



# Comodo Unknown File Hunter

Software Version 5.0

## Administrator Guide

Guide Version 5.0.073118

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## 1 Introduction to Comodo Unknown File Hunter

It is estimated that traditional antivirus software can only catch 40% of all malware in the world today. The other 60% are 'unknown'. An advanced persistent threat (APT) is an 'unknown' piece of malware that is so well hidden it can be months before a traditional anti-virus catches up to it. During this time, the threat continues to reside on the victim's computer, executing its payload all the while.

Comodo Unknown File Hunter (UFH) is a lightweight scanner which identifies unknown, and potentially malicious files, on your network. After scanning your systems, it will classify all audited files as 'Safe', 'Malicious' or 'Unknown'. While 'Safe' files are OK and 'Malicious' files will be deleted immediately, it is in the 'unknown' category that most zero-day threats are found. UFH allows you to upload these files to our Valkyrie servers where they will undergo a battery of run-time tests designed to reveal whether or not they are harmful. You can view the results of these tests in the UFH interface.

revious Scans	Current	t Scan 🔟 Create Re	port 🍥 Options	(i) Help	Login
2 Search					Q
Scan Summary		Scan Date	Scan Target	Scan Type	
Computers scanned: 1. Total files	scanned: 1222. Unknown: 0. M	6/25/2018 3:34:46 PM	Auto Discovery	Quick Scan	Detailed Results
Computers scanned: 1. Total files	scanned: 2. Unknown: 0. Malic	6/25/2018 4:52:11 PM	Local Computer	Custom Scan	Detailed Results
Computers scanned: 1. Total files	scanned: 1231. Unknown: 0. M	6/25/2018 5:04:39 PM	Auto Discovery	Quick Scan	Detailed Results
Computers scanned: 1. Total files	scanned: 7. Unknown: 0. Malic	6/25/2018 5:24:34 PM	Local Computer	Custom Scan	Detailed Results
🚑 Scan Failed.		6/26/2018 10:56:52 AM	Active Directory	Quick Scan	
Computers scanned: 1. Total files	scanned: 7. Unknown: 0. Malic	6/26/2018 11:17:50 AM	Local Computer	Custom Scan	Detailed Results

Features

- No installation required. You can run UFH direct from a USB stick
- · Capable of scanning computers from Active Directory, Workgroup or by Network Address
- · Unknown files can be automatically uploaded to Comodo Valkyrie and tested for malicious behavior
- Detailed reports provide invaluable insights into the trust level of files on your network

This guide is intended to take you through the use of Comodo UFH and is broken down into the following main sections.

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- Introduction
- Run Unknown File Hunter
- Scan Computers
  - Scan Computers using Active Directory
  - Scan Computers by Workgroup
  - Scan Computers by Network Addressees
  - Scan Local Computer
- Scan Results
  - Comodo Unknown File Hunter Tool Scan Results
  - Valkyrie Analysis Results
- Reports
  - Executive Report
  - Device Report
  - Program Report
- About Unknown File Hunter
- Agent Requirements

## 2 Run Unknown File Hunter

Comodo Unknown File Hunter can be downloaded from:

- Comodo One (C1)
- Comodo Valkyrie website

#### **Comodo One**

Unknown File Hunter is available for download from your C1 account:

- Login to your C1 account at https://one.comodo.com/
- Click 'Tools' > Click 'Download' in the Unknown File Hunter tile
  - You can sign up for a free C1 account at https://one.comodo.com/. Creating a C1 account also creates a Valkyrie account for you.
  - You can login to UFH and Valkyrie with your C1 username/password

#### **Comodo Valkyrie Website**

- Go to https://valkyrie.comodo.com/
- Click 'Download Unknown File Hunter'
  - You can create a Valkyrie account at https://valkyrie.comodo.com
  - Note when you create a Valkyrie account, a new C1 account is not created.

#### **Run Unknown File Hunter**

• Launch the tool by double-clicking on the application icon:

🔄 UnknownFileHunter

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• Next, choose the location from which the app should run:

🚍 Comodo Unknown File Hunter		×
Destination path (will be created if does not exist)		
C:\Program Files (x86)\Comodo\UnknownFileHunte	er	
	ОК	Cancel

The default location is C:\Program Files (x86)\Comodo\UnknownFileHunter. Click the folder icon to change
the path if required. Note: This dialog will appear each time you run the application and you can choose
different locations as you prefer.

🚍 Comodo Unknown File Hunter 100%	×
Starting	
Cancel	

• Please read the EULA before continuing. Click the 'License agreement' link to read the full agreement. Click 'I Accept' to continue. Note: The EULA will appear when you first run the tool on a computer.

Unknown File H	lunter
	License Agreement Please read the following license agreement carefully License agreement
	By clicking 'I ACCEPT', you agree you have read and accepted COMODO Unknown File Hunter License Agreement
	Cancel I ACCEPT

• The app will search for available devices on your network:

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20% Searching for Available Devices	🕞 Previous Scans 🐽 Create Report 🍥 Options 🚺 Help 🛛 Login
4 Devices Found	Skip Discovery
Q Search by Computers	
Name Name	IP
10.0.2.2	10.0.2.2
10.0.2.3	10.0.2.3
10.0.24	10.0.2.4

• Select all devices that you want to scan and click 'Scan Now'.

Discovery Completed	🥱 Previous Scans 🔟	Create Report 🛞 Options (1) Help	D Login
			Scan Now
			Custom Scan
Devices Found			Restart Discovery
Q Search by Computers			
Name		IP	
🔲 🧕 10.0.2.2		10.0.2.2	
10.0.2.3		10.0.2.3	
		10.0.2.4	
DESKTOP-HI950BN.comodo.ch		10.0.2.15	

#### 2.1 The Main Interface

The main interface lets you configure and run scans, view results and generate risk reports.

COMODO Unknown File Hu		_ 🗆
Discovery Completed	Previous Scans (Interpretent Create Report	Options () Help Login
	Control 1	言 Scan Now
4	Controls	🔚 Custom Scan
Devices Found		☐ Restart Discovery
Q Search by Computers		
Name	Adain Diantan Anan	IP 10.0.2.2
10.0.2.3	Main Display Area	10.0.2.3
10.0.2.4		10.0.2.4
DESKTOP-HI950BN.comodo.ch		10.0.2.15

#### **Main Functional Areas**

- Menu Bar Shows the current status of the scan and contains the following buttons:
  - Previous Scans / Current Scan View results of past scans / current scan.
  - Create Report View reports generated by the UFH tool. See 'Reports' for more details.
  - Options Shows the port numbers that UFH uses to communicate with our file lookup service (FLS).

The FLS is used to deliver real-time verdicts on the trust status of unknown files. Admins should leave these ports at the default.

Options				$\times$
-				
	LS TCP Port			
FL	S UDP Part	53		
				_
	Ca	ncel	Save	

• Help - Contains 'About' and 'Agent Requirements'

'About' - shows product and version information.

'Agent Requirements' - Troubleshooting advice if you experience problems connecting to your target computer.

- Login You can use the tool as a guest or login as a registered user. See 'Login to UFH' for more information.
- Controls On the left, UFH shows messages such as the number of devices found, number of malicious files detected and so on. Also contains control buttons for:
  - Scan Now / New Custom Scan / Stop Scan Scan target computers to identify unknown files. You can add computers via Active Directory, Workgroup or Network Addresses.
    - Scan Now Shown when you first open the application.
    - New Custom Scan Shown after you have run the first scan for the session.
    - Stop Scan Cancel a scanning process.
    - See 'Scan Computers' for more details.
  - Custom Scan / Detailed Scan Results
    - Custom Scan Configure your scan. You can scan by Active Directory, network address, workgroup and local computer. See 'Scan Computers' for more information.
    - Detailed Scan Results Shown after a scan is completed. Click this button to view full results of the scan at https://valkyrie.comodo.com. See 'Valkyrie Analysis Results' for more information.
  - Start Discovery / Skip Discovery / Restart Discovery Start/stop discovery of devices on your network.
  - Main Display Area Details of discovered endpoints, scanned endpoints and scan results. See 'Scan Computers' and 'Scan Results' for more details.
    - Search Look for discovered endpoints by name or IP.
    - Notifications Information about unknown and malicious files detected after a scan finishes. Click the 'Edit Email' button to change the recipient list for Valkyrie analysis results.

COMODO Creating Trust Online Unknown File Hunter				_ 🗆 ×
Scan Completed (Files: 9   Computers: 1 of 1)	Previous Scans	🐽 Create Report	Options (	i) Help Login
Z (22.22%) Clean Files 7 (77.78%) Malicious Files				New Custom Scan       Image: Constraint of the second
Watch out! Malware Is Detect Comodo Unknow File Hunter has scann that you reconsider your current securit <u>Comodo Advanced Endooint Protection</u> and reporting capabilities. It follows "De unknown files inside a secure container use such unknown files with no impact t	ed your environment and detect y posture to eliminate the dange keeps your endpoints free from fault Deny* posture which allow until a definitive verdict of *good	r of infecting your endp n malware now and in th s known files to freely ru d" or "bad" is delivered.	points. The future and provides un, blocks bad files and	s essential management d automatically launches
When all the files are analyzed,	you will receive a detailed repor	t at domersa@yopmai	Lcom	Edit Email
Comodo Unknown File Hunter is part of the Comodo ON	E portfolio of security solutions.	Visit <u>one.comodo.com</u> t	o learn how Comodo	can help protect your environment.

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#### 2.2 Login to UFH

• Open the UFH executable to start the application.

COMODO Creating Trust Online Unknown File Hunter					_ 🗆 ×
Discovery Completed	Previous Scans	(n) Create Report	Options	(i) Help	Login
6				i≣ so	an Now
				- 📇 - Ci	ustom Scan
Devices Found				L.O R	estart Discovery
Q Francis by Computers			10		

- Click 'Login' at top-right of the screen.
- If you do not login, you can scan but cannot upload unknown files to Valkyrie for analysis.

Comodo ONE login	×
Please sign in with Comodo License Account credentials to analyze files with Valkyrie	Please sign up to Comodo ONE if you don't have a Comodo ONE account yet
Enter User Name	Valkyrie which is a service provided in <u>Comodo ONE</u> is a cloud-based file analysis service for submitted known and unknown files with a range of static and
Enter Password	dynamic detectors including file lookup, heuristics and real-time behaviour analysis
or	
Enter License	
OK <u>Continue as</u>	Guest User Sign Up

- Click 'Continue as Guest User' if you want to login later on, or if you do not have an account.
- Existing users login with your Comodo or Valkyrie username/password, or with your Valkyrie license number.
- If you do not have a license, click 'Sign Up' to create a free C1 account.

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## 3 Scan Computers

There are multiple ways you can scan computers for unknown files:

- Active Directory Scan endpoints which belong to an Active Directory domain
- Workgroup –Scan endpoints that belong to a workgroup
- Network Address Scan endpoints by specifying their host name/IP address, or scan all endpoints on an IP range
- This Computer Scan your local device.

Discovery Completed	Denviewe Come	Create Derect	Octions		
Discovery Completed	Previous Scans	向 Create Report	Options	(i) Help	Guest 🗸
				i Scan	
					om Scan
4 Devices Found					rt Discovery
				i© Nesta	n biscovery
Q Search by Computers					
Name Name			IP		
			10.0.2.	2	
10.0.2.3			10.0.2.	3	
10.0.2.4			10.0.2.4	4	
DESKTOP-HI950BN.comodo.ch			10.0.2.1	15	

See the following sections for help on each method:

- Scan Computers using Active Directory
- Scan Computers using Workgroup
- Scan Computers by Network Addresses
- Scan Computers by Custom Scan

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#### 3.1 Scan Computers using Active Directory

To scan all or selected endpoints in an Active Directory domain:

Open Unknown File Hunter

•

- Click the 'Custom Scan' \ 'New Custom Scan' button
- Select 'Active Directory' to open the AD configuration screen:

COMODO Creating Trust Online Unknown File Hunter		_ 🗆 ×
Start Scan Wizard	×	(j) Help Login
Select Scan Targets  + + + + + + + + + + + + + + + + + +	Network Addresses Scan computers with specified IP addresses or endpoint names	Custom Scan
Workgroup Scan computers selected from Workgroups	This Computer Scan This Computer	
Comodo Unknown File Hunter is part of the Comodo ONE port	folio of security solutions. Visit <u>one.comodo.com</u> to learn how Com	odo can help protect your environment.

Enter the name of your Active Directory domain and provide admin username and password:

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Start Scan Wiza	ard			×
	Active Directory Creden	tials		
	Domain Name	Enter Domain Name		
	Domain Administrator	Enter Domain\Administrator		
	Password	Enter Password	1	
Back			Nex	(t

- After logging in, the 'Select Computers' screen will open:
- Choose the endpoints that you want to scan and a scan type:

Quick Scan: Scans critical and commonly infected areas of target endpoints

Full Scan: Scans all files and folders on target endpoints.

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Start Scan Wiz	ard	×
	Select Computers	
	<ul> <li>mike</li> <li>Computers</li> <li>Domain Controllers</li> </ul>	
Back	Next	

- Click 'Scan Now' to begin the scan.
- Scan progress is shown for each computer, including the number of unknown files and malicious files found so far. Overall scan progress is shown on the menu bar.

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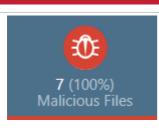
68% Scan In Progress (Files: 1738   Computers: 1 of 3)	Previous Scans	👜 Create Report	Options (	i) Help cht		rie N
<b>1736</b> (99.88%) Clean Files <b>2</b> (0.12%) In Analysis				<ul> <li>Stop Scar</li> </ul>		
Q Search by Computers				Group by		<u>i</u>
Name			Size	Verdict		
DESKTOP-E0HU211 (10.108.57.37	960 files scanned (36.34%). Unkn	own: 0. Malicious: 0. In Ar	a	In Progress		
WIN-PC (10.108.57.118) Complete	ed: Total files scanned: 778. Unknov	vn: 0. Malicious: 0.		Completed		
DESKTOP_JKLMNOP This compute	er is not accessible.			Offline		
When all the files are stand	you will receive a detailed report a		Q1	Edit	Empil	
when all the files are analyzed,	you will receive a detailed report a	t chrisgayiec toperations	@gmail.com	CUIL	iman	

- 'Stop Scan' Discontinue the scan.
- · 'Edit Email' Specify the email address to which the scan report should be sent

The tiles above the scan area show how many files of each type have been found so far:

(99.88%) Clean Files	Safe files. These files are on the Comodo whitelist are OK to run.
G 3 (0.14%) In Analysis	<ul> <li>Unknown, potentially malicious files.</li> <li>These files are automatically uploaded to Valkyrie for analysis during the scan.</li> <li>You can view the analysis results by signing in to your Valkyrie account at https://valkyrie.comodo.com/login</li> <li>You also can sign into Valkyrie with your Comodo One username and password.</li> <li>See 'Valkyrie Analysis Results' for more information.</li> </ul>

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Malicious files. These files are on the Comodo blacklist of known malware and should not be allowed to run on your network.

• Click the funnel icon to filter scans by status:

O Sto	p Scar	۱		
Grou	p by	<u></u>		
Verdict				)
In Progres		In Prog	ress	
In Progres		Cancele Comple		
Offline		Failed		
		Offline		
	C	lear Filt	er	

Results are shown when the scan finishes:

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ican Completed Files: 2099   Computers: 2 of 3)	Current Scan 🐽 Create Report 🍥	Options (	) Help chtw	walkyrie 🔻
2099 (100%) Clean Files			Back to Prev     Detailed Sca	
Q Search by Computers			Group by	<b>Q</b>
Name		Size	Verdict	
	<ol><li>Completed: Total files scanned: 1321. Unknown: 0. Maliciou</li></ol>		Completed	
C\Python27\python.exe	<pre>(microsoft.windows.photos_2018.18041.15530.0_x648wekyb</pre>	64 MB 27 KB	Clean	
	Amicrosoft.windows.photos_2018.18041.15530.0_x648wekyb	852 KB	Clean	
	ted: Total files scanned: 778. Unknown: 0. Malicious: 0.		Completed	
DESKTOP_JKLMNOP This computer the second			Offline	

	Scan Interface - Table of Column Descriptions
Column Header	Description
Name	The name of the computer on which the scan was run. Click '+' to view files discovered on the computer.
Size	The size of the analyzed file.
Verdict	Status of the file. The possible values are:
	<ul> <li>In Progress – Unknown file which is queued for upload to Valkyrie, Comodo's file analysis system</li> </ul>
	Uploading – Unknown file which is currently being submitted to Valkyrie
	In Analysis – Unknown file which is currently being tested by Valkyrie
	Clean – Valkyrie tests found the file is safe to run
	Malicious – Valkyrie tests found the file is harmful and should not be allowed to run
	<ul> <li>No Threat Found – Unknown file which has been passed onto human experts for further testing. Valkyrie's automated tests did not find any malicious behavior, but the file exhibited certain traits which warrant further investigation. We advise you to run this file in the container/sandbox until a full verdict is available, or avoid running it altogether.</li> </ul>

· Each scan result is shown on a different row and contains information such as the number and type of files

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found.

- · 'Clean' Unknown files that have been analyzed by Valkyrie and found safe.
- Click the 'Group By' icons on the right to change how results are displayed:
  - Group by Computer: Lists all computers scanned. Expand any computer to view the unknown / malicious files on those computers.
  - Group by File: Lists all unknown / malicious files discovered by the scan. Expand any file to view the computers on which it was discovered.

#### Group by Computer

		New Custom So		
		🔌 Detailed Scan Results		
		Group by		
	Size	Verdict		
ted: Total files scanned: 7. Unknown: 0. Malicious: 7.		Completed		
		Size	Image: Start Discovery         Group by         Size	

Click the computer icon to view results by computer:

	🕤 Previous Scans 🍈 Creati	e Report 🍈 Options	(j) Help dhi	wvalkyrie N
0			📩 New Cus	
7 (100%) Malicious Files			Start Dise	
Q Search by Computers			Group by	🔘 A
Name		Size	Verdict	4
Iocalhost (127.0.0.1) Completed	d: Total files scanned: 7. Unknown: 0. Malicious: 7.		Completed	

Click '+' beside an endpoint to view the location of the unknown / malicious files

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Name		Size	Verdict
) 🚅 loc	calhost (127.0.0.1) Completed: Total files scanned: 7. Unknown: 0. Malicious: 7.		Completed
le	E:\Suspicious files\All_tests\cpil_suite\CPIL2.dll	184 KB	Malware
🖌 🗟	E\Suspicious files\All_tests\cpil_suite\CPIL3.dll	184 KB	Malware
<b>`</b> [@	E\Suspicious files\All_tests\cpil_suite\CPILSuite.exe	1 MB	Malware
e	E\Suspicious files\All_tests\AWFT\AWFT\setup.exe	985 KB	Malware
e	E\Suspicious files\All_tests\PCFlank\PCFlank.pcflank.exe	176 KB	Malware
e	E\Suspicious files\All_tests\cpil_suite\cpil.exe	104 KB	Malware
6	E:\Suspicious files\All_tests\cpil_suite\cpil.dll	60 KB	Malware
			Edit Email

#### Group by File

· Click the computer with file icon on the right

Q. Search by Files		Group by 🗔 🚺
Name	Size	Verdict
CPIL2.dll 2 instances on 1 computer.	184 KB	Malware
💂 localhost (127.0.0.1) E\Suspicious files\All_tests\cpil_suite\CPIL2.dll		
Iocalhost (127.0.0.1) E\Suspicious files\All_tests\cpil_suite\CPIL3.dll		
CPILSuite.exe (CPILSuite.exe) 1 instance.	1 MB	Malware
🕘 📸 setup.exe 1 instance.	985 KB	Malware
🕙 👸 pcflank.exe (PCFlankLeaktest) 1 instance.	176 KB	Malware
🗄 🛗 cpil.exe 1 instance.	104 KB	Malware

• Click the '+' beside a file to view the number of instances and the path of the file on the endpoint(s)

Valkyrie is an online file verdict service which analyzes the behavior of unknown files with a range of static and dynamic tests. Unknown files are automatically submitted to Valkyrie.

- Click 'Detailed Scan Results' to view verdicts on unknown files.
- Existing users can login by entering their Comodo username/password, or you can create an account.
- Valkyrie results will be shown in the UFH interface and, in more detail, in the Valkyrie portal:

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VALKYRIE =	Yallorie > Dashboard			Q, Analyze New File
EE DASHBOARD * Overview Excent Analysis Requests	Lest 30 days Lest 7 days Last 24 hours Today	* 0	.∝   0	
Unknown File Hunter Scans	Total files uploaded Total file			sing completed
<ul> <li>GETTINGS</li> <li>▶</li> <li>♦</li> </ul>	Malware or PUA File Detected Devices	Malware or PUA File Detected Devices (Global)	Latest Malware Subm STATUS FILET	
	Devices with threats or PUAs 0.0%     Devices without threats or PUAs 100.0%	Devices with threats or PUAs 3.6%     Devices without threats or PUAs 96.4%	O Malware	Ориа

See 'Valkyrie Analysis Results' in 'Scan Results' for more details.

#### 3.2 Scan Computers by Workgroup

To scan all or selected computers in a Workgroup:

- Click the 'Custom Scan' \ 'New Custom Scan' button
- Click 'Workgroup':

COMODO Creating Trust Online Unknown File Hunter		_ 🗆 ×
Discovery Completed	Previous Scans (III) Create Report (     Options	() Help Login
Start Scan Wizard	×	
Select Scan Targets  + + + + + + + + + + + + + + + + + +	Network Addresses Scan computers with specified IP addresses or endpoint names	Custom Scan
+ Scan computers selected from Workgroups	Cancel	
Comodo Unknown File Hunter is part of the Comodo ONE pa	ortfolio of security solutions. Visit <u>one.comodo.com</u> to learn how Como	do can help protect your environment.

• Select the workgroup you want to scan. You can search for a group or enter a group name directly:

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Start Scan Wizar	d		×
	Specify Workgroup		
	Search Available Workgroups (m	ay take some time)	
	O Use Known Workgroup Name	Enter Workgroup Name	
Back		Next	

Next, select the endpoints you want to scan then choose a scan type:

Start Scan Wiza	rd	×
	Select Computers	
	C1TEST	
	COMODO   TEST	
	WORKGROUP	
Back		Next

Enter the administrator's credentials

.

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Start Scan Wiza	ard			×
	Scan Credentials			
	Login	Enter Login		
	Password	Enter Password	<i>₽</i>	
Back		Quick Scan	Full	Scan

Quick Scan: Scans critical and commonly infected areas of target endpoints Full Scan: Scans all files and folders on target endpoints.

The scan will start after the login credentials have been verified:

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🕤 Previous Scans 🛛 🤇	🝈 Create Report (	) Options	(i) Help		. ~
			Stop Scar		
			Group by		Ţ.
		Size	Verdict		
canned (24.73%). Unknown: 0. Malic	ious: 0.		In Progress		
canned (45.11%). Unknown: 0. Malic	ious: 0.		In Progress		
) files scanned (32.47%). Unknown: (	). Malicious: 0.		in Progress		
computer is not accessible.			Offline		
	canned (24.73%). Unknown: 0. Malic canned (45.11%). Unknown: 0. Malic	canned (24.73%). Unknown: 0. Malicious: 0. canned (45.11%). Unknown: 0. Malicious: 0. 0 files scanned (32.47%). Unknown: 0. Malicious: 0.	Size canned (24.73%). Unknown: 0. Malicious: 0. canned (45.11%). Unknown: 0. Malicious: 0. 0 files scanned (32.47%). Unknown: 0. Malicious: 0.	Group by Size Verdict Canned (24.73%). Unknown: 0. Malicious: 0. Canned (45.11%). Unknown: 0. Malicious: 0. Diles scanned (32.47%). Unknown: 0. Malicious: 0.	Group by Scan Group by Size Verdict Canned (24.73%). Unknown: 0. Malicious: 0. Canned (45.11%). Unknown: 0. Malicious: 0. Diles scanned (32.47%). Unknown: 0. Malicious: 0. Canned (32.47%). Unknown: 0. Malicious: 0. Canned (32.47%). Unknown: 0. Malicious: 0.

The remainder of the process is the same as for scanning an Active Directory domain. **Click here** for details about the rest of the process.

#### 3.3 Scan Computers by Network Addresses

To scan computers by specifying their IP address or hostname:

- Click the 'Custom Scan' button
- Click 'Network Addresses'

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Discovery Completed art Scan Wizard	Depuique Sease (b) Grante Booost (C) Optione     X	(i) Help Login
+ + + + + + + + + + + + + + + + + + +	Network Addresses Scan computers with specified IP addresses or endpoint names	Custom Scan
+ Workgroup Scan computers selected from Workgroups	This Computer Scan This Computer	

Next, enter the addresses you want to scan. You can add addresses in the following format:

- IP address 10.0.0.1
- IP range 10.0.0.1-10.0.0.5
- IP subnet 10.0.0.0/24 or 10.0.0.0/255.255.255.0
- Host Name e.g., 'Home Computer'

Start Scan Wizar	d		×
	Network Addresses		
		2	Add
	10.108.51.121/255.255.255.0		Remove
			Remove All
Back			Next

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- Click the 'Add' button to register the item for the scan.
- Repeat the process to add more addresses/host-names.
- Click 'Remove' to delete an item.
- Click 'Next' to continue.
- Login to the target device using either use the existing administrator credentials, or with custom credentials.
- Next, click either the 'Quick Scan' or 'Full Scan' button to start the scan.
  - · Quick Scan: Scans critical and commonly infected areas of target endpoints
  - Full Scan: Scans all files and folders on target endpoints.

9% Scan In Progress iles: 4699   Computers: 2 of 166)	🕤 Previous Scans 🐽 Create Report 🧃	🗑 Options 🚺 Help Gue	st >
<b>4816</b> (99.94%) Clean Files <b>2</b> (0.04%) Malicious File	1 (0.02%) In Analysis	Stop Scan	
Q Search by Computers		Group by	
Name		Size Verdict	闡
CIS-PC (10.8.64.144) 360 files scar	ined (20.36%). Unknown: 0. Malicious: 0.	In Progress	
🔛 DC (10.8.64.156) Login problem: ir	valid username or bad password.	Failed	
DC01 (10.8.64.120) Enumerating a	utoruns: 840	In Progress	
[ DEMO1-WIN7-64 (10.8.64.35) Lo	gin problem: invalid username or bad password.	Failed	
DESKTOP-29HNT6A (10.8.65.5) L	ogin problem: invalid usemame or bad password.	Failed	
DESKTOP-2AP7L3E (10.8.64.157)	Login problem: the trust relationship between this workstati	Failed	
😥 DESKTOP-3AHSBGJ (10.8.64.155)	Login problem: invalid username or bad password.	Failed	
Please enter your email to rec	eive a detailed scan results report: customermail@enterprise.c	om Submit	

The remainder of the process is the same as for scanning an Active Directory domain. Click here for details about the rest of the process.

#### 3.4 Scan Local Computer

To scan the computer you are currently using:

- Click the 'Custom Scan' button
- Click 'This computer':

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COMODO Creating Trust Online	nknown File Hunter			_ 🗆 ×
Start Scan Wizard	•		× <sup>(i)</sup> Help	Login
Select Scan Targets	Active Directory Scan computers selected from Active Directory	Scan computers v specified IP addre or endpoint nam	sses with sses	Now m Scan rt Discovery
	Workgroup Scan computers selected from Workgroups	This Computer Scan This Comput		

• Choose the type of scan you want to run:

Start Scan Wizard		×
Select Scan Type		DESKTOP-HI950BN
Full Scan Scans all the files and folders in the computer.	Quick Scan Scans commonly infected areas and memory.	Custom Scan Scans individually selected folders.
Back		

Quick Scan: Scan critical and commonly infected areas on the local computer

Full Scan: Scan all files and folders on on the local computer

Custom Scan: Scan selected files or folders on the local computer

- · Quick scans and full scans will begin immediately.
- For a 'Custom Scan', you need to choose the directories and files you want to scan:

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Start Scan Wizar	d	×
	Select Directories	
	<ul> <li>inetpub</li> <li>OpenSSL-Win32</li> <li>PerfLogs</li> <li>Program Files</li> <li>Program Files (x86)</li> <li>ProgramData</li> <li>Recovery</li> <li>Scan critical areas of computer which are most often targeted by malware</li> </ul>	
Back	Scan	

- 'Scan critical areas...' If enabled, the scan will cover frequently targeted areas of your computer in addition to the items in your custom scan.
- Click 'Scan' to start the scan.

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COMODO Unknown File Hunter					_ 🗆 ×
40% Scan In Progress (Files: 120   Computers: 0 of 1)	Previous Scans	🐽 Create Report	Options	(i) Help	Login
(0) 114 (95%) Clean Files 6 (5%) Malicious Files				Stop Scan	
Q Search by Computers				Group by	<b>Q</b>
Name			Size	Verdict	
Iocalhost (127.0.0.1) 120 files scanned (409				In Progress	
When all the files are analyzed, yo	ou will receive a detailed report	t at domersa@yopmail.	.com	Edit E	mail
Comodo Unknown File Hunter is part of the Comodo ONE p	oortfolio of security solutions. \	visit <u>one.comodo.com</u> to	learn how Como	do can help protect yo	our environment

The remainder of the process is the same as for scanning an Active Directory domain. **Click here** for details about the rest of the process.

## 4 Scan Results

#### Scan process and scan results:

- Comodo has a huge database of blacklisted and whitelisted files on its File Lookup Server (FLS).
- The UFH scanner first checks the rating of all files on an endpoint against these FLS lists.
- File trust ratings are as follows:
  - Clean A whitelisted file which is safe to run.
  - Malicious A blacklisted file which is a known threat / malware.
  - Unknown There is no trust verdict available for this file. The file will be uploaded to Valkyrie.
- Valkyrie is Comodo's file analysis and verdicting service. The service inspects unknown files with a battery
  of dynamic and static tests in order to establish the file's trust rating. Files may also undergo further testing
  by human experts.
- After analysis, the previously unknown files are rated as 'Clean' or 'Malicious' and the results passed back to UFH.
  - Click 'Current Scan' / 'Previous' scans to browse scan results.
  - Click 'Detailed Scan Results' to view full test results on the Valkyrie website. You will need to login at https://valkyrie.comodo.com with your Comodo account username and password.

Scan Completed Files: 34795   Computer	s: 1 of 1)	Previous Sca	ns 🐽 Create Report	Options	(i) Help	Login
	<b>A</b>				ii New	Custom Scan
<b>34781</b> (99.96%)	8 (0.02%)	<b>6</b> (0.02%)				iled Scan Resul
Clean Files	Malicious Files	Unknown Files			i⊚ Start	Discovery
Q Search by Computer						by 📮
Name				Size	Verdict	
📄 🛄 localhost (127.	0.0.1) Completed: Total	files scanned: 34796. Unknov	vn: 6. Malicious: 8.		Completed	
C:\Program	Data\SpeedBit\DAP\Plu	gins\189AE673-13C1-4133-A	470-8C4DDD1AC88C\1.0.1	12 KB	Clean	
C:\Program	Files\WindowsApps\Sh	aredLimitedTime\InfusedApp	s\Packages\Microsoft.Win	269 KB	Clean	
C\Window	s\InfusedApps\Packages	\microsoft.windowscommun	icationsapps_17.8241.4127	44 KB	Clean	
C:\Window	s\InfusedApps\Packages	\Microsoft.XboxSpeechToTex	tOverlay_1.17.29001.0_x64	550 KB	Clean	
C:\Window	s\InfusedApps\Packages	Microsoft.BingNews_4.3.19	.0_x868wekyb3d8bbwe\	8 MB	Clean	
C:\Window	s\InfusedApps\Packages	\Microsoft.WindowsCamera_	2017.727.20.0_x648weky	105 KB	Clean	
C:\Program	n Files\WindowsApps\Sh	aredLimitedTime\microsoft.w	indowscommunicationsap	10 KB	Clean	

Click the following links for more details on UFH scan results:

- Comodo Unknown File Hunter Scan Results
- Valkyrie Analysis Results

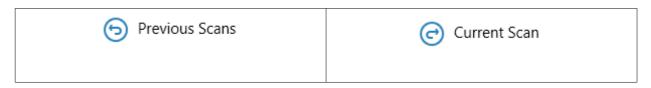
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#### 4.1 Comodo Unknown File Hunter Scan Results

Results are shown in the UFH interface as soon as the scan finishes.

- Current Scan interface Full results of the most recent scan.
- Previous Scan interface A list of all previously run scans. Expand any scan to view per-endpoint results.

Click 'Previous Scans'/ 'Current Scan' to switch between the two interfaces:



#### **Current Scan Results**

• Click 'Current Scan' at the top to view the results of the most recent scan:

ican Completed Files: 34795   Computers:	1 of 1)	Previous Scar	is 🐽 Create Report	Options	(i) Help	Login
	<b>a</b>				ii New	Custom Scan
34781 (99.96%) Clean Files	8 (0.02%) Malicious Files	6 (0.02%) Unknown Files				ed Scan Results Discovery
Q Search by Computers					Group	
Name				Size	Verdict	
📄 🛄 localhost (127.0.0	0.1) Completed: Total 1	files scanned: 34796. Unknow	n: 6. Malicious: 8.		Completed	
C:\ProgramD	ata\SpeedBit\DAP\Plug	jins\189AE673-13C1-4133-A4	70-8C4DDD1AC88C\1.0.1	12 KB	Clean	
C:\Program F	iles\WindowsApps\Sha	redLimitedTime\InfusedApps	\Packages\Microsoft.Win	269 KB	Clean	
C\Windows\	InfusedApps\Packages\	microsoft.windowscommunic	ationsapps_17.8241.4127	44 KB	Clean	
G\Windows\	InfusedApps\Packages	Microsoft.XboxSpeechToText	Overlay_1.17.29001.0_x64	550 KB	Clean	
C:\Windows\	InfusedApps\Packages\	Microsoft.BingNews_4.3.193	0_x868wekyb3d8bbwe\	8 MB	Clean	
C:\Windows\	infusedApps\Packages\	Microsoft.WindowsCamera_2	017.727.20.0_x648weky	105 KB	Clean	
C\Program F	iles\WindowsApps\Sha	redLimitedTime\microsoft.wi	ndowscommunicationsap	10 KB	Clean	
				.com		dit Email

- Click '+' beside a hostname to view all files analyzed on the endpoint. Double-click on any file to view file details.
- The tiles above the results table show the total number of unknown, malicious and clean files.
  - 'Unknown' means no trust rating is available for the file. After expert analysis these will be categorized as either 'Safe' or 'Malicious'.

	Current Scan Results Interface - Table of Column Descriptions					
Column Header	Description					
Name	The name of the computer on which the scan was run. Click '+' to view the full path of the					

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	file.
Size	The size of the analyzed file.
Verdict	The trust rating of the file. The possible values are:
	<ul> <li>Completed – Unknown file which has been successfully uploaded to Valkyrie for analysis.</li> </ul>
	In Analysis – Unknown file which is currently being tested by Valkyrie
	Clean – Files found to be safe after Valkyrie analysis
	Malicious – Files found to be unsafe after FLS and Valkyrie analysis
	<ul> <li>No Threat Found - No malicious intent was found by Valkyrie's automated tests but the file has been passed onto human experts for further analysis. These files are listed as 'Unknown' in the tiles above the table. They will be classified as either 'Clean' or 'Malicious' after the human analysis concludes.</li> </ul>

#### Searching, sorting and filtering Options

- Use the search box to look for endpoints by name or IP address. Clear the search box to display all endpoints again.
- · Click the column headers to sort results by name, size and verdict.
- Click the funnel icon at the end of 'Name' column to choose result filters:



#### **Previous Scans Results**

Click 'Previous Scans' at the top

The results of the previous scans will be shown:

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ry Quick Scan <u>Detailed Results</u>	Scan Target	Scan Date	≩ Search
ry Quick Scan <u>Detailed Results</u>	-	Scan Date	•
	Auto Discovery		Scan Summary
ter Custom Scan Detailed Results	Auto Discovery	6/25/2018 3:34:46 PM	Computers scanned: 1. Total files scanned: 1222. Unknown: 0
	Local Computer	6/25/2018 4:52:11 PM	Omputers scanned: 1. Total files scanned: 2. Unknown: 0. Ma
ry Quick Scan <u>Detailed Results</u>	Auto Discovery	6/25/2018 5:04:39 PM	Computers scanned: 1. Total files scanned: 1231. Unknown: 0
ter Custom Scan Detailed Results	Local Computer	6/25/2018 5:24:34 PM	💭 Computers scanned: 1. Total files scanned: 7. Unknown: 0. Ma
ory Quick Scan	Active Directory	6/26/2018 10:56:52 AM	👷 Scan Failed.
ter Custom Scan Detailed Results	Local Computer	6/26/2018 11:17:50 AM	😳 Computers scanned: 1. Total files scanned: 7. Unknown: 0. Ma
resses Quick Scan	Network Addresses	6/26/2018 1:24:04 PM	💯 Scan Canceled.
ter Custom Scan Detailed Results	Local Computer	6/26/2018 2:21:59 PM	Computers scanned: 1. Total files scanned: 2. Unknown: 0. Ma
resses Quick Scan ter Custom Scar	Network Addresses	6/26/2018 1:24:04 PM	Scan Canceled.

	Previous Scan Results Interface - Table of Column Descriptions
Column Header	Description
Scan Summary	<ul> <li>Indicates the status of scans.</li> <li>Scan Failed – The scan was unsuccessful.</li> <li>Scan Canceled – The scan was canceled by the admin.</li> <li>Computer scanned – The number beside it indicates the number of endpoints that were scanned for that scan.</li> </ul>
Scan Date	The date and time the scan was run.
Scan Target	<ul> <li>Indicates the type of scan:</li> <li>Auto Discovery – Scan run on discovered endpoints on the network</li> <li>Active Directory – Scan run on endpoints which belong to an Active Directory domain</li> <li>Network Addresses – Scan executed by specifying their host name/IP address, or scan all endpoints on an IP range</li> <li>Local Computer – Scan run on the local device</li> </ul>
Scan Type Detailed Results	Indicates whether it is a quick or full scan         Click this link to open https://valkyrie.comodo.com         Walkyrie Analysis Results' for more information.

Double-click a scan or right-click then 'Details' to open the scan details interface

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COMODO Creating Trust Online Unknown File Hunter					_ 0	×
Scan Completed (Files: 34796   Computers: 1 of 1)	Current Scan	🐽 Create Report	Options	(i) Help	chtwvalkyrie	~
(0.02%) 34782 (99.96%) Clean Files 8 (0.02%) Malicious Files	(0.02%) 6 (0.02%) Unknown Files				to Previous Scans led Scan Results	
Q Search by Computers				Group	p by 📮 📮	
Name			Size	Verdict		
Comodo Unknown File Hunter is part of the Comodo ONE po	ortfolio of security solutio	ns. Visit <u>one.comodo.com</u>	to learn how Com	odo can help pro	tect your environ	ment
Computers scanned: 1. Total files scanned: 34	796. Unknowr	ails	nputer	Full Scan	Octailed Results	]
Comodo Unknown File Hunter is part of the Comodo ONE	portfolio of security solut	ions. Visit one.comodo.co	m to learn how Co	modo can help pr	otect your enviro	nmen

The interface is similar to current scan results explained above.

- Click 'Detailed Scan Results' button to view full results at https://valkyrie.comodo.com . See 'Valkyrie Analysis Results' for more information.
- Click 'Back to Previous Scans' to return to 'Previous Scans' screen.

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#### Comodo Unknown File Hunter - Admin Guide

#### 4.2 Valkyrie Analysis Results

- · Files with a trust rating of 'Unknown' are automatically uploaded to Valkyrie for analysis.
- The service examines each file with a battery of dynamic and static tests in order to establish the file's trust rating. If required, files undergo further analysis by human experts.
- Valkyrie's automated and human tests will ultimately produce a verdict of 'Clean' or 'Malicious' which is
  returned to the UFH interface.
- You can view overall scan results in the UFH interface.
- Click 'Detailed Scan Results' to login at https://valkyrie.comodo.com and view full results of Valkyrie tests on your unknown files.
- · You can login with your Comodo, or Comodo One username and password.

If you have not logged in to your Valkyrie account, the scan results for the clicked item will be shown:

	÷	ALKYRIE						IGN IN⇒		
U	nknown File Hunter	r Scan Results								
	UNKNOWN FILE HUNTER	R SCAN SESSION DETA	ILS				See	arch:		
	File Name 🚽	Path 0	SHA1 0	Last Activity 🔅 🗧	Final Verdict $\div$	Human Expert Verdict	Human Expert Analysis Status (	Request Type (	÷	
	setup.exe	EXSuspicious files/All_t	2ec4e9011001a27882	2018-07-02 13:31:56	PUA			Queried	8	
	pcflank.exe	EtSuspicious files All_t	3437369e6b75021157d	2018-07-02 13:31:55	PUA			Queried	8	
	illvid-download-manager.exe	CNUsers/RathDownloa	88e20914dcae99feaad	2018-07-02 13:31:22	PÜÄ	PUA	Completed	Queried	8	
	CPLSubstate	PVSuspicious NextWill have		2014-07-02 13:31:514	01.0				274 C	

 Click 'Sign in' at the top-right. Valkyrie home page with details of all files uploaded by all customers will be displayed:

								Download Unkno	wn File Hunter	≜ s
emium Users										
alware	- N	Avg. Time	Clean		Avg. Time.		S Avg. Time	Total	8	Avg. Time
Iomated Analysis	11.9%	11737	Automated Assaysis		0.0500		нк (19)	Automated Analysis	1.9%	0.06:18
rean Expert Analysis		3 22:14	Human Expert Analysis		41338 Hum		118 · · · · · · · · · · · · · · · · · ·	Human Expert Analysis		
VALK	YRIE COMODO		file verdict system. Different features from a file and base	from traditiona d on analysis re	i signature based malwar sults can warn users agair	e detection technique ist maleiare undetecti	s Valkyrie conducts several an d by classic Anti-Virus preduc	ilysis using run-time heha Is.	rior and	
¥.	соморо		The verificit system. Different features from a file and base	from traditiona d on analysis re	l signature based malwan sullts can warn users agair	e detection technique ist malmare undefecti	s Valkyrie conducts several an ed by classic Anti-Virus produc	ilysis using run-time keha Is.	vior and	
K LATEST FIL	соморо			from traditiona d on analysis re SOURCE	l signature based malwan suffs can warn users again SUBMIT DATE	e detection technique ist malware undetects FINAL VERDICT	s Valkyrie conducts several an d by classic Anti-Virus produc by classic Anti-Virus produc			ITATUS
K LATEST FIL	E UPLO	ADS	SEARCH							STATUS

Click 'Sign in' at the top-right of the Valkyrie home page

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	VALKYRIE
ß	Email or Login *
	Remember Me     Forgot password ?
	SIGN IN CREATE AN ACCOUNT

- C1 customers can use their C1 credentials to login.
- If you do not have an account, click the 'Create an account' link, provide the required details and sign up for an account, which is free.
- If you already have an Valkyrie account, enter the credentials and click the 'Sign In' button.

The 'Dashboard' page will be displayed by default.

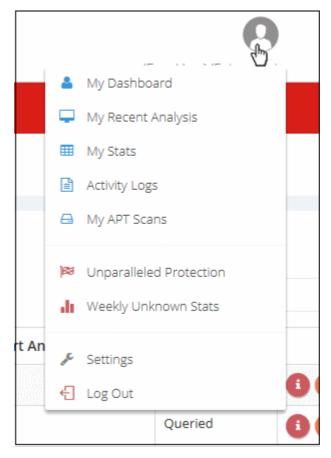
VALKYRIE =	Vallatie > Durhissed		Q, Analyze New File *
B DASHDOARD ♥ Overview Recent Analysis Requests Unknown File Hanter Scarm	Last 30 days Last 7 days Last 24 hours Today 0 88 1 Total files uploaded	aueried Bit D Files being processed	III 88 O St Stars Processing completed
⊖ STATISTICS > ☆ SETTINGS >	Melware or PUA File Detected Devices	Malware or PUA File Detected Devices (Global)	Latest Malware Submissions STATUS FILE NAME
	Devices with treasts or PUAe 0 8%     Devices withstrict treasts or PUAe 150 0%	<ul> <li>Devices with threads or PUAs 3.4%</li> <li>Devices without threads or PUAs 96.6%</li> </ul>	О мажете О рад

If you are already logged into your Valkyrie account, clicking the 'Detailed Scan Results' in the 'Current Scan' page or 'Detailed Results' link in the 'Previous Scans' page will open the results page of the respective link.

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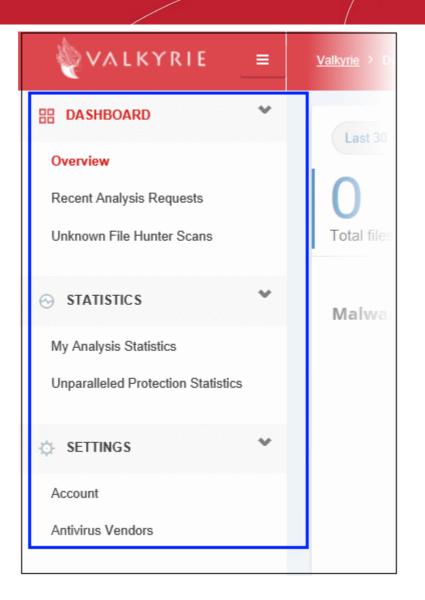
		VALKYR					σ	Free User; (Enterprise	)
l	Jnknown Fi	ile Hunter Scan R	esults						
	UNKNOWN F	FILE HUNTER SCAN SES	SION DETAILS						
	Show 25 v							Search:	
	File Name 0	Path 0				Human Expert Verdict 🕴	Human Expert Analysis Status 🕴	Request Type 🕴	
	File Name 0 poflank.exe	Path d	3437369e6b75021f57d	2018-07-03 14:28:16	PUA	Human Expert Verdict 4	Human Expert Analysis Status 🛛	Request Type 0 Queried	000
	File Name 0	Path 0	3437369e6b75021f57d			Human Expert Verdict d	Human Expert Analysis Status 🛛	Request Type 🕴	<b>8</b> 8 <b>4</b>
	File Name 0 poflank.exe	Path d	343736966b75021f57d 795fe85537ec514f9667	2018-07-03 14:28:16	PUA PUA	Human Expert Verdict 0	Human Expert Analysis Status 🔅	Request Type 0 Queried	1
	File Name 0 pcflank.exe cpiLexe	Path © EnSuspicious files/All_te	3437369e6b75021f57d 795fe85537ec514f3667 d3be9ebc642f164efb00	2018-07-03 14:28:16 2018-07-03 14:28:15	PUA PUA	Human Expert Verdict 0	Human Expert Analysis Status	Request Type 0 Queried Queried	000
	File Name 0 pottank.exe opiLese opiLdli	Path 0 EnSuspicious files/All_to EnSuspicious files/All_to	3437369e6b75021157d 795fe85537ec514f3667 d3be9ebc642f164efb08 dcf2dfcb39003683be2e	2018-07-03 14:28:16 2018-07-03 14:28:15 2018-07-03 14:28:14	PUA PUA PUA PUA	Human Expert Verdict 4	Human Expert Analysis Status	Request Type   Queried Queried Queried	

You can navigate to different pages of the website by clicking your account name on the top right side of the page.



Alternatively, you can navigate to different pages from the left side menu of the home page:

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See our dedicated Valkyrie guide at https://help.comodo.com/topic-397-1-773-9567-Valkyrie-Analysis-Results.html for more information.

## 5 Reports

Report are available for each scan you run and are divided into three categories:

- Executive Report A summary of the scan. Includes details such as the number of devices scanned, the number of unknown programs found and so on
- Per Device Report Scan results grouped by device.
- Per Program Report A report with details on each unknown / malicious program. The report also specifies which devices the file was found.

You can generate reports from the 'Create Report' menu

COMODO Creating Trust Online Unknown File Hunter					_ □ ×
Scan Completed (Files: 150   Computers: 1 of 1)	Previous Scans	Create Report	Options	(i) Help ch	twvalkyrie 💙
143 (95.33%)         7 (4.67%)           Clean Files         Malicious Files		Executive Report Per-Device Report Per-Program Report			stom Scan Scan Results covery
Q Search by Computers				Group by	
Name			Size	Verdict	
E Decalhost (127.0.0.1) Completed: Total files	scanned: 150. Unknown: 0	). Malicious: 7.		Completed	
E\Suspicious files\All_tests\AWFT\AWFT	P\setup.exe		985 KB	Malware	
👸 E:\Suspicious files\All_tests\cpil_suite\C	PiL3.dll		184 KB	Malware	

See the following sections for help on each report type:

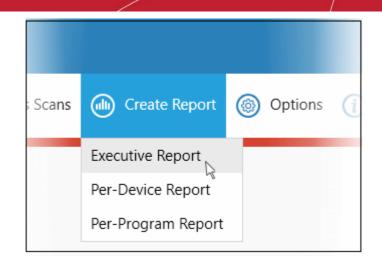
- Executive Report
- Device Report
- Program Report

#### 5.1 Executive Report

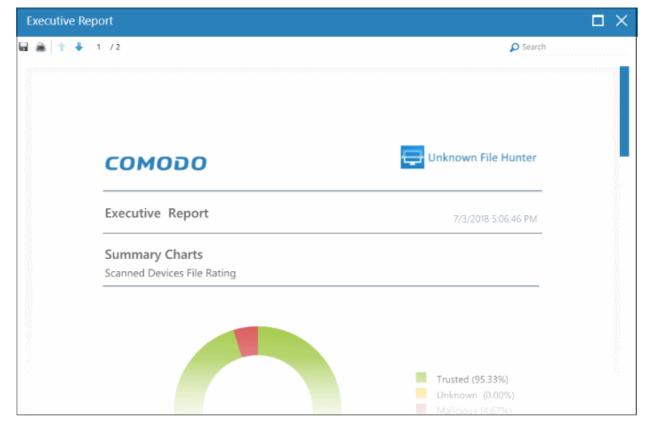
The executive report is a top-level summary of the scan results. Details include scan start/finish times, the number of devices scanned and the trust rating of discovered files.

To generate an 'Executive' report results, click 'Create Reports' and then 'Executive Report'

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The report will be generated and displayed:



Scroll down to view the full report. The report in PDF format is saved in a temporary folder and will not be available after the application is closed. To save the report, click the folder icon on the top left side, copy the report file and save in another location.

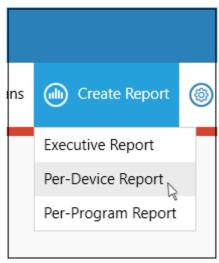
- **Summary Charts** Provides the details of programs found on the scanned devices and the rating of the scanned devices.
  - **Scanned Devices File Rating** Results displayed in pie chart of the programs that were scanned on the devices. Provides the percentage of trusted programs, unknown programs and malware.
  - **Device Assessment** The statuses of the scanned devices in pie chart providing the percentage of devices that are found safe, infected and at risk.

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#### 5.2 Device Report

The 'Per Device Report' is a summary of scan results for a particular device. It includes details of malware found on each device, unknown files found and the path of the files.

To generate a 'Per Device' report, click 'Reports' then 'Per Device Report'



The report will be generated and displayed:

Per-Device Report					
🖬 👼 🕆 💺 1 /4		Search			
сом	ספס	Unknown File Hunter			
Per-Devic	e Report	7/4/2018 12:06:04 PM			
Summary Top 10 Vuln	Chart erable Devices				
localhost					

Scroll down to view the full report. The report in PDF format is saved in a temporary folder and will not be available after the application is closed. To save the report, click the folder icon on the top left side, copy the report file and save in another location.

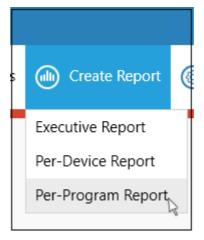
• **Summary Chart** - Provides the details in bar graph the top 10 endpoints that are detected with unknown/malware files.

- **Report Summary** Provides the details of the scan such as number of devices scanned, date and time of the scan, number of malware found and so on.
- **Details per Device** The details of each device including the name of the device, number of malware/unknown files in them, the path of each malware/unknown files in the affected device and more.

#### 5.3 Program Report

The 'Per Program Report' shows scan results grouped by filename. It includes details about each malware/unknown file found, the devices on which they were found, the file path and more.

• Click 'Reports' > 'Per Program Report' to generate a report of this type:



- · The report will be generated immediately.
- Click the floppy-disk icon at top-left to save the report in .pdf format (it is not saved automatically).

Per-Program Report	
🖬 👼 🕆 1 /8	🔎 Search
сомодо	Unknown File Hunter
Per-Program Report	7/4/2018 12:39:58 PM
Summary Chart	
Top 10 Unknown/Malicious Files	
CPIL3.dll -	
cpil.dll -	
cpil.exe -	
CPILSuite.exe -	
poflank.exe -	

Scroll down to view the full report. The report in PDF format is saved in a temporary folder and will not be available after the application is closed. To save the report, click the folder icon on the top left side, copy the report file and save in another location.

- Summary Chart The 10 most prevalent unknown and malicious programs on your network
- **Report Summary** General scan info. Number of devices scanned, date and time of the scan, number of malware/unknown files found etc.
- **Details per Program** Granular details about each file, including the names of the devices it was found on, IP addresses of the devices and more.

## 6 About Comodo Unknown File Hunter

The 'About' dialog shows product and version information.

• Click 'Help' > 'About' to open the interface:

COMODO Creating Trust Online	known File Hunter					_ 🗆 ×
Scan Completed (Files: 150   Computers:	1 of 1)	🕤 Previous Scan	s 🐽 Create Report	Options	(i) Help	chtwvalkyrie 💙
<b>143</b> (95.33%) Clean Files	7 (4.67%) Malicious Files					rements can tailed Scan Results art Discovery
Q Search by Comp Name	About		¥	×		ap by 📮 😰
📄 🚅 localhost		обомо			Completed	
🔞 E\\SU		reating Trust Online			Malware	
🐻 E\\Su:	Pr	roduct Name:	Unknown File Hunter		Malware	
🐻 EnSu	Provide Pr	roduct Version:	5.0.0.134			
	© 2018 Comodo Security S	olutions, Inc. All Rights Res	erved.	Close		

- Product Name The full name of the product
- Product Version The version number of the product
- Click the 'Close' button to return to the application.

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## 7 Agent Requirements

'Agent Requirements' shows advice to help you run scans successfully.

• Click 'Help' > 'Agent Requirements' to open the interface:

COMODO Creating Trust Online	nown File Hunter	_ 🗆 ×
Scan Completed (Files: 150   Computers: 1	of 1) 🕞 Previous Scans 🍈 Create Report 🍥 Options 🕧	Help chtwvalkyrie 🗸
<b>0</b> 143 (95.33%) Clean Files	7 (4.67%)	Transforments     San       Detailed Scan Results       Image: Start Discovery
Q Search by Computers	Agent Requirements X	Group by
🖃 🦵 localhost (127.)	Of Check whether a target computer is turned on and connected to the network.	leted
🚡 E\Suspicio	Check whether firewall on a target computer is turned Off.	ire
🐻 E\Suspicio	Check whether IP address of a target computer is correct.	re
🐞 Et/Suspicio	♂ In the Network Neighbourhood run Network Wizard, enable file sharing.	
	Make sure Administrator password is not blank and correct.	
	Check whether 'Forceguest' option on target computer is disabled: HKLM\\SYSTEM\ \CurrentControlSet\\Control\Lsa 'forceguest' dword is 0.	
	If the account is not a built-in Administrator, check whether: HKLM\\SOFTWARE\\Microsoft\ \Windows\\CurrentVersion\\Policies\\System 'LocalAccountTokenFilterPolicy' dword is 1.	
	Close	

## **About Comodo Security Solutions**

Comodo Security Solutions is a global innovator of cybersecurity solutions, protecting critical information across the digital landscape. Comodo provides complete, end-to-end security solutions across the boundary, internal network and endpoint with innovative technologies solving the most advanced malware threats. With over 80 million installations of its threat prevention products, Comodo provides an extensive suite of endpoint, website and network security products for MSPs, enterprises and consumers.

Continual innovation and a commitment to reversing the growth of zero-day malware, ransomware, data-breaches and internet-crime distinguish Comodo Security Solutions as a vital player in today's enterprise and home security markets.

### About Comodo Cybersecurity

In a world where preventing all cyberattacks is impossible, Comodo Cybersecurity delivers an innovative cybersecurity platform that renders threats useless, across the LAN, web and cloud. The Comodo Cybersecurity platform enables customers to protect their systems and data against even military-grade threats, including zero-day attacks. Based in Clifton, New Jersey, Comodo Cybersecurity has a 20-year history of protecting the most sensitive data for both businesses and consumers globally. For more information, visit comodo.com or our **blog**. You can also follow us on **Twitter** (@ComodoDesktop) or **LinkedIn**.

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