Symantec™ Enterprise Security Manager Baseline Policy Manual for CIS Benchmark

AIX 5.3 and 6.1
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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
Problem description:
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  Troubleshooting that was performed before contacting Symantec
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This chapter includes the following topics:

- Introducing the policy
- Installing the policy
- Obtaining and Installing the policy using LiveUpdate

Introducing the policy

The Symantec Enterprise Security Manager (ESM) Baseline Policy for the Center for Internet Security (CIS) Benchmark version for AIX 5.3 and 6.1 assesses a host’s compliance with the benchmark’s recommendations.

This release of the policy was built based on the CIS benchmark version 1.0.0 for AIX 5.3 and 6.1. This policy can be installed on Symantec ESM 9.0.1 and 10.0 managers running Security Update 42 or later on AIX 5.3 and 6.1.

For information on the Center for Internet Security benchmarks, visit the following URL:

http://www.cisecurity.org

Installing the policy

Before you install the policy, you must decide on the Symantec ESM Managers that you want to install the policy. Since policies run on Managers, you do not...
require to install policies on agents. You must install the policy on Symantec ESM 9.0.1 and 10.0 managers with Security Update 42 or later.

**Obtaining and Installing the policy using LiveUpdate**

You can install the LiveUpdate feature in the following ways:
- By using the LiveUpdate feature on the Symantec ESM console
- By using files from a Product disc or from the Internet

**To install the policy using LiveUpdate**

1. Connect the Symantec ESM Enterprise Console to the managers on which you want to install the policy.
2. Click the **LiveUpdate** icon to start the LiveUpdate Wizard.
3. In the wizard, ensure that Symantec LiveUpdate (Internet) is selected, and then click **Next**.
4. In the **Welcome to LiveUpdate** panel, click **Next**.
5. In the **Available Updates** panel, do one of the following:
   - To install all checked products and components, click **Next**.
   - To omit a product from the update, uncheck it, and then click **Next**.
   - To omit a product component, expand the product node, uncheck the component that you want to omit, and then click **Next**.
6. In the **Thank you** panel, click **Finish**.
7. In the list of managers panel, ensure that all the managers that you want to update are checked, and then click **Next**.
8. In the **Updating Managers** panel, click **OK**.
9. In the **Update Complete** panel, click **Finish**.

If you cannot use LiveUpdate to install the policy directly from a Symantec server, you can install the policy manually, using files from a Product disc or the Internet.

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**Note:** To avoid conflicts with the updates that are performed by standard LiveUpdate installations, copy or extract the files into the LiveUpdate folder, which is usually Program Files/Symantec/LiveUpdate.
To install the policy from a Product disc or from the Internet

1. Connect the Symantec ESM Enterprise Console to the managers that you want to update.

2. From the Symantec Security Response Web site, download the executable files for AIX 5.3 and 6.1. You can go to the following link:

   [http://securityresponse.symantec.com](http://securityresponse.symantec.com)

3. On a computer running Windows NT/XP/Server 2003 that has network access to the manager, run the executable that you downloaded from the Symantec Security Response Web site.

4. Click **Next** to close the **Welcome** panel.

5. In the **License Agreement** panel, if you agree to the terms of the agreement, click **Yes**.

6. In the **Question** panel, click **Yes** to continue installation of the best practice policy.

7. In the **ESM Manager Information** panel, type the requested manager information, and then click **Next**.

   If the manager’s modules have not been upgraded to Security Update 42 or later, upgrade the manager to Security Update 42 or later, and then rerun the installation program.

8. Click **Finish**.
Obtaining and Installing the policy using LiveUpdate
Policy modules

This chapter includes the following topics:

- Policy modules
- Account Integrity
- File Attributes
- File Find
- Login Parameters
- Network Integrity
- Object Integrity
- OS Patches
- Password Strength
- System Auditing
- Startup Files
- System Queues
- User Files

Policy modules

The CIS Benchmark for AIX 5.3 and 6.1 policy include the modules that ensure compliance with various technical and administrative aspects. Each module lists the enabled checks with the standards that they address, the associated name lists, and the templates. As specific values are not required everywhere, default values and templates are provided. Although the policy appears as read only, you
can copy or rename the policy, depending on the requirements of your corporate security policy.

## Account Integrity

The Account Integrity module reports new, changed, and deleted accounts, account name and rights vulnerabilities, and user rights.

Table 2-1 gives a list of the checks and their CIS sections.

### Table 2-1 Checks and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts should be disabled</td>
<td>1.2.9, 2.12.18</td>
</tr>
<tr>
<td>Duplicate IDs</td>
<td>2.12.17, 2.12.16</td>
</tr>
<tr>
<td>Disallowed home directory</td>
<td>1.7.7</td>
</tr>
<tr>
<td>List of users</td>
<td>1.7.7</td>
</tr>
<tr>
<td>Home directory permissions</td>
<td>2.11.20</td>
</tr>
</tbody>
</table>

## File Attributes

The File Attributes module reports changes to file creation and modification times, file sizes, and CRC/MD5 checksum signatures. It also reports violations of the file permissions that are specified in the template files.

Table 2-2 gives a list of the checks and their CIS sections.

### Table 2-2 Checks and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exclude decreased permissions</td>
<td>1.3.53, 1.4.1, 1.4.2, 2.1.1.3, 2.1.1.4, 2.2.1, 2.2.11, 2.2.12, 2.3.2, 2.3.3, 2.4.6, 2.4.7, 2.4.9, 2.6.4, 2.10.2, 2.10.3, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.11.5, 2.11.6, 2.11.7, 2.11.8, 2.11.9, 2.11.10, 2.11.11, 2.11.12, 2.11.13, 2.11.14, 2.11.15, 2.11.16, 2.11.17</td>
</tr>
<tr>
<td>Group ownership</td>
<td>1.3.53, 2.1.1.4, 2.2.1, 2.2.11, 2.2.12, 2.3.2, 2.3.3, 2.4.6, 2.4.7, 2.4.9, 2.10.2, 2.10.3, 2.11.1, 2.11.2, 2.11.3, 2.11.4 2.11.5, 2.11.6, 2.11.7, 2.11.8, 2.11.9, 2.11.10, 2.11.11, 2.11.12, 2.11.13, 2.11.14, 2.11.15, 2.11.16, 2.11.17</td>
</tr>
</tbody>
</table>
Table 2-2 Checks and CIS sections (continued)

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissions</td>
<td>1.3.53, 1.4.1, 1.4.2, 2.1.1.3, 2.1.1.4, 2.2.1, 2.2.11, 2.2.12, 2.3.2, 2.3.3, 2.4.6, 2.4.7, 2.4.9, 2.6.4, 2.10.2, 2.10.3, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.11.5, 2.11.6, 2.11.7, 2.11.8, 2.11.9, 2.11.10, 2.11.11, 2.11.12, 2.11.13, 2.11.14, 2.11.15, 2.11.16, 2.11.17</td>
</tr>
<tr>
<td>Template files</td>
<td>1.3.53, 1.4.1, 1.4.2, 1.7.3.2, 1.7.4.2, 2.1.1.3, 2.1.1.4, 2.2.1, 2.2.11, 2.2.12, 2.2.14, 2.3.3, 2.4.6, 2.4.7, 2.4.9, 2.6.4, 2.10.2, 2.10.3, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.11.5, 2.11.6, 2.11.7, 2.11.8, 2.11.9, 2.11.10, 2.11.11, 2.11.12, 2.11.13, 2.11.14, 2.11.15, 2.11.16, 2.11.17, 2.14.1</td>
</tr>
<tr>
<td>User ownership</td>
<td>1.3.53, 2.1.1.4, 2.2.1, 2.2.11, 2.2.12, 2.3.2, 2.3.3, 2.4.6, 2.4.7, 2.4.9, 2.10.2, 2.10.3, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.11.5, 2.11.6, 2.11.7, 2.11.8, 2.11.9, 2.11.10, 2.11.11, 2.11.12, 2.11.13, 2.11.14, 2.11.15, 2.11.16, 2.11.17</td>
</tr>
</tbody>
</table>

File Find

The File Find module reports weaknesses in the file permissions and the configuration files.

Table 2-3 gives a list of the checks and their CIS sections.

Table 2-3 Checks and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>File Content Search</td>
<td>1.1.8, 1.1.10, 1.1.11, 1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.7, 1.2.8, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.3.5, 1.3.6, 1.3.7, 1.3.8, 1.3.9, 1.3.10, 1.3.11, 1.3.12, 1.3.13, 1.3.14, 1.3.15, 1.3.16, 1.3.17, 1.3.18, 1.3.19, 1.3.20, 1.3.21, 1.3.22, 1.3.23, 1.5.2, 1.6.21, 1.7.2, 1.7.3.1, 1.7.4.1, 1.7.5, 1.7.10, 2.1.1.5, 2.1.1.6, 2.1.3, 2.2.2, 2.2.3, 2.2.4, 2.2.5, 2.2.6, 2.2.7, 2.2.9, 2.2.10, 2.3.1, 2.4.2, 2.4.4, 2.4.5, 2.4.8, 2.5.1, 2.5.2, 2.5.3, 2.6.3, 2.6.4, 2.7.4, 2.12.1, 2.12.2, 2.12.3, 2.12.4, 2.12.5, 2.12.6, 2.12.7, 2.12.10, 2.12.11, 2.12.13, 2.12.14, 2.12.19, 2.12.20, 2.12.8, 2.16.1</td>
</tr>
<tr>
<td>Setgid files</td>
<td>2.4.3, 2.16.1</td>
</tr>
<tr>
<td>Setuid files</td>
<td>2.4.3, 2.16.1</td>
</tr>
<tr>
<td>Unowned directories/files</td>
<td>2.16.2</td>
</tr>
</tbody>
</table>
Login Parameters

The Login Parameters module reports the accounts, resources, and settings that are not compliant with the policies.

Table 2-4 gives a list of the checks and their CIS sections.

Table 2-4 Checks and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning Banners</td>
<td>1.7.6, 2.12.12</td>
</tr>
</tbody>
</table>

Network Integrity

The Network Integrity module reports the system configuration settings that pertain to authentication and remote access.

Table 2-5 gives a list of the checks and their CIS sections.

Table 2-5 Checks and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network parameters</td>
<td>1.6.1, 1.6.2, 1.6.3, 1.6.4, 1.6.5, 1.6.6, 1.6.7, 1.6.8, 1.6.9, 1.6.10, 1.6.11, 1.6.12, 1.6.13, 1.6.14, 1.6.15, 1.6.16, 1.6.17, 1.6.18, 1.6.19, 1.6.20</td>
</tr>
<tr>
<td>NFS exported directory no access list</td>
<td>2.5.4</td>
</tr>
<tr>
<td>NFS exported directory anonymous access</td>
<td>2.5.5</td>
</tr>
<tr>
<td>NFS exported directory non-secure</td>
<td>2.5.6</td>
</tr>
</tbody>
</table>
Object Integrity

The Object Integrity module reports changes in ownership, permissions, and device IDs.

Table 2-6 gives a list of the check and its CIS section.

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Core Disabled</td>
<td>1.7.10</td>
</tr>
</tbody>
</table>

OS Patches

The OS Patches module reports patches that have been released for UNIX operating systems but are not found on the agent. The released patches are defined in template files. New patch templates are available bi-monthly through LiveUpdate.

Table 2-7 gives a list of the checks and their CIS sections.

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patch templates</td>
<td>2.2.1, 2.4.1, 2.5.1, 2.6.1, 2.6.2, 2.10.1, 2.12.8, 2.13.1, 2.14.1</td>
</tr>
</tbody>
</table>

Password Strength

The Password Strength module examines the system parameters that control a password’s construction, change, age, expiration, and storage.

Table 2-8 gives a list of the checks and their CIS sections.
### System Auditing

The System Auditing module reports the unaudited agents, non-compliant events auditing and system call mappings, and AIX files that are not audited for read and write actions and inconsistencies with authentication databases on trusted computers.

*Table 2-9* gives a list of the check and its CIS sections.

### Startup Files

The Startup Files module examines the system parameters that control processes and the services that are executed at system startup time.

*Table 2-10* gives a list of the check and its CIS sections.

---

**Table 2-8** Checks and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum different characters</td>
<td>1.1.1</td>
</tr>
<tr>
<td>Minimum password age</td>
<td>1.1.2</td>
</tr>
<tr>
<td>Maximum password age</td>
<td>1.1.3</td>
</tr>
<tr>
<td>Password length restrictions</td>
<td>1.1.4</td>
</tr>
<tr>
<td>Minimum alphabetic characters</td>
<td>1.1.5</td>
</tr>
<tr>
<td>Minimum non-alphabetic characters</td>
<td>1.1.6</td>
</tr>
<tr>
<td>Maximum repeated characters</td>
<td>1.1.7</td>
</tr>
<tr>
<td>Minimum password history</td>
<td>1.1.9</td>
</tr>
<tr>
<td>Accounts without password</td>
<td>2.12.15</td>
</tr>
</tbody>
</table>

**Table 2-9** Check and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auditing enabled</td>
<td>1.7.11</td>
</tr>
</tbody>
</table>

**Table 2-10** Check and CIS sections
Table 2-10  Check and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Services</td>
<td>1.3.24, 1.3.25, 1.3.26, 1.3.27, 1.3.28, 1.3.29, 1.3.30, 1.3.31, 1.3.32, 1.3.33, 1.3.34, 1.3.35, 1.3.36, 1.3.37, 1.3.38, 1.3.39, 1.3.40, 1.3.41, 1.3.42, 1.3.43, 1.3.44, 1.3.45, 1.3.46, 1.3.47, 1.3.48, 1.3.49, 1.3.50, 1.3.51, 1.3.52</td>
</tr>
<tr>
<td>Syslog</td>
<td>2.1.1.1, 2.1.1.2, 2.1.2</td>
</tr>
<tr>
<td>Installed services</td>
<td>2.8.1, 2.9.1</td>
</tr>
<tr>
<td>Non-wrapped services</td>
<td>2.10.4</td>
</tr>
<tr>
<td>Trusted execution</td>
<td>2.15.1.1, 2.15.1.2, 2.15.1.3, 2.15.1.4, 2.15.1.6</td>
</tr>
</tbody>
</table>

System Queues

The System Queues module checks for the correct ownerships and protections for the print and batch queues on the system.

Table 2-11 gives a list of the check and its CIS sections.

Table 2-11  Check and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRONTAB file contents</td>
<td>1.7.8</td>
</tr>
</tbody>
</table>

User Files

The User Files module reports issues with ownership and permissions on the files that are contained in the user home directories.

Table 2-12 gives a list of the checks and their CIS sections.

Table 2-12  Checks and CIS sections

<table>
<thead>
<tr>
<th>Check</th>
<th>CIS section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forbidden Files</td>
<td>1.5.1, 2.2.13</td>
</tr>
<tr>
<td>Current directory not allowed in PATH</td>
<td>1.7.1</td>
</tr>
<tr>
<td>PATH(modifying startup script)</td>
<td>1.7.1</td>
</tr>
<tr>
<td>Check</td>
<td>CIS section</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Umask</td>
<td>1.7.9</td>
</tr>
<tr>
<td>Umask (parsing startup scripts)</td>
<td>1.7.9</td>
</tr>
<tr>
<td>World writable directories in PATH</td>
<td>2.11.18</td>
</tr>
<tr>
<td>Group writable directories in PATH</td>
<td>2.11.18</td>
</tr>
<tr>
<td>Startup file protection</td>
<td>2.11.19</td>
</tr>
</tbody>
</table>