Sophos Enterprise Console
advanced startup guide

For distributed installations

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1 About this guide

This guide describes how to install Sophos security software for the first time on a complex network or one that has more than 1000 workstations. It covers installation on Windows computers and Macs.

**Note:** Some features will be unavailable if your license does not include them.

If you are installing on a simple network of less than 1000 Windows and Mac workstations, see the *Sophos Enterprise Console quick startup guide* instead of this guide.

If you are installing on Linux or UNIX computers, see the *Sophos Enterprise Console startup guide for Linux and UNIX* as well as this guide.

If you are upgrading, see the *Sophos Enterprise Console upgrade guide* instead.

2 Planning installation

You protect your computers by following these key steps:
1. Install Sophos Enterprise Console.
2. Download security software to a central location on your network.
3. Publish security software on a web server, if desired.
4. Create groups for computers.
5. Set up security policies for those groups.
6. Search for computers on the network and put them into groups.
7. Protect computers.
8. Check the health of your network.
9. Protect any standalone computers.

Note: If you are an Active Directory user, some steps can be handled for you automatically.

This section helps you to think about the choices that you will make at each step.

2.1 Planning the installation of Enterprise Console

Sophos Enterprise Console (SEC) enables you to install and manage security software on your computers.

Enterprise Console includes four components:

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<tr>
<td>Update manager</td>
<td>Downloads Sophos software and updates from Sophos automatically to a central location.</td>
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Management console

You might want to install another instance of the management console on another server, so that you can manage networked computers conveniently. This is related to how you want to configure role-based administration for the management console and how you want to split your IT estate into sub-estates:

- **Role-based administration** for the management console involves setting up roles, adding rights to the roles, and then assigning Windows users and groups to the roles. For example, a Help Desk engineer can update or clean up computers, but cannot configure policies, which is the responsibility of an Administrator.
- **Sub-estates** can be used to restrict the computers and groups that users can perform operations on. You can split your IT estate into sub-estates and assign management console groups of computers to the sub-estates. You can then control access to the sub-estates by assigning Windows users and groups to them. The Default sub-estate contains all management console groups and the Unassigned group.

This guide explains how to install an additional management console. For advice about setting up role-based administration and creating sub-estates, go to www.sophos.com/en-us/support/knowledgebase/63556.aspx.

**Databases**

You might want to install the databases on another server, perhaps because:

- You need more space for the databases.
- You have a dedicated SQL Server server.
- You want to spread processing load across a number of servers.

This guide explains how to install the databases either on the same server as the other Enterprise Console components or on a separate, dedicated database server.

**Note:** If you need to install the databases on a secure server with a script, or in a clustered SQL Server environment, go to www.sophos.com/en-us/support/knowledgebase/33980.aspx.

**Important:** The Sophos Auditing database, **SophosSecurity**, must be present and running side by side with the other Enterprise Console databases, even if you don't intend to use the Sophos Auditing feature. This is because the database is used for enhanced access control as well as for logging audit events.

**Update manager**

An update manager enables you to create shares that contain the endpoint software that you want to deploy. The computers that you want to protect update themselves from these shares. An update manager is always installed as part of Enterprise Console. By default, it places endpoint software and updates in a UNC share SophosUpdate. You can install additional update managers on other servers and create additional shares to download and deploy software on larger networks.

As a general rule, you should install an additional update manager for each 25,000 client computers on your network. We also recommend that you install an additional update manager in a remote location. This would help you to save the bandwidth when updating update shares in that location and ensure that the shares don't become incomplete if the link goes down.

If you use a UNC path for your update share, it should be used by a maximum of 1,000 computers, unless it is on a dedicated file server. If you set up a web location for updating, it can handle up to about 10,000 computers updating from it.
2.2 Planning database security

Audit the database

In addition to the protection built into the Enterprise Console databases, we recommend setting additional protection at the SQL Server instance level (if not already in place) to audit user activities and changes on your SQL Server.

For example, if you are using an Enterprise edition of SQL Server 2008, you can use the SQL Server Audit feature. Earlier versions of SQL Server support login auditing, trigger-based auditing, and event auditing by using a built-in trace facility.

For more information about features that you can use for auditing activities and changes on your SQL Server system, see the documentation for your version of SQL Server. For example:

- SQL Server Audit (Database Engine)
- Auditing (Database Engine), SQL Server 2008 R2
- Auditing in SQL Server 2008
- Auditing (Database Engine), SQL Server 2008

Encrypt connections to the database

We strongly recommend that you encrypt connections between any clients and the Enterprise Console databases. For more information, see the SQL Server documentation:

- Enable Encrypted Connections to the Database Engine (SQL Server Configuration Manager)
- Encrypting Connections to SQL Server 2008 R2
- How to enable SSL encryption for an instance of SQL Server by using Microsoft Management Console

Control access to the database backups

Ensure proper, restrictive access control to any database backups or copies. This will ensure that unauthorized users cannot access the files, tamper with them, or accidentally delete them.

**Note:** The links in this section lead to information maintained by third parties and are provided for your convenience. Although we try to review the accuracy of the links periodically, the links may change without our knowledge.

2.3 Planning the computer groups

You need to decide how to group the computers that you want to protect. For advice, go to www.sophos.com/en-us/support/knowledgebase/63556.aspx.
2.4 Planning the security policies

A security policy is a collection of settings that can be applied to the computers in a group or groups.

When you create groups, Enterprise Console applies default policies to them. You can edit these policies or create new ones, as explained in this guide. For advice about what settings to use, see the Sophos Enterprise Console policy setup guide.

2.5 Planning the search for networked computers

Before you can install security software on networked computers, they must be added to the computer list in Enterprise Console. For information about how to search for computers so that they are added to the computer list, see the Enterprise Console Help.

2.6 Planning how to protect computers

You can install security software automatically from Enterprise Console on Windows computers. 

Note: You cannot install Sophos Client Firewall on computers running server operating systems.

If you have other operating systems on your network, you must install the software manually or by using scripts, or by another method (for example, Active Directory). This guide gives details of manual installation for the following operating systems:

- Windows
- Mac OS X

The Sophos Enterprise Console startup guide for Linux and UNIX gives details of manual installation for other operating systems.
3 System requirements

**Tip:** You can run the Enterprise Console installer to check if the server meets the requirements for the installation of Enterprise Console, even if you do not want to proceed with the installation immediately. You can view the results of the system check on the System Property Checks page of the installation wizard. After you have reviewed the results, click Cancel to close the wizard. If you need more information about the system check results, see http://www.sophos.com/en-us/support/knowledgebase/113945.aspx.

3.1 Hardware and operating system

For hardware and operating system requirements, see the system requirements page of the Sophos website (www.sophos.com/en-us/products/all-system-requirements.aspx).

3.2 Microsoft system software

Enterprise Console requires certain Microsoft system software (for example, database software). The Enterprise Console installer attempts to install this system software if it is not already available on your server. However, in some cases, software is incompatible with your server or needs to be installed manually.

**Note:** After you install the required system software, you may need to restart your computers. For more information, go to https://www.sophos.com/en-us/support/knowledgebase/65190.aspx.

SQL Server installation

The installer attempts to install SQL Server 2012 Express Edition with Service Pack 2 (SP2), unless you choose to use an existing instance of SQL Server 2005 Express or later. Note that:

- We recommend that you do not install SQL Server on a domain controller.
- If you want to install the Enterprise Console databases on a separate server, ensure that the SQL Server instance can be accessed remotely. For more information, go to https://www.sophos.com/en-us/support/knowledgebase/118473.aspx.

.NET Framework installation

The installer installs .NET Framework 4.5.2, unless version 4.x is already installed.

**Important:** As part of the .NET Framework 4.5.2 installation some system services (such as IIS Admin Service) may restart.

After .NET Framework 4.5.2 is installed, you may receive a message asking you to restart your computer. If you do, we recommend that you restart the computer immediately or shortly after the installation.
Microsoft Message Queuing installation

The installer attempts to install Microsoft Message Queuing (MSMQ), unless it is already installed. **Important**: During MSMQ installation, the following services are stopped: MSDTC, MSSQLServer, SQLSERVERAGENT. This interrupts access to the default SQL Server database. You should ensure that the services can safely be stopped during installation. You should also check that they have restarted afterwards.

### 3.3 Port requirements

4 The accounts you need

Before you install Sophos software, you should create the user accounts you need:

- **Database account.** This is a Windows user account that enables Enterprise Console's management service to connect to the database. It is also used by other Sophos services. We recommend that you name the database account `SophosManagement`.

- **Update Manager account.** This is a Windows user account that enables your endpoint computers to access the folders where Enterprise Console puts software updates. We recommend that you name the Update Manager account `SophosUpdateMgr`.

**Note:**

User accounts should not be included in the Windows Protected Users security group. Microsoft's guidelines state that service accounts should not be added to this group, see https://docs.microsoft.com/en-us/windows-server/security/credentials-protection-and-management/protected-users-security-group. This is not supported and you must remove user accounts from this group.

### 4.1 Database account

The database account should:

- Be able to log onto the computer where you are going to install the Sophos Management Server (a component of Enterprise Console).
- Be able to read and write to the system temporary directory e.g. "\windows\temp". By default members of "Users" have this right.
- Have a UPN (User Principal Name) associated with the account if it is a domain account.

All other rights and group memberships that it needs are granted automatically during installation. Sophos recommends that the account:

- Is not set to expire and does not have any other logon restriction.
- Is not an administrative account.
- Is not changed after installation.
- Is named `SophosManagement`.


### 4.2 Update Manager account

The Update Manager account should have Read access to the folder where Enterprise Console puts software updates. By default this is: `\[servername]\SophosUpdate`
Sophos recommends that the account:

- Is not set to expire and does not have any other logon restriction.
- Is not an administrative account.
- Has a UPN (User Principal Name) associated with the account if it is a domain account.
- Is named **SophosUpdateMgr**.

5 Deciding where to install the Enterprise Console components

Sophos Enterprise Console (SEC) includes four components:

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If you install the SEC components on different servers, we recommend that the servers are joined to the same domain.

We recommend that you do not install the SEC databases on a domain controller.

This guide covers two installation scenarios:

- Databases installed on a separate server
- Additional update manager installed on a separate server

In each scenario, the SEC components are distributed across the network differently.
5.1 Databases installed on a separate server

Figure 1: Deployment scenario example: Databases installed on a separate server

To follow this scenario, go to Scenario 1: Databases installed on a separate server (page 16).

5.2 Additional update manager installed on a separate server

In this scenario, there are two methods of configuring the update sources of the update managers. The first method is to:

- Configure the main update manager that is installed alongside the SEC management console to update from Sophos directly.
- Configure the additional update manager to update from the main update manager.
Figure 2: Deployment scenario example: Additional update manager updating from the main update manager

The second method is to:

- Configure the additional update manager to update from Sophos directly.
- Configure the update manager that is installed alongside the SEC management console to update from the additional update manager.

Regardless of which method you choose, to follow this scenario, go to Scenario 2: Additional update manager installed on a separate server (page 22).
6 Scenario 1: Databases installed on a separate server

6.1 Download the installer

**Note:** You can download the installers at any computer and then copy them to the computer where you will use them.


   **Note:** If you need help with your Sophos ID, see Sophos knowledgebase article 111195.

2. If you have logged in for downloads before, you see the Product Downloads and Updates page.

   **Note:** If this is your first time, you see your profile. Click Endpoint and Server Protection and then Downloads and Updates.

3. Under Console, click the link for Sophos Enterprise Console and download the installer.

6.2 Install the SEC databases

**Note:** If you need to install the databases on a secure server with a script, or in a clustered SQL Server environment, go to www.sophos.com/en-us/support/knowledgebase/33980.aspx.

If User Account Control (UAC) (on Windows Server 2008 or later) is turned on, turn it off and restart the server. You can turn UAC on again after you have installed the databases.

Log on as an administrator.

- If the server is in a domain, use a domain account that has local administrator rights.
- If the server is in a workgroup, use a local account that has local administrator rights.

1. Locate the Enterprise Console installer that you downloaded earlier and double-click it.

2. Extract the installation files to the suggested destination folder or another one of your choice. The folder must be on this server.

   An installation wizard guides you through installation. Accept the default options, except as shown below:

   a) On the Components Selection page, make sure that Database is selected and Management Console and Management Server are not selected.

   b) On the Database Details page, enter the details of an account that can log onto both this server and the server on which you will install the Enterprise Console management server. If the servers are in a domain, you can use a domain account. If the servers are in a workgroup, use a local account that exists on both servers. This should not be an administrator account.
Note: You created the database account in Database account (page 11).

When the Enterprise Console wizard has finished, restart the server if you are prompted to do so.

If you turned off User Account Control, you can now turn it on again.

6.3 Install SEC: management console, management server, update manager

Go to the server on which you want to install the Enterprise Console management console, management server, and update manager. Ensure that it is connected to the internet.

The hostname of this server must be different to that of the other servers on which you install an update manager.

If User Account Control (UAC) (on Windows Server 2008 or later) is turned on, turn it off and restart the server. You can turn UAC on again after you have installed Enterprise Console and subscribed to Sophos updates.

Log on as an administrator.

- If the server is in a domain, use a domain account that has local administrator rights.
- If the server is in a workgroup, use a local account that has local administrator rights.

1. Locate the Enterprise Console installer that you downloaded earlier and double-click it.

2. Extract the installation files to the suggested destination folder or another one of your choice. The folder must be on this server.

   An installation wizard guides you through installation. Accept the default options, except as shown below:

   a) On the Components Selection page, make sure that Management Console and Management Server are selected and Database is not selected.

   b) On the Database Details page, enter the location and name of the Enterprise Console databases that you created on the other server. Enter the details of an account that can log onto both this server and the server on which you installed the Enterprise Console databases. If the servers are in a domain, you can use a domain account. If the servers are in a workgroup, use a local account that exists on both servers. This should not be an administrator account.

   Note: You created the database account in Database account (page 11).

When installation is complete, log off or restart the server (the final page in the wizard shows which). When you log on again, Enterprise Console opens automatically and the Download Security Software Wizard runs. Cancel this and run it later when instructed to do so by this guide.
6.4 Install an additional SEC management console

You might want to install another instance of the Sophos Enterprise Console management console on another computer, so that you can manage networked computers conveniently. If you do not want to, skip this section.

**Important:** You must install the same version of Enterprise Console as is running on your management server.

**Note:** The new console will need to access the server on which you installed the Enterprise Console management server. If that server runs a firewall, you might need to configure the firewall to ensure that access is possible. For instructions on how to add a firewall rule to allow DCOM traffic from the remote console to the management server, see knowledgebase article 49028.

To install an additional management console:

If User Account Control (UAC) (on Windows Server 2008 or later and Windows Vista or later) is turned on, turn it off and restart the computer. You can turn UAC on again after you have installed the management console.

Log on as an administrator.

- If the computer is in a domain, use a domain account that has local administrator rights.
- If the computer is in a workgroup, use a local account that has local administrator rights.

1. Locate the Enterprise Console installer that you downloaded earlier and double-click it.
2. Extract the installation files to the suggested destination folder or another one of your choice. The folder must be on this computer.

An installation wizard guides you through installation. Accept the default options, except as shown below:

   a) On the **Components Selection** page, make sure that **Management Console** is selected and **Management Server** and **Database** are not selected.

   b) On the **Management Server** page, enter the name of the server on which you installed the Enterprise Console management server.

       **Note:** If you changed the port during the management server installation, make sure that you specify the same port on this page.

   c) If you are in a domain environment, enter the user account that is used to access the Enterprise Console databases.

       The account is the one that you entered when you installed the Enterprise Console databases. It is the same as that used by the Sophos Management Host service on the server on which you installed the Enterprise Console management server.

When the wizard has finished, log off or restart the computer (the final page in the wizard shows which). When you log on again, Enterprise Console opens automatically. If the **Download Security Software Wizard** runs, cancel it.

If you turned off User Account Control before installation, you can now turn it on again.
To enable other users to use the additional management console:

- Add them to the **Sophos Console Administrators** group and the **Distributed COM Users** group on the server on which you have installed the management server.
- Assign them to at least one Enterprise Console role and sub-estate.

### 6.5 Downloading security software

To download security software to a central location, ready for deployment to workstations, you must configure the update manager that you installed. You can use one or both of the following methods.

Configure the update manager automatically (page 19) explains how to run a wizard, which enables you to download:

- Security software for all supported platforms.
- Only the currently recommended version.
- Only to subfolders of the share `\server name\SophosUpdate`, where `server name` is the name of the server on which the update manager is installed.

Configure the update manager manually (page 20) explains how to configure the update manager directly, to enable you to download:

- Security software for all supported platforms.
- Preview or earlier versions.
- To other shares, perhaps on other servers.

### 6.5.1 Configure the update manager automatically

1. In Enterprise Console, on the **Actions** menu, click **Run the Download Security Software Wizard**.
2. On the **Sophos download account details** page, enter the username and password that are printed on your license schedule. If you access the internet via a proxy server, select the **Access Sophos via a proxy server** check box.
3. On the **Platform selection** page, select the platforms that you want to protect.
   - When you click **Next**, Enterprise Console begins downloading your software.
   - On the **Downloading software** page, downloading progress is displayed. Click **Next** at any time.
4. On the **Import computers from Active Directory** page, select the **Set up groups for your computers** check box if you want Enterprise Console to use your existing Active Directory computer groups.

   **Note:** If a computer is added to more than one Active Directory container, it will cause a problem, with messages being exchanged continually between the computer and Enterprise Console.
The software that you have selected is downloaded to the share `\server\name\SophosUpdate`, where `server name` is the name of the server on which the update manager is installed.

If you turned off User Account Control before installation of Enterprise Console, you can now turn it on again.

Now configure the update manager manually, if necessary. Then go to Publish security software on a web server (page 32).

**6.5.2 Configure the update manager manually**

If you turned off User Account Control before installation of Enterprise Console, you can now turn it on again.

1. In Enterprise Console, on the View menu, click Update Managers.
2. If you have not configured the update manager automatically, configure it to use Sophos as its update source:
   a) In the Update managers pane, select the update manager that is installed on this server. Right-click it and click View/Edit configuration.
   b) In the Configure update manager dialog box, on the Sources tab, click Add.
   c) In the Source Details dialog box, in the Address box, select Sophos. In the Username and Password boxes, type the download credentials that were supplied by Sophos.
   d) If you access the update source via a proxy server, select the Use a proxy server to connect check box. Type the proxy server Address and Port number. In the Username and Password boxes, type the credentials that give access to the proxy server. If the username needs to be qualified to indicate the domain, use the form domain\username.
   e) Click OK to close the Source Details dialog box.
      **Sophos** is listed on the Sources tab of the Configure update manager dialog box.
   f) Click OK to close the Configure update manager dialog box.
3. Subscribe to the software that you want to download:
   a) In the Software Subscriptions pane:
      - To change an existing subscription, double-click it.
      - To add a new subscription, click Add at the top of the pane.
   b) In the Software Subscription dialog box, if you are adding a new subscription, type a name for it in the Subscription name box.
   c) In the platform list, select the check box next to the software that you want and in the version box select the version that you want.
      Normally, you subscribe to the Recommended version to ensure that your software is kept up to date automatically. For information about what other types of version are available, see the Enterprise Console Help, in the section about configuring software subscriptions.
   d) Click OK to close the Software Subscription dialog box.
   e) Repeat these steps for each subscription that you want to change or add.
4. Configure the update manager to use these subscriptions:
   a) In the Update managers pane, select the update manager that is installed on this server. Right-click it and click View/Edit configuration.
   b) In the Configure update manager dialog box, on the Subscriptions tab, make sure that the subscriptions are in the Subscribed to list. If not, select the subscriptions in the Available list and click the > button to move them to the Subscribed to list.

5. If you want to download to shares other than \server name\SophosUpdate:
   a) Click the Distribution tab.
   b) Make sure that the subscription that you want to use is selected in the list at the top of the tab.
   c) Click Add.
   d) In the Browse For Folder dialog box, browse to one of the shares. Click OK.
   e) Select the share in the Available list and click the > button to move it to the Update to list.
   f) To enter a description for the share, or credentials to write to it, select the share and click Configure. In the Share Manager dialog box, enter the description and credentials.
   g) Repeat these steps for each share.

6. Click OK to close the Configure update manager dialog box.

   The software that you have selected is downloaded to the shares that you have specified.

You have finished installing the management tools. Now go to Publish security software on a web server (page 32).
7 Scenario 2: Additional update manager installed on a separate server

In this scenario, there are two methods of configuring the update sources of the update managers. The first method is to:

- Configure the main update manager that is installed alongside the management console to update from Sophos directly.
- Configure the additional update manager to update from the main update manager.

The second method is to:

- Configure the additional update manager to update from Sophos directly.
- Configure the update manager that is installed alongside the management console to update from the additional update manager.

The second method can be used if you do not want to connect the main Enterprise Console server to the internet.

The method that you choose affects:

- Which servers need to be connected to the internet. In the following installation sections, you are told when the server that you are installing on needs an internet connection.
- Which method you choose to download security software to a central location, ready for deployment to workstations. Choose the appropriate section when you get to that point.
- Whether you can use the patch assessment feature in Enterprise Console. To use this feature, you must choose the first method.

7.1 Download the installer

**Note:** You can download the installers at any computer and then copy them to the computer where you will use them.

   **Note:** If you need help with your Sophos ID, see Sophos knowledgebase article 111195.

2. If you have logged in for downloads before, you see the **Product Downloads and Updates** page.
   **Note:** If this is your first time, you see your profile. Click **Endpoint and Server Protection** and then **Downloads and Updates**.

3. Under **Console**, click the link for **Sophos Enterprise Console** and download the installer.
7.2 Install SEC: all components

Go to the server on which you want to install all components of Enterprise Console. If you want the update manager that you will install on this server to update directly from Sophos, ensure that the server is connected to the internet.

The hostname of this server must be different to that of the other servers on which you install an update manager.

If User Account Control (UAC) (on Windows Server 2008 or later) is turned on, turn it off and restart the server. You can turn UAC on again after you have installed Enterprise Console and subscribed to Sophos updates.

Log on as an administrator.

- If the server is in a domain, use a domain account that has local administrator rights.
- If the server is in a workgroup, use a local account that has local administrator rights.

1. Locate the Enterprise Console installer that you downloaded earlier and double-click it.
2. Extract the installation files to the suggested destination folder or another one of your choice. The folder must be on this server.
   An installation wizard guides you through installation. Accept the default options, except as shown below:
   a) On the Components Selection page, make sure that all the components are selected.
   b) On the Database Details page, enter the details of an account that can log onto this server.
      If the server is in a domain, you can use a domain account. If the server is in a workgroup, use a local account that exists on the server. This should not be an administrator account.

   Note: You created the database account in Database account (page 11).

When installation is complete, log off or restart the server (the final page in the wizard shows which). When you log on again, Enterprise Console opens automatically and the Download Security Software Wizard runs. Cancel this and run it later when instructed to do so by this guide.

7.3 Install an additional SEC management console

You might want to install another instance of the Sophos Enterprise Console management console on another computer, so that you can manage networked computers conveniently. If you do not want to, skip this section.

Important: You must install the same version of Enterprise Console as is running on your management server.

Note: The new console will need to access the server on which you installed the Enterprise Console management server. If that server runs a firewall, you might need to configure the firewall to ensure that access is possible. For instructions on how to add a firewall rule to allow DCOM traffic from the remote console to the management server, see knowledgebase article 49028.

To install an additional management console:
If User Account Control (UAC) (on Windows Server 2008 or later and Windows Vista or later) is turned on, turn it off and restart the computer. You can turn UAC on again after you have installed the management console.

Log on as an administrator.

- If the computer is in a domain, use a domain account that has local administrator rights.
- If the computer is in a workgroup, use a local account that has local administrator rights.

1. Locate the Enterprise Console installer that you downloaded earlier and double-click it.
2. Extract the installation files to the suggested destination folder or another one of your choice. The folder must be on this computer.

An installation wizard guides you through installation. Accept the default options, except as shown below:

a) On the **Components Selection** page, make sure that **Management Console** is selected and **Management Server** and **Database** are not selected.

b) On the **Management Server** page, enter the name of the server on which you installed the Enterprise Console management server.

   **Note:** If you changed the port during the management server installation, make sure that you specify the same port on this page.

c) If you are in a domain environment, enter the user account that is used to access the Enterprise Console databases.

   The account is the one that you entered when you installed the Enterprise Console databases. It is the same as that used by the Sophos Management Host service on the server on which you installed the Enterprise Console management server.

When the wizard has finished, log off or restart the computer (the final page in the wizard shows which). When you log on again, Enterprise Console opens automatically. If the **Download Security Software Wizard** runs, cancel it.

If you turned off User Account Control before installation, you can now turn it on again.

To enable other users to use the additional management console:

- Add them to the **Sophos Console Administrators** group and the **Distributed COM Users** group on the server on which you have installed the management server.
- Assign them to at least one Enterprise Console role and sub-estate.

### 7.4 Install an additional update manager

**Important:** If you want to install an additional SEC management console on the server on which you want to install an additional update manager, you must install the additional console first, as explained in **Install an additional SEC management console** (page 23).

Go to the server on which you want to install an additional update manager. If you want the update manager that you will install on this server to update directly from Sophos, ensure that the server is connected to the internet.
The hostname of this server must be different to that of the other servers on which you install an update manager.

If Network Discovery (on Windows Server 2008 or later) is turned off, turn it on and restart the server.

If User Account Control (UAC) (on Windows Server 2008 or later) is turned on, turn it off and restart the server. You can turn UAC on again after you have installed the update manager and subscribed to Sophos updates.

Log on as an administrator.

- If the server is in a domain, use a domain account that has local administrator rights.
- If the server is in a workgroup, use a local account that has local administrator rights.

1. Find the SUMInstallSet shared folder on the server on which you installed Enterprise Console.
2. Double-click Setup.exe to run the installer.
   An installation wizard guides you through installation. Accept the default options.

You have installed an update manager that is managed by Enterprise Console.

7.5 Downloading security software

In this scenario, there are two methods of configuring the update sources of the update managers. Choose the one that is most appropriate for you:

- Main update manager updating from Sophos (page 25)
- Additional update manager updating from Sophos (page 29)

7.5.1 Main update manager updating from Sophos

Configuring the main update manager to update from Sophos

You must configure the main update manager that you installed alongside the SEC management console to update from Sophos directly. You can use one or both of the following methods.

Configure the main update manager automatically (page 26) explains how to run a wizard, which enables you to download:

- Security software for all supported platforms.
- Only the latest version.
- Only to subfolders of the share `\server name\SophosUpdate`, where `server name` is the name of the server on which the main update manager is installed.

Configure the main update manager manually (page 26) explains how to configure the main update manager directly, to enable you to download:

- Security software for all supported platforms.
- Earlier versions.
To other shares, perhaps on other servers.

For information about what other types of version are available, see the Enterprise Console Help, in the section about configuring subscriptions.

Configuring the additional update manager to update from the main update manager

Configure the additional update manager (page 28) explains how to configure the additional update manager to update from the main update manager.

### 7.5.1.1 Configure the main update manager automatically

1. In Enterprise Console, on the **Actions** menu, click **Run the Download Security Software Wizard**.
2. On the **Sophos download account details** page, enter the username and password that are printed on your license schedule. If you access the internet via a proxy server, select the **Access Sophos via a proxy server** check box.
3. On the **Platform selection** page, select the platforms that you want to protect.
   
   When you click **Next**, Enterprise Console begins downloading your software.
4. On the **Downloading software** page, downloading progress is displayed. Click **Next** at any time.
5. On the **Import computers from Active Directory** page, select the **Set up groups for your computers** check box if you want Enterprise Console to use your existing Active Directory computer groups.
   
   **Note:** If a computer is added to more than one Active Directory container, it will cause a problem, with messages being exchanged continually between the computer and Enterprise Console.

The software that you have selected is downloaded to the share `\\server name\SophosUpdate`, where `server name` is the name of the server on which the update manager is installed.

If you turned off User Account Control before installation of Enterprise Console, you can now turn it on again.

Now configure the update manager manually, if necessary. Then go to Configure the additional update manager (page 28).

### 7.5.1.2 Configure the main update manager manually

If you turned off User Account Control before installation of Enterprise Console, you can now turn it on again.

1. In Enterprise Console, on the **View** menu, click **Update Managers**.
2. If you have not configured the update manager automatically, configure it to use Sophos as its update source:
   a) In the Update managers pane, select the update manager that is installed on this server. Right-click it and click View/Edit configuration.
   b) In the Configure update manager dialog box, on the Sources tab, click Add.
   c) In the Source Details dialog box, in the Address box, select Sophos. In the Username and Password boxes, type the download credentials that were supplied by Sophos.
   d) If you access the update source via a proxy server, select the Use a proxy server to connect check box. Type the proxy server Address and Port number. In the Username and Password boxes, type the credentials that give access to the proxy server. If the username needs to be qualified to indicate the domain, use the form domain\username.
   e) Click OK to close the Source Details dialog box.
   Sophos is listed on the Sources tab of the Configure update manager dialog box.
   f) Click OK to close the Configure update manager dialog box.

3. Subscribe to the software that you want to download:
   a) In the Software Subscriptions pane:
      - To change an existing subscription, double-click it.
      - To add a new subscription, click Add at the top of the pane.
   b) In the Software Subscription dialog box, if you are adding a new subscription, type a name for it in the Subscription name box.
   c) In the platform list, select the check box next to the software that you want and in the version box select the version that you want.
      Normally, you subscribe to the Recommended version to ensure that your software is kept up to date automatically. For information about what other types of version are available, see the Enterprise Console Help, in the section about configuring software subscriptions.
   d) Click OK to close the Software Subscription dialog box.
   e) Repeat these steps for each subscription that you want to change or add.

4. Configure the update manager to use these subscriptions:
   a) In the Update managers pane, select the update manager that is installed on this server. Right-click it and click View/Edit configuration.
   b) In the Configure update manager dialog box, on the Subscriptions tab, make sure that the subscriptions are in the Subscribed to list. If not, select the subscriptions in the Available list and click the > button to move them to the Subscribed to list.

5. Click OK to close the Configure update manager dialog box.

The software that you have selected is downloaded to the update manager that is installed on this server.
7.5.1.3 **Configure the additional update manager**

1. In Enterprise Console, on the View menu, click **Update Managers**.
2. Configure the additional update manager to use the main update manager as its update source:
   a) In the **Update managers** pane, select the additional update manager. Right-click it and click **View/Edit configuration**.
   b) In the **Configure update manager** dialog box, on the **Sources** tab, click **Add**.
   c) In the **Source Details** dialog box, in the **Address** box, select the share to which the main update manager downloads software.
      The **Username** and **Password** boxes are automatically populated with the credentials that are needed to access this share.
   d) If you access the update source via a proxy server, select the **Use a proxy server to connect** check box. Type the proxy server **Address** and **Port** number. In the **Username** and **Password** boxes, type the credentials that give access to the proxy server. If the username needs to be qualified to indicate the domain, use the form domain\username.
   e) Click **OK** to close the **Source Details** dialog box.
      The share to which the main update manager downloads software is listed on the **Sources** tab of the **Configure update manager** dialog box.
3. Configure the update manager to use the subscriptions that you set up earlier:
   - On the **Subscriptions** tab, make sure that the subscriptions are in the **Subscribed to** list.
     If not, select the subscriptions in the **Available** list and click the > button to move them to the **Subscribed to** list.
4. If you want to download to shares other than ```\server name\SophosUpdate```:
   a) Click the **Distribution** tab.
   b) Make sure that the subscription that you want to use is selected in the list at the top of the tab.
   c) Click **Add**.
   d) In the **Browse For Folder** dialog box, browse to one of the shares. Click **OK**.
   e) Select the share in the **Available** list and click the > button to move it to the **Update to** list.
   f) To enter a description for the share, or credentials to write to it, select the share and click **Configure**. In the **Share Manager** dialog box, enter the description and credentials.
   g) Repeat these steps for each share.
5. Click **OK** to close the **Configure update manager** dialog box.

The software that you have selected is downloaded to the shares that you have specified during the next scheduled update.

You have finished installing the management tools. Now go to Publish security software on a web server (page 32).
7.5.2 Additional update manager updating from Sophos

Configure the additional update manager (page 29) explains how to configure the additional update manager to update from Sophos directly.

Configure the main update manager (page 30) explains how to configure the main update manager that you installed alongside the SEC management console to update from the additional update manager.

7.5.2.1 Configure the additional update manager

If you turned off User Account Control before installation of Enterprise Console, you can now turn it on again.

1. In Enterprise Console, on the View menu, click Update Managers.

2. Configure the additional update manager to use Sophos as its update source:
   a) In the Update managers pane, select the additional update manager. Right-click it and click View/Edit configuration.
   b) In the Configure update manager dialog box, on the Sources tab, click Add.
   c) In the Source Details dialog box, in the Address box, select Sophos. In the Username and Password boxes, type the download credentials that were supplied by Sophos.
   d) If you access the update source via a proxy server, select the Use a proxy server to connect check box. Type the proxy server Address and Port number. In the Username and Password boxes, type the credentials that give access to the proxy server. If the username needs to be qualified to indicate the domain, use the form domain\username.
   e) Click OK to close the Source Details dialog box.

       Sophos is listed on the Sources tab of the Configure update manager dialog box.

   f) Click OK to close the Configure update manager dialog box.

3. Subscribe to the software that you want to download:
   a) In the Software Subscriptions pane:
      ▪ To change an existing subscription, double-click it.
      ▪ To add a new subscription, click Add at the top of the pane.
   b) In the Software Subscription dialog box, if you are adding a new subscription, type a name for it in the Subscription name box.
   c) In the platform list, select the check box next to the software that you want and in the version box select the version that you want.
      Normally, you subscribe to the Recommended version to ensure that your software is kept up to date automatically. For information about what other types of version are available, see the Enterprise Console Help, in the section about configuring software subscriptions.
   d) Click OK to close the Software Subscription dialog box.
   e) Repeat these steps for each subscription that you want to change or add.
4. Configure the update manager to use these subscriptions:
   a) In the Update managers pane, select the additional update manager. Right-click it and click View/Edit configuration.
   b) In the Configure update manager dialog box, on the Subscriptions tab, make sure that the subscriptions are in the Subscribed to list. If not, select the subscriptions in the Available list and click the > button to move them to the Subscribed to list.

5. Click OK to close the Configure update manager dialog box.
   The software that you have selected is downloaded to the additional update manager.

7.5.2.2 Configure the main update manager

1. In Enterprise Console, on the View menu, click Update Managers.

2. Configure the main update manager to use the additional update manager as its update source:
   a) In the Update managers pane, select the update manager that is installed on this server. Right-click it and click View/Edit configuration.
   b) In the Configure update manager dialog box, on the Sources tab, click Add.
   c) In the Source Details dialog box, in the Address box, select the share to which the additional update manager downloads software.
      The Username and Password boxes are automatically populated with the credentials that are needed to access this share.
   d) If you access the update source via a proxy server, select the Use a proxy server to connect check box. Type the proxy server Address and Port number. In the Username and Password boxes, type the credentials that give access to the proxy server. If the username needs to be qualified to indicate the domain, use the form domain\username.
   e) Click OK to close the Source Details dialog box.
      The share to which the additional update manager downloads software is listed on the Sources tab of the Configure update manager dialog box.

3. Configure the update manager to use the subscriptions that you set up earlier:
   ■ On the Subscriptions tab, make sure that the subscriptions are in the Subscribed to list. If not, select the subscriptions in the Available list and click the > button to move them to the Subscribed to list.
4. If you want to download to shares other than `\server name\SophosUpdate`:
   a) Click the Distribution tab.
   b) Make sure that the subscription that you want to use is selected in the list at the top of the tab.
   c) Click Add.
   d) In the Browse For Folder dialog box, browse to one of the shares. Click OK.
   e) Select the share in the Available list and click the > button to move it to the Update to list.
   f) To enter a description for the share, or credentials to write to it, select the share and click Configure. In the Share Manager dialog box, enter the description and credentials.
   g) Repeat these steps for each share.

5. Click OK to close the Configure update manager dialog box.

The software that you have selected is downloaded to the shares that you have specified during the next scheduled update.

You have finished installing the management tools. Now go to Publish security software on a web server (page 32).
8 Publish security software on a web server

You might want to publish Sophos security software on a web server for computers to access via HTTP. This can be especially useful for computers that are not always connected to the network.

9 Create computer groups

If you used the Download Security Software Wizard to set up your computer groups (based on your Active Directory groups), skip this section. Go to Setting up security policies (page 34).

Before you can protect and manage computers, you need to create groups for them.

1. If the Groups pane (left-hand side of the window) is not displayed, on the View menu, click Endpoints.
2. Click anywhere within the Groups pane. Ensure that the Unassigned group is not selected.
3. On the Groups menu, click Create Group.
   
   A New Group is added in the left-hand pane, with its name highlighted.
4. Enter the name that you want to use for the group.
5. To create another top-level group, select the server shown at the top of the Groups pane, and repeat steps 3 and 4.
   To create a sub-group of an existing group, select the existing group, and repeat steps 3 and 4.
10 Setting up security policies

A security policy is a collection of settings that can be applied to the computers in a group or groups.

Enterprise Console applies default policies to your computer groups. This section explains:
- What the default policies are and whether you need to change them.
- How to create or edit a policy.
- How to apply a policy to your computer groups.

10.1 Default policies

Enterprise Console applies “default” security policies to your computer groups. You do not have to change these policies unless you want to, with these exceptions:
- You must set up a firewall policy now.
- You must edit the application control, data control, device control, tamper protection, patch, exploit prevention or web control policies if you want to use these features. You can do this any time.

For recommended policy settings, see the Sophos Enterprise Console policy setup guide.

10.2 Set up a firewall policy

By default, the firewall blocks all non-essential connections. Therefore you must configure the firewall before you protect your computers.

1. In the Policies pane, right-click Firewall, and click Create Policy. A New Policy is added to the list, with its name highlighted. Type the name that you want to use for the policy.

2. Double-click the policy to edit it. A wizard is launched.

3. In the Firewall Policy Wizard we recommend that you make the following selections.
   a) On the Configure firewall page, select Single location unless you want the firewall to use different settings according to the location where you use it.
   b) On the Operational Mode page, select Block inbound and allow outbound traffic.
   c) On the File and printer sharing page, select Allow file and printer sharing.
10.3 Create or edit a policy

1. In Enterprise Console, if the Policies pane (bottom left-hand side of the window) is not displayed, on the View menu, click Endpoints.

2. In the Policies pane, do one of the following:
   - To create a new policy, right-click the type of policy that you want to create, for example Updating, and click Create Policy.
   - To edit a default policy, double-click the type of policy that you want to edit. Then select Default.

   If you created a policy, a New Policy is added to the list, with its name highlighted. Type the name that you want to use for the policy.

3. Double-click the policy. Enter the settings that you want.

   If you created a policy, you need to apply your policy to a computer group.

10.4 Apply a policy to a group

   - In the Policies pane, drag the policy to the group to which you want to apply the policy.

   Note: Alternatively, you can right-click a group and select View/Edit Group Policy Details. You can then select policies for that group from drop-down menus.
11 Search for computers

You must search for computers on the network before Enterprise Console can protect and manage them.

1. If the Groups pane (left-hand side of the window) is not displayed, on the View menu, click Endpoints.
2. On the Actions menu, click Discover Computers.
3. Select the method that you want to use to search for computers.
4. Enter account details if necessary and specify where you want to search.

If you use one of the Discover options, the computers are placed in the Unassigned group.
12 Preparing to protect computers

12.1 Prepare for removal of third-party software

If you want the Sophos installer to remove any previously installed security software:

1. On computers that are running another vendor’s anti-virus software, ensure that the anti-virus software user interface is closed.
   
   **Note:** HitmanPro.Alert may already be installed either as a standalone product or from Sophos Central. You should remove HitmanPro.Alert before applying on-premise management from Sophos Enterprise Console.

2. On computers that are running another vendor’s firewall or HIPS product, ensure that the firewall or HIPS product is turned off or configured to allow the Sophos installer to run.

If computers are running another vendor’s update tool, you may want to remove it. For more information, see the Enterprise Console Help.

12.2 Check that you have an account that can be used to install software

You will be prompted to enter details of a Windows user account that can be used to install security software. It must:

- Have local administrator rights on computers you want to protect.
- Be able to log on to the computer where you installed Enterprise Console.
- Have Read permission to the location that computers will update from. To check this location, in the **Policies** pane, double-click **Updating**, and then double-click **Default**.

   **Note:** If the **Policies** pane (bottom left-hand side of the window) is not displayed, on the **View** menu, click **Endpoints**.

We recommend that the account:

- Is not a domain administrator account and is configured for constrained delegation.
- Has no administrative rights or any elevated privileges on the computers where Enterprise Console, additional update managers, or message relays are installed.
- Has no Write or Modify permission to the location that computers will update from.
- Is used only for protecting computers and not used for general administrative tasks.
- Has its password changed frequently.
12.3 Prepare for installation of anti-virus software

You may need to prepare computers prior to installation of anti-virus software. For advice, see the Sophos endpoint deployment guide (https://docs.sophos.com/esg/enterprise-console/tools/deployment_guide/en-us/index.html), the section about preparing computers for deployment.

We recommend that the computers being protected have a firewall enabled.

**Note:** After the computers have been successfully protected and appear as managed in Enterprise Console, consider disabling any firewall exceptions created specifically to allow remote deployment on the computers.
13 Protecting computers

13.1 Protect Windows computers automatically

This section describes how to use Enterprise Console to protect Windows computers automatically. You can also use your own tools or scripts for installing protection on Windows computers. For details, go to www.sophos.com/en-us/support/knowledgebase/114191.aspx.

Note: When you install Sophos Client Firewall, all network adapters are temporarily disconnected. This results in network connections being unavailable for up to 20 seconds and the disconnection of networked applications such as Microsoft Remote Desktop.

1. In Enterprise Console, select the computers that you want to protect.
2. Do one of the following:
   - If the computers have been placed in groups, right-click the selection and click Protect computers.
   - If the computers are in the Unassigned group, simply drag them to your chosen groups.

A wizard guides you through installation of Sophos security software. Accept the default options, except as shown below:

   a) On the Select features page, select additional features you want to install.
   b) On the Protection summary page, check the details of any installation problems. For help, see Troubleshooting (page 39).
   c) On the Credentials page, enter details of an account that can be used to install software on computers.

The computers that you have selected are protected with security software. Installation is staggered, so that the process may not be complete on all the computers for some time. Some computers might need to be restarted to complete the installation.

When installation is complete, look at the list of computers again. In the On-access column, the word Active indicates that the computer is scanning for threats on access.

13.1.1 Troubleshooting

When you try to protect Windows computers automatically, installation of security software can fail for a number of reasons:

   - Automatic installation is not possible on that operating system. Perform a manual installation. See Protect Windows computers or Macs manually (page 40). For other operating systems, see the later sections of this guide.
   - The operating system could not be determined. This may be because you did not enter your username in the format domain\username when finding computers.
   - Firewall rules are blocking access needed to deploy the security software.
On Windows XP computers, Simple File Sharing has not been turned off.
On Windows Vista computers, Sharing Wizard has not been turned off.
You selected to install a feature that is not supported on that operating system.

13.2 Protect Windows computers or Macs manually

If you have computers that you cannot protect automatically, you protect them by running an installer from the shared folder to which the security software has been downloaded. This folder is known as the bootstrap location.

You must use an administrator account on the computers that you want to protect.

To protect Windows computers or Macs manually:

1. In Enterprise Console, on the View menu, click Bootstrap Locations.
   A list of locations is displayed. Make a note of the location for each operating system you want to protect.

2. At each computer that you want to protect, browse to the bootstrap location and do as follows:
   - For Windows computers, find setup.exe and double-click it.
   - For Macs, copy the Sophos Installer.app installer file and the Sophos Installer Components directory to a preferred location (for example, the Desktop) and double-click it.

   A wizard guides you through installation. Accept the default options, except as shown below:
   - On Windows computers, in the User account details, enter details of the account that you specified for access to Update Manager. You did this when you installed Enterprise Console, in Update Manager account (page 11).
   
   Tip: If you're not sure which account this is, use any low-privilege account that can access the bootstrap location. Enterprise Console will apply an updating policy that includes the right user account details later.

13.3 Protect Linux or UNIX computers

For details of how to protect Linux or UNIX computers, see the Enterprise Console startup guide for Linux and UNIX.
14 Check the health of your network

To check the health of your network from Enterprise Console:

1. View the Enterprise Console Dashboard.
   If it is not already displayed, on the View menu, click Dashboard.

   The Dashboard shows you how many computers:
   - Have detected threats.
   - Are out of date.
   - Do not comply with policies.
15 Protecting standalone computers

Some computers are never on the network and are not easy to access, for example computers that staff use at home. To protect these computers, you ask each user to install Sophos security software individually using a “standalone” installer. The software is then kept up to date via the internet. There are two possible approaches:

- The user can download the software from www.sophos.com/en-us/support/downloads/standalone-installers/esc-for-windows-2000-up.aspx. They install the software and configure it to update from Sophos.
- You can republish the software and all subsequent updates on your own website. The user downloads the software from that website, installs it, and configures it to update from that website. For information on how to republish Sophos updates on your own website, go to www.sophos.com/en-us/support/knowledgebase/38238.aspx.

15.1 Send standalone users the information they need

Send any users who are not on your network the following:

- The location from which they can download the security software (unless you are providing it on CD).
- The Sophos Endpoint Security and Control standalone startup guide.
- The username and password that they need (whether they are downloading from Sophos directly or from your own website).

When you send the username and password:

- Do not send them to an infected computer by email, as they might be stolen.
- If necessary, send them by fax or letter post.
16 Technical support

You can find technical support for Sophos products in any of these ways:

- Visit the Sophos Community at community.sophos.com/ and search for other users who are experiencing the same problem.
- Open a ticket with our support team at https://secure2.sophos.com/support/contact-support/support-query.aspx.
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If you have any suggestions, additions, comments, or questions, please let me know.

Douglas C. Schmidt

Apache

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ConvertUTF

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WilsonORMapper

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