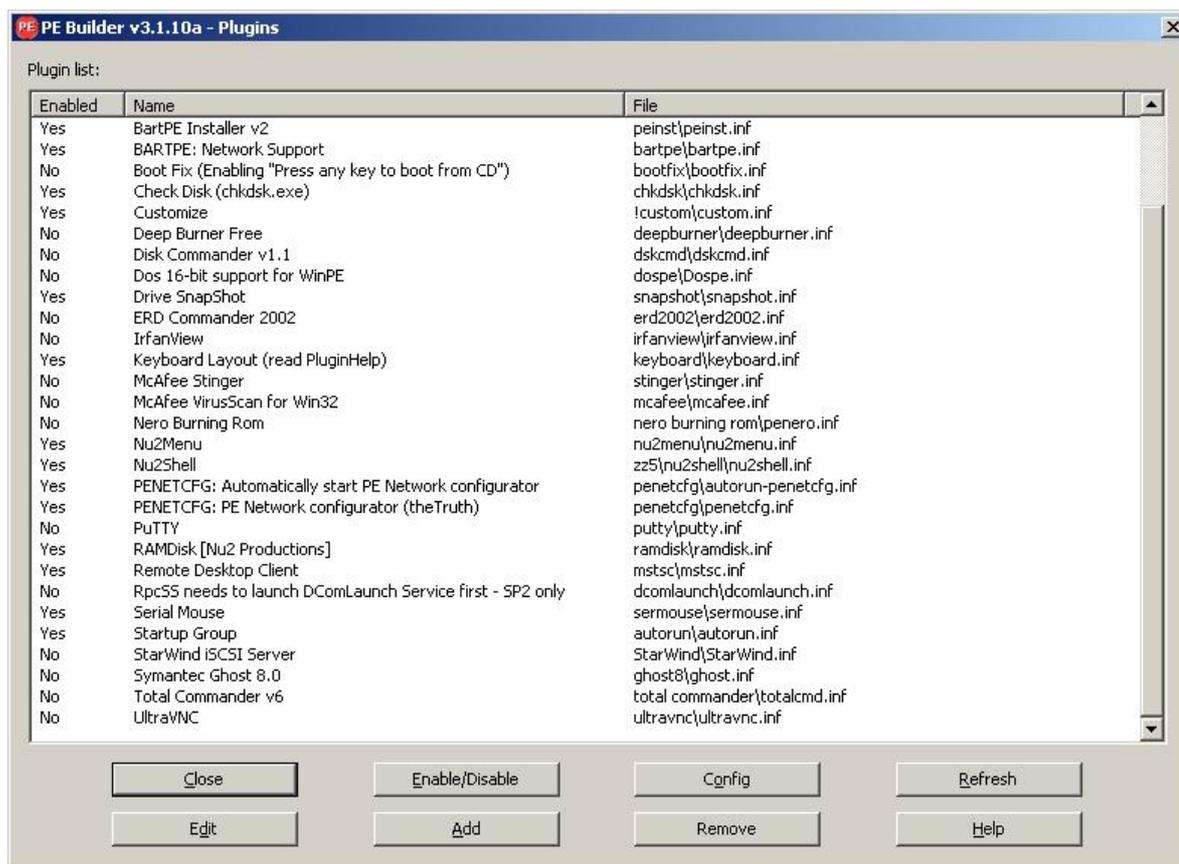
Requirements to build
Supported Windows version: <ul style="list-style-type: none"> <li>Windows XP Home Edition (slip streamed with Service Pack 1 or higher)</li> <li>Windows XP Professional (slip streamed with Service Pack 1 or higher)</li> <li>Windows Server 2003, Web Edition</li> <li>Windows Server 2003, Standard Edition</li> <li>Windows Server 2003, Enterprise Edition</li> </ul>
PE Builder runs on Windows 2000/XP/2003/BartPE systems
CD/DVD writer to create a bootable CD/DVD

## To create BartPE CD:

1. Make sure that your system has about 500MB of free disk space.
2. Download the latest PE Builder version (self-installing package) and install it.
3. Start PE Builder (*pebuilder.exe*). When you start PE Builder for the first time it will ask if you agree with the license agreement.
4. PE Builder will ask to search for windows installation files. If you don't have your windows XP setup/installation files on your system you must insert the original Microsoft Windows XP installation/setup CD at this point. The files you have at *c:\windows* are not installation files. They are your already installed files. Click "yes" to start searching. PE Builder will now search all fixed- and CD-Rom drives for Windows installation files. This will take some time. When more than one valid location is found, a dialog will appear where you can select which location you want to use.
5. In order to include the install directory of Comodo BackUp you need to specify the path in 'Custom (include files and folders from this directory)' field. Make sure you browse for *C:\Program Files\COMODO*, this way the content of this folder (the sub-folder Comodo BackUp) will be included in the output.



By clicking 'Plugins' in the main-menu, you will reach the list of all the plugins that can be found in the plugin folder. Some of these folders will be Enabled (they will be included in the created output) and some will be Disabled (they will not be included in the output). All of the listed plugins are free software programs that, if Enabled, you will be able to run once you successfully create the bootable CD and actually boot with it. You can go through the list and set Enable / Disable for all the available plugins to your liking.



6. At the main PE Builder dialog, select the "Burn to CD/DVD" option. When you are using an erasable medium, make sure that the 'AutoErase RW' option is enabled. The "burn using" option should be set to 'StarBurn'. Select your CD writer device from the Device list.

7. Hit the "build" button. PE Builder will now ask you to create a BartPE directory, answer with 'yes'.

8. The license for your Microsoft Windows XP product is shown. Read it and agree to it to continue.

9. PE Builder will now start building BartPE. This will take a few minutes.

You will see a lot of files getting copied and/or decompressed, the ISO image build and the data recorded to your CD/DVD writer. If the data verify was correct and there where no errors reported you can boot the CD/DVD.

### Features and Benefits:

- BartPE is not supported by Microsoft. Windows PE is an official Microsoft product.
- BartPE has a graphical user interface. Windows PE has a command line interface.
- The tools needed to make a BartPE installation are free software. Windows PE is available only to Microsoft OEM users.
- BartPE allows unlimited custom plugins. Windows PE has a limited range of plugins options.
- Accessing very large (>2TB) NTFS volumes or accessing volumes that are not seen by the BIOS, like some fibre channel disks.
- Very reliable scanning and cleaning of viruses on NTFS volumes using a 'clean boot'.
- Active Directory support.
- Have remote control over other machines, using vnc or remote desktop.

## About Comodo

The Comodo companies are leading global providers of Security, Identity and Trust Assurance services on the Internet. Comodo CA offers a comprehensive array of PKI Digital Certificates and Management Services, Identity and Content Authentication (Two-Factor - Multi-Factor) software, and Network Vulnerability Scanning and PCI compliance solutions. In addition, with over 10,000,000 installations of its threat prevention products, Comodo Security Solutions maintains an extensive suite of endpoint security software and services for businesses and consumers.

Continual innovation, a core competence in PKI and a commitment to reversing the growth of Internet-crime distinguish the Comodo companies as vital players in the Internet's ongoing development. Comodo, with offices in the US, UK, China, India, Romania and the Ukraine, secures and authenticates the online transactions and communications for over 200,000 business customers and millions of consumers, providing the intelligent security, authentication and assurance services necessary for trust in on-line transactions.

### Comodo Security Solutions, Inc.

525 Washington Blvd. Jersey City,

NJ 07310

United States

Tel: +1.888.256.2608

Tel: +1.703.637.9361

Email: [EnterpriseSolutions@Comodo.com](mailto:EnterpriseSolutions@Comodo.com)

### Comodo CA Limited

3rd Floor, 26 Office Village, Exchange Quay, Trafford Road,  
Salford, Greater Manchester M5 3EQ,

United Kingdom.

Tel : +44 (0) 161 874 7070

Fax : +44 (0) 161 877 1767

For additional information on Comodo - visit <http://www.comodo.com>.