

McAfee Endpoint Advance Suite Installer 2.0.0

Introduction

McAfee® Endpoint Advanced Suite Installer (McAfee EASI) provides an easy deployment and a centrally managed solution for the installation of McAfee® ePolicy Orchestrator® (McAfee ePO™), SQL Server Express, and various McAfee products.

- **Simple and automated installation** — Through a single installer, you can install McAfee ePO, SQL Server Express, and check in the packages and extensions for various McAfee products.
- **Four types of available suites** — You can download the suite that suits your organization's need. See *McAfee EASI product suites*.
- **Automatic check-in of product components** — Checks in product extensions, packages, custom policies, default policies, and tasks of the McAfee products.
- **Automatic discovery of systems** — McAfee EASI has the ability to detect all systems on the local subnet and add them to the McAfee ePO System Tree.

Deployment through McAfee EASI

McAfee EASI simplifies the setup process for ePolicy Orchestrator and McAfee products.

In traditional deployment, you must download and install ePolicy Orchestrator, download and install all McAfee products individually, then configure policies and tasks.

Using McAfee EASI, the process involves two basic steps.

- 1 Download the McAfee EASI package to your server and unzip the package.
- 2 Execute the installer to launch the McAfee EASI wizard, then follow the prompts.

The ePolicy Orchestrator server is set up with McAfee products, which are ready to be deployed to the client systems.

McAfee EASI product suites

McAfee EASI has four software suites.

- EPS — Endpoint Protection Suite
- EPA — Endpoint Protection Advanced Suite

- CEB — Complete Endpoint Protection Business Suite
- CEE — Complete Endpoint Protection Enterprise Suite

Each suite contains McAfee ePolicy Orchestrator and a set of McAfee products. Select the suite that is most suitable for your organization.

Table 1 McAfee EASI product suites

EPS	EPA	CEB	CEE	McAfee product	Version
Endpoint security					
✓	✓	✓	✓	McAfee® VirusScan® Enterprise for Windows	8.8.3 + Hotfix 805660
✓	✓	✓	✓	Command Line Scanners for Windows, Linux, Solaris, AIX, BSD, and HP-UX	6.0.3
✓	✓	✓	✓	McAfee® Security for Mac (MSM)	1.2 + Hotfix 821823 + Hotfix 833397
✓	✓	✓	✓	McAfee® VirusScan® Enterprise for Linux	1.9.0
		✓		McAfee® VirusScan® Enterprise for Storage	1.0.2
		✓		McAfee® Security for Microsoft SharePoint	2.5.1
			✓	McAfee® Application Control - Desktop	6.1.0
		✓	✓	McAfee® Deep Defender™	1.6.0
✓	✓	✓	✓	McAfee® Host Intrusion Prevention for Desktops (Firewall only)	8.0.2 + Hotfix 791162
	✓	✓	✓	McAfee® Host Intrusion Prevention for Desktops (Intrusion Prevention, App Blocking, and Access Protection)	8.0.2 + Hotfix 791162
Web and messaging security					
✓	✓	✓	✓	McAfee® SiteAdvisor® Enterprise	3.5.1 + Hotfix 809552
✓	✓	✓	✓	McAfee® Web Filtering for Endpoint	3.5.1 + Hotfix 809552
✓	✓	✓	✓	McAfee® Security for Microsoft Exchange	8.0.0
✓	✓	✓	✓	McAfee® Quarantine Manager	7.0.1
Mobile device security and management					
		✓	✓	McAfee® Enterprise Mobility Management	10.2.2
Data protection					
✓	✓	✓	✓	McAfee® Device Control	9.2.2
		✓		McAfee® Endpoint Encryption for PC	7.0.1
		✓		McAfee® Endpoint Encryption for Files and Folders	4.1.1 + Hotfix 879798
Management and deployment					
✓	✓	✓	✓	McAfee ePolicy Orchestrator	4.6.6
✓	✓	✓	✓	Real Time for ePolicy Orchestrator®	1.0.1
			✓	McAfee® ePO Deep Command Discovery	1.5.0
		✓	✓	McAfee® Enterprise Mobility Management	10.2.2
Risk and compliance management					

Table 1 McAfee EASI product suites (continued)

EPS	EPA	CEB	CEE	McAfee product	Version
			✓	McAfee® Risk Advisor	2.7.1 + Hotfix 4
	✓			McAfee® Policy Auditor for Desktops	6.0.1



McAfee EASI installs and configures the components in your suite. However, you need to verify the interoperability and compatibility of these products in your environment.

Installation

Install McAfee EASI in a compatible environment to install and configure McAfee ePO and the McAfee products it will manage.

Pre-installation

Before installing McAfee EASI, make sure that your server is ready and meets all requirements. This section presents you with the information that can help you prepare for the installation.

Package suite .zip files

The software package contains the files necessary to install and set up the ePolicy Orchestrator software, and the McAfee products to be managed.

Package	Content
EASI_EPS.zip	McAfee ePO and software packages for EPS suite products.
EASI_EPA.zip	McAfee ePO and software packages for EPA suite products.
EASI_CEB.zip	McAfee ePO and software packages for CEB suite products.
EASI_CEE.zip	McAfee ePO and software packages for CEE suite products.

System requirements

Make sure that your server meets these requirements.



These are the minimum requirements for McAfee EASI. You can see detailed information about requirements for McAfee ePO in the McAfee ePO installation guide, and product-specific requirements in each product's documentation.

Component	Minimum requirement
Operating system	<ul style="list-style-type: none"> Microsoft Windows 2008 Standard/Enterprise Server SP2 Microsoft Windows 2008 Standard/Enterprise Server R2
Microsoft .NET Framework	Microsoft .NET Framework version 3.5 SP1
RAM	Minimum of 2 GB
Free disk space	10 GB of free space on the installation drive
8.3 Naming Convention	8.3 Naming Convention must be enabled.
Network	Network connection is required.
Ports	Default ports are 80, 443, 1433, 8081, 8082, 8443, 8444, and 8731. These ports can be changed during installation if they are already in use.

Component	Minimum requirement
Virtualization	The installer supports use of these virtual infrastructure software packages: <ul style="list-style-type: none"> • VMware ESX 3.5 Update 4 • VMware ESX 4.0 Update 1
Database	SQL Server Express 2008 R2 SP1 is supplied. You can also use an existing SQL Server.
Network share/mapped drive	You cannot install McAfee EASI from a network share or a mapped drive.

Install the software

Install McAfee EASI by following this simple procedure.

Task

1 Download and extract the installer archive for your suite.

- EASI_EPS.zip
- EASI_EPA.zip
- EASI_CEE.zip
- EASI_CEB.zip

A folder directory structure is created. It has a McAfee EASI executable and folders that the application uses to perform the automated installation and configuration. For details, see *Folders in the McAfee EASI software package*.

2 To launch the installer, double-click `EASI.exe`.

3 In the **Endpoint Advanced Suite Installer** screen, enter these details.

a Enter the details for the user.

- **ePO User name** — Specify the administrator name for McAfee ePO.
- **Password** — Specify the password for McAfee ePO.



The password must be at least 8 characters, have at least one uppercase letter, and have at least one digit.

- **Confirm Password** — Re-enter the password for McAfee ePO.



The user name and password you enter here are set as the user credentials for McAfee ePO and the database.

- b To add all systems in the local subnet to the McAfee ePO System Tree, select **Automatic discovery of systems**.
- c Select the language from **Please Select Language**, accept the terms in the license agreement, then click **Next**.

- 4 Verify the prerequisites listed on the screen. For details, see *Prerequisite details*.







Icon	Status	Description
	Passed	The system requirement is met.
	Warning	The system requirement needs further review but allows the installation to continue.
	Information	Useful system information.
	Failed	The system requirement has failed and must be corrected for the installation to continue.

Table 2 Option definitions – prerequisites

Option	Definition
Item	Displays the prerequisites of the installer.
Information	Displays some useful system information.
Status	Displays the status of the installed component. For example Passed or Failed.
Message	Specifies more information about the failed installation component.
Configure Ports	Provides an option to configure ports in case of conflicts. <div style="background-color: #f0f0f0; padding: 5px;">  This option is available on the left pane, only if the default ports used by the installer are already in use by some other application. To resolve port conflicts, click Configure Ports to open the Configure Ports screen. </div>
Please Select Drive	Provides an option to select a drive for McAfee ePO installation.
Back	Provides an option to go to the previous screen.
Cancel	Provides an option to cancel the installation.
Retry	Provides an option to perform the prerequisite check again and continue the installation. <div style="background-color: #f0f0f0; padding: 5px;">  This option is available if any of the prerequisites are not met. Correct the failed prerequisites and try again. </div>
Next	Provides an option to continue the installation.

- 5 To resolve any port conflicts, click **Configure Ports** and click **Save**.



The ports marked in red are being used by other applications. Change them to continue installation. See *Default port settings* for the default ports used by the application.

- 6 Select the drive of the installation from **Please Select Drive**, then click **Next**.
- 7 Select a database and configure as needed.
- **Install Microsoft SQL Express** — Select to install Microsoft SQL Server Express 2008 R2 SP1.
 - **Use Existing Microsoft SQL Server** — Select to connect to an existing database server on your network.
 - 1 Select a database server from the **Database Server** drop-down list. If it is not listed, you can enter the server manually.
 - 2 Specify the authentication mode by selecting **Windows authentication** or **SQL authentication**.

Windows authentication

- 1 In the **Domain**, type the domain of the user account you're going to use to access the SQL Server.
- 2 Type the **User name** and **Password**. If you are using a previously installed SQL Server, make sure that your user account has sufficient privileges to access the database.

SQL authentication

- Type the **User name** and **Password** for your SQL Server. Make sure that the credentials you provide represent an existing user on the SQL Server with appropriate rights.
- The **Domain** menu is grayed out when using SQL authentication.



You might need to type the **SQL server TCP port** to use for communication between your McAfee ePO server and database server. Default port for this communication is 1433.

8 Click **Install**.

McAfee EASI tries to connect to the database with the credentials you provided. If the connection is successful, the installation begins. If the connection fails, you are prompted to provide the correct details. Make sure there is good connectivity between the ePolicy Orchestrator server and the database server.

9 Verify that the **Message** column shows this message The operation completed successfully for all the components.



If the installation is unsuccessful, check the logs in %temp% folder with the file name ePO.Advanced.Suite.Installer.xxxxxx.log for failures.

10 Click **Finish**.

You have now successfully installed all components of the McAfee EASI software package.

Verifying your installation

Verify that all the components of McAfee EASI are installed correctly.


Log on to the ePolicy Orchestrator server

After the installation of McAfee EASI, you can log on to the ePolicy Orchestrator server with your credentials.

Task

For option definitions, click ? in the interface.

- After installing McAfee EASI, **Log On to ePolicy Orchestrator** screen appears. Log on to the server with the credentials you provided at the beginning of the McAfee EASI installation.

You can also access the ePolicy Orchestrator server by double-clicking  on your desktop, or browse to the server from a remote web console (<https://<servername>:<port>>).

Verify the automatic discovery of systems

After the installation, you can see all the systems in your local subnet on your System Tree, if you had enabled the automatic discovery of systems.

Task

For option definitions, click ? in the interface.

- 1 On the McAfee ePO console, click **Menu | Systems | System Tree**, then verify that all the systems on the subnet are added to the System Tree.



All the systems are added to the System Tree in unmanaged mode if you select the option **Enable automatic discovery of systems** during installation.

- 2 Deploy agents to these systems to manage them. For instructions, see the product documentation for McAfee ePO.

Verify the packages

You can see the product packages in the ePolicy Orchestrator master repository.

Task

For option definitions, click ? in the interface.

- To view the packages, select **Menu | Software | Master Repository**.

If the installation was successful, you see the products from your software package displayed under the master repository.

Verify the extensions

You can see the product extensions in your ePolicy Orchestrator server.

Task

For option definitions, click ? in the interface.

- To view the extensions, select **Menu | Software | Extensions**.

If the installation was successful, you see the product extensions for all installed products from your suite checked in here.

Verify custom policies and tasks

McAfee EASI contains some custom policies and predefined tasks for the McAfee products that you installed. You can see these custom policies and tasks on your ePolicy Orchestrator server.



For details on policies and tasks see the setup guide of McAfee EASI.

Task

For option definitions, click ? in the interface.

- 1 To view the custom policies, click **Menu | Policy | Policy Catalog**.
- 2 From the **Product** list, select the McAfee product to view its policies.
- 3 To view tasks, click **Menu | Policy | Client Task Catalog**.
- 4 Select the task type in the left pane to view custom tasks.

Additional information

This has additional information which can help you in the installation process and about the optional products that you can install after setting up your McAfee ePO.

Optional products to install

After you install the components in your software package through McAfee EASI, you can install more McAfee products that are a part of your suite.

- You can find these files in the `postInstall` folder of your McAfee EASI software package.
- The `postInstall` folder includes policies, extensions, and packages of some McAfee products.
 - For instructions about setting up and using these McAfee products, see the setup guide of McAfee EASI in the software package.
 - We recommend that you install McAfee Enterprise Mobility Management, Real Time for McAfee ePO, and ePolicy Orchestrator on separate servers.



Table 3 Components in `postInstall`

Suite category	Software package	Components in the <code>postInstall</code> folder	Description
EPS	EASI_EPS.zip	Command line Scanners for Windows, Linux, Solaris, AIX, BSD, and HP-UX	
		Real Time for McAfee ePO	
		McAfee Security for Microsoft Exchange (MSME) software extensions per supported language	McAfee EASI checks in the software extension based on the language selected. The other language extensions are placed here.
		License key for McAfee Device Control	
EPA	EASI_EPA.zip	Command line Scanners for Windows, Linux, Solaris, AIX, BSD, and HP-UX	
		Real Time for McAfee ePO	
		McAfee Security for Microsoft Exchange (MSME) software extensions per supported language	McAfee EASI checks in the software extension based on the language selected. The other language extensions are placed here.
		License key for McAfee Device Control	
CEB	EASI_CEB.zip	Command line Scanners for Windows, Linux, Solaris, AIX, BSD, and HP-UX	
		McAfee Enterprise Mobility Management	
		Real Time for McAfee ePO	

Table 3 Components in postInstall (continued)

Suite category	Software package	Components in the postInstall folder	Description
		McAfee Security for Microsoft SharePoint extensions per supported language	McAfee EASI checks in the software extension based on the language selected. The other language extensions are placed here.
		McAfee Security for Microsoft Exchange (MSME) software extensions per supported language	McAfee EASI checks in the software extension based on the language selected. The other language extensions are placed here.
		License key for McAfee Device Control	
CEE	EASI_CEE.zip	Command line Scanners for Windows, Linux, Solaris, AIX, BSD, and HP-UX	
		McAfee Enterprise Mobility Management	
		McAfee Risk Advisor	
		Real Time for McAfee ePO	
		McAfee Security for Microsoft Exchange (MSME) software extensions per supported language	McAfee EASI checks in the software extension based on the language selected. The other language extensions are placed here.
		License key for McAfee Device Control	
		License key for McAfee Application Control - Desktop	

Folders in the McAfee EASI software package





Folders in McAfee EASI software package that the application uses to perform the automated installation and configuration.


Folder name	Description
ePOSetup	ePolicy Orchestrator setup files.
extensions	McAfee product extensions.
installers	Additional components installed by McAfee EASI.
Manuals	The installation guide, setup guide, and release notes for McAfee EASI.
packages	McAfee product packages.
policies	Custom policies for McAfee products.
postInstall	Additional McAfee products that you can install after installing McAfee EASI.
serverTasks	Additional background server tasks that runs on your ePolicy Orchestrator server on a schedule.
sysTree	A sample System Tree structure for ePolicy Orchestrator.

Folder name	Description
tags	Tags that are assigned to systems.
tasks	Custom tasks for McAfee products.
Utilities	Utilities for SQL Server Express database maintenance.
EASI.exe	The executable file that launches the McAfee EASI installation process.

Prerequisite details

This information can help you resolve failed prerequisites during the installation.

Prerequisites	Details
Logging	Specifies the location of McAfee EASI logs created during Installation.
Computer Name	Specifies the name of the computer.
Operating System	Specifies the operating system of the server. McAfee EASI works on only supported operating systems listed in <i>System requirements</i> . If it is executed on any other operating system, this prerequisite fails.
ePolicy Orchestrator	McAfee EASI sets up a new McAfee ePO server. It does not support the upgrade of an existing McAfee ePO server. If ePolicy Orchestrator is already present on the system, this prerequisite fails.
.NET Framework 3.5 SP1	Specifies the .NET Framework present on the system.
Current User	Specifies logged on user name.
User Access Control	Specifies if the user access is enabled or disabled. <div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 5px; margin-top: 10px;">  If User Access Control is enabled, the installer must be run as an administrator. To do this, right-click <code>EASI.exe</code> and select Run as an Administrator. </div>
8dot3NameCreation	Specifies if the 8.3 Naming Convention is enabled or disabled. Your operating system must allow creating short path names. <div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 5px; margin-top: 10px;">  To enable the 8.3 Naming Convention, change the <code>NtfsDisable8dot3NameCreation</code> key to 0 in the path <code>[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\FileSystem\NtfsDisable8dot3NameCreation]</code> and restart the system. See the KB article for more details. https://kc.mcafee.com/corporate/index?page=content&id=kb51431 </div>
Total Memory	Specifies the physical memory space of the system.
Free Disk Space	Specifies the free disk space on the drive.
Host Name	Specifies the host name of the system.
Network Availability	Specifies if the network is available. <div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 5px; margin-top: 10px;">  We recommend using static IP. If DHCP is enabled, the IP address might change once the system restarts. This results in McAfee ePO client-server communication problems. </div>
Listening Ports	Specifies the default ports 80, 443, 1433, 8081, 8443, 8444, and 8731 which will be assigned to ePolicy Orchestrator. <div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 5px; margin-top: 10px;">  If there is a port conflict, you can resolve it with the Configure Ports option. </div>

Prerequisites	Details
Windows Firewall	Specifies if the Windows Firewall feature is enabled or disabled. <div style="border: 1px solid gray; padding: 5px; background-color: #f0f0f0;">  We recommend that you turn off Windows Firewall, because it might block the ePolicy Orchestrator client-server communication. </div>
Local Area Connection	Specifies the local area connection information of the system.

Default ports

These are the default port settings used by McAfee EASI.

Setting name	Port number	Description
EASIAgentPort	80	Agent-server communication port
EASIAgentSecurePort	443	Agent-server secure communication port
EASIDatabasePort	1433	SQL Server TCP port
EASIAgentWakeupPort	8081	Agent wake-up communication port
EASIAgentBroadcastPort	8082	Agent broadcast communication port
EASITomcatSecurePort	8443	Console-to-application server communication port
EASITomcatAuthPort	8444	Client-to-server authenticated communication port
EASIWCFServerPort	8731	Port number used by McAfee Device control

Frequently asked questions

These are answers to some common situations that you might encounter while installing or using the product.

When trying to install EASI.exe, I get error Endpoint Advanced Suite Installer has stopped working . What can I do?

Install .NET framework 3.5 on the system, then try installing McAfee EASI again.

How can McAfee ePO be upgraded or uninstalled using McAfee Endpoint Advanced Suite Installer?

McAfee Endpoint Advanced Suite Installer cannot be used to upgrade or to remove McAfee ePO. It is only meant for setting up the McAfee ePO server for the first time. However, you can log on to the McAfee ePO server to upgrade the McAfee products and their policies.

Can we use McAfee EASI for trial versions of the products?

McAfee EASI installs McAfee ePO in Evaluation mode, which works for 90 days. After this period, you must enter a license key in the McAfee ePO Login screen to continue using it.

Is it possible to check in only product packages and extensions without installing McAfee ePO?

No. McAfee EASI does not allow checking in product policies and extensions to an existing McAfee ePO server. It is always done during the installation of the McAfee ePO server.

What is the default user created for the SQL Express database?

For the Microsoft SQL Server Express database, a database user named **sa** is created with the password you specified during installation.

McAfee ePO installation fails when the SQL Server Browser service is not running. What should I do?

Start the SQL Server Browser service and try installing McAfee EASI again.

What should I do if McAfee EASI installation fails?

Check the logs in the %temp% folder where the installer logs are created. The log files that the installer creates in the directory are:

- ePO.Advanced.Suite.Installer.xxxxx.log (one file per run)
- eASI.ePO.setup.log
- McAfeeScanLine.txt

If the installer wizard does not appear when I run EASI.exe, what should I do?

- Check the event viewer from **Start | Run | eventvwr**.
- See the **General**, and **Details** tabs for the error message.

Where can I find a list of known issues?

See this article in McAfee KnowledgeBase <https://kc.mcafee.com/corporate/index?page=content&id=KB78156>.

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