Symantec™ Endpoint Protection and Symantec Network Access Control 12.1.5 for Windows Client Guide
Symantec Endpoint Protection and Symantec Network Access Control for Windows Client Guide

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Available memory, disk space, and NIC information
Operating system
Version and patch level
Network topology
Router, gateway, and IP address information
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Europe, Middle-East, and Africa  
semea@symantec.com

North America and Latin America  
supportsolutions@symantec.com
Chapter 1  Getting started on the Symantec Endpoint Protection client ............................................................ 11

  About the Symantec Endpoint Protection client ........................................................... 11
  How do I protect my computer? .................................................................................. 12
  How to determine whether the client computer is connected and protected ........................................... 16
  How to determine whether the client computer is protected using the Status page icons ........................................ 17
  Scanning your computer immediately ........................................................................ 18
  Pausing and delaying scans ..................................................................................... 20
  Running a Host Integrity check .................................................................................. 20
  Remediating your computer to pass the Host Integrity check ......................................... 21
  Updating the client content using LiveUpdate ................................................................ 22
  About managed clients and unmanaged clients ......................................................... 24
  Checking whether the client is managed or unmanaged ............................................. 26

Chapter 2  Responding to alerts and notifications ......................................................... 27

  Types of alerts and notifications ............................................................................... 27
  About scan results .................................................................................................. 29
  Responding to a virus or a risk detection .................................................................... 30
  Responding to Download Insight messages that ask you to allow or block a file that you try to download .................................................................................. 32
  Responding to the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers ................................................................. 33
  Responding to messages that ask you to allow or block an application ......................................................................................... 34
  Responding to expired license messages .................................................................. 35
  Responding to messages to update the client software ............................................. 36
  Responding to messages to remediate your computer after it fails a Host Integrity check ........................................................................................................ 37
Chapter 3  Managing scans  

Managing scans on your computer  
How virus and spyware scans work  
   About viruses and security risks  
   About the types of scans  
   About the types of Auto-Protect  
How scans respond to a virus or risk detection  
How Symantec Endpoint Protection uses reputation data to make decisions about files  
Scheduling a user-defined scan  
Scheduling a scan to run on demand or when the computer starts up  
Managing Download Insight detections on your computer  
Customizing Download Insight settings  
Customizing virus and spyware scan settings  
Configuring actions for malware and security risk detections  
About excluding items from scans  
Excluding items from scans  
Managing quarantined files on your computer  
   About quarantining files  
   Restoring a quarantined file  
   Quarantining a file manually  
   Rescanning files manually in the Quarantine  
   Exporting the Quarantine information  
Manually submitting a potentially infected file to Symantec Security Response for analysis  
Deleting files manually from the Quarantine  
Automatically deleting files from the Quarantine  
Enabling or disabling early launch anti-malware (ELAM)  
How to manage the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers  
About submitting information about detections to Symantec Security Response  
Submitting information about detections to Symantec Security Response  
About the client and the Windows Security Center  
About SONAR  
Managing SONAR on your computer  
Changing SONAR settings
Chapter 4  Managing the firewall and intrusion prevention .......................................................... 86
Managing firewall protection ......................................................................................... 86
How a firewall works .................................................................................................. 88
Managing firewall rules .............................................................................................. 89
The elements of a firewall rule .................................................................................. 90
About the firewall rule, firewall setting, and intrusion prevention processing order ................................................................. 92
How the firewall uses stateful inspection ................................................................ 93
Adding or changing a firewall rule .......................................................................... 93
Changing the order of firewall rules ......................................................................... 94
Enabling or disabling firewall rules ......................................................................... 95
Exporting or importing firewall rules ....................................................................... 95
Enabling or disabling firewall settings ..................................................................... 96
Enabling network file and printer sharing .............................................................. 98
Allowing or blocking running applications from accessing the network ...................... 100
Configuring an existing application-based firewall rule ............................................ 101
Configuring the client to block traffic when the screensaver is active or the firewall does not run ................................................................. 102
Managing intrusion prevention ............................................................................... 103
How intrusion prevention works ............................................................................ 104
Enabling or disabling intrusion prevention ............................................................ 105
Configuring intrusion prevention notifications ...................................................... 106

Chapter 5  Managing and troubleshooting the client ......................................................... 107
Modifying protection on your computer ................................................................. 107
Manually updating policies on the client .................................................................. 109
Hiding and displaying the notification area icon ...................................................... 110
Troubleshooting computer issues with the Symantec Help support tool ................................................................. 110
About the logs ........................................................................................................... 111
Viewing the logs ....................................................................................................... 112
Enabling the packet log ......................................................................................... 113
About enabling and disabling protection when you need to troubleshoot problems ........................................................................................................ 113
Enabling or disabling protection on the client computer ......................................... 115
Enabling or disabling Auto-Protect ....................................................................... 116
Enabling, disabling, or configuring Tamper Protection ........................................... 118
Getting started on the Symantec Endpoint Protection client

This chapter includes the following topics:

- About the Symantec Endpoint Protection client
- How do I protect my computer?
- How to determine whether the client computer is connected and protected
- Scanning your computer immediately
- Running a Host Integrity check
- Updating the client content using LiveUpdate
- About managed clients and unmanaged clients
- Checking whether the client is managed or unmanaged

About the Symantec Endpoint Protection client

The Symantec Endpoint Protection client combines several layers of protection to proactively secure your computer against known and unknown threats and network attacks.

Table 1-1 describes each layer of protection.
### Table 1-1  Types of protection

<table>
<thead>
<tr>
<th>Layer</th>
<th>Description</th>
</tr>
</thead>
</table>
| Virus and Spyware Protection | Virus and Spyware Protection combats a wide range of threats, including spyware, worms, Trojan horses, rootkits, and adware. File System Auto-Protect continuously inspects all computer files for viruses and security risks. Internet Email Auto-Protect scans the incoming and outgoing email messages that use the POP3 or SMTP communications protocol. Microsoft Outlook Auto-Protect scans incoming and outgoing Outlook email messages.  
  See “Managing scans on your computer” on page 39. |
| Proactive Threat Protection  | Proactive threat technology includes SONAR, which offers real-time protection against zero-day attacks. SONAR can stop attacks even before traditional signature-based definitions detect a threat. SONAR uses heuristics as well as file reputation data to make decisions about applications or files.  
  See “Managing SONAR on your computer” on page 83. |
| Network Threat Protection    | Network Threat Protection includes a firewall and an intrusion prevention system. The rules-based firewall prevents unauthorized users from accessing your computer. The intrusion prevention system automatically detects and blocks network attacks.  
  See “Managing firewall protection” on page 86. |

Your administrator manages the types of protection that the management server downloads to your client computer. The client also downloads virus definitions, IPS definitions, and product updates to your computer. If you travel with a portable computer, you can get virus definitions and product updates directly from LiveUpdate.  

See “Updating the client content using LiveUpdate” on page 22.

### How do I protect my computer?

The default settings in the Symantec Endpoint Protection client protect your computer from many types of security threats. Either the client automatically handles the threat, or lets you choose how to handle the threat.  

You can check whether your computer is infected, and perform some additional tasks if you want increased security or better performance.

**Note:** On managed clients, some options do not appear if your administrator has configured them to be unavailable. On unmanaged clients, most options appear.
### Table 1-2: Frequently asked questions on how to protect your computer

<table>
<thead>
<tr>
<th>Question</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>How do I know that my computer is protected?</td>
<td>The Symantec Endpoint Protection client displays the protection status of your computer. Your computer is best protected with all protections installed and updated. See &quot;How to determine whether the client computer is protected using the Status page icons&quot; on page 17. See &quot;How to determine whether the client computer is connected and protected&quot; on page 16.</td>
</tr>
</tbody>
</table>
| How can I tell if my computer is infected?                              | If your computer is infected, you might see any of the following types of messages:  
  - An Auto-Protect scan detection or manual scan detection. These messages describe the threat and the action that was taken on the threat. You can choose one of several options to handle the threat. See “Responding to a virus or a risk detection” on page 30. 
  - A Download Insight detection. These messages describe the malicious and the unproven files that Download Insight detects when you try to download them. See "Responding to Download Insight messages that ask you to allow or block a file that you try to download" on page 32.  
  - A Download Insight detection. These messages describe the malicious and the unproven files that Download Insight detects when you try to download them. See "Responding to Download Insight messages that ask you to allow or block a file that you try to download" on page 32.  
See “Types of alerts and notifications” on page 27. |
| How do I clean my computer if it is infected?                           | If you see a scan window, your administrator has already set the action that your computer takes on the infection. You may be able to choose an action. If you know that a file is infected, click **Clean** or **Quarantine**.  
For scheduled scans and Auto-Protect, make sure that the main action is set to **Clean risk** and the secondary action to **Quarantine risk** or **Delete**.  
See “Responding to a virus or a risk detection” on page 30. See “How virus and spyware scans work” on page 44. See “Configuring actions for malware and security risk detections” on page 64. |
Frequently asked questions on how to protect your computer

Table 1-2

<table>
<thead>
<tr>
<th>Question</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>How do I increase the security of my computer?</td>
<td>By default, a managed client computer is protected with the maximum amount of protection. Your administrator may have modified some settings to improve the client's performance.</td>
</tr>
<tr>
<td></td>
<td>If your administrator has enabled you to modify your own computer's protection settings, you can perform the following tasks:</td>
</tr>
<tr>
<td></td>
<td>■ Schedule regular full scans, typically once a day or once a week.</td>
</tr>
<tr>
<td></td>
<td>See “Scheduling a user-defined scan” on page 54.</td>
</tr>
<tr>
<td></td>
<td>■ Keep virus and spyware scans, Auto-Protect, SONAR, intrusion prevention, and Insight installed, enabled, and up-to-date at all times.</td>
</tr>
<tr>
<td></td>
<td>See “About enabling and disabling protection when you need to troubleshoot problems” on page 113.</td>
</tr>
<tr>
<td></td>
<td>See “Enabling or disabling protection on the client computer” on page 115.</td>
</tr>
<tr>
<td></td>
<td>See “Enabling or disabling Auto-Protect” on page 116.</td>
</tr>
<tr>
<td></td>
<td>On an unmanaged client, you can perform the following tasks:</td>
</tr>
<tr>
<td></td>
<td>■ Download and install the correct virus definitions and security content by using LiveUpdate.</td>
</tr>
<tr>
<td></td>
<td>Security Response releases virus definitions multiple times a day, and releases other security content regularly or as needed. By default, Symantec Endpoint Protection clients are scheduled to run LiveUpdate every four hours. You can also launch LiveUpdate at any time.</td>
</tr>
<tr>
<td></td>
<td>See “Updating the client content using LiveUpdate” on page 22.</td>
</tr>
<tr>
<td></td>
<td>■ Run a full scan of your computer with all scan enhancements enabled.</td>
</tr>
<tr>
<td></td>
<td>By default, a full scan runs on your computer weekly. However, you can run a scan at any time.</td>
</tr>
<tr>
<td></td>
<td>See “Scheduling a user-defined scan” on page 54.</td>
</tr>
<tr>
<td></td>
<td>See “Scanning your computer immediately” on page 18.</td>
</tr>
</tbody>
</table>
Table 1-2  Frequently asked questions on how to protect your computer  
(continued)

<table>
<thead>
<tr>
<th>Question</th>
<th>Description</th>
</tr>
</thead>
</table>
| How do I modify my scan settings if the scan slows down my work?         | If scans slow down your computer, adjust the following settings:  
  ■ Create a scheduled full scan for after hours or when you are not on the computer.  
  See “Scheduling a user-defined scan” on page 54.  
  ■ Exclude the applications and files that you know are safe.  
  See “Excluding items from scans” on page 68.  
  ■ Turn off the scan of compressed files, or reduce the number of levels to expand compressed files within compressed files.  
  See “Customizing virus and spyware scan settings” on page 62.  
  ■ Disable the scan enhancement options for user-defined scans.  
  See “Scheduling a user-defined scan” on page 54.  
  ■ Disable Download Insight and Insight Lookup.  
  See “Customizing Download Insight settings” on page 61.  
  See “Submitting information about detections to Symantec Security Response” on page 80.  
  **Note:** You may not be able to change these settings if your administrator has locked them. |
| What do I do if the firewall blocks my ability to browse the Internet?    | By default, the firewall does not block access to the Internet. If you cannot access the Internet, contact your administrator. Your administrator may have blocked access to certain websites or may not allow your computer to access a certain browser. You may or may not have the rights to modify the firewall rules.  
  On an unmanaged client, you can modify the firewall rules. However, you should not change or add a firewall rule until you understand whether or not the traffic that the firewall rule blocks is malicious.  
  Before you modify the firewall rule, ask the following questions:  
  ■ Is the web application that accesses the Internet legitimate?  
  ■ Are the remote ports that the web application accesses correct? HTTP traffic is legitimate traffic for web applications, and HTTP traffic uses port TCP 80 and 443. You may not be able to trust traffic from other ports.  
  ■ Is the IP address for the website that the application accesses correct or legitimate?  
  See “Adding or changing a firewall rule” on page 93. |
Table 1-2  Frequently asked questions on how to protect your computer (continued)

<table>
<thead>
<tr>
<th>Question</th>
<th>Description</th>
</tr>
</thead>
</table>
| What actions do I take when I get a message in the notification area? | Read the message in the notification area on the toolbar.  
   The notifications tell you one of the following things:  
   ■ Your computer might have been attacked and the client handled the threat.  
     See “Responding to a virus or a risk detection” on page 30.  
     See “Responding to messages that ask you to allow or block an application” on page 34.  
   ■ Your computer automatically received a new security policy.  
   You can also go to one of the logs for more information, depending on the type of threat.  
   See “Viewing the logs” on page 112. |

See “Checking whether the client is managed or unmanaged” on page 26.  
See “Modifying protection on your computer” on page 107.

How to determine whether the client computer is connected and protected

You can check the notification area icon on the client to determine whether the client is connected to a management server and adequately protected. The notification area icon is sometimes referred to as the system tray.

The icon is located in the lower-right hand corner of the client computer desktop. You can also right-click this icon to display frequently used commands.

**Note:** On managed clients, the notification area icon does not appear if your administrator has configured it to be unavailable.

Table 1-3  Client status icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
</table>
| 🍀   | The client runs with no problems. It is either offline or unmanaged. Unmanaged clients are not connected to a management server.  
   The Symantec Network Access Control-only client runs with no problems and has both passed the Host Integrity check and updated the security policy. It is either offline or unmanaged. |
How to determine whether the client computer is connected and protected

When you open the Symantec Endpoint Protection client, the top of the Status page displays various alert icons to indicate the protection status of the computer. If there is further action you must take, the text that appears with the icons provides more information.

### Table 1-4 Status page alert icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Checkmark]</td>
<td>Shows that each protection is enabled.</td>
</tr>
</tbody>
</table>

See “Hiding and displaying the notification area icon” on page 110.
### Table 1-4 Status page alert icons (continued)

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
</table>
| 🚨 | Warns you that virus definitions or security content on the client computer is out of date. To receive the most current virus definitions or security content, you can run LiveUpdate immediately, if your administrator lets you. This status may also indicate Symantec Endpoint Protection requires a restart. A Symantec Endpoint Protection client computer with an active Host Integrity policy or a Symantec Network Access Control client computer may also have the following issues:  
  - The client computer failed the Host Integrity security compliance check. To find out what you need to do to pass the check, check the Client Management Security log.  
  - The client computer failed to download Host Integrity content. See “Updating the client content using LiveUpdate” on page 22. |
| ✖ | Shows that one or more protections are disabled or that the client has an expired license. To enable a protection, click Fix or Fix All. See “About enabling and disabling protection when you need to troubleshoot problems” on page 113. See “Enabling or disabling protection on the client computer” on page 115. |

### Scanning your computer immediately

You can manually scan for viruses and security risks at any time. You should scan your computer immediately if you recently installed the client, or if you think you have recently received a virus or security risk.

Select anything to scan from a single file to a USB drive to your entire computer. On-demand scans include the Active Scan and Full Scan. You can also create a custom scan to run on demand.

See “Scheduling a scan to run on demand or when the computer starts up” on page 57.

See “Updating the client content using LiveUpdate” on page 22.

You can scan your computer immediately in one of the following ways:

- To scan your computer immediately from the Scan for Threats page
- To scan your computer immediately from the Status page
- To scan your computer immediately from Windows
To scan your computer immediately from the Scan for Threats page

◆ In the client, in the sidebar, click **Scan for threats**.
  
  ■ Click **Run Active Scan** to scan the most commonly infected areas.
  
  ■ Click **Run Full Scan** to scan the entire computer.
  
  ■ Click **Run Host Integrity Scan** to check for compliance with security policies.

  **Note:** **Run Host Integrity Scan** appears only if the client has a Host Integrity policy enabled.

  ■ In the scan list, right-click any scan, and then click **Scan Now**.

  The scan starts immediately.

  You can view the scan progress unless your administrator disables the option. To view scan progress, click the message link that appears for the current scan: **scan in progress**.

  For more information on the options on each dialog box, click **Help**.

  You can also pause or cancel the scan.

To scan your computer immediately from the Status page

◆ In the client, on the **Status** page next to **Virus and Spyware Protection**, click **Options > Run Active Scan**.

To scan your computer immediately from Windows

◆ In the My Computer window or the Windows Explorer window, right-click a file, folder, or drive, and then click **Scan For Viruses**.

  This feature is supported on both 32-bit and 64-bit operating systems.

  **Note:** When you perform this type of scan on a folder or a drive, the Insight Lookup reputation scan does not scan their contents. However, Insight Lookup does scan a single file or group of files. The virus and spyware scan is not affected.

See “About scan results” on page 29.

See “Pausing and delaying scans” on page 20.
Pausing and delaying scans

The pause feature lets you stop a scan at any point during the scan and resume it at another time. You can pause any scan that you initiate.

Your administrator determines whether you can pause an administrator-initiated scan. If the Pause Scan option is not available, your administrator disabled the pause feature. If your administrator has enabled the Snooze feature, you can delay an administrator-scheduled scan for a set interval of time.

When a scan resumes, it starts from where the scan stopped.

---

**Note:** If you pause a scan while the client scans a compressed file, the client might take several minutes to respond to the pause request.

See “Managing scans on your computer” on page 39.

To pause a scan you initiated

1. When the scan runs, in the scan dialog box, click **Pause Scan**.
   - The scan stops where it is and the scan dialog box remains open until you start the scan again.

2. In the scan dialog box, click **Resume Scan** to continue the scan.

To pause or delay an administrator-initiated scan

1. When an administrator-initiated scan runs, in the scan dialog box, click **Pause Scan**.

2. In the **Scheduled Scan Pause** dialog box, do one of the following actions:
   - To pause the scan temporarily, click **Pause**.
   - To delay the scan, click **Snooze 1 hour** or **Snooze 3 hours**.
     - Your administrator specifies the period of time that you are allowed to delay the scan. When the pause reaches the limit, the scan restarts from where it began. Your administrator specifies the number of times that you can delay the scheduled scan before this feature is disabled.
   - To continue the scan without pausing, click **Continue**.

Running a Host Integrity check

A Host Integrity check verifies that your computer meets certain security requirements before it connects to the network. For example, the Host Integrity check may verify whether the operating system has the latest security patch. If your computer does not meet a security requirement, the client may remediate your
computer to make sure that it passes the Host Integrity check. To remediate, the check automatically downloads and installs the necessary software. Your administrator may send a message to have you remediate your computer.

The Host Integrity check runs when you start your computer and continues until the network connection ends. You can also run a Host Integrity check manually.

Your administrator may have also configured the Host Integrity check to pass even if a specific requirement fails. You can view the results of the Host Integrity checks in the client's Security log.

To run a Host Integrity check

1. In the client, in the sidebar, click **Scan for Threats**.
2. In the **Scan for threats** dialog box, click **Run Host Integrity Scan**.
3. Click **OK**.

If a compliance failure prevents access to the network, you should regain access when you update your computer to meet compliance requirements.

The scan results appear in the Security log.

See “Viewing the logs” on page 112.

Remediating your computer to pass the Host Integrity check

If the client does not meet a Host Integrity policy requirement, it responds in one of the following ways:

- The client downloads the software update automatically.
- The client prompts you to download the required software update.

To remediate your computer

- In the Symantec Endpoint Protection dialog box that appears, do one of the following actions:
  - To see which security requirements your computer failed, click **Details**.
  - To immediately install the software, click **Restore Now**.
    You may or may not have the option to cancel the installation after it has started.
  - To postpone the software install, click **Remind me later in** and select a time interval in the drop-down list.
    The administrator can configure the maximum number of times you can postpone the installation.

See “Running a Host Integrity check” on page 20.
Updating the client content using LiveUpdate

Symantec products depend on current information to protect your computer from newly discovered threats. Symantec makes this information available through LiveUpdate.

Content updates are the files that keep your Symantec products current with the latest threat protection technology. The content updates that you receive depend on which protections are installed on your computer. For example, LiveUpdate downloads virus definition files for Virus and Spyware Protection and IPS definition files for Network Threat Protection.

LiveUpdate can also provide improvements to the installed client on an as-needed basis. These improvements are usually created to extend the operating system or hardware compatibility, adjust performance issues, or fix product errors. These updates can come through the management server for managed clients if it is configured to do so.

LiveUpdate retrieves the new content files from a Symantec Internet site, and then replaces the old content files. A managed client computer most commonly receives content updates from its management server. A managed or an unmanaged client computer can receive this content directly from a LiveUpdate server. How your computer receives the updates depends on whether your computer is managed or unmanaged, and on how your administrator has configured updates.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update the content on a schedule</td>
<td>By default, LiveUpdate runs automatically at scheduled intervals. You can also modify the schedule so that LiveUpdate runs automatically at scheduled intervals. You may want to schedule LiveUpdate to run during a time that you do not use your computer. On managed clients, you can only configure LiveUpdate to run on a schedule or modify the existing schedule if enabled by the administrator. If the padlock icon appears and the options are grayed out, you cannot update your content on a schedule, or modify the existing schedule. On an unmanaged client, you can disable or change a LiveUpdate schedule. See “To update the content on a schedule with LiveUpdate” on page 23.</td>
</tr>
</tbody>
</table>
**Table 1-5** Ways to update content on your computer (continued)

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update the content immediately</td>
<td>Based on your security settings, you can run LiveUpdate immediately. You should run LiveUpdate manually for the following reasons:</td>
</tr>
<tr>
<td></td>
<td>■ The client software was installed recently.</td>
</tr>
<tr>
<td></td>
<td>■ It has been a long time since the last scan.</td>
</tr>
<tr>
<td></td>
<td>■ You suspect you have a virus or other malware problem.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Managed clients can run LiveUpdate manually only if the administrator configured the settings to allow it.</td>
</tr>
<tr>
<td></td>
<td>See “To update the content immediately with LiveUpdate” on page 24.</td>
</tr>
</tbody>
</table>

**To update the content on a schedule with LiveUpdate**

1. In the client, in the sidebar, click **Change settings**.
2. Beside **Client Management**, click **Configure Settings**.
3. In the **Client Management Settings** dialog box, click **LiveUpdate**.
4. On the **LiveUpdate** tab, check **Enable automatic updates**.
5. In the **Frequency and Time** group box, select whether you want the updates to run daily, weekly, or monthly. Then select the day or week and time of day you want the updates to run.
   - The time settings depend on what you select from the **Frequency** group box.
   - The availability of the other options also depends on the frequency that you select.
6. In the **Retry Window** group box, check **Keep trying for**, and then specify the time interval during which the client tries to run LiveUpdate again.
7. In the **Randomization Options** group box, check **Randomize the start time to be + or - (in hours)**, and then specify the number of hours or days.
   - This option sets a range of time before or after the scheduled time for the update to start.
8. In the **Idle Detection** group box, check **Delay scheduled LiveUpdates until the system is idle. Overdue sessions will eventually run unconditionally**.
9. In the **Proxy Options** group box, click **Configure Proxy Options** to configure options for the proxy server connection to an internal LiveUpdate server. In the **LiveUpdate Proxy Server Settings** dialog box, click **Help** for information about the options.
10. Click **OK**.
To update the content immediately with LiveUpdate

- In the client, in the sidebar, click LiveUpdate.

LiveUpdate connects to the Symantec server, checks for available updates, then downloads and installs them automatically.

About managed clients and unmanaged clients

Your administrator can install the client as either a managed client (administrator-managed installation) or an unmanaged client (standalone installation).

Table 1-6 Differences between a managed client and an unmanaged client

<table>
<thead>
<tr>
<th>Client type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Managed client</td>
<td>A managed client communicates with a management server in your network. The administrator configures the protection and the default settings. The management server notifies the client, and the client downloads the settings. Depending on the management server's communication settings, if the administrator makes a change to the protection, the client downloads the change almost immediately. Administrators can change the level at which you interact with the client in the following ways:</td>
</tr>
<tr>
<td></td>
<td>- The administrator manages the client completely. You are not required to configure the client. All the settings are locked or unavailable, but you can view information about what the client does on your computer.</td>
</tr>
<tr>
<td></td>
<td>- The administrator manages the client, but you can change some client settings and perform some tasks. For example, you may be able to run your own scans and manually retrieve client updates and protection updates.</td>
</tr>
<tr>
<td></td>
<td>- The administrator manages the client, but you can change all the client settings and perform all the protection tasks.</td>
</tr>
<tr>
<td></td>
<td>The availability of the client settings, as well as the values of the settings themselves, can change periodically. For example, a setting might change when your administrator updates the policy that controls your client's protection.</td>
</tr>
</tbody>
</table>
An unmanaged client does not communicate with a management server and an administrator does not manage the client.

An unmanaged client can be one of the following types:

- A standalone computer that is not connected to a network, such as a home computer or a laptop. The computer includes a Symantec Endpoint Protection client installation that uses either the default option settings or administrator-preset settings.
- A remote computer that connects to the corporate network, which must meet security requirements before it connects. However, Host Integrity is not supported on an unmanaged client.

The client has default settings when it is first installed. After the client is installed, you can change all the client settings and perform all the protection tasks.

Table 1-7 describes the differences in the user interface between a managed and unmanaged client.

Table 1-7 Differences between a managed client and an unmanaged client by feature area

<table>
<thead>
<tr>
<th>Feature area</th>
<th>Centrally managed client</th>
<th>Self-managed client</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virus and Spyware Protection</td>
<td>The client displays a locked padlock option and the option appears dimmed for the options you cannot configure.</td>
<td>The client does not display either a locked padlock or an unlocked padlock.</td>
</tr>
<tr>
<td>Proactive Threat Protection</td>
<td>The client displays a locked padlock option and the option appears dimmed for the options you cannot configure.</td>
<td>The client does not display either a locked padlock or an unlocked padlock.</td>
</tr>
<tr>
<td>Client management and Network Threat Protection settings</td>
<td>The settings that the administrator controls do not appear.</td>
<td>All the settings appear.</td>
</tr>
</tbody>
</table>

See “Checking whether the client is managed or unmanaged” on page 26.
Checking whether the client is managed or unmanaged

To check how much control you have to configure protection on your client, you first check whether your client is managed or unmanaged. You can configure more settings on an unmanaged client than on a managed client.

See “About managed clients and unmanaged clients” on page 24.

To check whether the client is managed or unmanaged

1. On the Status page, click Help > Troubleshooting.
2. In the Troubleshooting dialog box, click Management.
3. In the Management panel, under General Information, next to Server, look for the following information:
   • If the client is managed, the Server field displays either the management server’s address or the text Offline. The address can be an IP address, DNS name, or NetBIOS name. For example, a DNS name might be SEPMServer1. If the client is managed but not currently connected to a management server, this field is Offline.
   • If the client is unmanaged, the Server field displays Self-managed.
4. Click Close.
Responding to alerts and notifications

This chapter includes the following topics:

- Types of alerts and notifications
- About scan results
- Responding to a virus or a risk detection
- Responding to Download Insight messages that ask you to allow or block a file that you try to download
- Responding to the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers
- Responding to messages that ask you to allow or block an application
- Responding to expired license messages
- Responding to messages to update the client software
- Responding to messages to remediate your computer after it fails a Host Integrity check

**Types of alerts and notifications**

The client works in the background to keep your computer safe from malicious activity. Sometimes the client needs to notify you about an activity or to prompt you for feedback.

*Table 2-1* displays the types of messages you might see and need to respond to.
<table>
<thead>
<tr>
<th>Alert</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scan dialog box</td>
<td>If a scan detects a virus or a security risk, the scan results or Symantec Endpoint Protection Detection Results dialog box appears with details about the infection. The dialog box also displays the action that the scan performs on the risk. You usually do not need to take any further actions other than to review the activity and to close the dialog box. You can take action if necessary, however. If the scan is still in progress, the dialog box may display a name such as Scan name started on Date Time. If the scan is complete, the dialog box may display a name such as Symantec Endpoint Protection Detection Results. See “About scan results” on page 29.</td>
</tr>
<tr>
<td>Other message dialog boxes</td>
<td>You may see pop-up messages for the following reasons:</td>
</tr>
<tr>
<td></td>
<td>■ The client automatically updates the client software. See “Responding to messages to update the client software” on page 36.</td>
</tr>
<tr>
<td></td>
<td>■ The client asks you to allow or block an application. See “Responding to messages that ask you to allow or block an application” on page 34.</td>
</tr>
<tr>
<td></td>
<td>■ The client's trial license has expired. See “Responding to expired license messages” on page 35.</td>
</tr>
</tbody>
</table>
## Table 2-1  Types of alerts and notifications (continued)

<table>
<thead>
<tr>
<th>Alert</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notification area icon messages</td>
<td>Notifications that appear in the notification area icon occur in the following situations:</td>
</tr>
<tr>
<td></td>
<td>■ The client blocks an application.</td>
</tr>
<tr>
<td></td>
<td>For example, you might see the following message:</td>
</tr>
<tr>
<td></td>
<td>Traffic has been blocked from this application:</td>
</tr>
<tr>
<td></td>
<td>Application name</td>
</tr>
<tr>
<td></td>
<td>If the client is configured to block all traffic, these notifications appear frequently and generally require no action on your part. If your client is configured to allow all traffic, these notifications do not appear.</td>
</tr>
<tr>
<td></td>
<td>See “Responding to messages that ask you to allow or block an application” on page 34.</td>
</tr>
<tr>
<td></td>
<td>■ The client detects a network attack against your computer.</td>
</tr>
<tr>
<td></td>
<td>For example, you might see the following message:</td>
</tr>
<tr>
<td></td>
<td>Traffic from IP address 192.168.0.3 is blocked from 2/14/2010 15:37:58 to 2/14/2010 15:47:58. Port Scan attack is logged.</td>
</tr>
<tr>
<td></td>
<td>You do not need to do anything else other than read the messages.</td>
</tr>
<tr>
<td></td>
<td>■ The security compliance check failed. Traffic may be blocked from going to and from your computer.</td>
</tr>
<tr>
<td></td>
<td>For example, you might see the following message:</td>
</tr>
<tr>
<td></td>
<td>Security compliance scan failed.</td>
</tr>
<tr>
<td></td>
<td>See “Responding to messages to remediate your computer after it fails a Host Integrity check” on page 37.</td>
</tr>
<tr>
<td></td>
<td>See “How to determine whether the client computer is connected and protected” on page 16.</td>
</tr>
</tbody>
</table>

## About scan results

For managed clients, your administrator typically configures a full scan to run at least one time each week. For unmanaged clients, an automatically generated Active Scan runs when you turn on your computer. By default, Auto-Protect runs continuously on your computer.

When a scan runs, a scan dialog box appears to report progress and to show the results of the scan. When the scan is completed, the results appear in the list. If the client detects no viruses or security risks, the list remains empty and the status is completed.
If the client detects risks during the scan, the scan results dialog box shows results with the following information:

- The names of the viruses or security risks
- The names of the infected files
- The actions that the client performs on the risks

If the client detects a virus or security risk, you might need to act on an infected file.

**Note:** For managed clients, your administrator might choose to hide the scan results dialog box. If the client is unmanaged, you can display or hide this dialog box.

If you or your administrator configures the client software to display a scan results dialog box, you can pause, restart, or stop the scan.

See “About managed clients and unmanaged clients” on page 24.

See “Responding to a virus or a risk detection” on page 30.

See “Pausing and delaying scans” on page 20.

---

**Responding to a virus or a risk detection**

When an administrator-defined scan, a user-defined scan, or Auto-Protect runs, you might see a scan results dialog box. You can use the scan results dialog box to act on the affected file immediately. For example, you might decide to delete a cleaned file because you want to replace it with an original file.

If Symantec Endpoint Protection needs to terminate a process or application or stop a service, the **Remove Risks Now** option is active. You might not be able to close the dialog box if risks in the dialog require you to take action.

You might need to take action on a risk but choose not to take action right now. You can use the Quarantine or the Risk Log or Scan Log to act on the file later in the following ways:

- You can open the risk log, right-click the risk, and then take an action.
- You can run a scan to detect the risk and reopen the results dialog box.

You can also take action by right-clicking a risk in the dialog box and by selecting an action. The actions that you can take depend on the previously configured actions for the particular type of risk that the scan detected.
To respond to a virus or risk detection in the scan results dialog box

1 In the scan results dialog box, select the files on which you want to act.
2 Right-click the selection, and then select one of the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean</td>
<td>Removes the virus from the file. This option is only available for viruses.</td>
</tr>
<tr>
<td>Exclude</td>
<td>Excludes the file from being scanned again.</td>
</tr>
<tr>
<td>Delete Permanently</td>
<td>Deletes the infected file and tries to remove or repair any side effects of the infection. For security risks, use this action with caution. In some cases, if you delete security risks you might cause an application to lose functionality.</td>
</tr>
<tr>
<td>Undo Action Taken</td>
<td>Reverses the action taken.</td>
</tr>
<tr>
<td>Move To Quarantine</td>
<td>Places the infected files in the Quarantine. For security risks, the client also tries to remove or repair the side effects of the infection. In some cases, if the client quarantines a security risk, it might cause an application to lose functionality.</td>
</tr>
<tr>
<td>Properties</td>
<td>Displays the information about the virus or security risk.</td>
</tr>
</tbody>
</table>

In some cases, the action might not be available.

3 In the dialog box, click Close.

You might not be able to close the dialog box if the risks that are listed require you to take action. For example, the client may need to terminate a process or an application, or it may need to stop a service.

If you need to take action, one of the following notifications appear:

- **Remove Risk Required**
  Appears when a risk requires process termination. If you choose to remove the risk, you return to the results dialog box. If a restart is also required, the information in the risk's row in the dialog box indicates that a restart is required.

- **Restart Required**
  Appears when a risk requires a restart.

  If a restart is required, the removal or repair is not complete until you restart the computer.

- **Remove Risk and Restart Required**
Responding to Download Insight messages that ask you to allow or block a file that you try to download

Download Insight notifications display information about the malicious files and the unproven files that Download Insight detects when you try to download them.

Note: Regardless of whether or not notifications are enabled, you receive detection messages when the action for unproven files is Prompt.

You or your administrator can change how sensitive Download Insight is to malicious files. Changing the sensitivity level might change the number of notifications that you receive.

Download Insight uses Symantec's Insight technology, which evaluates and determines a file rating that is based on its global community of millions of users.

The Download Insight notification shows the following information about the detected file:

- File reputation
  The file reputation indicates the trustworthiness of a file. Malicious files are not trustworthy. Unproven files may or may not be trustworthy.

- How common the file is in the community
The prevalence of a file is important. Files that are not common might be more likely to be threats.

- How new the file is
  The newer a file is, the less information Symantec has about the file.

The information can help you to decide whether to allow or block the file.

To respond to a Download Insight detection that asks you to allow or block a file that you try to download

- In the Download Insight detection message, do one of the following actions:
  - Click **Remove this file from my computer**.
    Download Insight moves the file to the Quarantine. This option only appears for unproven files.
  - Click **Allow this file**.
    You might see a permission dialog that asks whether or not you are sure that you want to allow the file.
    If you choose to allow an unproven file that was not quarantined, the file runs automatically. If you choose to allow a quarantined file, the file does not automatically run. You can run the file from your temporary Internet folder.
    Typically the folder location is: `\Documents and Settings\username\Local Settings\Temporary Internet Files`
    On unmanaged clients, if you allow a file, the client automatically creates an exception for the file on this computer. On managed clients, if your administrator lets you create exceptions, the client automatically creates an exception for the file on this computer.

See “Managing Download Insight detections on your computer” on page 58.

See “How Symantec Endpoint Protection uses reputation data to make decisions about files” on page 53.

See “Managing scans on your computer” on page 39.

Responding to the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers

On Windows 8 client computers, pop-up notifications for malware detections and other critical events appear on the Windows 8 style user interface and the Windows 8 desktop. The notifications alert you to an event that occurred in either the Windows 8 style user interface or the Windows 8 desktop, regardless of which interface you
are currently viewing. You can see details about the event that produced the notification in a message on the Windows desktop.

On managed clients, your administrator might turn off pop-up notifications.

To respond to the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers

1  In the pop-up notification that appears at the top of the screen, do one of the following tasks:
   ■  In the Windows 8 style user interface, click the notification.
       The desktop appears.
   ■  On the desktop, click the notification.
       The notification disappears.

2  Review the detection results or other informational message that appears in the desktop.

   For the virus and spyware detections that do not affect Windows 8 style apps, you might need or want to perform an additional remediation action. For the detections that affect Windows 8 style apps, the only additional action that you can perform is **Exclude**.

   When you return to the Windows 8 style user interface, you might see an icon on an affected app that indicates that you must re-download the app.

See “How to manage the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers” on page 78.

See “Responding to a virus or a risk detection” on page 30.

**Responding to messages that ask you to allow or block an application**

When an application on your computer tries to access the network, the client might ask you to allow or block the application. You can choose to block an application that you think is unsafe from accessing the network.

This type of notification appears for one of the following reasons:

■  The application asks to access your network connection.

■  An application that has accessed your network connection has been upgraded.

■  Your administrator updated the client software.

You might see the following type of message, which tells you when an application tries to access your computer:
IEXPLORE.EXE is attempting to access the network.
Do you want to allow this program to access the network?

To respond to a message that asks you to allow or block an application

1. Optionally, to suppress the message the next time the application tries to access the network, in the dialog box, click Remember my answer, and do not ask me again for this application.

2. Do one of the following actions:
   - To allow the application to access the network, click Yes.
   - To block the application from accessing the network, click No.

On unmanaged computers and on some managed computers, you can also change the action on the application through the Status page. Next to Network Threat Protection, click Options, and then click View Network Activity, or click View Application Settings.

See “Configuring an existing application-based firewall rule” on page 101.

Responding to expired license messages

The client uses a license to update the virus definitions for scans and to update the client software. The client may use a trial license or a paid license. If the trial license has expired, the client does not update any content.

<table>
<thead>
<tr>
<th>License type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trial license</td>
<td>If a trial license has expired, the top of the client's Status pane is red and displays the following message:</td>
</tr>
<tr>
<td></td>
<td>Trial License has expired. Click Details for more information.</td>
</tr>
<tr>
<td></td>
<td>When you click Details, the message indicates content downloads discontinue on a specific date, and to contact your administrator to purchase a paid license. The Status pane may also display some text that indicates the content is outdated.</td>
</tr>
<tr>
<td></td>
<td>You can also view the license expiration date through the client interface.</td>
</tr>
<tr>
<td></td>
<td>Click Help &gt; About.</td>
</tr>
</tbody>
</table>
Responding to alerts and notifications

Responding to messages to update the client software

If there is a client software update available for you to download, you may see the following notification:

Symantec Endpoint Protection has detected that a newer version of the software is available from the Symantec Endpoint Protection Manager. Do you wish to download it now?

The client software update may also install silently in the background. When the installation completes, you may see a message to notify you that you must restart the computer.

To respond to an update notification

1. Do one of the following actions:
   - To download the software immediately, click Download Now.
   - To be reminded after the specified time, click Remind me later.

2. If a message appears after the installation process begins for the updated software, click OK.

3. If a message appears to notify you that an upgrade completed, follow the on-screen instructions to restart. The installation completes once you restart the computer.
Responding to messages to remediate your computer after it fails a Host Integrity check

If the client finds that a Host Integrity policy requirement is not met, it responds in one of the following ways:

- The client downloads the software update automatically.
- The client prompts you to download the required software update.

If the client does not install the required software, you may not be able to access the network.

To respond to messages to remediate your computer after it fails a Host Integrity check

- In the Symantec Endpoint Protection dialog box that appears, do one of the following actions:
  - To see which security requirements your computer failed, click Details.
  - To immediately install the software, click Restore Now.
    You may or may not have the option to cancel the installation after it has started.
  - To postpone the software install, click Remind me later in and select a time interval in the drop-down list.
    The administrator can configure the maximum number of times you can postpone the installation.
Managing scans

This chapter includes the following topics:

- Managing scans on your computer
- How virus and spyware scans work
- Scheduling a user-defined scan
- Scheduling a scan to run on demand or when the computer starts up
- Managing Download Insight detections on your computer
- Customizing Download Insight settings
- Customizing virus and spyware scan settings
- Configuring actions for malware and security risk detections
- About excluding items from scans
- Excluding items from scans
- Managing quarantined files on your computer
- Enabling or disabling early launch anti-malware (ELAM)
- How to manage the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers
- About submitting information about detections to Symantec Security Response
- Submitting information about detections to Symantec Security Response
- About the client and the Windows Security Center
- About SONAR
- Managing SONAR on your computer
### Changing SONAR settings

#### Managing scans on your computer

By default, the client runs an active scan every day. On a managed client, you might be able to configure your own scans, if your administrator made these settings available. An unmanaged client includes a preset active scan that is disabled, but you can manage your own scans.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read about how scans work</td>
<td>Review the types of scans and the types of viruses and security risks. See “How virus and spyware scans work” on page 44.</td>
</tr>
<tr>
<td>Update virus definitions</td>
<td>Make sure that you have the latest virus definitions installed on your computer. See “Updating the client content using LiveUpdate” on page 22.</td>
</tr>
<tr>
<td>Check that Auto-Protect is enabled</td>
<td>Auto-Protect is enabled by default. You should always keep Auto-Protect enabled. If you disable Auto-Protect, you also disable Download Insight and you prevent SONAR from making heuristic detections. See “Enabling or disabling Auto-Protect” on page 116.</td>
</tr>
</tbody>
</table>
Table 3-1 Managing scans (continued)

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scan your computer</td>
<td>Regularly scan your computer for viruses and security risks. Ensure that scans run regularly by checking the last scan date. See “Scanning your computer immediately” on page 18.</td>
</tr>
<tr>
<td></td>
<td>See “Scheduling a user-defined scan” on page 54.</td>
</tr>
<tr>
<td></td>
<td>When scans run, you might see a scan results dialog box. You can use the scan results dialog box to perform some actions on the items that scans detect. See “Responding to a virus or a risk detection” on page 30.</td>
</tr>
<tr>
<td></td>
<td>You can pause a scan that you started. On a managed client, your administrator determines whether you can pause an administrator-initiated scan. See “Pausing and delaying scans” on page 20.</td>
</tr>
<tr>
<td></td>
<td>On a managed client, the administrator might initiate a Power Eraser scan from the management console. Power Eraser is a powerful scan that detects difficult threats and sometimes requires a restart to complete. The administrator manually handles the remediation for the detections.</td>
</tr>
<tr>
<td></td>
<td>You cannot run Power Eraser directly from the client, however, Power Eraser is available as part of the SymHelp support tool. If you download the SymHelp tool and run a Power Eraser scan directly on the client, the logs are not sent to the management console. You should make sure not to run Power Eraser locally with the SymHelp tool while the administrator runs Power Eraser from the management console; otherwise, you might negatively affect your computer's performance.</td>
</tr>
</tbody>
</table>
By default, Symantec Endpoint Protection provides a high level of security while it minimizes the effect on your computer performance. You can customize settings to increase the computer performance even more.

For scheduled and on-demand scans you can change the following options:

- **Scan tuning**
  - Set the scan tuning to **Best Application Performance**.

- **Compressed files**
  - Change the number of levels to scan compressed files.

- **Resumable scans**
  - You can specify a maximum time for a scan to run. The scan resumes when the computer is idle.

- **Randomized scans**
  - You can specify that a scan randomizes its start time within a specific time interval.

You might also want to disable startup scans or change the schedule for your scheduled scans.

See “Customizing virus and spyware scan settings” on page 62.

See “Scheduling a user-defined scan” on page 54.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjust scans to improve your computer</td>
<td>By default, Symantec Endpoint Protection provides a high level of security while it minimizes the effect on your computer performance. You can customize settings to increase the computer performance even more. For scheduled and on-demand scans you can change the following options:</td>
</tr>
<tr>
<td>performance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- <strong>Scan tuning</strong></td>
</tr>
<tr>
<td></td>
<td>- Set the scan tuning to <strong>Best Application Performance</strong>.</td>
</tr>
<tr>
<td></td>
<td>- <strong>Compressed files</strong></td>
</tr>
<tr>
<td></td>
<td>- Change the number of levels to scan compressed files.</td>
</tr>
<tr>
<td></td>
<td>- <strong>Resumable scans</strong></td>
</tr>
<tr>
<td></td>
<td>- You can specify a maximum time for a scan to run. The scan resumes when the computer is idle.</td>
</tr>
<tr>
<td></td>
<td>- <strong>Randomized scans</strong></td>
</tr>
<tr>
<td></td>
<td>- You can specify that a scan randomizes its start time within a specific time interval.</td>
</tr>
<tr>
<td></td>
<td>You might also want to disable startup scans or change the schedule for your scheduled scans.</td>
</tr>
<tr>
<td></td>
<td>See “Customizing virus and spyware scan settings” on page 62.</td>
</tr>
<tr>
<td></td>
<td>See “Scheduling a user-defined scan” on page 54.</td>
</tr>
</tbody>
</table>
Table 3-1 Managing scans (continued)

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
</table>
| Adjust scans to increase protection on your computer | In most cases, the default scan settings provide adequate protection for your computer. In some cases you might want to increase the protection. If you do increase the protection, you might affect your computer performance. For scheduled and on-demand scans you can change the following options:  
  - Scan performance  
    - Set the scan tuning to **Best Scan Performance**.  
  - Scan actions  
    - Change the remediation actions that occur when a virus is detected  
  - Scan duration  
    - By default, the scheduled scans that run until the specified time interval expires and then resume when the client computer is idle. You can set the scan duration to **Scan until finished**.  
  - Insight Lookup  
    - You should make sure that Insight Lookup is enabled. Insight Lookup settings are similar to the settings for Download Insight  
  - Increase the level of Bloodhound protection.  
    - Bloodhound locates and isolates the logical regions of a file to detect virus-like behavior. You can change the detection level from **Automatic** to **Aggressive** to increase the protection on your computer. The **Aggressive** setting, however, is likely to produce more false positives.  
    - See “Customizing virus and spyware scan settings” on page 62. |
| Identify scan exceptions                  | Exclude a safe file or process from being scanned.  
    - See “Excluding items from scans” on page 68. |
| Submit information about detections to Symantec | By default, your client computer sends information about detections to Symantec Security Response. You can turn off submissions or choose which kinds of information to submit.  
    - Symantec recommends that you always enable submissions. The information helps Symantec address threats.  
    - See “Submitting information about detections to Symantec Security Response” on page 80. |
### Table 3-1  Managing scans (continued)

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manage quarantined files</td>
<td>Symantec Endpoint Protection quarantines infected files and moves them to a location where the files do not infect other files on the computer.</td>
</tr>
<tr>
<td></td>
<td>If a quarantined file cannot be repaired, you must decide what to do with the file.</td>
</tr>
<tr>
<td></td>
<td>You can also do the following actions:</td>
</tr>
<tr>
<td></td>
<td>■ Delete a quarantined file if a backup file exists or a replacement file is available from a trustworthy source.</td>
</tr>
<tr>
<td></td>
<td>■ Leave files with unknown infections in the Quarantine until Symantec releases new virus definitions.</td>
</tr>
<tr>
<td></td>
<td>■ Periodically check quarantined files to prevent accumulating large numbers of files. Check quarantined files when a new virus outbreak appears on the network.</td>
</tr>
<tr>
<td></td>
<td>See &quot;Managing quarantined files on your computer&quot; on page 71.</td>
</tr>
<tr>
<td></td>
<td>See &quot;About quarantining files&quot; on page 73.</td>
</tr>
</tbody>
</table>

### Table 3-2  Scan settings

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modify Auto-Protect settings to improve your computer performance or increase protection</td>
<td>For Auto-Protect, you might want to change the following options:</td>
</tr>
<tr>
<td></td>
<td>■ File cache</td>
</tr>
<tr>
<td></td>
<td>Make sure that the file cache is enabled (the default is enabled). When the file cache is enabled, Auto-Protect remembers the clean files that it scanned and does not rescan them.</td>
</tr>
<tr>
<td></td>
<td>■ Network settings</td>
</tr>
<tr>
<td></td>
<td>When Auto-Protect on remote computers is enabled, make sure that <strong>Only when files are executed</strong> is enabled.</td>
</tr>
<tr>
<td></td>
<td>■ You can also specify that Auto-Protect trusts files on remote computers and uses a network cache.</td>
</tr>
<tr>
<td></td>
<td>By default, Auto-Protect scans files as they are written from your computer to a remote computer. Auto-Protect also scans files when they are written from a remote computer to your computer.</td>
</tr>
<tr>
<td></td>
<td>A network cache stores a record of the files that Auto-Protect scanned from a remote computer. If you use a network cache, you prevent Auto-Protect from scanning the same file more than one time.</td>
</tr>
<tr>
<td></td>
<td>See &quot;Customizing virus and spyware scan settings&quot; on page 62.</td>
</tr>
</tbody>
</table>
Table 3-2  Scan settings (continued)

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manage ELAM detections</td>
<td>You might want to enable or disable the client early launch anti-malware (ELAM) detection if you believe that ELAM affects your computer's performance. You might also want to override the default detection setting if you get many false positive ELAM detections. See “Enabling or disabling early launch anti-malware (ELAM)” on page 77.</td>
</tr>
<tr>
<td>Manage Download Insight detections</td>
<td>Download Insight inspects the files that you try to download through web browsers and text messaging clients and other portals. Download Insight uses information from Symantec Insight, which collects information about file reputation. Download Insight uses a file’s reputation rating to allow or block a file or prompt the user to take action on the file. See “Managing Download Insight detections on your computer” on page 58.</td>
</tr>
<tr>
<td>Manage SONAR</td>
<td>You can adjust the settings for SONAR. See “Managing SONAR on your computer” on page 83.</td>
</tr>
</tbody>
</table>

How virus and spyware scans work

Virus and spyware scans identify and neutralize or eliminate viruses and security risks on your computers. A scan eliminates a virus or risk by using the following process:

- The scan engine searches within files and other components on the computer for viruses, Trojans, worms, and other threats like security risks. Each threat has a recognizable pattern that is called a signature. The client uses a definition file that contains a collection of known signature information. The scan engine compares each file or component to the definitions file. If the scan engine finds a match, the file is infected or is malicious.

- The scan engine uses the definitions files to determine what kind of threat it is. The scan engine then takes action to remediate. The scan engine may clean, delete, or quarantine the item that it detects as a threat. The scan engine may also repair any side effects that result from the threat. The action it takes depends on the type of threat it detects.

See “How scans respond to a virus or risk detection” on page 51.

Note: Symantec Endpoint Protection does not quarantine or clean any risk that is detected in Windows 8 style apps. Symantec Endpoint Protection deletes the risk instead.

Table 3-3 describes the components that the client scans on your computer.
### Table 3-3

**Computer components that the client scans**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Selected files</strong></td>
<td>The client scans individual files, based on the type of scan you select, or the type of scan that an administrator schedules. You can also scan an individual file or folder from Windows. For most types of scans, you select the files that you want scanned.</td>
</tr>
<tr>
<td><strong>Computer memory</strong></td>
<td>The client scans the computer’s memory. Any file virus, boot sector virus, or macro virus may be memory-resident. Viruses that are memory-resident have copied themselves into a computer’s memory. In memory, a virus can hide until a trigger event occurs. Then the virus can spread to the hard drive. If a virus is in memory, the scan cannot clean it. However, you can remove a virus from memory by restarting your computer when prompted.</td>
</tr>
<tr>
<td><strong>Boot sector</strong></td>
<td>The client checks the computer’s boot sector for boot viruses. Two items are checked: the partition tables and the master boot record.</td>
</tr>
<tr>
<td><strong>Removable media</strong></td>
<td>A common way for some threats to spread is through removable media, such as a USB drive. The client does not automatically scan removable media when you insert it, but you can scan it by right-clicking it from Windows.</td>
</tr>
</tbody>
</table>

See “Scanning your computer immediately” on page 18.

## About viruses and security risks

Symantec Endpoint Protection scans for both viruses and for security risks. Security risks include spyware, adware, rootkits, and other files that can put a computer or a network at risk.

Viruses and security risks can arrive through email messages or instant messenger programs. You can unknowingly download a risk by accepting an End User License Agreement from a software program.

Many viruses and security risks are installed as "drive-by downloads." These downloads usually occur when you visit malicious or infected Web sites, and the application’s downloader installs through a legitimate vulnerability on your computer.

You can view information about specific risks on the [Symantec Security Response Web site](https://www.symantec.com/). The Symantec Security Response Web site provides the latest information about threats and security risks. The Web site also contains extensive reference information, such as white papers and detailed information about viruses and security risks.
See “How scans respond to a virus or risk detection” on page 51.

**Figure 3-1**  How viruses and security risks attack a computer

Table 3-4 lists the type of viruses and risks that can attack a computer.
### Table 3-4  Viruses and security risks

<table>
<thead>
<tr>
<th>Risk</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viruses</td>
<td>Programs or code that attach a copy of themselves to another computer program or file when it runs. When the infected program runs, the attached virus program activates and attaches itself to other programs and files. The following types of threats are included in the virus category:</td>
</tr>
</tbody>
</table>
|                           | - **Malicious Internet bots**  
                          | Programs that run automated tasks over the Internet. Bots can be used to automate attacks on computers or to collect information from Web sites.  |
|                           | - **Worms**  
                          | Programs that replicate without infecting other programs. Some worms spread by copying themselves from disk to disk, while others replicate in memory to reduce computer performance.  |
|                           | - **Trojan horses**  
                          | Programs that hide themselves in something benign, such as a game or utility.  |
|                           | - **Blended threats**  
                          | Threats that blend the characteristics of viruses, worms, Trojan horses, and code with server and Internet vulnerabilities to initiate, transmit, and spread an attack. Blended threats use multiple methods and techniques to spread rapidly and cause widespread damage.  |
|                           | - **Rootkits**  
                          | Programs that hide themselves from a computer's operating system.  |
| Adware                    | Programs that deliver advertising content.  |
| Dialers                   | Programs that use a computer, without the user's permission or knowledge, to dial out through the Internet to a 900 number or FTP site. Typically, these numbers are dialed to accrue charges.  |
| Hacking tools             | Programs that hackers use to gain unauthorized access to a user's computer. For example, one hacking tool is a keystroke logger, which tracks and records individual keystrokes and sends this information back to the hacker. The hacker can then perform port scans or vulnerability scans. Hacking tools may also be used to create viruses.  |
| Joke programs             | Programs that alter or interrupt the operation of a computer in a way that is intended to be humorous or frightening. For example, a joke program might move the recycle bin away from the mouse when the user tries to delete an item.  |
| Misleading applications   | Applications that intentionally misrepresent the security status of a computer. These applications typically masquerade as security notifications about fake infections that must be removed.  |
| Parental control programs | Programs that monitor or limit computer usage. The programs can run undetected and typically transmit monitoring information to another computer.  |
### Table 3-4  Viruses and security risks (continued)

<table>
<thead>
<tr>
<th>Risk</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote access programs</td>
<td>Programs that allow access over the Internet from another computer so that they can gain information or attack or alter a user's computer.</td>
</tr>
<tr>
<td>Security assessment tool</td>
<td>Programs that are used to gather information for unauthorized access to a computer.</td>
</tr>
<tr>
<td>Spyware</td>
<td>Stand-alone programs that can secretly monitor system activity and detect passwords and other confidential information and relay it back to another computer.</td>
</tr>
<tr>
<td>Trackware</td>
<td>Stand-alone or appended applications that trace a user’s path on the Internet and send information to the controller or hacker's system.</td>
</tr>
</tbody>
</table>

### About the types of scans

Symantec Endpoint Protection includes different types of scans to provide protection against different types of viruses, threats, and risks.

By default, Symantec Endpoint Protection runs an active scan every day at 12:30 P.M. Symantec Endpoint Protection also runs an active scan when new definitions arrive on the client computer. On unmanaged computers, Symantec Endpoint Protection also includes a default startup scan that is disabled.

On unmanaged clients, you should make sure that you run an active scan every day on your computer. You might want to schedule a full scan once a week or once a month if you suspect that you have an inactive threat on your computer. Full scans consume more computer resources and might impact computer performance.

### Table 3-5  Scan types

<table>
<thead>
<tr>
<th>Scan type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Protect</td>
<td>Auto-Protect continuously inspects files and email data as they are written to or read from a computer. Auto-Protect automatically neutralizes or eliminates detected viruses and security risks.</td>
</tr>
<tr>
<td></td>
<td>Auto-Protect also protects some email that you might send or receive.</td>
</tr>
<tr>
<td></td>
<td>See &quot;About the types of Auto-Protect&quot; on page 50.</td>
</tr>
</tbody>
</table>
Table 3-5  Scan types (continued)

<table>
<thead>
<tr>
<th>Scan type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Download Insight</strong></td>
<td>Download Insight boosts the security of Auto-Protect by inspecting files when users try to download them from browsers and other portals. Download Insight uses information from Symantec Insight, which collects information from millions of users to determine the security reputations of files in the community. Download Insight uses a file’s reputation rating to allow or block a file or prompt the user to take action on the file. Download Insight functions as part of Auto-Protect and requires Auto-Protect to be enabled. If you disable Auto-Protect but enable Download Insight, Download Insight cannot function. See “How Symantec Endpoint Protection uses reputation data to make decisions about files” on page 53.</td>
</tr>
</tbody>
</table>
| **Administrator scans and user-defined scans** | For managed clients, your administrator might create scheduled scans or run scans on demand. On unmanaged clients, or managed clients for which scan settings are unlocked, you can create and run your own scans. Administrator or user-defined scans detect viruses and security risks by examining all files and processes on the client computer. These types of scans can also inspect memory and load points. The following types of administrator or user-defined scans are available:  
  ■ Scheduled scans  
    A scheduled scan runs on the client computers at designated times. Any concurrently scheduled scans run sequentially. If a computer is turned off during a scheduled scan, the scan does not run unless it is configured to retry missed scans. You can schedule an active, full, or custom scan.  
    You can save your scheduled scan settings as a template. You can use any scan that you save as a template as the basis for a different scan. The scan templates can save you time when you configure multiple policies. A scheduled scan template is included by default in the policy. The default scheduled scan scans all files and folders.  
  ■ Startup scans and triggered scans  
    Startup scans run when the users log on to the computers. Triggered scans run when new virus definitions are downloaded to computers.  
  ■ On-demand scans  
    On-demand scans are scans that you start manually. You can run scans on demand from the **Scan for Threats** page. See “How virus and spyware scans work” on page 44. |
| **SONAR**                        | SONAR can stop attacks even before traditional signature-based definitions detect a threat. SONAR uses heuristics as well as file reputation data to make decisions about applications or files. See “About SONAR” on page 82. |
See “Managing scans on your computer” on page 39.

About the types of Auto-Protect

Auto-Protect scans files as well as certain types of email and email attachments.
Auto-Protect works on your supported email client only. It does not protect mail servers.

**Note:** If a virus is detected as you open email, your email may take several seconds to open while Auto-Protect completes its scan.

<table>
<thead>
<tr>
<th>Table 3-6 Types of Auto-Protect</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Auto-Protect</strong></td>
</tr>
</tbody>
</table>
| File System Auto-Protect | Continuously scans files as they are read from or written to your computer.  
  Auto-Protect is enabled by default for the file system. It loads at computer startup. It inspects all files for viruses and security risks, and blocks the security risks from being installed. It can optionally scan files by file extension, scan files on remote computers, and scan floppies for boot viruses. It can optionally back up files before it attempts to repair the files, and terminate processes and stop services.  
  You can configure Auto-Protect to scan only selected file extensions. When Auto-Protect scans the selected extensions, it can also determine a file's type even if a virus changes the file's extension.  
  Auto-Protect scans all files, even email attachments. If you do not enable Auto-Protect for email, your client computers are still protected when File System Auto-Protect is enabled. Most email applications save attachments to a temporary folder when users launch email attachments. Auto-Protect scans the file as it writes to the temporary folder and detects any virus or security risk. Auto-Protect also detects the virus if the user tries to save an infected attachment to a local drive or network drive. |
| Internet Email Auto-Protect | Scans inbound Internet email body and email attachments for viruses and security risks; also performs outbound email heuristics scanning.  
  By default, Internet Email Auto-Protect supports encrypted passwords and email over POP3 and SMTP connections. Internet Email Auto-Protect supports 32-bit or 64-bit systems. If you use POP3 or SMTP with Secure Sockets Layer (SSL), then the client detects secure connections but does not scan encrypted messages.  
  **Note:** For performance reasons, Internet Email Auto-Protect for POP3 is not supported on server operating systems.  
  Email scanning does not support IMAP, AOL, or HTTP-based email such as Hotmail or Yahoo! Mail. |
### Table 3-6 Types of Auto-Protect (continued)

<table>
<thead>
<tr>
<th>Type of Auto-Protect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Outlook Auto-Protect</td>
<td>Downloads incoming Microsoft Outlook email attachments and scans for viruses and security risks when you read the message and open the attachment. Microsoft Outlook Auto-Protect supports Microsoft Outlook 98 through Outlook 2013, for the MAPI or Internet protocols. Microsoft Outlook Auto-Protect supports 32-bit and 64-bit systems. During installation, Symantec Endpoint Protection installs Microsoft Outlook Auto-Protect if your administrator included it in the package and Microsoft Outlook is already installed on the computer. If you download a large attachment over a slow connection, mail performance is affected. You may want to disable this feature if you regularly receive large attachments. <strong>Note:</strong> You should not install Microsoft Outlook Auto-Protect on a Microsoft Exchange Server.</td>
</tr>
<tr>
<td>Lotus Notes Auto-Protect</td>
<td>Scans incoming Lotus Notes email attachments for viruses and security risks. Lotus Notes Auto-Protect supports Lotus Notes 7.x or later. During installation, Symantec Endpoint Protection installs Lotus Notes Auto-Protect if your administrator included it in the package and Lotus Notes is already installed on the computer.</td>
</tr>
</tbody>
</table>

### How scans respond to a virus or risk detection

When viruses and security risks infect files, the client responds to the threat types in different ways. For each threat type, the client uses a first action, and then applies a second action if the first action fails.
### Table 3-7: How a scan responds to viruses and security risks

<table>
<thead>
<tr>
<th>Threat type</th>
<th>Action</th>
</tr>
</thead>
</table>
| Virus           | By default, when the client detects a virus, the client takes the following actions:  
|                 | ■ The client tries first to clean the virus from the infected file.  
|                 | ■ If the client cleans the file, the client completely removes the risk from your computer.  
|                 | ■ If the client cannot clean the file, it logs the failure and moves the infected file to the Quarantine.  
|                 | See "About quarantining files" on page 73.  
|                 | **Note:** Symantec Endpoint Protection does not quarantine a virus that is detected in Windows 8 style apps and files. Symantec Endpoint Protection deletes the virus instead. |
| Security risk   | By default, when the client detects a security risk, the client takes the following actions:  
|                 | ■ The client quarantines the infected file.  
|                 | ■ The client tries to remove or repair any changes that the security risk made.  
|                 | ■ The client the client cannot quarantine a security risk, it logs the risk and leaves it alone.  
|                 | In some instances, you might intentionally but unknowingly install an application that includes a security risk such as adware or spyware. If such a security risk is detected, the client takes the following action:  
|                 | ■ The client quarantines the risk immediately, if this action does not harm the computer or leave it in an unstable state.  
|                 | ■ Otherwise, the client waits until the application installation is complete before it quarantines the risk, and then repairs the risk’s effects.  
|                 | **Note:** Symantec Endpoint Protection does not quarantine a security risk that is detected in Windows 8 style apps and files. Symantec Endpoint Protection deletes the risk instead. |

For each scan type, you can change the settings for how the client handles viruses and security risks. You can set different actions for each category of risk and for individual security risks.
How Symantec Endpoint Protection uses reputation data to make decisions about files

Symantec collects information about files from its global community of millions of users and its Global Intelligence Network. The collected information forms a reputation database that Symantec hosts. Symantec products leverage the information to protect client computers from new, targeted, and mutating threats. The data is sometimes referred to as being in the cloud since it does not reside on the client computer. The client computer must request or query the reputation database.

Symantec uses a technology it calls Insight to determine each file's level of risk or security rating.

Insight determines a file's security rating by examining the following characteristics of the file and its context:

- The source of the file
- How new the file is
- How common the file is in the community
- Other security metrics, such as how the file might be associated with malware

Scanning features in Symantec Endpoint Protection leverage Insight to make decisions about files and applications. Virus and Spyware Protection includes a feature that is called Download Insight. Download Insight relies on reputation information to make detections. If you disable Insight lookups, Download Insight runs but cannot make detections. Other protection features, such as Insight Lookup and SONAR, also use reputation information to make detections; however, those features can use other technologies to make detections.

By default, a client computer sends information about reputation detections to Symantec Security Response for analysis. The information helps to refine Insight's reputation database. The more clients that submit information the more useful the reputation database becomes.

You can disable the submission of reputation information. Symantec recommends, however, that you keep submissions enabled.

Client computers also submit other types of information about detections to Symantec Security Response.

See “Managing Download Insight detections on your computer” on page 58.

See “Submitting information about detections to Symantec Security Response” on page 80.
Scheduling a user-defined scan

A scheduled scan is an important component of threat and security risk protection. You should schedule a scan to run at least one time each week to ensure that your computer remains free of viruses and security risks. When you create a new scan, the scan appears in the scan list in the Scan for threats pane.

**Note:** If your administrator has created a scheduled scan for you, it appears in the scan list in the Scan for threats pane.

Your computer must be turned on and Symantec Endpoint Protection Services must be loaded when the scan is scheduled to take place. By default, Symantec Endpoint Protection Services are loaded when you start your computer.

For managed clients, the administrator may override these settings.

See “Scanning your computer immediately” on page 18.

See “Managing scans on your computer” on page 39.

Consider the following important points when you set up a scheduled scan:

<table>
<thead>
<tr>
<th>User-defined scans do not require the user to be logged in</th>
<th>If the user who defined a scan is not logged in, Symantec Endpoint Protection runs the scan anyway. You can specify that the client does not run the scan if the user is logged off.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple simultaneous scans run serially</td>
<td>If you schedule multiple scans to occur on the same computer and the scans start at the same time, the scans run serially. After one scan finishes, another scan starts. For example, you might schedule three separate scans on your computer to occur at 1:00 P.M. Each scan scans a different drive. One scan scans drive C. Another scan scans drive D. Another scan scans drive E. In this example, a better solution is to create one scheduled scan that scans drives C, D, and E.</td>
</tr>
<tr>
<td>Missed scheduled scans might not run</td>
<td>If your computer misses a scheduled scan for some reason, by default Symantec Endpoint Protection tries to perform the scan until it starts or until a specific time interval expires. If Symantec Endpoint Protection cannot start the missed scan within the retry interval, it does not run the scan.</td>
</tr>
</tbody>
</table>
Scheduled scan time might drift

Symantec Endpoint Protection might not use the scheduled time if the last run of the scan occurred at a different time because of the scan duration or missed scheduled scan settings. For example, you might configure a weekly scan to run every Sunday at midnight and a retry interval of one day. If the computer misses the scan and starts up on Monday at 6am, the scan runs at 6am. The next scan is performed one week from Monday at 6am rather than the next Sunday at midnight.

If you did not restart your computer until Tuesday at 6am, which is two days late and exceeds the retry interval, Symantec Endpoint Protection does not retry the scan. It waits until the next Sunday at midnight to try to run the scan.

In either case, if you randomize the scan start time you might change the last run time of the scan.

You can also create an on-demand or startup scan.

See “Scheduling a scan to run on demand or when the computer starts up” on page 57.

To schedule a user-defined scan

1. In the client, in the sidebar, click **Scan for threats**.
2. Click **Create a New Scan**.
3. In the **Create New Scan - What To Scan** dialog box, select one of the following types of scans to schedule:

   **Active Scan**
   Scans the areas of the computer that viruses and security risks most commonly infect.
   You should run an active scan every day.

   **Full Scan**
   Scans the entire computer for viruses and security risks.
   You might want to run a full scan once a week or once a month. Full scans might affect your computer performance.

   **Custom Scan**
   Scans the selected areas of the computer for viruses and security risks.

4. Click **Next**.
5 If you selected **Custom Scan**, check the appropriate check boxes to specify where to scan, and then click **Next**.

The symbols have the following descriptions:

- ![Unselected](image1.png) The file, drive, or folder is not selected. If the item is a drive or folder, the folders and files in it are also not selected.

- ![Selected](image2.png) The individual file or folder is selected.

- ![Selected](image3.png) The individual folder or drive is selected. All items within the folder or drive are also selected.

- ![Selected](image4.png) The individual folder or drive is not selected, but one or more items within the folder or drive are selected.

6 In the **Create New Scan - Scan Options** dialog box, you can modify any of the following options:

- **File Types**: Change which file extensions the client scans. The default setting is to scan all files.

- **Actions**: Change first and second actions to take when viruses and security risks are found.

- **Notifications**: Construct a message to display when a virus or security risk is found. You can also configure whether or not you want to be notified before remediation actions occur.

- **Advanced**: Change additional scan features, such as displaying the scan results dialog box.

- **Scan Enhancements**: Change which computer components the client scans. The options that are available depend on what you selected in step 3.

7 Click **Next**.

8 In the **Create New Scan - When To Scan** dialog box, click **At specified times**, and then click **Next**.

9 In the **Create New Scan - Schedule** dialog box, under **Scan Schedule**, specify the frequency and when to scan, and then click **Next**.

10 Under **Scan Duration**, you can specify a length of time during which the scan must complete. You can also randomize the scan start time.
Under Missed Scheduled Scans, you can specify an interval during which a scan can be retried.

In the Create New Scan - Scan Name dialog box, type a name and description for the scan.

For example, call the scan: Friday morning

Click Finish.

Scheduling a scan to run on demand or when the computer starts up

You can supplement a scheduled scan with an automatic scan whenever you start your computer or log on. Often, a startup scan is restricted to critical, high-risk folders, such as the Windows folder and folders that store Microsoft Word and Excel templates.

If you regularly scan the same set of files or folders, you can create an on-demand scan that is restricted to those items. At any time, you can quickly verify that the specified files and folders are free from viruses and security risks. You must run on-demand scans manually.

If you create more than one startup scan, the scans run sequentially in the order in which they were created. Your administrator may have configured the client so that you cannot create a startup scan.

See “Scanning your computer immediately” on page 18.

To schedule a scan to run on demand or when the computer starts up

1 In the client, in the sidebar, click Scan for threats.

2 Click Create a New Scan.

3 Specify what to scan and any scan options for the scheduled scan.

   See “Scheduling a user-defined scan” on page 54.

4 In the Create New Scan - When to Run dialog box, do one of the following actions:
   - Click At startup.
   - Click On demand.

5 Click Next.
6 In the **Create New Scan - Scan Name** dialog box, type a name and description for the scan. For example, call the scan: MyScan1

7 Click **Finish**.

**Managing Download Insight detections on your computer**

Auto-Protect includes Download Insight, which examines the files that you try to download through web browsers, text messaging clients, and other portals. Auto-Protect must be enabled for Download Insight to function.

Supported portals include Internet Explorer, Firefox, Microsoft Outlook, Outlook Express, Windows Live Messenger, and Yahoo Messenger.

**Note:** In the Risk log, the risk details for a Download Insight detection show only the first portal application that attempted the download. For example, you might use Internet Explorer to try to download a file that Download Insight detects. If you then use Firefox to try to download the file, the **Downloaded by** field in the risk details shows Internet Explorer as the portal.

**Note:** Auto-Protect can also scan the files that users receive as email attachments.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learn how Download Insight uses reputation data to make decisions about files</td>
<td>Download Insight determines that a downloaded file might be a risk based on evidence about the file's reputation. Download Insight uses reputation information exclusively when it makes decisions about downloaded files. It does not use signatures or heuristics to make decisions. If Download Insight allows a file, Auto-Protect or SONAR then scans the file when the user opens or runs the file. See &quot;How Symantec Endpoint Protection uses reputation data to make decisions about files&quot; on page 53.</td>
</tr>
<tr>
<td>Make sure that Insight lookups are enabled</td>
<td>Download Insight requires reputation data to make decisions about files. If you disable Insight lookups, Download Insight runs but cannot make detections. Insight lookups are enabled by default. See &quot;Submitting information about detections to Symantec Security Response&quot; on page 80.</td>
</tr>
</tbody>
</table>
### Table 3-8
Managing Download Insight detections on your computer (continued)

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respond to Download Insight detections</td>
<td>You might see notifications when Download Insight makes a detection. For managed clients, your administrator might choose to disable Download Insight detection notifications.</td>
</tr>
<tr>
<td></td>
<td>When notifications are enabled, you see messages when Download Insight detects a malicious file or an unproven file. For unproven files, you must choose whether or not to allow the file.</td>
</tr>
<tr>
<td></td>
<td>See &quot;Responding to Download Insight messages that ask you to allow or block a file that you try to download&quot; on page 32.</td>
</tr>
<tr>
<td>Create exceptions for specific files or web domains</td>
<td>You can create an exception for an application that you download. You can also create an exception for a specific web domain that you believe is trustworthy.</td>
</tr>
<tr>
<td></td>
<td>By default, Download Insight does not examine any files that users download from a trusted Internet or intranet site. Trusted sites are configured on the Windows Control Panel &gt; Trusted Internet Sites &gt; Security tab. When the Automatically trust any file downloaded from an intranet site option is enabled, the Symantec Endpoint Protection client allows any file that a user downloads from one of the trusted sites.</td>
</tr>
<tr>
<td></td>
<td>Download Insight only recognizes those trusted sites that you or your administrator have explicitly configured.</td>
</tr>
<tr>
<td></td>
<td>See &quot;Excluding items from scans&quot; on page 68.</td>
</tr>
</tbody>
</table>
Table 3-8 Managing Download Insight detections on your computer (continued)

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customize Download Insight settings</td>
<td>You might want to customize Download Insight settings for the following reasons:</td>
</tr>
<tr>
<td></td>
<td>■ Increase or decrease the number of Download Insight detections.</td>
</tr>
<tr>
<td></td>
<td>You can adjust the malicious file sensitivity slider to increase or decrease the number of detections. At lower sensitivity levels, Download Insight detects fewer files as malicious and more files as unproven. Fewer detections are false positive detections.</td>
</tr>
<tr>
<td></td>
<td>At higher sensitivity levels, Download Insight detects more files as malicious and fewer files as unproven. More detections are false positive detections.</td>
</tr>
<tr>
<td></td>
<td>■ Change the action for malicious or unproven file detections.</td>
</tr>
<tr>
<td></td>
<td>You can change how Download Insight handles malicious or unproven files.</td>
</tr>
<tr>
<td></td>
<td>You might want to change the action for unproven files so that you do not receive notifications for those detections.</td>
</tr>
<tr>
<td></td>
<td>■ Get alerts about Download Insight detections.</td>
</tr>
<tr>
<td></td>
<td>When Download Insight detects a file that it considers malicious, it displays a message on the client computer if the action is set to <strong>Quarantine</strong>. You can undo the quarantine action.</td>
</tr>
<tr>
<td></td>
<td>When Download Insight detects a file that it considers unproven, it displays a message on the client computer. The message only appears if you set the action for unproven files to <strong>Prompt</strong> or <strong>Quarantine</strong>. When the action is set to <strong>Prompt</strong>, you can allow or block the file. When the action is <strong>Quarantine</strong>, you can undo the quarantine action.</td>
</tr>
<tr>
<td></td>
<td>You can turn off user notifications so that you do not have a choice when Download Insight detects a file that it considers unproven. If you keep notifications enabled, you can set the action for unproven files to <strong>Ignore</strong> to always allow these detections and not notify you.</td>
</tr>
<tr>
<td></td>
<td>When notifications are enabled, the malicious file sensitivity setting affects the number of notifications that you receive. If you increase the sensitivity, you increase the number of user notifications because the total number of detections increases.</td>
</tr>
</tbody>
</table>

See “Customizing Download Insight settings” on page 61.

<table>
<thead>
<tr>
<th>Control what information you submit about reputation detections to Symantec</th>
<th>By default, all managed clients send information about reputation detections to Symantec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symantec recommends that you keep submissions enabled for reputation detections. The information helps Symantec address threats.</td>
<td></td>
</tr>
<tr>
<td>See “Submitting information about detections to Symantec Security Response” on page 80.</td>
<td></td>
</tr>
</tbody>
</table>
Customizing Download Insight settings

You might want to customize Download Insight settings to decrease false positive detections on client computers. You can change how sensitive Download Insight is to the file reputation data that it uses to characterize malicious files. You can also change the notification that Download Insight displays on client computers when it makes a detection.

Note: Auto-Protect must be enabled in order for Download Insight to function. If Auto-Protect is disabled, Download Insight does not function even if Download Insight is enabled.

See “Managing Download Insight detections on your computer” on page 58.

To customize Download Insight settings

1. In the client, in the sidebar, click Change Settings.
2. Next to Virus and Spyware Protection, click Configure Settings.
3. On the Download Insight tab, make sure that Enable Download Insight to detect potential risks in downloaded files based on file reputation is checked.

   If Auto-Protect is disabled, Download Insight cannot function even if it is enabled.
4. Move the slider to change the malicious file sensitivity.

Note: With only basic Virus and Spyware Protection installed, the malicious file sensitivity is automatically set to level 1, and you cannot change the setting.

If you set the level higher, Download Insight detects more files as malicious and fewer files as unproven. Higher settings, however, return more false positives.

5. Check or uncheck the following options to use as additional criteria for examining unproven files:
   - Files with: \( x \) or fewer users, where \( x \) is by default 5. You can select another value from the drop-down list.
   - Files known by users for: \( x \) or fewer days, where \( x \) is by default 2. You can enter any value

When unproven files meet this criteria, Download Insight detects the files as malicious.
6 Make sure that **Automatically trust any file downloaded from an intranet website** is checked.  
This option also applies to Insight Lookup detections.

7 Click **Actions**.

8 Under **Malicious Files**, specify a first action and a second action.

9 Under **Unproven Files**, specify the action.

10 Click **OK**.

11 Click **Notifications**, and specify whether or not to display a notification when Download Insight makes a detection.  
You can customize the text of the warning message that appears.

12 Click **OK**.

### Customizing virus and spyware scan settings

By default, Symantec Endpoint Protection gives your computer the protection against the viruses and security risks that you need. If you have an unmanaged client, you may want to configure some of the scan settings.

You can customize a user-defined scan, global scan settings, and Auto-Protect.

- **To customize a user-defined scan**
- **To change global scan settings**
- **To customize Auto-Protect**

See “Managing scans on your computer” on page 39.

**To customize a user-defined scan**

1 In the client, in the sidebar, click **Scan for threats**.

2 In the **Scan for threats** page, right-click a scan and click **Edit**.

3 On the **Scan Options** tab, do any of the following tasks:
   - **To change Insight Lookup settings**, click **Insight Lookup**.  
     Insight Lookup settings are similar to Download Insight settings.  
     See “Customizing Download Insight settings” on page 61.
   - **To specify fewer file types to scan**, click **Selected extensions**, and then click **Extensions**.
Managing scans

Customizing virus and spyware scan settings

Note: User-defined scans always scan container files unless you disable the compressed file option on the scheduled scan under Advanced Scanning Options, or you create exceptions for the container extensions.

- To specify a first action and a second action that the client takes on an infected file, click Actions.
- To specify notification options, click Notifications.
  You can enable or disable the notifications that appear in the Windows 8 style user interface separately.
  See “How to manage the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers” on page 78.
- To configure advanced options for compressed files, backups, and tuning, click Advanced.
  You can change the tuning options to improve your client computer performance.

For more information on the options on each dialog box, click Help.

4 Click OK.

To change global scan settings

1 In the client, in the sidebar, click Change settings, and the next to Virus and Spyware Protection, click Configure Settings.

2 On the Global Settings tab, under Scan Options, change settings for Insight or Bloodhound heuristic virus detection.

3 To view or create scan exceptions, click View List. Click Close after you view or create exceptions.

4 Under Log Retention or Internet Browser Protection, make any changes that you want.

5 Click OK.

To customize Auto-Protect

1 In the client, in the sidebar, click Change settings.

2 Next to Virus and Spyware Protection, click Configure Settings.

3 On any Auto-Protect tab, do the following tasks:
   ■ To specify fewer file types to scan, click Selected, and then click Extensions.
   ■ To specify a first action and a second action that the client takes on an infected file, click Actions.
To specify notification options, click Notifications.

For more information on the options on each dialog box, click Help.

4 On the Auto-Protect tab, click Advanced.

You can change options for the file cache as well as options for Risk Tracer and backups. You might want to change these options to improve your computer performance.

5 Click Network to change settings for trusting files on remote computers and setting a network cache.

6 Click OK.

Configuring actions for malware and security risk detections

You can configure the actions that you want the Symantec Endpoint Protection client to take when it detects malware or a security risk. You can configure a first action and a second action to take if the first action fails.

---

Note: If an administrator manages your computer and these options display a lock icon, you cannot change these options because your administrator has locked them.

You configure actions for any type of scan in the same way. Each scan has its own configuration for actions. You can configure different actions for different scans.

---

Note: You configure actions for Download Insight and SONAR separately.

See “Customizing virus and spyware scan settings” on page 62.

See “Customizing Download Insight settings” on page 61.

See “Changing SONAR settings” on page 85.

For more information on the options on each dialog box, click Help.

To configure actions for malware and security risk detections

1 In the client, in the sidebar, click Change settings.

2 Next to Virus and Spyware Protection, click Configure Settings, and then on any Auto-Protect tab, click Actions.

3 Click Actions.
4 In the **Scan Actions** dialog box, select the category **Malware** or **Security Risks**.

You can also select a subcategory. By default, each subcategory is automatically configured to use the actions that are set for the entire category.

The categories change dynamically over time as Symantec gets new information about risks.

5 To configure actions for a subcategory only, do one of the following actions:

- Check **Override actions configured for Malware**, and then set the actions for that subcategory only.

  **Note:** There might be a single subcategory under a category, depending on how Symantec currently classifies risks. For example, under **Malware**, there might be a single subcategory called **Viruses**.

- Check **Override actions configured for Security Risks**, and then set the actions for that subcategory only.

6 For a category or a subcategory, select a first and second action from the following options:

<table>
<thead>
<tr>
<th>Clean risk</th>
<th>Removes the virus from the infected file. This setting is the default first action for the <strong>Malware</strong> category.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Note:</strong> This setting is only available as a first action for the <strong>Malware</strong> category. This action does not apply to security risks.</td>
</tr>
<tr>
<td></td>
<td>This setting should always be the first action for viruses. If the client successfully cleans a virus from a file, you do not need to take any other action. Your computer is free of the detected virus and is no longer susceptible to the spread of that virus into other areas of your computer.</td>
</tr>
<tr>
<td></td>
<td>In some instances, however, the cleaned file might not be usable. The virus might have caused too much damage. Some infected files cannot be cleaned.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Symantec Endpoint Protection does not clean the malware that is detected in Windows 8 style apps and files. Symantec Endpoint Protection deletes the detection instead.</td>
</tr>
</tbody>
</table>
Quarantine risk

Moves the infected file from its original location to the Quarantine. Infected files within the Quarantine cannot spread viruses.

- For malware, this action moves the infected file from its original location to the Quarantine. This setting is the default second action for malware.
- For security risks, this action moves the infected files from their original location to the Quarantine and tries to remove or repair any side effects. This setting is the default first action for security risks.

Quarantine contains a record of all the actions that were performed. You can return the computer to the state that existed before the client removed the risk.

**Note:** Symantec Endpoint Protection does not quarantine the malware that is detected in Windows 8 style apps and files. Symantec Endpoint Protection deletes the detection instead.

Delete risk

Deletes the infected file from your computer's hard drive. If the client cannot delete a file, information about the action that was taken appears in the **Notification** dialog box. The information also appears in the event log.

This setting is the default second action for security risks.

Use this action only if you can replace the file with a backup copy that is free of viruses or security risks. When the client deletes a risk, it deletes the risk permanently. The infected file cannot be recovered from the recycle bin.

**Note:** Use this action with caution when you configure actions for security risks. In some cases, deleting security risks can cause applications to lose functionality.
Leave alone (log only) Leaves the file as is and places an entry in the risk history to keep a record of it. Use this option to take manual control of how the client handles malware or security risks.

**Note:** Malware may be able to spread to other parts of your computer or to other computers on the network until you take further action.

Do not select this action when you perform large-scale, automated scans, such as scheduled scans. You might want to use this action if you intend to view the scan results and take an additional action later. An additional action might be to move the file to the Quarantine.

Your administrator might send a customized message that explains how to respond.

7 Repeat these steps for each category for which you want to set specific actions, and then click **OK**.

8 If you selected a security risk category, you can select custom actions for one or more specific instances of that security risk category. You can exclude a security risk from scanning. For example, you might want to exclude a piece of adware that you need to use in your work.

9 Click **OK**.

### About excluding items from scans

Exceptions are known security risks, files, folders, file extensions, web domains, or those applications that you want to exclude from scans. If you have scanned your computer and know that certain files are safe, you can exclude them. In some cases, exceptions can reduce scan time and increase system performance. You can also create exceptions for those applications that try to make a DNS or host file change. Typically you do not need to create exceptions.

For managed clients, your administrator may have created exceptions for your scans. If you create an exception that conflicts with an administrator-defined exception, the administrator-defined exception takes precedence. Your administrator can also prevent you from configuring any or all types of exceptions.

**Note:** If your email application stores all email in a single file, you should create a file exception to exclude the Inbox file from scans. By default, scans quarantine viruses. If a scan detects a virus in the Inbox file, the scan quarantines the entire Inbox. If the scan quarantines the Inbox, you cannot access your email.
### Table 3-9 Exception types

<table>
<thead>
<tr>
<th>Exception Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>File</td>
<td>Applies to virus and spyware scans  \nScans ignore the file that you select.</td>
</tr>
<tr>
<td>Folder</td>
<td>Applies to virus and spyware scans or SONAR or both  \nScans ignore the folder that you select.</td>
</tr>
<tr>
<td>Known risks</td>
<td>Applies to virus and spyware scans  \nScans ignore any known risk that you select.</td>
</tr>
<tr>
<td>Extensions</td>
<td>Applies to virus and spyware scans  \nScans ignore any files with the specified extensions.</td>
</tr>
<tr>
<td>Web domain</td>
<td>Applies to virus and spyware scans  \nDownload Insight ignores the specified trusted web domain.</td>
</tr>
<tr>
<td>Application</td>
<td>Applies to virus and spyware scans and SONAR  \nScans ignore, log, quarantine, or terminate the application that you specify here.</td>
</tr>
<tr>
<td>DNS or host file change</td>
<td>Applies to SONAR  \nScans ignore, log, or block an application or prompt the user when a specific application tries to change DNS settings or change a host file.</td>
</tr>
</tbody>
</table>

See “Excluding items from scans” on page 68.

### Excluding items from scans

You can exclude items from being scanned applications and files that you know are safe. You can also exclude some items to improve the computer's performance.

For managed clients, your administrator may have created exceptions for your scans. If you create an exception that conflicts with an administrator-defined exception, the administrator-defined exception takes precedence.

You can exclude items from security risk scans, exclude folders from SONAR scans, and exclude an application from all scans.

- To exclude items from security risk scans
- To exclude a folder from SONAR
To exclude an application that makes a DNS or a host file change
To change how all scans handle an application

**Note:** On the Server Core installation of Windows Server 2008, the appearance of the dialog boxes might differ from the ones that are described in these procedures.

### To exclude items from security risk scans

1. In the client, in the sidebar, click **Change Settings**.
2. Next to **Exceptions**, click **Configure Settings**.
3. In the **Exceptions** dialog box, under **User-defined Exceptions**, click **Add > Security Risk Exceptions**.
4. Select one of the following exception types:
   - **Known Risks**
   - **File**
   - **Folder**
   - **Extensions**
   - **Web Domain**
5. Do one of the following actions:
   - For known risks, check the security risks that you want to exclude from scans.
     - To log an event when the security risk is detected and ignored, check **Log when the security risk is detected**.
   - For files or folders, select the file or folder that you want to exclude, or enter a file or folder name.
     - Select the scan type (**All scans**, **Auto-Protect**, or **Scheduled and on-demand**) and then click **OK**.

If you run an application that writes many temp files to a folder, you might want to exclude the folder from Auto-Protect. Auto-Protect scans files as they are written so you can increase computer performance by limiting the exception to scheduled and on-demand scans.

You might want to exclude the folders that are not often used or that contain archived or packed files from scheduled and on-demand scans. For example, scheduled or on-demand scans of deeply archived files that are not often used might decrease computer performance. Auto-Protect still protects the folder by scanning only when any files are accessed or written to the folder.
For extensions, type the extension that you want to exclude. You can only include one extension name in the text box. If you type multiple extensions, the client treats the entry as a single extension name.

For domains, enter a domain name or IP address that you want to exclude from Download Insight and SONAR detection. You can specify a URL, but the exception uses only the domain name portion of a URL. If you specify a URL, you can pre-pend the URL with either HTTP or HTTPS (case-insensitive), but the exception applies to both. The exception allows you to download files from any location in the domain. For Download Insight, wildcards are allowed, but non-routable IP address ranges are not supported. For example, Download Insight cannot recognize 10.*.*.* as a trusted site. Download Insight also does not support the sites that the Internet Options > Security > Automatically detect intranet network option discovers.

6 Click OK.

To exclude a folder from SONAR

1 In the client, in the sidebar, click Change Settings.

2 Next to Exceptions, click Configure Settings.

3 In the Exceptions dialog box, under User-defined Exceptions, click Add > SONAR Exception > Folder.

4 Select the folder that you want to exclude, check or uncheck Include Subfolders, and then click OK.

5 Click Close.

To exclude an application that makes a DNS or a host file change

1 In the client, in the sidebar, click Change Settings.

2 Next to Exceptions, click Configure Settings.

3 In the Exceptions dialog box, under User-defined Exceptions, click DNS or Host File Change Exception > Application.

4 Select the application that you want to exclude, and then click OK.

To change how all scans handle an application

1 In the client, in the sidebar, click Change Settings.

2 Next to Exceptions, click Configure Settings.

3 In the Exceptions dialog box, under User-defined Exceptions, click Add > Application Exception.

4 Select the filename of the application
5 In the Action drop-down box, select Ignore, Log Only, Quarantine, Terminate, or Remove.

6 Click OK.

7 Click Close.

See “Managing scans on your computer” on page 39.

See “About excluding items from scans” on page 67.

Managing quarantined files on your computer

By default, Symantec Endpoint Protection tries to clean a virus from an infected file when it is detected. If the file cannot be cleaned, the scan places the file in the Quarantine on your computer. For security risks, scans move infected files to the Quarantine and repair any side effects of the security risk. Download Insight and SONAR can also quarantine files.

See “About quarantining files” on page 73.

Table 3-10 Managing quarantined files on your computer

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restore a quarantined file to its original location</td>
<td>You can restore a file from the Quarantine. For example, you may want to restore a file that you think was incorrectly detected as malware or a security threat. Occasionally, a clean file does not have a location to which to be returned. For example, an infected attachment may have been stripped from an email and placed in the Quarantine. You must release the file and specify a location. See “Restoring a quarantined file” on page 74.</td>
</tr>
<tr>
<td>Manually quarantine an item</td>
<td>You can manually quarantine a file by adding it to the Quarantine. You can also select the file from the virus and spyware logs or SONAR logs. See “Quarantining a file manually” on page 74.</td>
</tr>
<tr>
<td>Task</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Rescan files in the Quarantine after you receive new definitions | When you update definitions, files in the Quarantine might get scanned, cleaned, and restored automatically. For some files, the Repair Wizard appears. Follow the on-screen instructions to complete the rescan and repair.  
You can also rescan the files in the Quarantine manually.  
See “Rescanning files manually in the Quarantine” on page 75. |
| Export Quarantine information                            | You can export the contents of the Quarantine to either a comma-delimited (.csv) file or a Microsoft Access Database (.mdb) file.  
See “Exporting the Quarantine information” on page 75.                                                                                     |
| Submit infected files in the Quarantine to Symantec Security Response | After items in the Quarantine are rescanned, you might want to submit a file that is still infected to Symantec Security Response for further analysis.  
See “Manually submitting a potentially infected file to Symantec Security Response for analysis” on page 76. |
### About quarantining files

When the client moves an infected file to the Quarantine, it encrypts the file. A file in the Quarantine cannot infect other files on your computer or other computers in the network. However, the Quarantine action does not clean the risk. The risk stays on your computer until the client cleans the risk or deletes the file. Since the file is encrypted, you do not have access to the quarantined file. If you determine the file was quarantined in error, you can restore the file from the Quarantine.

When you update your computer with new virus definitions, the client automatically rescans the Quarantine. You can also manually rescan the items in the Quarantine. The latest definitions might clean or repair the previously quarantined files.

Most viruses can be quarantined. Boot viruses reside in the boot sector or partition tables of a computer; these items cannot be moved to the Quarantine. Sometimes the client detects an unknown virus that cannot be eliminated with the current set of virus definitions. If you have a file that you believe is infected but scans do not detect an infection, you should manually quarantine the file. Once the file is in the Quarantine, you can submit it to Symantec.

---

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
</table>
| Permanently delete files from the Quarantine | You can manually delete the files that you no longer need from the Quarantine, including backups from successfully cleaned or repaired files. You can also set up the client to automatically remove items from the Quarantine after a specified time interval. You can also specify that the client removes items when the folder where the items are stored reaches a certain size. This configuration prevents the buildup of files that you may forget to remove manually from these areas. **Note:** Your administrator may specify the parameters by which items are allowed to stay in the Quarantine. Items are automatically deleted from the Quarantine after those parameters are met. 

See “Deleting files manually from the Quarantine” on page 76.

See “Automatically deleting files from the Quarantine” on page 76. |
Note: The language of the operating system on which you run the client might not be able to interpret some characters in risk names. If the operating system cannot interpret the characters, the characters appear as question marks in notifications. For example, some Unicode risk names might contain double-byte characters. On those computers that run the client on an English operating system, these characters appear as question marks.

See “Managing quarantined files on your computer” on page 71.

Restoring a quarantined file

You restore a file from the Quarantine if you think it was incorrectly quarantined as a false positive. Use caution when you restore potentially malicious files from the Quarantine.

To restore a quarantined file

1. In the client, in the sidebar, click View Quarantine.
2. From the list of quarantined files, click the file you want to restore, and then click Restore.
3. Click Yes to restore the selected file, or click No to cancel.

If the file does not have a location to which it can be restored, you specify a location in which to place the file.

See “Managing quarantined files on your computer” on page 71.

Quarantining a file manually

When a scan detects a threat, the client might not be able to perform the predefined actions when a detection occurs. These predefined actions may include cleaning the file or quarantining the file. If the preset action cannot complete, the client logs the event. You can manually import a file into the Quarantine through the Symantec Endpoint Protection client. You can also use the entry in the Risk Log or the Scan Log to quarantine a file later.

To quarantine a file manually through the Symantec Endpoint Protection client

1. In the client, in the sidebar, click View Quarantine.
2. Click Add.
3. Navigate to and then click the file that you want to add to the Quarantine.
4. Click OK.
To quarantine a file manually from the Risk Log or Scan Log

1. In the client, click **View Logs**.
2. Beside **Virus and Spyware Protection**, click **View Log** and then select **Risk Log** or **Scan Log**.
3. Select the file that you want to quarantine, and then click **Quarantine**.
4. Click **OK**, and then click **Close**.

See “About quarantining files” on page 73.

See “Managing quarantined files on your computer” on page 71.

Rescanning files manually in the Quarantine

After the definitions update, Symantec Endpoint Protection rescans the files in the Quarantine to determine if they can be cleaned, repaired, and restored. You can also rescan the Quarantine at any time through the client.

To rescan files manually in the Quarantine

1. In the client, in the sidebar, click **View Quarantine**.
2. Click **Rescan All** to launch the **Symantec Endpoint Protection Repair Wizard**.
3. Click **Yes (recommended)**, and then click **Next**.
4. Click **Next** to attempt to repair all files.
5. Click **Finish**.

See “Managing quarantined files on your computer” on page 71.

Exporting the Quarantine information

You may want to export a list of files that appear in the Quarantine to import them into a spreadsheet or a database for analysis.

To export the Quarantine information

1. In the client, in the sidebar, click **View Quarantine**.
2. Click **Restore**.
3. Next to **File name**, enter a file name, or click **Browse Folders**.
4. Next to **Save as type**, select **CSV (Comma Delimited) (*.csv)** or **Access Database (*.mdb)**.
5. Click **Save**.

See “Managing quarantined files on your computer” on page 71.
Manually submitting a potentially infected file to Symantec Security Response for analysis

You can submit a potentially infected item from the Quarantine to Symantec Security Response for analysis to make sure that it is not infected. Symantec Security Response also uses this data to protect against new or developing threats.

Note: The submission option is not available if your administrator disables these types of submissions.

To submit a file to Symantec Security Response from the Quarantine

1 In the client, in the sidebar, click View Quarantine.
2 Select the file in the list of quarantined items.
3 Click Submit.
4 Follow the on-screen instructions in the wizard to collect the necessary information and submit the file for analysis.

See “Managing quarantined files on your computer” on page 71.

Deleting files manually from the Quarantine

You can manually delete the files from the Quarantine at any time. By default, the Quarantine automatically deletes files after 30 days, but your administrator may configure a different period of time. You can also configure the automatic deletion of files from the Quarantine.

To delete files manually from the Quarantine

1 In the client, in the sidebar, click View Quarantine.
2 From the list of quarantined files, click the file you want to delete, and then click Delete.
3 Click Yes to delete the selected file, or click No to cancel.

See “Automatically deleting files from the Quarantine” on page 76.

See “Managing quarantined files on your computer” on page 71.

Automatically deleting files from the Quarantine

You can set up your software to automatically remove items from the Quarantine list after a specified time interval. You can also specify that the client removes items when the folder where the items are stored reaches a certain size. This configuration
prevents the buildup of files that you may forget to remove manually from these areas.

See “Managing quarantined files on your computer” on page 71.

To automatically delete files from the Quarantine

1. In the client, in the sidebar, click View Quarantine.
2. Click Purge Options.
3. In the Purge Options dialog box, select one of the following tabs:
   - Quarantine Items
   - Backup Items
   - Repaired Items
4. Check or uncheck Length of time stored exceeds to enable or disable the ability of the client to delete the files after the configured time expires.
5. If you check the Length of time stored exceeds check box, type or click an arrow to enter the amount of time.
6. Select the unit of time from the drop-down list. The default is 30 days.
7. If you check the Total folder size exceeds check box, type in the maximum folder size to allow, in megabytes. The default is 50 megabytes.

If you check both check boxes, all files that are older than the time that you have set are deleted first. If the size of the folder still exceeds the limit that you set, the client deletes the oldest files individually. The client deletes the oldest files until the folder size does not exceed the limit.

8. Repeat steps 4 through 7 for any of the other tabs.
9. Click OK.

Enabling or disabling early launch anti-malware (ELAM)

Early launch anti-malware (ELAM) provides protection for your computer when it starts up and before third-party drivers initialize. Malicious software that can load as a driver or rootkits might attack before the operating system completely loads and Symantec Endpoint Protection starts. Rootkits can sometimes hide themselves from virus and spyware scans. Early launch anti-malware detects these rootkits and bad drivers at startup.

Symantec Endpoint Protection provides an early launch anti-malware driver that works with the Microsoft early launch anti-malware driver to provide the protection.
The settings are supported on Microsoft Windows 8 and later, and Windows Server 2012 and later. The Windows early launch anti-malware driver must be enabled for this option to take effect.

**Note:** You cannot create exceptions for individual ELAM detections; however, you can create a global exception to log all bad drivers as unknown.

For some ELAM detections that require remediation, you might be required to run Power Eraser. Power Eraser is part of the Symantec Help tool. You can obtain the Symantec Help tool through the Symantec Endpoint Protection client’s Help button.

**To enable or disable early launch anti-malware**

1. In the client, in the sidebar, click **Change Settings**.
2. Next to **Virus and Spyware Protection**, click **Configure Settings**.
3. On the **Early Launch Anti-Malware** tab, check or uncheck **Enable Symantec Early Launch Anti-Malware**.
4. If you want to log the detections only, under **When Symantec Endpoint Protection detects a potentially malicious driver**, select **Log the detection as unknown so that Windows allows the driver to load**.
5. Click **OK**.

See “Managing scans on your computer” on page 39.

See “Troubleshooting computer issues with the Symantec Help support tool” on page 110.

See “Excluding items from scans” on page 68.

---

**How to manage the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers**

By default pop-up notifications appear on the Windows 8 style user interface and the Windows 8 desktop for malware detections and other critical Symantec Endpoint Protection events.

You can perform the following actions to manage the pop-up notifications:

- In the client, modify the global setting for Windows 8 style user interface notifications on the **Client Management Settings** page.
- In Windows 8, change the notification settings for the operating system.
Symantec Endpoint Protection notifications only appear if Windows 8 is configured to show them. See the Windows 8 user documentation for more information.

On managed clients, your administrator might control whether or not you see pop-up notifications in Windows 8.

See “Responding to the Symantec Endpoint Protection pop-up notifications that appear on Windows 8 computers” on page 33.

About submitting information about detections to Symantec Security Response

You can configure your computer to automatically submit information about detections to Symantec Security Response for analysis.

Symantec Response and the Global Intelligence Network use this submitted information to quickly formulate responses to new and developing security threats. The data that you submit improves Symantec's ability to respond to threats and customize protection. Symantec recommends that you always allow submissions.

See “About the Symantec Endpoint Protection client” on page 11.

You can choose to submit any of the following types of data:

- **File reputation**
  Information about the files that are detected based on their reputation. The information about these files contributes to the Symantec Insight reputation database to help protect your computers from new and emerging risks.

- **Antivirus detections**
  Information about virus and spyware scan detections.

- **Antivirus advanced heuristic detections**
  Information about potential threats that are detected by Bloodhound and other virus and spyware scan heuristics. These detections are silent detections that do not appear in the Risk log. Information about these detections is used for statistical analysis.

- **SONAR detections**
  Information about threats that SONAR detects, which include high or low risk detections, system change events, and suspicious behavior from trusted applications.

- **SONAR heuristics**
  SONAR heuristic detections are silent detections that do not appear in the Risk log. This information is used for statistical analysis.
You can also manually submit a sample to Response from the Quarantine or through the Symantec Web site. To submit a file through the Symantec Web site, contact Symantec Technical Support.

See “Submitting information about detections to Symantec Security Response” on page 80.

See “How Symantec Endpoint Protection uses reputation data to make decisions about files” on page 53.

Submitting information about detections to Symantec Security Response

Symantec Endpoint Protection can protect computers by monitoring the information that comes into and out of the computer, and by blocking attack attempts.

You can enable your computer to submit information about detected threats to Symantec Security Response. Symantec Security Response uses this information to protect your client computers from new, targeted, and mutating threats. Any data you submit improves Symantec’s ability to respond to threats and customize protection for your computer. Symantec recommends that you submit as much detection information as possible.

You can also manually submit a sample to Symantec Response from the Quarantine page. The Quarantine page also lets you determine how items are submitted to Symantec Security Response.

To configure submissions to Symantec Security Response

1. Select Change Settings > Client Management.
2. On the Submissions tab, check Let this computer automatically forward selected anonymous security information to Symantec. This option lets Symantec Endpoint Protection submit information about the threats that are found on your computer.

   Symantec recommends that you keep this option enabled.
3. Select the types of information to submit.
4. Enable Allow Insight lookups for threat detection to allow Symantec Endpoint Protection to use Symantec’s reputation database to make decisions about threats.
5. Click OK.

See “Managing quarantined files on your computer” on page 71.
About the client and the Windows Security Center

If you use Windows Security Center (WSC) on Windows XP with Service Pack 2 or Service Pack 3, you can see Symantec Endpoint Protection status in WSC. Table 3-11 shows the protection status reporting in WSC.

Table 3-11  WSC protection status reporting

<table>
<thead>
<tr>
<th>Symantec product condition</th>
<th>Protection status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symantec Endpoint Protection is not installed</td>
<td>NOT FOUND (red)</td>
</tr>
<tr>
<td>Symantec Endpoint Protection is installed with full protection</td>
<td>ON (green)</td>
</tr>
<tr>
<td>Symantec Endpoint Protection is installed, and virus and security</td>
<td>OUT OF DATE (red)</td>
</tr>
<tr>
<td>risk definitions are out of date</td>
<td></td>
</tr>
<tr>
<td>Symantec Endpoint Protection is installed and Auto-Protect for the</td>
<td>OFF (red)</td>
</tr>
<tr>
<td>file system is not enabled</td>
<td></td>
</tr>
<tr>
<td>Symantec Endpoint Protection is installed, Auto-Protect for the file</td>
<td>OFF (red)</td>
</tr>
<tr>
<td>system is not enabled, and virus and security risk definitions are</td>
<td></td>
</tr>
<tr>
<td>out of date</td>
<td></td>
</tr>
<tr>
<td>Symantec Endpoint Protection is installed and ccSvcHst is turned off</td>
<td>OFF (red)</td>
</tr>
<tr>
<td>manually</td>
<td></td>
</tr>
</tbody>
</table>

Table 3-12 shows the Symantec Endpoint Protection firewall status reporting in WSC.

Table 3-12  WSC firewall status reporting

<table>
<thead>
<tr>
<th>Symantec product condition</th>
<th>Firewall status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symantec firewall is not installed</td>
<td>NOT FOUND (red)</td>
</tr>
<tr>
<td>Symantec firewall is installed and enabled</td>
<td>ON (green)</td>
</tr>
<tr>
<td>Symantec firewall is installed but not enabled</td>
<td>OFF (red)</td>
</tr>
<tr>
<td>Symantec firewall is not installed or enabled, but a third-party</td>
<td>ON (green)</td>
</tr>
<tr>
<td>firewall is installed and enabled</td>
<td></td>
</tr>
</tbody>
</table>

Note: In Symantec Endpoint Protection, the Windows Firewall is disabled by default.
If there is more than one firewall enabled, WSC reports that multiple firewalls are installed and enabled.

**About SONAR**

SONAR is a real-time protection that detects potentially malicious applications when they run on your computers. SONAR provides "zero-day" protection because it detects threats before traditional virus and spyware detection definitions have been created to address the threats.

SONAR uses heuristics as well as reputation data to detect emerging and unknown threats. SONAR provides an additional level of protection on your client computers and complements your existing Virus and Spyware Protection, intrusion prevention, and firewall protection.

SONAR uses a heuristics system that leverages Symantec’s online intelligence network with proactive local monitoring on your computer to detect emerging threats. SONAR also detects changes or behavior on your computer that you should monitor.

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**Note:** Auto-Protect also uses a type of heuristic that is called Bloodhound to detect suspicious behavior in files.

SONAR might inject some code into the applications that run in Windows user mode to monitor them for suspicious activity. In some cases, the injection might affect the application performance or cause problems with running the application. You can create an exception to exclude the file, folder, or application from this type of monitoring.

---

**Note:** SONAR does not inject code into applications on Symantec Endpoint Protection 12.1 or earlier clients. If you use Symantec Endpoint Protection Manager 12.1.2 to manage clients, a SONAR file exception in an Exceptions policy is ignored on your legacy clients. If you use a legacy Symantec Endpoint Protection Manager to manage clients, the legacy policy does not support SONAR file exceptions for your Symantec Endpoint Protection 12.1.2 clients. You can prevent SONAR code injection into applications on these clients, however, by creating an **Application to monitor** exception in the legacy policy. After the client learns the application, you can configure an application exception in the policy.

SONAR does not make detections on application type, but on how a process behaves. SONAR acts on an application only if that application behaves maliciously, regardless of its type. For example, if a Trojan horse or keylogger does not act maliciously, SONAR does not detect it.
SONAR detects the following items:

**Heuristic threats**
SONAR uses heuristics to determine if an unknown file behaves suspiciously and might be a high risk or low risk. It also uses reputation data to determine whether the threat is a high risk or low risk.

**System changes**
SONAR detects applications or the files that try to modify DNS settings or a host file on a client computer.

**Trusted applications that exhibit bad behavior**
Some good trusted files might be associated with suspicious behavior. SONAR detects these files as suspicious behavior events. For example, a well-known document sharing application might create executable files.

If you disable Auto-Protect, you limit SONAR’s ability to make detections of high and low risk files. If you disable Insight lookups (reputation queries), you also limit the SONAR’s detection capability.

See “Managing SONAR on your computer” on page 83.

See “Excluding items from scans” on page 68.

### Managing SONAR on your computer

You manage SONAR as part of Proactive Threat Protection. On managed clients, your administrator might lock some of the settings.

**Table 3-13**

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make sure that SONAR is enabled</td>
<td>For the best protection on your client computer, SONAR should be enabled. SONAR is enabled by default.</td>
</tr>
<tr>
<td></td>
<td>You enable SONAR by enabling Proactive Threat Protection.</td>
</tr>
<tr>
<td></td>
<td>See &quot;About enabling and disabling protection when you need to troubleshoot problems&quot; on page 113.</td>
</tr>
</tbody>
</table>
Table 3-13  Managing SONAR on your computer (continued)

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make sure that Insight lookups are enabled</td>
<td>SONAR uses reputation data in addition to heuristics to make detections. If you disable Insight lookups (reputation queries), SONAR makes detections by using heuristics only. The rate of false positives might increase, and the protection that SONAR provides is limited. See “Submitting information about detections to Symantec Security Response” on page 80.</td>
</tr>
<tr>
<td>Change SONAR settings</td>
<td>You can enable or disable SONAR. You can also change the detection action for some types of threats that SONAR detects. You might want to change the detection action to reduce false positive detections. See “Changing SONAR settings” on page 85.</td>
</tr>
<tr>
<td>Create exceptions for applications that you know are safe</td>
<td>SONAR might detect the files or the applications that you want to run on your computer. You can create SONAR exceptions for the files, folders, or applications on the Exceptions &gt; Change Settings page. You can also create an exception from the Quarantine. See “Excluding items from scans” on page 68.</td>
</tr>
<tr>
<td>Prevent SONAR from examining some applications</td>
<td>In some cases an application might become unstable or cannot run when SONAR injects code into the application to examine it. You can create a file or application exception for the application. See “Excluding items from scans” on page 68.</td>
</tr>
</tbody>
</table>

See “Managing scans on your computer” on page 39.

See “About the types of scans” on page 48.
Changing SONAR settings

You might want to change SONAR actions to reduce the rate of false positive detections. You can also change notifications for SONAR heuristic detections.

Note: On managed clients, your administrator might lock these settings.

To change SONAR settings

1. In the client, in the sidebar, click Change Settings.
2. Next to Proactive Threat Protection, click Configure Settings.
3. On the SONAR tab, change the actions for high risk or low risk heuristic threats.
   
   You can enable aggressive mode for low risk detections. This setting increases SONAR sensitivity to low risk detections. It might increase the false positive detections.
   
   You can also change the notification settings.
4. On the Suspicious Behavior Detection tab, change the action for high risk or low risk detections. SONAR makes these detections when trusted files are associated with suspicious behavior.
5. On the System Change Events tab, change the scan action for detections of changes to the DNS server settings or a host file.
6. Click OK.

See “Managing SONAR on your computer” on page 83.
Managing the firewall and intrusion prevention

This chapter includes the following topics:

■ Managing firewall protection
■ Managing firewall rules
■ Enabling or disabling firewall settings
■ Allowing or blocking running applications from accessing the network
■ Configuring an existing application-based firewall rule
■ Configuring the client to block traffic when the screensaver is active or the firewall does not run
■ Managing intrusion prevention
■ How intrusion prevention works
■ Enabling or disabling intrusion prevention
■ Configuring intrusion prevention notifications

Managing firewall protection

By default, the Symantec Endpoint Protection client provides an appropriate level of firewall protection that your computer needs. However, your administrator may have changed some of the default firewall rules and settings.

If your administrator has given you the ability to modify your firewall protection, you can modify the firewall rules or firewall settings.
Table 4-1 describes the firewall tasks you can perform to protect your computer. All of these tasks are optional and can be performed in any order.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read about how the firewall works</td>
<td>Learn how the firewall protects your computer from network attacks. See “How a firewall works” on page 88.</td>
</tr>
<tr>
<td>Add and customize firewall rules</td>
<td>You can add new firewall rules or edit existing firewall rules. For example, you might want to block an application that you do not want to run on your computer, such as an adware application. See “Managing firewall rules” on page 89. You can also configure a firewall rule to allow applications to access the network or prevent the applications from accessing the network. See “Configuring an existing application-based firewall rule” on page 101.</td>
</tr>
<tr>
<td>Configure firewall settings</td>
<td>In addition to creating firewall rules, you can also enable and configure firewall settings to further enhance your firewall protection. See “Enabling or disabling firewall settings” on page 96.</td>
</tr>
<tr>
<td>View firewall logs</td>
<td>You can regularly check the firewall protection status on your computer to determine the following: ■ The firewall rules that you created work correctly. ■ The client blocked any network attacks. ■ The client blocked any applications that you expected to run. You can use the Traffic Log and the Packet Log to check the firewall protection status. By default, the Packet log is disabled on managed clients. See “About the logs” on page 111. See “Enabling the packet log” on page 113.</td>
</tr>
</tbody>
</table>
Managing firewall protection (continued)

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
</table>
| Allow or block applications and certain types of traffic | For extra security, you can block network traffic from accessing your computer in the following situations.  
- You can block traffic when your computer's screensaver is on.  
- You can block traffic when the firewall does not run.  
- You can block all traffic at any time.  
  See “Configuring the client to block traffic when the screensaver is active or the firewall does not run” on page 102.  
- You can automatically allow or block, or ask you to allow or block access to the network by an application that runs on your computer. You can also configure  
  See “Allowing or blocking running applications from accessing the network” on page 100.  
  See “Configuring an existing application-based firewall rule” on page 101. |
| Enable or disable the firewall | You can disable Network Threat Protection temporarily for troubleshooting purposes. For example, you might need to disable it so that you can open a certain application.  
See “Enabling or disabling protection on the client computer” on page 115. |

How a firewall works

A firewall does all of the following tasks:

- Prevents any unauthorized users from accessing the computers and networks in your organization that connect to the Internet
- Monitors the communication between your computers and other computers on the Internet
- Creates a shield that allows or blocks attempts to access the information on your computer
- Warns you of connection attempts from other computers
- Warns you of connection attempts by the applications on your computer that connect to other computers

The firewall reviews the packets of data that travel across the Internet. A packet is a discrete unit of data that is part of the information flow between two computers. Packets are reassembled at their destination to appear as an unbroken data stream.

Packets include the following information about the data:

- The originating computer
- The intended recipient or recipients
How the packet data is processed

Ports that receive the packets

Ports are the channels that divide the stream of data that comes from the Internet. Applications that run on a computer listen to the ports. The applications accept the data that is sent to the ports.

Network attacks exploit weaknesses in vulnerable applications. Attackers use these weaknesses to send the packets that contain malicious programming code to ports. When vulnerable applications listen to the ports, the malicious code lets the attackers gain access to the computer.

See “Managing firewall protection” on page 86.

Managing firewall rules

Firewall rules control how the firewall protects computers from malicious incoming traffic and applications. The firewall checks all incoming packets and outgoing packets against the rules that you enable. It allows or blocks the packets based on the conditions that you specify in the firewall rule.

The Symantec Endpoint Protection client includes default firewall rules to protect your computer. However, you can modify the firewall rules for additional protection if your administrator permits it, or if your client is unmanaged.

Table 4-2 describes what you need to know to manage firewall rules.

Table 4-2 Managing firewall rules

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learn how firewall rules work and what makes up a firewall rule</td>
<td>Before you modify the firewall rules, you should understand the following information about how firewall rules work:</td>
</tr>
<tr>
<td></td>
<td>■ How to order rules to ensure that the most restrictive rules are evaluated first and the most general rules are evaluated last</td>
</tr>
<tr>
<td></td>
<td>See “About the firewall rule, firewall setting, and intrusion prevention processing order” on page 92.</td>
</tr>
<tr>
<td></td>
<td>■ That the client uses stateful inspection, which keeps track of the state of the network connections</td>
</tr>
<tr>
<td></td>
<td>See “How the firewall uses stateful inspection” on page 93.</td>
</tr>
<tr>
<td></td>
<td>■ The firewall components that make up the firewall rule</td>
</tr>
<tr>
<td></td>
<td>See “The elements of a firewall rule” on page 90.</td>
</tr>
</tbody>
</table>
Table 4-2 Managing firewall rules (continued)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add a new firewall rule</td>
<td>You can perform the following tasks to manage firewall rules:</td>
</tr>
<tr>
<td></td>
<td>■ Add your own rules to the rules that Symantec Endpoint Protection installs by default</td>
</tr>
<tr>
<td></td>
<td>See “Adding or changing a firewall rule” on page 93.</td>
</tr>
<tr>
<td></td>
<td>■ Customize a rule by changing any of the firewall rule criteria</td>
</tr>
<tr>
<td></td>
<td>■ Export and import firewall rules from another firewall policy</td>
</tr>
<tr>
<td></td>
<td>See “Exporting or importing firewall rules” on page 95.</td>
</tr>
<tr>
<td></td>
<td>■ Copy and paste firewall rules</td>
</tr>
<tr>
<td>Enable or disable a firewall rule</td>
<td>Firewall rules are automatically enabled. However, you may need to temporarily disable a firewall rule to test the rule. The firewall does not inspect disabled rules.</td>
</tr>
<tr>
<td></td>
<td>See “Enabling or disabling firewall rules” on page 95.</td>
</tr>
</tbody>
</table>

The elements of a firewall rule

When a computer attempts to connect to another computer, the firewall compares the connection type with the firewall rules. You can use triggers such as applications, hosts, and protocols to define the firewall rules. For example, a rule can identify a protocol in relation to a destination address. When the firewall evaluates the rule, all the triggers must be true for a positive match to occur. If any trigger is false for the current packet, the firewall does not apply the rule.

As soon as a packet triggers a firewall rule, the firewall evaluates no further firewall rules. If the packet triggers no rule, the firewall automatically blocks the packet and does not log the event.

A firewall rule describes the conditions in which a network connection may be allowed or blocked. For example, a rule may allow network traffic between remote port 80 and the IP address 192.58.74.0, between 9 A.M. and 5 P.M. daily.

Table 4-3 describes the criteria that you use to define a firewall rule.
Table 4-3  Firewall rule criteria

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
</tr>
</thead>
</table>
| Triggers  | ■ Applications  
When the application is the only trigger that you define in an allow traffic rule, the firewall allows the application to perform any network operation. The application is the significant value, not the network operations that the application performs. For example, suppose you allow Internet Explorer and define no other triggers. Users can access the remote sites that use HTTP, HTTPS, FTP, Gopher, and any other protocol that the Web browser supports. You can define additional triggers to describe the particular network protocols and hosts with which communication is allowed.  
■ Hosts  
The local host is always the local client computer and the remote host is always a remote computer that is positioned elsewhere on the network. This expression of the host relationship is independent of the direction of traffic. When you define host triggers, you specify the host on the remote side of the described network connection.  
■ Protocols  
A protocol trigger identifies one or more network protocols that are significant in relation to the described traffic.  
The local host computer always owns the local port, and the remote computer always owns the remote port. This expression of the port relationship is independent of the direction of traffic.  
■ Network adapters  
If you define a network adapter trigger, the rule is relevant only to the traffic that is transmitted or received by using the specified type of adapter. You can specify either any adapter or the one that is currently associated with the client computer.  
You can combine the trigger criteria to form more complex rules, such as to identify a particular protocol in relation to a specific destination address. When the firewall evaluates the rule, all the triggers must be true for a positive match to occur. If any one trigger is not true in relation to the current packet, the firewall does not apply the rule. |
| Conditions | ■ Schedule and screen saver state  
The conditional parameters do not describe an aspect of a network connection. Instead, the conditional parameters determine the active state of a rule. The conditional parameters are optional and if not defined, not significant. You may set up a schedule or identify a screen saver state that dictates when a rule is considered to be active or inactive. The firewall does not evaluate the inactive rules when the firewall receives packets. |
| Actions | ■ Allow or block, and log or do not log  
The action parameters specify what actions the firewall takes when it successfully matches a rule. If the rule is selected in response to a received packet, the firewall performs all actions. The firewall either allows or blocks the packet and logs or does not log the packet.  
If the firewall allows traffic, the traffic that the rule specifies can access your network.  
If the firewall blocks traffic, the traffic that the rule specifies cannot access your network. |

See “How the firewall uses stateful inspection” on page 93.
About the firewall rule, firewall setting, and intrusion prevention processing order

Firewall rules are ordered sequentially, from highest to lowest priority in the rules list. If the first rule does not specify how to handle a packet, the firewall inspects the second rule. This process continues until the firewall finds a match. After the firewall finds a match, the firewall takes the action that the rule specifies. Subsequent lower priority rules are not inspected. For example, if a rule that blocks all traffic is listed first, followed by a rule that allows all traffic, the client blocks all traffic.

You can order rules according to exclusivity. The most restrictive rules are evaluated first, and the most general rules are evaluated last. For example, you should place the rules that block traffic near the top of the rules list. The rules that are lower in the list might allow the traffic.

The best practices for creating a rule base include the following order of rules:

1st Rules that block all traffic.
2nd Rules that allow all traffic.
3rd Rules that allow or block specific computers.
4th Rules that allow or block specific applications, network services, and ports.

Table 4-4 shows the order in which the firewall processes the rules, firewall settings, and intrusion prevention settings.

<table>
<thead>
<tr>
<th>Priority</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>Custom IPS signatures</td>
</tr>
<tr>
<td>Second</td>
<td>Intrusion Prevention settings, traffic settings, and stealth settings</td>
</tr>
<tr>
<td>Third</td>
<td>Built-in rules</td>
</tr>
<tr>
<td>Fourth</td>
<td>Firewall rules</td>
</tr>
<tr>
<td>Fifth</td>
<td>Port scan checks</td>
</tr>
<tr>
<td>Sixth</td>
<td>IPS signatures that are downloaded through LiveUpdate</td>
</tr>
</tbody>
</table>

See “Changing the order of firewall rules” on page 94.
How the firewall uses stateful inspection

Firewall protection uses stateful inspection to track current connections. Stateful inspection tracks source and destination IP addresses, ports, applications, and other connection information. Before the client inspects the firewall rules, it makes the traffic flow decisions that are based on the connection information.

For example, if a firewall rule allows a computer to connect to a Web server, the firewall logs the connection information. When the server replies, the firewall discovers that a response from the Web server to the computer is expected. It permits the Web server traffic to flow to the initiating computer without inspecting the rule base. A rule must permit the initial outbound traffic before the firewall logs the connection.

Stateful inspection eliminates the need to create new rules. For the traffic that is initiated in one direction, you do not have to create the rules that permit the traffic in both directions. The client traffic that is initiated in one direction includes Telnet (port 23), HTTP (port 80), and HTTPS (port 443). The client computers initiate this outbound traffic; you create a rule that permits the outbound traffic for these protocols. Stateful inspection automatically permits the return traffic that responds to the outbound traffic. Because the firewall is stateful in nature, you only need to create the rules that initiate a connection, not the characteristics of a particular packet. All packets that belong to an allowed connection are implicitly allowed as being an integral part of that same connection.

Stateful inspection supports all rules that direct TCP traffic.

Stateful inspection does not support the rules that filter ICMP traffic. For ICMP traffic, you must create the rules that permit the traffic in both directions. For example, for the clients to use the ping command and receive replies, you must create a rule that permits ICMP traffic in both directions.

Adding or changing a firewall rule

When you add or change a firewall rule, you must decide what effect you want the rule to have. For example, you may want to allow all traffic from a particular source or block the UDP packets from a website.

Firewall rules are automatically enabled when you create them.
You can add or change firewall rules on unmanaged clients, or if the administrator grants client control to managed clients.

**To add a firewall rule**

1. In the client, in the sidebar, click **Status**.
2. Beside **Network Threat Protection**, click **Options > Configure Firewall Rules**.
3. In the **Configure Firewall Rules** dialog box, click **Add**.
4. On the **General** tab, type a name for the rule, and then click either **Block this traffic** or **Allow this traffic**.
5. To define the triggers for the rule, click on each tab and configure it as needed. See “The elements of a firewall rule” on page 90.
6. To define the time period when the rule is active or inactive, on the **Scheduling** tab, click **Enable Scheduling**, and then set up a schedule.
7. When you finish making changes, click **OK**.
8. Click **OK**.

**To change a firewall rule**

1. In the client, in the sidebar, click **Status**.
2. Beside **Network Threat Protection**, click **Options > Configure Firewall Rules**.
3. In the **Configure Firewall Rules** dialog box, click the rule you want to change, and then click **Edit**.
4. When you finish making changes, click **OK**.
5. Click **OK**.

See “Enabling or disabling firewall rules” on page 95.

**Changing the order of firewall rules**

The firewall processes the list of firewall rules from the top down. You can determine how the firewall processes firewall rules by changing their order.

If the Symantec Endpoint Protection client uses location switching, when you change the firewall rule order, the change affects the order for the current location only.

---

**Note:** For better protection, place the most restrictive rules first and the least restrictive rules last.

See “About the firewall rule, firewall setting, and intrusion prevention processing order” on page 92.
To change the order of a firewall rule
1 In the client, in the sidebar, click **Status**.
2 Beside **Network Threat Protection**, click **Options > Configure Firewall Rules**.
3 In the **Configure Firewall Rules** dialog box, select the rule that you want to move.
4 Do one of the following actions:
   - To have the firewall process this rule before the rule above it, click the up arrow.
   - To have the firewall process this rule after the rule below it, click the down arrow.
5 When you finish moving rules, click **OK**.

Enabling or disabling firewall rules

You must enable rules so that the firewall can process them. When you add firewall rules, they are automatically enabled.

You can disable a firewall rule if you need to allow specific access to a computer or application or for troubleshooting purposes.

To enable or disable firewall rules
1 In the client, in the sidebar, click **Status**.
2 Beside **Network Threat Protection**, click **Options > Configure Firewall Rules**.
3 In the **Configure Firewall Rules** dialog box, in the **Rule Name** column, check or uncheck the check box beside the rule that you want to enable or disable.
4 Click **OK**.
See “Adding or changing a firewall rule” on page 93.

Exporting or importing firewall rules

You can share the rules with another client so that you do not have to recreate them. You can export the rules from another computer and import them into your computer. When you import rules, they are added to the bottom of the firewall rules list. Imported rules do not overwrite existing rules, even if an imported rule is identical to an existing rule.

The exported rules and imported rules are saved in a .sar file.
To export firewall rules
1 In the client, in the sidebar, click **Status**.
2 Beside Network Threat Protection, click **Options > Configure Firewall Rules**.
3 In the **Configure Firewall Rules** dialog box, select the rules you want to export.
4 Right-click the rules, and then click **Export Selected Rules**.
5 In the **Export** dialog box, type a file name, and then click **Save**.
6 Click **OK**.

To import firewall rules
1 In the client, in the sidebar, click **Status**.
2 Beside Network Threat Protection, click **Options > Configure Firewall Rules**.
3 In the **Configure Firewall Rules** dialog box, right-click the firewall rules list, and then click **Import Rule**.
4 In the **Import** dialog box, locate the .sar file that contains the rules you want to import.
5 Click **Open**.
6 Click **OK**.

See “Adding or changing a firewall rule” on page 93.

**Enabling or disabling firewall settings**

You can enable the client’s firewall settings to protect your computer against certain types of network attacks. Some of the settings replace the firewall rules that you would otherwise need to add.

**Note:** Your administrator may not have made some of these settings available for you to configure.

Table 4-5 describes the types of firewall settings that you can configure to further customize your firewall protection.
Table 4-5  Firewall settings

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in rules for essential network services</td>
<td>Symantec Endpoint Protection provides the built-in rules that allow for the normal exchange of certain essential network services. Built-in rules eliminate the need to create the firewall rules that explicitly allow those services. During processing, these built-in rules are evaluated before firewall rules so that the packets that match an active occurrence of a built-in rule are allowed. You can define built-in rules for DHCP, DNS, and WINS services.</td>
</tr>
<tr>
<td>Traffic and stealth web browsing</td>
<td>You can enable various traffic settings and stealth web browsing settings to protect against certain types of network attacks on the client. You can enable traffic settings to detect and block the traffic that communicates through drivers, NetBIOS, and token rings. You can configure settings to detect the traffic that uses more invisible attacks. You can also control the behavior for the IP traffic that does not match any firewall rules.</td>
</tr>
<tr>
<td>Network file and printer sharing</td>
<td>You can enable the client to either share its files or to browse for shared files and printers on your local network. To prevent network-based attacks, you can disable network file and printer sharing. See “Enabling network file and printer sharing” on page 98.</td>
</tr>
<tr>
<td>Attack detection and blocking</td>
<td>When the Symantec Endpoint Protection client detects a network attack, it can automatically block the connection to ensure that the client computer is safe. The client then automatically blocks all communication to and from the IP address of the attacking computer for a period of time. The IP address of the attacking computer is blocked for a single location.</td>
</tr>
<tr>
<td>Inbound traffic control</td>
<td>You can configure the client to block inbound traffic and outbound traffic in the following situations:</td>
</tr>
<tr>
<td></td>
<td>■ When your computer's screensaver is activated.</td>
</tr>
<tr>
<td></td>
<td>■ When the firewall does not run.</td>
</tr>
<tr>
<td></td>
<td>■ When you want to block all inbound traffic and outbound traffic at any time.</td>
</tr>
<tr>
<td></td>
<td>See “Configuring the client to block traffic when the screensaver is active or the firewall does not run” on page 102.</td>
</tr>
</tbody>
</table>

To enable or disable firewall settings

1. In the client, click **Change Settings**.
2. Beside **Network Threat Protection**, click **Configure Settings**.
3. On the **Firewall** tab, check the settings that you want to enable.
   - Click **Help** for more information on the settings.
4. Click **OK**.
Enabling network file and printer sharing

You can enable the client to either share its files or to browse for shared files and printers on your local network. To prevent network-based attacks, you can disable network file and printer sharing.

Table 4-6 Ways to enable network file and print sharing

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
</table>
| Automatically enable the network file and printer sharing settings  | If a firewall rule blocks this traffic, the firewall rule takes priority over the settings.  
                                                                      | See “To automatically enable network file and printer sharing” on page 98.                                                                 |
| on the Microsoft Windows Networking tab.                             |                                                                                                                                               |
| Manually enable network file and printer sharing by adding firewall  | You can add the firewall rules if you want more flexibility than what the settings provide. For example, when you create a rule, you can specify a particular host rather than all hosts.  
                                                                      | The firewall rules allow access to the ports to browse and share files and printers.  
                                                                      | You can create one set of firewall rules so that the client can share its files. You create a second set of firewall rules so that the client can browse for other files and printers.  
                                                                      | See “To manually enable files and printer browsing” on page 99.  
                                                                      | See “To manually enable other computers to browse files on the client computer” on page 99. |

To automatically enable network file and printer sharing

1. In the client, in the sidebar, click Change settings.
3. On the Microsoft Windows Networking tab under Settings, click the drop-down menu and select the adapter to which these settings apply.
4. To browse other computers and printers in the network, click Browse files and printers on the network.
To enable other computers to browse files on your computer, click **Share my files and printers with others on the network**.

Click **OK**.

**To manually enable files and printer browsing**

1. In the client, in the sidebar, click **Status**.
2. Beside **Network Threat Protection**, click **Options > Configure Firewall Rules**.
3. In the **Configure Firewall Rules** dialog box, click **Add**.
4. On the **General** tab, type a name for the rule and click **Allow this traffic**.
5. On the **Ports and Protocols** tab, in the **Protocol** drop-down list, click **TCP**.
6. In the **Remote ports** drop-down list, type the following:
   - 88, 135, 139, 445
7. Click **OK**.
8. In the **Configure Firewall Rules** dialog box, click **Add**.
9. On the **General** tab, type a name for the rule and click **Allow this traffic**.
10. On the **Ports and Protocols** tab, in the **Protocol** drop-down list, click **UDP**.
11. In the **Remote ports** drop-down list, type the following:
    - 88
12. In the **Local ports** drop-down list, type the following:
    - 137, 138
13. Click **OK**.

**To manually enable other computers to browse files on the client computer**

1. In the client, in the sidebar, click **Status**.
2. Beside **Network Threat Protection**, click **Options > Configure Firewall Rules**.
3. In the **Configure Firewall Rules** dialog box, click **Add**.
4. On the **General** tab, type a name for the rule and click **Allow this traffic**.
5. On the **Ports and Protocols** tab, in the **Protocol** drop-down list, click **TCP**.
6. In the **Local ports** drop-down list, type the following:
   - 88, 135, 139, 445
7. Click **OK**.
8. In the **Configure Firewall Rules** dialog box, click **Add**.
9. On the **General** tab, type a name for the rule and click **Allow this traffic**.
10 On the Ports and Protocols tab, in the Protocol drop-down list, click UDP.

11 In the Local ports drop-down list, type the following:
88, 137, 138

12 Click OK.

See “Enabling or disabling firewall settings” on page 96.

Allowing or blocking running applications from accessing the network

You can configure Symantec Endpoint Protection to allow or block the application, or to ask you first whether to allow or block the application. This action creates a firewall rule that specifies whether a running application on your computer may access the network. These rules are called application-based firewall rules. For example, you can block Internet Explorer from accessing any websites from your computer.

Table 4-7 Actions that the firewall takes when applications access the client or network

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allow</td>
<td>Allows the inbound traffic to access the client computer and the outbound traffic to access the network. If the client receives traffic, the icon displays a small blue dot in the lower left-hand corner. If the client sends traffic, the icon displays the dot in the lower right-hand corner.</td>
</tr>
<tr>
<td>Block</td>
<td>Blocks the inbound traffic and the outbound traffic from accessing the network or an Internet connection.</td>
</tr>
<tr>
<td>Ask</td>
<td>Asks you whether you want the application to access the network the next time you attempt to run the application.</td>
</tr>
<tr>
<td>Terminate</td>
<td>Stops the process.</td>
</tr>
</tbody>
</table>

To allow or block a running application from accessing the network

1 In the client, in the sidebar, click Status.

2 Beside Network Threat Protection, click Options > View Network Activity.
In the **Network Activity** dialog box, right-click the running application or service, and then select the action that you want the client to take on that application. If you click **Allow**, **Block**, or **Ask**, you create a firewall rule for that application only.

See “Configuring an existing application-based firewall rule” on page 101.

Click **Close**.

---

**Configuring an existing application-based firewall rule**

After you create an application-based firewall rule, you can configure the conditions for when and how the application is allowed or blocked. For example, you can specify that a video game application can access the network only during specific hours. Application-based firewall rules are also called application settings.

See “Allowing or blocking running applications from accessing the network” on page 100.

---

**Note**: If there is a conflict between a firewall rule and an application-based firewall rule, the firewall rule takes precedence. For example, a firewall rule that blocks all traffic between 1:00 A.M. and 8:00 A.M. overrides an application-rule that allows iexplore.exe to run at all times.

---

To configure an existing application-based firewall rule

1 In the client, in the sidebar, click **Status**.

2 Beside **Network Threat Protection**, click **Options > View Application Settings**.

3 In the **View Application Settings** dialog box, you can change the action by right-clicking the application and clicking **Allow**, **Ask**, or **Block**.

4 To change other options about the application-based rule, click **Configure**.

5 In the **Configure Application Settings** dialog box, configure the restrictions or exceptions for this application.

   If the action is set to **Allow** in step 3, any settings that you configure are restrictions to the rule. If you clicked **Block**, the settings that you configure are exceptions to the rule.

   For more information about these settings, click **Help**.

6 Click **OK** to accept the configuration changes.
To remove the rule that you put on the application, click the application name, and then click **Remove**. When you remove the restrictions, the action that the client takes on the application is also erased. When the application or the service tries to connect to the network again, you may be asked again whether to allow or block the application.

To remove all application-based firewall rules, **Remove All**.

Click **OK** to close the **View Application Settings** dialog box.

See “Adding or changing a firewall rule” on page 93.

---

### Configuring the client to block traffic when the screensaver is active or the firewall does not run

You can configure your computer to block inbound traffic and outbound traffic in the following situations:

- **When your computer’s screensaver is activated**
  - You can configure your computer to block all the inbound and the outbound network neighborhood traffic when your computer’s screensaver is activated. As soon as the screensaver turns off, your computer returns to the previously assigned security level.
  
  See “To block traffic when the screensaver is activated” on page 103.

- **When the firewall does not run**
  - The computer is unprotected after the computer starts and before the firewall service starts or after the firewall service stops and the computer turns off. This time frame is a security hole that can allow unauthorized communication.
  
  See “To block traffic when the firewall does not run” on page 103.

- **When you want to block all inbound traffic and outbound traffic at any time**
  - You may want to block all traffic when a particularly destructive virus attacks your company’s network or subnet. You would not block all traffic under normal circumstances.

  **Note**: Your administrator may have configured this option to be unavailable. You cannot block all traffic on an unmanaged client.

  See “To block all traffic at any time” on page 103.

You can allow all traffic by disabling Network Threat Protection.

See “Enabling or disabling protection on the client computer” on page 115.
To block traffic when the screensaver is activated
1 In the client, in the sidebar, click Change settings.
2 Beside Network Threat Protection, click Configure Settings.
3 On the Microsoft Windows Networking tab under Screen Saver Mode, click Block Microsoft Windows Networking traffic while the screen saver runs.
4 Click OK.

To block traffic when the firewall does not run
1 In the client, in the sidebar, click Change settings.
2 Beside Network Threat Protection, click Configure Settings.
3 On the Firewall tab under Traffic Settings, click Block all traffic until the firewall starts and after the firewall stops.
   If you disable Allow initial DHCP and NetBIOS traffic, the initial traffic that enables network connectivity is blocked.
4 Click OK.

To block all traffic at any time
1 In the client, in the sidebar, click Status.
2 Beside Network Threat Protection, click Options > View Network Activity.
3 Click Tools > Block All Traffic.
4 To confirm, click Yes.
5 To return to the previous firewall settings that the client uses, uncheck Tools > Block All Traffic.

See “Enabling or disabling firewall settings” on page 96.

Managing intrusion prevention

You manage intrusion prevention as part of Network Threat Protection.

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learn about intrusion prevention</td>
<td>Learn how intrusion prevention detects and blocks network and browser attacks.</td>
</tr>
<tr>
<td></td>
<td>See “How intrusion prevention works” on page 104.</td>
</tr>
</tbody>
</table>
Table 4-8 Managing intrusion prevention (continued)

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
</table>
| Download the latest IPS signatures          | By default, the latest signatures are downloaded to the client. However you might want to download the signatures manually immediately.  
See “Updating the client content using LiveUpdate” on page 22.                                                                 |
| Enable or disable intrusion prevention      | You might want to disable intrusion prevention for troubleshooting purposes or if client computers detect an excessive number of false positives.  
Typically, you should not disable intrusion prevention.  
You can enable or disable the following types of intrusion prevention:  
■ Network intrusion prevention  
■ Browser intrusion prevention  
See “Enabling or disabling intrusion prevention” on page 105.  
You can also enable or disable intrusion prevention when you enable or disable Network Threat Protection.  
See “About enabling and disabling protection when you need to troubleshoot problems” on page 113. |
| Configure intrusion prevention notifications | You can configure notifications to appear when Symantec Endpoint Protection detects an intrusion.  
See “Configuring intrusion prevention notifications” on page 106.                                                                 |

How intrusion prevention works

Intrusion prevention is part of Network Threat Protection.

Intrusion prevention automatically detects and blocks network attacks and attacks on browsers. Intrusion prevention is the second layer of defense after the firewall to protect client computers. Intrusion prevention is sometimes called the intrusion prevention system (IPS).

Intrusion prevention intercepts data at the network layer. It uses signatures to scan packets or streams of packets. It scans each packet individually by looking for the
patterns that correspond to network attacks or browser attacks. Intrusion prevention detects attacks on operating system components and the application layer.

### Table 4-9  Types of intrusion prevention

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network intrusion prevention</td>
<td>Network intrusion prevention uses signatures to identify attacks on client computers. For known attacks, intrusion prevention automatically discards the packets that match the signatures. You cannot create custom signatures on the client. But you can import the custom signatures that you or your administrator created in Symantec Endpoint Protection Manager.</td>
</tr>
<tr>
<td>Browser intrusion prevention</td>
<td>Browser intrusion prevention monitors attacks on Internet Explorer and Firefox. Browser intrusion prevention is not supported on any other browsers. Firefox might disable the Symantec Endpoint Protection plug-in, but you can turn it back on. This type of intrusion prevention uses attack signatures as well as heuristics to identify attacks on browsers. For some browser attacks, intrusion prevention requires that the client terminate the browser. A notification appears on the client computer. See the following knowledge base article for the latest information about the browsers that browser intrusion prevention protects: <a href="#">Supported browser versions for browser intrusion prevention</a>.</td>
</tr>
</tbody>
</table>

See “Managing intrusion prevention” on page 103.

### Enabling or disabling intrusion prevention

Typically, when you disable intrusion prevention on your computer, your computer is less secure. However, you might want to disable these settings to prevent false positives or to troubleshoot your computer.

Symantec Endpoint Protection logs intrusion attempts and events in the Security log. Symantec Endpoint Protection might also log intrusion events in the Packet log if your administrator configured it to do so.

See “Managing intrusion prevention” on page 103.

See “Viewing the logs” on page 112.

You can enable or disable two types of intrusion prevention:

- Network intrusion prevention
- Browser intrusion prevention
To enable or disable intrusion prevention settings

1. In the client, in the sidebar, click **Change settings**.
2. Beside **Network Threat Protection**, click **Configure Settings**.
3. On the **Intrusion Prevention** tab, check or uncheck either of the following settings:
   - **Enable Network Intrusion Prevention**
   - **Enable Browser Intrusion Prevention**
   
   For more information on the settings, click **Help**.

4. Click **OK**.

Configuring intrusion prevention notifications

You can configure notifications to appear when the client detects a network attack on your computer or when the client blocks an application from accessing your computer. You can set the length of time that these notifications appear and whether you hear a beep when the notification appears. You must enable the intrusion prevention system for the intrusion prevention notifications to appear.

**Note:** Your administrator may have configured these options to be unavailable.

See “Managing intrusion prevention” on page 103.

To configure intrusion prevention notifications

1. In the client, in the sidebar, click **Change settings**.
2. Beside **Network Threat Protection**, click **Configure Settings**.
3. In the **Network Threat Protection Settings** dialog box, click **Notifications**.
4. Check **Display Intrusion Prevention notifications**.
5. To configure a beep to sound when the notification appears, check **Use sound when notifying users**.
6. Click **OK**.
Managing and troubleshooting the client

This chapter includes the following topics:

■ Modifying protection on your computer
■ Manually updating policies on the client
■ Hiding and displaying the notification area icon
■ Troubleshooting computer issues with the Symantec Help support tool
■ About the logs
■ Viewing the logs
■ About enabling and disabling protection when you need to troubleshoot problems
■ Enabling or disabling protection on the client computer

Modifying protection on your computer

By default, your client computer is protected and you should not need to configure the client. However, you may want to modify your protection for the following reasons:

■ Your computer runs an unmanaged client.
  Once an unmanaged client is installed, only you have control over your computer’s protection. An unmanaged client is protected by default, but you may need to modify the computer’s protection settings.
  See “About managed clients and unmanaged clients” on page 24.
  See “Checking whether the client is managed or unmanaged” on page 26.
You want to enable or disable one or more protection technologies. See “Enabling or disabling protection on the client computer” on page 115.

You want to verify that you have the latest virus definitions and security content.

You have heard of a recent virus or security threat and want to run a scan.

Table 5-1  Tasks to manage computer’s protection

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respond to alerts or notifications</td>
<td>Respond to messages that appear, asking you for input. For example, a scan might detect a virus or security risk and display the scan results that ask you to act on the detection. See “Types of alerts and notifications” on page 27.</td>
</tr>
<tr>
<td>Check the protection status</td>
<td>Regularly check the Status page to determine that all the types of protections are enabled.</td>
</tr>
<tr>
<td></td>
<td>See “Enabling or disabling protection on the client computer” on page 115.</td>
</tr>
<tr>
<td></td>
<td>See “How to determine whether the client computer is connected and protected” on page 16.</td>
</tr>
<tr>
<td>Update virus definitions and security content</td>
<td>Check that the computer has the latest virus definitions and security content.</td>
</tr>
<tr>
<td></td>
<td>❘ Check whether you have the latest protection updates. You can check the date and number of these definitions files on the client’s Status page, under each type of protection.</td>
</tr>
<tr>
<td></td>
<td>❘ Obtain the latest protection updates.</td>
</tr>
<tr>
<td></td>
<td>See “Updating the client content using LiveUpdate” on page 22.</td>
</tr>
<tr>
<td></td>
<td>You can perform these tasks on a managed client if your administrator allows it.</td>
</tr>
<tr>
<td>Scan your computer</td>
<td>Run a scan to see if the computer or your email application has any viruses. By default, the client scans the computer when you turn it on, but you can scan the computer at any time.</td>
</tr>
<tr>
<td></td>
<td>See “Scanning your computer immediately” on page 18.</td>
</tr>
</tbody>
</table>
### Table 5-1  Tasks to manage computer's protection (continued)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
</table>
| Adjust protection settings | In most cases, the default settings provide adequate protection for your computer. If necessary, you can decrease or increase the following types of protection:  
  - Schedule additional scans  
    See “Managing scans on your computer” on page 39.  
  - Add firewall rules (unmanaged client only)  
    See “Managing firewall protection” on page 86. |
| Run a compliance check | Check whether your computer is compliant with your company's security policy.  
  See “Running a Host Integrity check” on page 20. |
| View logs for detections or attacks | Check the logs to see if your client has detected a virus or network attack.  
  See “Viewing the logs” on page 112. |
| Update the security policy (Managed client only) | Check that the client received the latest security policy from a management server. A security policy includes the most current protection technology settings for your client.  
  See “How to determine whether the client computer is connected and protected” on page 16.  
  The security policy is updated automatically. However, to ensure that you have the latest policy, you can update it manually.  
  See “Manually updating policies on the client” on page 109. |

---

### Manually updating policies on the client

You can manually update the policies on the client computer if you do not think you have the latest policy on the client. If the client does not receive the update, there might be a communication problem.

Check the policy serial number to check whether your managed client computers can communicate with the management server.

To manually update policies on the client

1. In the client, click **Help > Troubleshooting**.
2. In the **Troubleshooting** dialog box, in the left column, click **Management**.
3. On the **Management** panel, under **Policy Profile**, click **Update**.
Hiding and displaying the notification area icon

You can hide the notification area icon if necessary. For example, you can hide it if you need more space on the Windows taskbar.

See “How to determine whether the client computer is connected and protected” on page 16.

Note: On managed clients, you cannot hide the notification area icon if your administrator has restricted this functionality.

To hide or display the notification area icon
1 In the client, click Change settings.
2 On the Change Settings page, for Client Management, click Configure Settings.
3 In the Client Management Settings dialog box, on the General tab, under Display Options, uncheck or check Show Symantec security icon in notification area.
4 Click OK.

Troubleshooting computer issues with the Symantec Help support tool

You can download a utility to diagnose common issues you encounter with installing and using the Symantec Endpoint Protection client.

The support tool helps you with the following issues:

■ Lets you quickly and accurately identify known issues.
■ When the tool recognizes an issue, the tool redirects you to the resources to resolve the issue yourself.
■ When an issue is not resolved, the tool lets you easily submit data to Support for further diagnostics.

To troubleshoot computer issues with the Symantec Help support tool
1 Do one of the following tasks:
   ■ See the knowledge base article: Symantec Help (SymHelp)
   ■ In the client, click Help > Download Symantec Help Tool
2 Follow the on-screen instructions.
About the logs

Logs contain information about client configuration changes, security-related activities, and errors. These records are called events.

Security-related activities include information about virus detections, computer status, and the traffic that enters or exits your computer. If you use a managed client, its logs can be regularly uploaded to the management server. An administrator can use their data to analyze the overall security status of the network.

Logs are an important method for tracking your computer's activity and its interaction with other computers and networks. You can use the information in the logs to track the trends that relate to viruses, security risks, and attacks on your computer.

For more information about a log, you can press F1 to view the help for that log.

Table 5-2  Client logs

<table>
<thead>
<tr>
<th>Log</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Log</td>
<td>Contains the information about the Windows registry keys, files, and DLLs that an application accesses, as well as the applications that your computer runs.</td>
</tr>
<tr>
<td>Debug Log</td>
<td>Contains the information about the client, scans, and the firewall for troubleshooting purposes. Your administrator may ask you to enable or configure the logs and then export them.</td>
</tr>
<tr>
<td>Packet Log</td>
<td>Contains the information about the packets of data that enter or leave through the ports on your computer.</td>
</tr>
</tbody>
</table>

By default, the packet log is disabled. On a managed client, you cannot enable the packet log unless your administrator allows it. On an unmanaged client, you can enable the packet log. See “Enabling the packet log” on page 113.

<table>
<thead>
<tr>
<th>Risk Log</th>
<th>Contains the entries about viruses and security risks, such as adware and spyware, which have infected your computer. Security risks include a link to the Symantec Security Response webpage that provides additional information.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>See “Quarantining a file manually” on page 74.</td>
</tr>
<tr>
<td>Scan Log</td>
<td>Contains the entries about the scans that have run on your computer over time.</td>
</tr>
<tr>
<td>Security Log</td>
<td>Contains the information about the activities that can pose a threat to your computer. For example, information might appear about such activities as denial-of-service attacks, port scans, and executable file alterations.</td>
</tr>
</tbody>
</table>

The Security log also displays the results of a Host Integrity check.
Table 5-2  Client logs (continued)

<table>
<thead>
<tr>
<th>Log</th>
<th>Description</th>
</tr>
</thead>
</table>
| System Log                 | ■ Virus and Spyware Protection: Contains the information about system activities on your computer that are related to viruses and to security risks. This information includes configuration changes, errors, and definitions file information.  
■ Proactive Threat Protection: Contains the information about system activities on your computer that are related to SONAR.  
■ Client Management: Contains the information about all of the operational changes that have occurred on your computer.  
  The changes might include the following activities:  
  ■ A service starts or stops  
  ■ The computer detects network applications  
  ■ The software is configured |
| Tamper Protection Log      | Contains the entries about the attempts to tamper with the Symantec applications on your computer. These entries contain information about the attempts that Tamper Protection detected or detected and thwarted. |
| Threat Log                 | Contains the information about the threats that SONAR detected on your computer. SONAR detects any files that act suspiciously. SONAR also detects system changes.                                                |
| Traffic Log                | Contains the events that concern firewall traffic and intrusion prevention attacks. The log contains information about the connections that your computer makes through the network.  
  With Risk Tracer enabled, the Network Threat Protection logs can help you trace traffic back to its source, and troubleshoot possible network attacks. The logs can tell you when your computer has been blocked from the network and help you to determine why your access has been blocked.  
  For more information, see What is Risk Tracer? |

See “Viewing the logs” on page 112.

**Viewing the logs**

You can view the logs on your computer to see the details of the events that have occurred.

**To view a log**

1. In the client, in the sidebar, click View Logs.
2. Click View Logs next to one of the following items:
   - Virus and Spyware Protection
   - Proactive Threat Protection
■ **Network Threat Protection**
■ **Client Management**
■ **Network Access Control**

Some items might not appear, depending on your installation.

3 In the drop-down menu, select the log that you want to view.

See “About the logs” on page 111.

### Enabling the packet log

All Network Threat Protection logs and Client Management logs are enabled by default, except for the packet log. On unmanaged clients, you can enable and disable the packet log.

On managed clients, your administrator might let you enable or disable the packet log.

See “About the logs” on page 111.

**To enable the packet log**

1 In the client, on the **Status** page, to the right of Network Threat Protection, click **Options**, and then click **Change Settings**.

2 In the **Network Threat Protection Settings** dialog box, click **Logs**.

3 Check **Enable Packet Log**.

4 Click **OK**.

### About enabling and disabling protection when you need to troubleshoot problems

In general, you always want to keep the protection technologies enabled on a client computer.

You might need to temporarily disable either all the protection technologies or individual protection technologies if you have a problem with the client computer. For example, if an application does not run or does not run correctly, you might want to disable Network Threat Protection. If you still have the problem after you disable all protection technologies, completely uninstall the client. If the problem persists, you know that the problem is not due to Symantec Endpoint Protection.
Warning: Be sure to enable again any of the protections when you have completed your troubleshooting task to ensure that the computer remains protected.

Table 5-3 describes the reasons why you might want to disable each protection technology.

<table>
<thead>
<tr>
<th>Protection technology</th>
<th>Purpose for disabling the protection technology</th>
</tr>
</thead>
</table>
| Virus and Spyware Protection| If you disable this protection, you disable Auto-Protect only.                                                                                                      
**Note:** If you disable Auto-Protect, you also disable Download Insight, even if Download Insight is enabled. SONAR also cannot detect heuristic threats. SONAR detection of host file and system changes continues to function. |
|                             | The scheduled or startup scans still run if you or your administrator has configured them to do so.                                                                                                                   |
|                             | You might enable or disable Auto-Protect for the following reasons:                                                                                                           |
|                             | ■ Auto-Protect might block you from opening a document. For example, if you open a Microsoft Word that has a macro, Auto-Protect may not let you open it. If you know the document is safe, you can disable Auto-Protect. |
|                             | ■ Auto-Protect may warn you about a virus-like activity that you know is not the work of a virus. For example, you might get a warning when you install new computer applications. If you plan to install more applications and you want to avoid the warning, you can temporarily disable Auto-Protect. |
|                             | ■ Auto-Protect may interfere with Windows driver replacement.                                                                                                                  |
|                             | ■ Auto-Protect might slow down the client computer.                                                                                                                            |
|                             | See “Enabling or disabling Auto-Protect” on page 116.                                                                                                                        |
|                             | If Auto-Protect causes a problem with an application, it is better to create an exception than to permanently disable the protection.                                                  |
|                             | See “Excluding items from scans” on page 68.                                                                                                                                       |
| Proactive Threat Protection | You might want to disable Proactive Threat Protection for the following reasons:                                                                                                      |
|                             | ■ You see too many warnings about the threats that you know are not threats.                                                                                                        |
|                             | ■ Proactive Threat Protection might slow down the client computer.                                                                                                                  |
|                             | See “Enabling or disabling protection on the client computer” on page 115.                                                                                                       |
## Table 5-3
Purpose for disabling a protection technology *(continued)*

<table>
<thead>
<tr>
<th>Protection technology</th>
<th>Purpose for disabling the protection technology</th>
</tr>
</thead>
</table>
| Network Threat Protection | You might want to disable Network Threat Protection for the following reasons:  
  - You install an application that might cause the firewall to block it.  
  - A firewall rule or firewall setting blocks an application due to an administrator's mistake.  
  - The firewall or the Intrusion Prevention System causes network connectivity-related issues.  
  - The firewall might slow down the client computer.  
  - You cannot open an application.  
  If you are not sure that Network Threat Protection causes the problem, you might need to disable all the protection technologies.  
On a managed client, your administrator might lock Network Threat Protection completely so that you cannot enable or disable it.  
See “Enabling or disabling intrusion prevention” on page 105.  
See “Enabling or disabling protection on the client computer” on page 115. |
| Tamper Protection | Typically, you should keep Tamper Protection enabled.  
You might want to disable Tamper Protection temporarily if you get an extensive number of false positive detections. For example, some third-party applications might make the changes that inadvertently try to modify Symantec settings or processes. If you are sure that an application is safe, you can create a Tamper Protection exception for the application.  
See “Enabling, disabling, or configuring Tamper Protection” on page 118. |

## Enabling or disabling protection on the client computer

For troubleshooting purposes, you may need to disable Auto-Protect, Proactive Threat Protection, or Network Threat Protection.

On the client, when any of the protections are disabled:

- The status bar is red at the top of the **Status** page.
- The client's icon appears with a universal no sign, a red circle with a diagonal slash. The client icon appears as a full shield in the taskbar in the lower-right corner of your Windows desktop. In some configurations, the icon does not appear.  
  See “How to determine whether the client computer is connected and protected” on page 16.
On a managed client, your administrator can enable or disable a protection technology at any time. If you disable a protection, your administrator may later enable the protection again. Your administrator might also lock a protection so that you cannot disable it.

**Warning:** Symantec recommends that you only disable Auto-Protect temporarily if you need to troubleshoot the client computer.

**To enable protection technologies from the Status page**
- On the client, at the top of the **Status** page, click **Fix** or **Fix All**.

**To enable or disable protection technologies from the taskbar**
- On the Windows desktop, in the notification area, right-click the client icon, and then do one of the following actions:
  - Click **Enable Symantec Endpoint Protection**.
  - Click **Disable Symantec Endpoint Protection**.

**To enable or disable protection technologies from within the client**
- In the client, on the **Status** page, beside **protection type** Protection, do one of the following tasks:
  - Click **Options** > **Enable protection type** Protection.
  - Click **Options** > **Disable all protection type** Protection features.

**To enable or disable the firewall**
1. On the client, at the top of the **Status** page, next to **Network Threat Protection**, click **Options** > **Change Settings**.
2. On the **Firewall** tab, check or uncheck **Enable Firewall**.
3. Click **OK**.

See “About enabling and disabling protection when you need to troubleshoot problems” on page 113.

See “Enabling or disabling Auto-Protect” on page 116.

**Enabling or disabling Auto-Protect**

You can enable or disable Auto-Protect for files and processes, Internet email, and email groupware applications. When any type of Auto-Protect is disabled, the virus and spyware status appears red on the Status page.
On a managed client, your administrator might lock Auto-Protect so that you cannot disable it. Also, your administrator might specify that you can disable Auto-Protect temporarily, but that Auto-Protect turns on automatically after a specified amount of time.

**Note:** If you disable Auto-Protect, you also disable Download Insight even if Download Insight is enabled. SONAR also cannot detect heuristic threats; however, SONAR continues to detect host file and system changes.

**Warning:** Symantec recommends that if you need to troubleshoot Auto-Protect on the client computer, you only disable it temporarily.

To enable or disable Auto-Protect for the file system

- In the client, on the **Status** page, next to **Virus and Spyware Protection**, do one of the following actions:
  - Click **Options > Enable Virus and Spyware Protection**.
  - Click **Options > Disable all Virus and Spyware Protection features**.

To enable or disable Auto-Protect for email

1. In the client, in the sidebar, click **Change Settings**.
2. Next to **Virus and Spyware Protection**, click **Configure Settings**.
3. Do one of the following actions:
   - On the **Internet Email Auto-Protect** tab, check or uncheck **Enable Internet Email Auto-Protect**.
   - On the **Outlook Auto-Protect** tab, check or uncheck **Enable Microsoft Outlook Auto-Protect**.
   - On the **Notes Auto-Protect** tab, check or uncheck **Enable Lotus Notes Auto-Protect**.

   Internet Email Auto-Protect is not supported on server operating systems. Microsoft Outlook Auto-Protect is automatically installed on the computers that run Outlook.

4. Click **OK**.

See “About the types of Auto-Protect” on page 50.

See “How to determine whether the client computer is protected using the Status page icons” on page 17.
See “About enabling and disabling protection when you need to troubleshoot problems” on page 113.

Enabling, disabling, or configuring Tamper Protection

Tamper Protection provides real-time protection for Symantec applications that run on servers and clients. It prevents threats and security risks from tampering with Symantec resources. You can enable or disable Tamper Protection. You can also configure the action that Tamper Protection takes when it detects a tampering attempt on the Symantec resources on your computer.

By default, Tamper Protection is set to **Block and do not log**.

---

**Note:** On a managed client, your administrator might lock the Tamper Protection settings.

---

See “About enabling and disabling protection when you need to troubleshoot problems” on page 113.

To enable or disable Tamper Protection

1. In the client, in the sidebar, click **Change settings**.
2. Next to **Client Management**, click **Configure Settings**.
3. On the **Tamper Protection** tab, check or uncheck **Protect Symantec security software from being tampered with or shut down**.
4. Click **OK**.

To configure Tamper Protection

1. In the client, in the sidebar, click **Change settings**.
2. Next to **Client Management**, click **Configure Settings**.
3. On the **Tamper Protection** tab, in the **Action to take if an application attempts to tamper with or shut down Symantec security software** list box, click **Log only**, **Block and do not log** or **Block and log**.
4. Click **OK**.
Managing Symantec Network Access Control

This chapter includes the following topics:

- About the Symantec Network Access Control client
- Getting started on the Symantec Network Access Control client
- Reauthenticating your computer
- Configuring the client for 802.1x authentication
- Viewing the Symantec Network Access Control logs

About the Symantec Network Access Control client

The Symantec Network Access Control client evaluates whether your computer is protected and compliant with your company’s security policy. For example, the client checks whether your computer runs the most recent security software, such as virus protection and firewall applications.

The client runs a Host Integrity check to verify whether your computer passes the requirements that the management server specifies in a Host Integrity policy. If your computer passes the Host Integrity check, an Enforcer must authenticate the user or your computer before it allows the computer to access the network.

The client ensures that your computer complies with a security policy that your administrator configures. If your computer does not run the required software, either you must update the software manually, or your client may update the software automatically. Until your security software is current, your computer may be blocked from connecting to the network. The client runs periodic checks to verify that your computer continues to comply with the security policy.
Symantec Network Access Control works with several types of Enforcers to authenticate the client computer. The Symantec Enforcer is the network hardware appliance that verifies Host Integrity check results and the client computer’s identity before it allows that computer to access the network.

See "Getting started on the Symantec Network Access Control client" on page 120.

## Getting started on the Symantec Network Access Control client

By default, your client computer should access the network, and you should not need to configure the client. However, you can perform the following tasks on the client computer.

Some of these tasks are not available if you run a managed client or your administrator has disabled the option.

### Table 6-1 Tasks to manage the Symantec Network Access Control client

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
</table>
| Check whether your client is managed or unmanaged | You may need to check whether your client computer is managed and is connected to the network or to the management server. If your computer runs an unmanaged client, then you should run a Host Integrity check yourself.

Once an unmanaged client is installed, only you have control over your computer’s protection. An unmanaged client is protected by default, but you may need to modify the computer’s protection settings.

See "About managed clients and unmanaged clients" on page 24.

See “Checking whether the client is managed or unmanaged” on page 26. |
| Update the Host Integrity policy | The Host Integrity policy is updated automatically. However, to ensure that you have the latest policy, you can update it manually. You right-click the client notification area icon and click **Update Policy**.

See “Manually updating policies on the client” on page 109. |
| Run a Host Integrity check | A Host Integrity check should run automatically before your computer accesses the network and throughout the time your computer is connected to the network. However, you can also run the Host Integrity check yourself.

See “Running a Host Integrity check” on page 20.

If your computer fails the check, your computer may install software to pass the check. Or, your administrator may have configured the policy to ask you to download and install software.

See “Remediating your computer to pass the Host Integrity check” on page 21. |
Table 6-1  Tasks to manage the Symantec Network Access Control client (continued)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
</table>
| Verify whether or not you passed the Host Integrity check | After you run the Host Integrity check, verify whether you passed or failed the Host Integrity check by looking in the following places:  
  - Security Log  
    See “Viewing the logs” on page 112.  
  - **Status** page  
    See “How to determine whether the client computer is connected and protected” on page 16.  
  - Notification area icon  
    See “Hiding and displaying the notification area icon” on page 110. |
| Reauthenticate your computer | If your computer passed the Host Integrity check but the Enforcer blocks your computer, you may need to reauthenticate your computer.  
  See “Reauthenticating your computer” on page 121.  
  Your administrator may also ask you to configure 802.1 authentication on the client.  
  See “Configuring the client for 802.1x authentication” on page 122. |

### Reauthenticating your computer

If your computer passed the Host Integrity check but the Enforcer blocks your computer, you may need to reauthenticate your computer. Under normal circumstances, you should never need to reauthenticate your computer.

The Enforcer may block the computer when one of the following events has occurred:

- The client computer failed the user authentication because you typed your user name or your password incorrectly.
- Your client computer is in the wrong VLAN.
- The client computer did not obtain a network connection. A broken network connection usually happens because the switch between the client computer and the LAN Enforcer did not authenticate your user name and password.
- You logged on to a client computer that authenticated a previous user.
- The client computer failed the compliance check.

You can reauthenticate the computer only if you or your administrator configured the computer with a built-in supplicant.
To reauthenticate your computer

1. Right-click the notification area icon.
2. Click **Re-authentication**.
3. In the **Re-authenticate** dialog box, type your user name and password.
4. Click **OK**.

See “Configuring the client for 802.1x authentication” on page 122.

**Configuring the client for 802.1x authentication**

If your corporate network uses a LAN Enforcer for authentication, the client computer must be configured to perform 802.1x authentication. Either you or your administrator can configure the client. Your administrator may or may not have given you permission to configure 802.1x authentication.

The 802.1x authentication process includes the following steps:

- An unauthenticated client or third-party supplicant sends the user information and compliance information to a managed 802.1x network switch.
- The network switch relays the information to the LAN Enforcer. The LAN Enforcer sends the user information to the authentication server for authentication. The RADIUS server is the authentication server.
- If the client fails the user-level authentication or is not in compliance with the Host Integrity policy, the Enforcer may block network access. The Enforcer places the non-compliant client computer in a quarantine network where the computer can be remediated.
- After the client remediates the computer and brings it into compliance, the 802.1x protocol reauthenticates the computer and grants the computer access to the network.

To work with the LAN Enforcer, the client can use either a third-party supplicant or a built-in supplicant.

*Table 6-2* describes the types of options you can configure for 802.1x authentication.
Table 6-2  802.1x authentication options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
</table>
| Third-party supplicant | Uses a third-party 802.1x supplicant.  
  The LAN Enforcer works with a RADIUS server and third-party 802.1x supplicants to perform user authentication. The 802.1x supplicant prompts you for user information. The LAN Enforcer passes that user information to the RADIUS server for user-level authentication. The client sends the client profile and the Host Integrity status to the Enforcer so that the Enforcer authenticates the computer.  
  **Note:** If you want to use the Symantec Network Access Control client with a third-party supplicant, then the Network Threat Protection module of the Symantec Endpoint Protection client must be installed. |
| Transparent mode | Uses the client to run as an 802.1x supplicant.  
  You use this method if the administrator does not want to use a RADIUS server to perform user authentication. The LAN Enforcer runs in transparent mode and acts as a pseudo-RADIUS server.  
  Transparent mode means that the supplicant does not prompt you for user information. In transparent mode, the client acts as the 802.1x supplicant. The client responds to the switch’s EAP challenge with the client profile and the Host Integrity status. The switch, in turn, forwards the information to the LAN Enforcer, which acts as a pseudo-RADIUS server. The LAN Enforcer validates the Host Integrity and client profile information from the switch and can allow, block, or dynamically assign a VLAN, as appropriate.  
  **Note:** To use a client as an 802.1x supplicant, you need to uninstall or disable third-party 802.1x supplicants from the client computer. |
| Built-in supplicant | Uses the client computer’s built-in 802.1x supplicant.  
  The built-in authentication protocols include Smart Card, PEAP, or TLS. After you enable 802.1x authentication, you must specify which authentication protocol to use. |

**Warning:** Contact your administrator before you configure your client for 802.1x authentication. You must know whether your corporate network uses the RADIUS server as the authentication server. If you configure 802.1x authentication incorrectly, you may break your connection to the network.

To configure the client to use a third-party supplicant

1. In the client, in the sidebar, click **Status**.
2. Beside Network Access Control, click **Options > Change Settings > 802.1x Settings**.
3 In the **Network Access Control Settings** dialog box, click **Enable 802.1x authentication**.

4 Click **OK**.

You must also set up a firewall rule that allows third-party 802.1x supplicant drivers onto the network.

See “Adding or changing a firewall rule” on page 93.

You can configure the client to use the built-in supplicant. You enable the client for both 802.1x authentication and as an 802.1x supplicant.

To configure the client to use either transparent mode or a built-in supplicant

1 In the client, in the sidebar, click **Status**.

2 Beside Network Access Control, click **Options > Change Settings > 802.1x Settings**.

3 In the **Network Access Control Settings** dialog box, click **Enable 802.1x authentication**.

4 Click **Use client as an 802.1x supplicant**.

5 Do one of the following actions:
   - To select transparent mode, check **Use Symantec Transparent Mode**.
   - To configure a built-in supplicant, click **Allows you to choose the authentication protocol**.
     You then need to choose the authentication protocol for your network connection.

6 Click **OK**.

To choose an authentication protocol

1 On the client computer, click **Start > Settings > Network Connections** and then click **Local Area Connection**.

   **Note:** These steps are written for computers running Windows 7. Your procedure may vary.

2 In the **Local Area Connection Status** dialog box, click **Properties**.

3 In the **Local Area Connection Properties** dialog box, click the **Authentication** tab.
4 On the **Authentication** tab, click the **EAP type** drop-down list, and select one of the authentication protocols. Make sure that the **Enable IEEE 802.1x authentication for this network** check box is checked.

5 Click **OK**.

6 Click **Close**.

See “**Reauthenticating your computer**” on page 121.

### Viewing the Symantec Network Access Control logs

The Symantec Network Access Control client uses the following logs to monitor different aspects of its operation and the results of the Host Integrity check:

- **Security** records the results and status of Host Integrity checks.
- **System** records all operational changes for the client, such as the connection to the management server and updates to the client security policy.

If you use a managed client, both of the logs may be regularly uploaded to the server. Your administrator can use the content in the logs to analyze the overall security status of the network.

You can export the log data from these logs.

**To view the Symantec Network Access Control logs**

1 In the client, in the sidebar, click **Status**.

2 To view the Security Log, next to **Network Access Control**, click **Options > View Logs**.

3 In the **Security Log - Symantec Network Access Control Logs** dialog box, select the top log entry that mentions Host Integrity. In the lower-left corner, the Host Integrity check results appear.

4 To view the System Log, click **View > System Log**.

5 Click **File > Exit**.

See “**About the logs**” on page 111.
Symbols
64-bit computers 19
802.1x authentication
  about 122
  configuring 123

A
active scans
  running 55
adware 47
alerts
  icons 17
  responding to 27
allow traffic
  firewall rules 93
  responding to messages 34
applications
  allowing or blocking 93
  excluding from scans 68
Auto-Protect
  Download Insight 114
  enabling or disabling 114, 116
  for Internet email 50
  for Lotus Notes 51
  for Microsoft Outlook 50
  for the file system 116
  groupware email clients 50

B
blended threats 47
block traffic 102
  firewall rules 93
  responding to messages 34
bots 47
browser intrusion prevention
  about 104

C
clients (continued)
  managed v. unmanaged 24, 26
computers
  scanning 39
Control Log 111
custom scans
  running 55

D
Debug Log 111
definition files
  about 44
dialers 47
disable
  Auto-Protect 114
  Network Threat Protection 115
  Proactive Threat Protection 114
DNS or host file change
  exceptions 67
Download Insight
  customizing 61
  interaction with Auto-Protect 114
  managing detections 58
  reputation data 53
  responding to notifications 32

E
early launch anti-malware 77
email
  excluding Inbox file from scans 67
email scanning. See Auto-Protect
  exceptions
  about 67–68
  creating 68

F
files
  acting on a detection 30
  excluding from scans 68
  sharing 98

Index
files  (continued) submitting to Symantec Security Response  76
firewall
  managing 86
  settings 96
  stateful inspection 93
firewall rules
  about 89–90
  adding 93
  disabling 95
  enabling 95
  exporting 95
  importing 95
  processing order
    about 92
    changing 94
folders
  excluding from scans 68
full scans
  running 55

H
hack tools 47
Host Integrity check
  remediating the computer 21
  running 20

I
icons
  on Status page 17
  padlock 25
  shield 16
infected files
  acting on 29
Insight 53
Insight Lookup
  trusted intranet sites 61
Internet bots 47
intrusion prevention
  enabling or disabling 106
  how it works 104
  managing 103
  notifications for 106

J
joke programs 47

L
licenses
  responding to messages about 35
logs
  about 111
  enabling the Packet Log 113
  network access control 125
  viewing 112

M
malware
  configuring actions for detections of 64
managed clients
  about 24
  checking for 26
  managing protection 107
messages
  intrusion prevention 106
  responding to 27, 34–36
misleading applications 47

N
network access control
  about 119
network intrusion prevention
  about 104
Network Threat Protection
  about 12
  enabling or disabling 115
  managing 86
notification area icon
  about 16
  hiding and displaying 110
notifications
  Download Insight 32
  intrusion prevention 106
  responding to 27

O
on-demand scans
  creating 57
  Host Integrity 18
  running 18
options
  administrator-controlled 24
scans (continued)
  on-demand and startup 57
  pausing 20
  Power Eraser 39
  remediation actions 62
  responding to a detection 30
  running 18
  scheduled 54
  snooze options 20
  types of 48
  user-defined 62

scheduled scans
  creating 54
  missed scans 54
  multiple 54

security assessment tool 48

Security Log 111

security risks
  configuring actions for detections of 64
  excluding from scans 68
  how the client detects 44
  how the client responds to a detection 48, 52

server
  connecting to 16
  managed clients 24

settings
  intrusion prevention 106

share files and printers 98

shield icon 16

SONAR
  about 12, 82
  about detections 82
  changing settings 85
  exceptions for code injection 82
  managing 83

spyware 48

standalone clients 24

startup scans
  creating 57

stateful inspection 93

Status page
  alert icons 17

submissions 79–80

Symantec Security Response
  submitting files to 76

System Log 112

system tray icon 16
Tamper Protection
  enabling and disabling 118
  when to disable 115
Tamper Protection Log 112
Threat Log 112
threats
  blended 47
trackware 48
traffic
  blocking 102
Traffic Log 112
Trojan horses 47
troubleshooting
  SymHelp 110

unmanaged clients
  about 24
  checking for 26
  managing protection 107

Virus and Spyware Protection
  about 12
virus definitions
  about 44
viruses 47
  cleaning 30, 52
  configuring actions for detections of 64
  deleting 30
  how the client detects 44
  how the client responds to a detection 48, 52
  quarantining 30
  unrecognized 76

Web domain
  excluding from scans 68
Windows 8
  pop-up notifications 34, 78
Windows Security Center
  seeing antivirus status from 81
  seeing firewall status from 81
worms 47