

ITarian Endpoint Manager

Software Version 6.35

Bulk Enrollment via Active Directory

Guide Version 6.35.042420

Endpoint Manager - Bulk Enrollment via Active Directory

This tutorial explains how to use Active Directory to install the Endpoint Manager (EM) client on Windows endpoints. Once the client is installed, you can enroll the devices for management.

Software requirements

- AD Server Windows Server 2008 or higher
- · Endpoints Windows 7 or higher

The tutorial describes how to create a group policy (GPO) on Windows Server 2008 Standard. The steps may vary slightly for other Window server versions.

Step 1 - Configure the offline EM package

The communication client package is unique for each company and user. Endpoints that have the client installed are listed under the name of the endpoint user.

Configure the offline package

- Login to Endpoint Manager
- Click 'Devices' > 'Bulk Installation Package'
- Select the 'Bulk Installation Package' tab

Endpoint Manager	Bulk Installation Package	🏠 😰 🔒 Logout (herculespopular22@gmail.com)
DASHBOARD		
DEVICES	Bulk Installation Package Remote Control by ITarian	
Device List	User *	
Bulk Installation Package	herculespopular22@gmail.com	
A USERS	By default, an installation package will be prepared for the logged in user. If you	
CONFIGURATION TEMPLATES	field above.	
	Customer *	
	frontfork	
APPLICATION STORE	Device group	
APPLICATIONS	Default Group - frontfork	
SECURITY SUB-SYSTEMS	Package Options	
LICENSE MANAGEMENT	The second secon	
-	📲 Windows 🔞 macOS 🖧 Linux	
	Choose platform	
	Windows x64 V	
	Choose clients	
		G
		Ç

The package configuration screen opens on the right:

Select 'Windows'

ITarian Endpoint Manager - Bulk Enrollment via AD



User*			
herculespopula	ar22@gmail.co	m	
By default, an installa would like to change field above.	tion package will be the user, please inp	prepared for the ut the correspond	t logged in user. If you ding user name into th
Customer *			
frontfork			
Paulos erem			
Default Croup	frontfork		
Derault Group	TORIOR		
Package O	ptions		
Windows	🕼 macOS	A Linux	
Choose platform			
Windows x64			2
Choose elients			
Communicati	on Client		
🔳 Use defau	lt Communicat	ion Client ver	sion (Latest -
6.28.2642	8.19060)		
Comodo Clier	it - Security		
Use defau 11.3.0.74	lt Cornodo Clie 79)	nt - Security v	rersion (Latest -
Additional options			
 Include initial a profile cont 	Antivirus signa ains Antivirus s	ture databas ection)	e (will apply only i
Profile *			
Windows - Sec	urity Level 1 Pr	file v.6.28	
By default Bulk install	ation Package will	e prepared with	«Windowa - Security
Destant	terel endi	in agen prome i	KATING HIND KING HIGHA
Restart con	trol optior	S	
Reboot options			
 Force reboot 	in		
5 minutes			~
O Suppress the	reboot 0		
 Warn about ti 			
	ne reboot and le	t users postr	one it
Reboot message	ne reboot and le	t users post;	oone it
	ne reboot and le	t users post;	pone it
Your device will your administr	he reboot and le	et users post; nutes becaus	oone it ae it's required by
Your device wi your administra	ne reboot and le I reboot in 5 mi stor	t users post; nutes becaus	pone it te it's required by
Your device wi your administra	ne reboot and le I reboot in 5 mi ator	t users post; nutes becaus	pone it
Your device wi your administra UI options	ne reboot and k I reboot in 5 mi	t users post; nutes becaus	pone it
Your device wil your administra UI options	l reboot and le l reboot in 5 mi stor	t users post; nutes becaus illation failed	pone it
Your device wi your administra UI options Show error m show a deplo	l reboot and le l reboot in 5 mi stor essages if inst	t users post; nutes becaus illation failed ition messag	pone it se it's required by je upon completio
Your device wil your administra UI options Show error m Show a deplo of the installa	l reboot and le l reboot in 5 mi stor essages if inst yment confirmation	t users post; nutes becaus illation failed ition messag	oone it ie it's required by ie upon completio
Your device wil your administra UI options Show error m Show a deplo of the installia Confirmation meso	e reboot and le I reboot in 5 mi stor essages if inst yment confirmation tion	t users post; nutes becaus illation failed ition messag	oone it ie it's required by ie upon completio
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mess	ne reboot and le 1 reboot in 5 mi stor essages if inst yment confirmation tion	t users post; nutes becaus illation failed ition messag	oone it ie it's required by ie upon completio
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mease	ne reboot and le Il reboot in 5 mi stor essages if inst yment confirmation ige	t users post; nutes becaus allation failed ation messag	oone it ie it's required by e upon completio
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mess	ne reboot and le Il reboot in 5 mi stor essages if inst yment confirma tion 1ge	t users post; nutes becaus sillation failed stion messag	oone it ie it's required by ie upon completio
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mess	ne reboot and le Il reboot in 5 mi stor essages if inst yment confirmation tion	t users post; nutes becaus illation failed ition messag	oone it ie it's required by ie upon completio wrikaad installer
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mess	e reboot and le I reboot in 5 mi etor essages if inst yment confirma- tion age	t users post; nutes becaus illation failed ition messag Dow u automatice	e it's required by
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mess	e reboot and le I reboot in 5 mi essages if inst yment confirma- tion age	t users post; nutes becaus silation failed silon messag u automatice User Li	oone it ie it's required by je upon completio vnload Installer ally agree with «En cense Agreement
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mess By downloadir Proxy settir	e reboot and le I reboot in 5 mi essages if inst yment confirma- tion age	t users post; nutes becaus sillation failed silon messag u automatice User Li	oone it ie it's required by ie upon completio vnload Installer ally agree with «En cense Agreement
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mess By downloadir Proxy settin	e reboot and le I reboot in 5 mi essages if inst yment confirma- tion age ig these files yo 1 GS	t users post; nutes becaus uilation failed IBON messag U outomatice User Li	oone it ie it's required by ie upon completio vnload Installer ally agree with «El cense Agreement
Your device will your administra UI options Show error m Show a deplo of the Installa Confirmation mess By downloadir Proxy settir Proxy settir	e reboot and le Il reboot in 5 mi essages if inst yment confirmation ige	t users post; nutes becaus ullation failed stion messag u automatice User Li	oone it e it's required by e upon completio wiload installer slip agree with «El cense Agreement
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mess By downloadir Proxy settir Proxy host *	e reboot and le Il reboot in 5 mi essages if inst yment confirma tion age	t users post; nutes becaus ullation failed stion messag u automatice User Li	oone it e it's required by e upon completio vuload installer sly agree with «El cense Agreement
Your device will your administra UI options Show error m Show a deplo of the Installa Confirmation mess By downloadir Proxy settir Proxy host * Proxy host	e reboot and le Il reboot in 5 mi essages if inst yment confirma- tion age	t users post; nutes becaus uilation failed stion messag u automatice User Li	oone it e it's required by e upon completio vnload installer slip agree with «El cense Agreement
Your device will your administra UI options Show error m Show a deplo of the Installa Confirmation mease By downloadir Proxy settin Proxy host * Proxy host Proxy port *	e reboot and le I reboot in 5 mi essages if inst yment confirma- tion age	t users post; nutes becaus uilation failed IBON messag U Dow u automatice User Li	oone it e it's required by e upon completio vnload installer sly agree with «El cense Agreement
Your device will your administra UI options Show error m Show a deplo of the Installa Confirmation mease By downloadir Proxy settin Proxy settin Proxy host * Proxy port *	e reboot and le Il reboot in 5 mi essages if inst yment confirma tion age	t users post; nutes becaus ullation failed Ition messag u automatice User Li	oone it e it's required by e upon completio wiload installer slip agree with «El cense Agreement
Your device will your administra UI options Show error m Show a deplo of the Installa Confirmation mease By downloadir Proxy settir Proxy settir Proxy host * Proxy port * Proxy port Proxy login	e reboot and le Il reboot in 5 mi essages if inst yment confirma- tion age	t users post; nutes becaus ullation failed Ition messag u automatice User Li	oone it e it's required by e upon completio vuload installer slip agree with «El cense Agreement
Your device will your administra UI options Show error m Show a deplo of the Installa Confirmation mease By downloadin Proxy settin Proxy host Proxy host Proxy port Proxy port Proxy login	e reboot and le Il reboot in 5 mi essages if inst yment confirmation ige	t users post; nutes becaus ullation failed ution messag u automatica User Li	oone it e it's required by e upon completio wiload installer ally agree with -Er scense Agreement
Your device will your administra UI options Show error m Show a deplo of the Installa Confirmation meass By downloadir Proxy settir Proxy host * Proxy host Proxy port Proxy port Proxy login Proxy passwor	e reboot and le I reboot in 5 mi essages if inst yment confirm: tion sge ig these files yo igs d	t users post; nutes becaus ullation failed ution messag u automatica User Li	oone it e it's required by e upon completio wiload installer sliy agree with <er cense Agreement</er
Your device wil your administra UI options Show error m Show a deplo of the Installa Confirmation mease By downloedin Proxy settin Proxy host * Proxy host Proxy port Proxy port Proxy login Proxy passwor	e reboot and le I reboot in 5 mi essages if inst yment confirm: tion sge 1g these files yo 1gs d	t users post; nutes becaus ullation failed ution messag u automatica User Li	oone it e it's required by e upon completio wiload installer sliy agree with -Ei cense Agreement



Parameter	Description				
User	Devices enrolled by AD GPO are assigned to the currently logged-in admin by default. Specify a different user if required. • Start typing the name of a user and choose from the suggestions that appear.				
Customer	 This field only applies to ITarian MSP customers. It does not apply to ITarian Enterprise, or EM stand-alone customers. 				
Device Group	The device group to which enrolled devices should be added (optional).				
	Profiles which apply to the group will apply to all devices you add.				
Package Options	Operating system - Select Window OS version - 64 bit, 32 bit or hybrid. The hybrid package will detect the OS version and install the correct client. Clients:				
	• Communication Client (CC) - Mandatory. This client enrolls the endpoint.				
	 Comodo Client Security (CCS) - Optional. This client installs security software such as antivirus, firewall and auto-containment. 				
	 Note - You can choose the version of CC and CCS version to install if enabled in portal settings. If not enabled then you must install the 'default' version. 				
	You can also configure the following for CCS:				
	Additional Options:				
	Database - Choose whether to include the latest virus database with the installation package. This increases file size. If disabled, the client will download the latest database anyway when you run the first scan.				
	 Profile - Default is 'Windows - Security Level 1' profile. Choose a different profile if required. 				
	• Type the first few characters of a profile and choose from the suggestions that appear.				
Restart Control Options	CCS only. Reboot endpoints to complete CCS installation. You have the following restart options:				
	• Force the reboot in - Restart the endpoint a certain length of time after installation. Select the delay from the drop-down. A warning message is shown to the user prior to the restart.				
	• Suppress reboot - Endpoint is not auto-restarted. The installation is finalized when the user next restarts the endpoint.				
	• Warn about reboot and let users postpone it - Shows a message to the user which tells them that the endpoint needs to be restarted. The user can choose when the restart happens.				
	Optional. Type a custom message in the 'Reboot Message' field.				
UI Options	Configure which messages are shown to the user regarding the installation.				
	Show error messages if installation failed - Notifies the user if the installation is not successful.				
	• Show a confirmation message upon completion of installation - Notifies the user if the installation is successful. Type your message in the box provided.				
Proxy Settings	Nominate a proxy server through which the client should connect to Endpoint Manager				



and other Comodo servers. If you do not set a proxy then the clients will connect directly as per network settings.
Enter the IP / hostname and port of the proxy server
Enter the UN/PW of an admin of the proxy server
Note: If you specify a proxy then you must configure the same proxy settings in the profile on the device:
 Click 'Configuration Templates' > 'Profiles' > open the device profile > 'Add Profile Section' > 'Clients Proxy'

- If you do not wish to use a proxy server for CCS and CC then click 'Download Installer' after configuring user, company, group and client options.
- If you wish to use a proxy then additionally complete the 'Proxy settings' section and click 'Download MST File'

Please note .mst file can be added to the GPO only after it has been configured as explained in the steps given below.

Step 2 - Download the EM client packages

The next step is to download the EM communication client (mandatory) and security client (optional) for Windows devices.

- Read the EULA in full by clicking the 'End User License Agreement' link.
- **Download Installer** Download the client setup file for Windows. After installation, the client connects to the EM server and begins importing devices.
 - Windows Creates a .msi file if you only select the communication client. Creates a .exe file if you select both communication and security clients.
- Download MST File Proxy setups only. Download a .mst installer which includes proxy server information.

Save the package on the Active Directory server from which you want to import endpoints.

Step 3 - Create a shared network folder and configure permission level

Now that you have downloaded the .msi setup file, the next step is to create a shared folder in the network.

- Create a new folder in your desired location
- · Name the folder appropriately. For example 'EM_agent'
- Select the folder, right-click and select 'Share' or from the menu toolbar





· Click 'Advanced Sharing...', then select the 'Share this folder' check box



📒 EM_agent Properties	×
General Sharing Security Previous	dvanced Sharing
Leeneral Sharing Security Previous Network File and Folder Sharing EM_agent Not Shared Network Path: Not Shared Share Advanced Sharing Set custon permissions, create multi advanced sharing options. Image: Advanced Sharing Advanced Sharing	Settings Share name: EM_agent Add Remove Limit the number of simultaneous users to: 16777; Comments: Permissions Caching OK Cancel Apply
Close	Cancel Apply

• Click 'Permissions'. By default, 'Everyone' will be selected. Since all endpoints need to have at least read access to this shared folder, make sure the permission is configured for 'Everyone'



Permissions for EM_agent		×		
Share Permissions				
Group or user names:				
Serveryone Everyone				
	Add	Remove		
Permissions for Everyone	Allow	Deny		
Full Control				
Change Read		H		
Learn about access control and permissions				
ОК	Cancel	Apply		

• Ensure the 'Permission Level' is set to 'Read' and click 'OK'.

Advanced Sharing	×
Share this folder	
Settings	1
Share name:	
EM_agent	
Add Remove	
Limit the number of simultaneous users to: 16777	
Comments:	
Permissions Caching	
OK Cancel Apply	

• Click 'Apply', then 'OK' in the 'Advanced Sharing' dialog.



📙 EM_agent Properties 🛛 🛛 🔀				
General Sharing Security Previous Versions Customize				
Network File and Folder Sharing EM_agent Shared				
Network Path: \\WIN-CU20X8JDY3D\EM_agent				
Share				
Advanced Sharing Set custom permissions, create multiple shares, and set other advanced sharing options.				
Close Cancel Apply				

• Note down the location of this shared folder and click the 'Close' button

Follow the similar steps to create a shared file location for .mst file, if required.

Step 4 - Create a group policy and assign the package

The next step is to create a group policy that will install the client package onto the endpoints.

- Click 'Start' > 'Administrative Tools' > 'Group Policy Management'
- Right-click on the domain name and select the 'Create a GPO in this domain and Link it here...' option





Enter a name for the group policy in the 'New GPO' dialog.

New GPO	×
Name:	
EM_agent_deploy	
Source Starter GPO:	
(none)	▼
	OK Cancel

Click 'OK'

•

The newly added group policy will be listed.

• Right-click on the policy and click the 'Edit' option



🛃 Group Policy Management	
🛃 File Action View Window Help	_B×
🗢 🔿 🗡 🔐 💥 🧟 🖬	
Group Policy Management A Forest: test.com Domains Scope Details Sett Links Default Domain Pr K EM agent deploy	ings Delegation attion:
■ Image Sector Edit ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector ■ Image Sector <tr< td=""><td>nains, and OUs are linked to this GPO: Enforced Link Enabled Path No Yes test.com</td></tr<>	nains, and OUs are linked to this GPO: Enforced Link Enabled Path No Yes test.com
Group Policy Modeli Group Policy Result Delete Delete Delete	Can only apply to the following groups, users, and computers:
Refresh Help	ers
Add	Remove Properties
Open the GPO editor	

The 'Group Policy Management Editor' will be displayed.

• Expand 'Computer Configuration' > 'Policies' > 'Software Settings'

🗐 Group Policy Management Editor 📃 🗆 🗙						
File Action View Help						
(= · · · · · · · · · · · · · · · · · · ·						
EM_agent_deploy [WIN - CU20X8J	Name	Version	Deployment state	Source		
 Computer Configuration Policies Software Settings Software installatic Windows Settings Administrative Templat Preferences User Configuration Policies Preferences Preferences 	There	are no iten	ns to show in this vie			
	•				►	

• Right-click on 'Software installation' and select 'New' > 'Package'



🗐 Group Policy Management Editor 📃 🗆 🗙						
File Action View Help						
EM_agent_deploy [WIN - CU20X	8J Name	Version	Deployment state	Source		
Computer Configuration Policies Software Settings		There are no ite	ms to show in this vie	ew.		
Software install. 	<u>N</u> ew ▶	Package				
	View Paste Refresh Export List Properties Help					
Adds a package.						

• In the 'Open' dialog, enter the path of the shared folder that was noted before, select the file and click the 'Open' button

🗾 Open		×
GO- 🖳 + WIN-CU20	OX8JDY3D - EM_agent - 🏹 Search	2
🕒 Organize 👻 📗 Views	▼ 📑 New Folder	0
Favorite Links 6769007df96f4bf5d1 Desktop Computer Documents Pictures Nusic Recently Changed Searches Public	Name Date modified Type Size Pem_SkxzFvQ7_inst 11/23/2018 2:40 Windows Installe	<u>ze</u> 40,476 k
Folders 🔨		
File name:	Windows Installer packages	

• Select the file and click 'Open'



• In the 'Deploy Software' dialog, select 'Assigned'

Note: If you want to add the MST file also to the GPO, then select 'Advanced' and move to '**Deploy Software**' instruction in Step 6. If you want to add the .mst file later then see the instructions from Step 6.

Deploy Software	×
Select deployment method:	
C Published	
Assigned	
C Advanced	
Select this option to Assign the application without modifications.	_
OK Cancel	

Click 'OK'

Step 5 - Run a GPO update

In order to install the EM client package, you need to run a GPO update in the command prompt.

• Open the command prompt, type "gpupdate" and press enter.



The group policy update will run and a confirmation message displayed:





After the group policy has been successfully updated, the endpoints must be restarted for the EM communication client to be installed.

That's it. You have now successfully enrolled Windows endpoints via AD using the GPO method. You can see the endpoints listed in the 'Devices List' screen.

Note: You may get an error message if you try to manually install the EM communication client on an endpoint where the GPO was deployed and then removed. Visit the Microsoft support site at https://support.microsoft.com/en-us/mats/program_install_and_uninstall and run the tool on the endpoint.

The device group policy that was selected in the enrollment form will be applied to the enrolled devices automatically.

If you have configured proxy settings and downloaded the .mst file then go to Step 6 to add the MST file to the newly created GPO.

Step 6 - Add MST file to the GPO

If you want to include the MST file to the GPO, then download the file after providing the details in the proxy settings fields in the form.

- After downloading the file, save it on the AD server and create a shared folder as explained in Step 3.
- If you are adding both MSI and MST files at one go, then select 'Advanced' at the end of Step 4.
- If you are adding the file later on, then open Group Policy Management, right click on the policy, then click 'Edit'



🛃 Group Policy Management	
🛃 File Action View Window Help	_B×
🗢 🔿 📶 🔀 🧟 🛛 🖬	
Group Policy Management A Forest: test.com C A Forest: test.com	Py ings Delegation
Image: Composition Image: Composition Image: Compos	nains, and OUs are linked to this GPO: Enforced Link Enabled Path No Yes test.com
Delete Rename Refresh	Can only apply to the following groups, users, and computers:
Help Add	Remove Properties
Open the GPO editor	

The 'Group Policy Management Editor' will open.

🗐 Group Policy Management Editor	
File Action View Help	
Magent_deploy [WIN - CU20 Computer Configuration Software Settings Mindows Se Mainistrat Paste Refresh Properties Help	
Extended Standard	
,	

- Expand 'Computer Configuration' and right-click on 'Software Installation'
- Click 'New', then 'Package'



🧾 Open				×
- WIN-CU2	OX8JDY3D → EM_agent	👻 🚰 Sea	arch	2
🔄 Organize 👻 📗 Views	👻 📑 New Folder			0
Favorite Linksi6769007df96f4bf5d1iDesktopiComputeriDocumentsiPicturesiMusiciRecently ChangediSearchesiPublic	Name A	Date modified	▼ Type 0 Windows Installe	 ✓ Size 40,476 k
Folders 🔨	•			
File <u>n</u> ame	em_SkxzEvQ7_installer	•	Windows Installer pa	ickages (💌 Cancel

Click 'Open'

The 'Deploy Software' dialog will open.

Deploy Software	×
Select deployment method:	
C <u>P</u> ublished	
C Assigned	
Advanced	
Select this option to configure the and to apply modifications to a pa	e Published or Assigned options, ackage.
	OK Cancel

• Select 'Advanced' and click 'OK'. If you select any other option, then you won't be able to add the MST file.



mmunication Cl	ient Properties 🔹 🔋
General Deploym	nent Upgrades Categories Modifications Security
<u>N</u> ame:	
Communication C	lient
Product informa	tion
Version:	6.24
Publisher:	
Language:	English (United States)
Platform:	×86
Support informa	tion
Contact:	
Phone:	
<u>U</u> RL:	
	OK Cancel

Click 'Modifications' tab

Communication Client Properties		? ×		
General Deployment Upgrades Categories	Modifications	Security		
Modifications or transforms allow you to custom applied to the package in the order shown in th	Modifications or transforms allow you to customize the package and are applied to the package in the order shown in the following list:			
Modifications:				
	M	M <u>o</u> ve Up loye Down		
	_			
Add				
Important! Do not press OK until all transforms are added and ordered correctly. For more information, right-click on the Modifications list box, and then click What's this?				
	ок	Cancel		



• Click 'Add' and enter the location of the shared MST file in the open dialog.



Click 'Open'

The file name will be displayed in the dialog.

🧾 Open			×
🌀 🕞 🗜 🕶 EM_ms	t_agent	👻 😝 Search	2
🕒 Organize 👻 📗 View	s 🔻 📑 New Folder		0
Favorite Links 6769007df96f4bf5d1 Desktop Computer Documents Pictures Music Recently Changed Searches Public	Name A	▼ Date modified ▼ Type f 11/23/2018 9:38 MST File	v Size 4 k
Folders 🧳	\		Þ
File <u>n</u> ar	me: em_agent_fd9dcef903	36bb1044107117 Vindows Insta	aller transform p 💌



• Click 'Open' again.

The MST file will be added to GPO.

Communication Client Properties		? ×		
General Deployment Upgrades Categorie	8 Modifications	Security		
Modifications or transforms allow you to customize the package and are applied to the package in the order shown in the following list:				
Modifications:				
\\\WIN-CU20X8JDY3D\EM_mst_agent\em_	agent_fd9c	M <u>o</u> ve Up No <u>v</u> e Down		
<u>Add</u> <u>H</u> emove				
Important! Do not press OK until all transforms are added and ordered correctly. For more information, right-click on the Modifications list box, and then click What's this?				
	ОК	Cancel		

- Click 'OK' to complete the setup.
- Open the command prompt, type gpupdate and press enter to update the GPO.

That's it, you have successfully added MST file to the GPO.

After first successful connection, the device group profile(s) will be applied and the client proxy settings will take over. Make sure the profile(s) (via device, device group, user and/or user group profiles) applied to the enrolled devices contain the same proxy settings in the client proxy settings component.