



Smart Protection Server^{2.5}

Security Made Smarter

Installation and Upgrade Guide



Endpoint Security



Messaging Security



Protected Cloud



Web Security

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<http://docs.trendmicro.com/>

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The user documentation for Trend Micro™ Smart Protection Server is intended to introduce the main features of the software and installation instructions for your production environment. You should read through it prior to installing or using the software.

Detailed information about how to use specific features within the software are available in the online help file and the Knowledge Base at Trend Micro web site.

<http://esupport.trendmicro.com>

Trend Micro is always seeking to improve its documentation. Your feedback is always welcome. Please evaluate this documentation on the following site:

<http://www.trendmicro.com/download/documentation/rating.asp>

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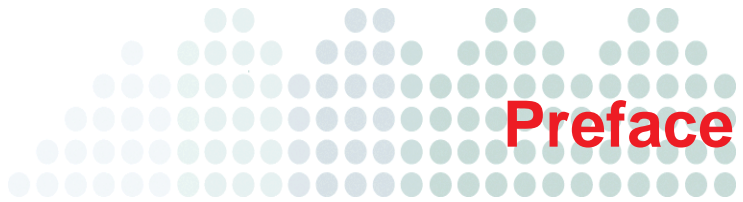
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Preface

Welcome to the Trend Micro™ Smart Protection Server Installation and Upgrade Guide. This document contains information about product settings.

Topics include:

- *Smart Protection Server Documentation* on page viii
- *Audience* on page viii
- *Document Conventions* on page ix

Smart Protection Server Documentation

The Smart Protection Server documentation consists of the following:

- **Installation and Upgrade Guide:** Helps you plan for installation and deployment.
- **Administrator's Guide:** Helps you configure all product settings.
- **Online Help:** Provides detailed instructions on each field and how to configure all features through the user interface.
- **Readme File:** Contains late-breaking product information that might not be found in the other documentation. Topics include a description of features, installation tips, known issues, and product release history.

The documentation is available at:

<http://docs.trendmicro.com>

Audience

The Smart Protection Server documentation is written for IT managers and administrators. The documentation assumes that the reader has in-depth knowledge of computer networks.

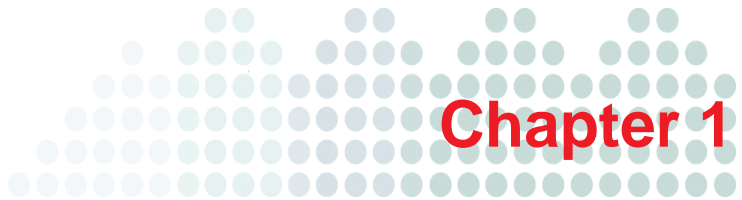
The documentation does not assume the reader has any knowledge of virus/malware prevention or spam prevention technology.

Document Conventions

To help you locate and interpret information easily, the Smart Protection Server documentation uses the following conventions.

TABLE P-1. Document conventions

CONVENTION	DESCRIPTION
ALL CAPITALS	Acronyms, abbreviations, and names of certain commands and keys on the keyboard
Bold	Menus and menu commands, command buttons, tabs, options, and tasks
<i>Italics</i>	References to other documentation or new technology components
Monospace	Examples, sample command lines, program code, web URL, file name, and program output
<div>Note:</div>	Configuration notes
<div>Tip:</div>	Recommendations
<div>WARNING!</div>	Reminders on actions or configurations that should be avoided



Planning Smart Protection Server Installation and Upgrade

This chapter includes information about planning for a fresh installation or upgrade of Smart Protection Servers.

Topics include:

- *System Requirements* on page 1-2
- *Planning for Deployment* on page 1-5
- *Preparing to Install* on page 1-6

System Requirements

The following table lists the system requirements:

TABLE 1-1. System Requirements

HARDWARE / SOFTWARE	REQUIREMENTS
Hardware	<ul style="list-style-type: none">• 2.0GHz Intel® Core2 Duo™ 64-bit processor supporting Intel® Virtualization Technology™ or equivalent• 1.5GB RAM• 30GB disk space when installed on a virtual machine <hr/> <p>Note: Smart Protection Server automatically partitions the detected disk space as required.</p> <hr/> <p>Note: The Web Access log stops collecting data, if Smart Protection Server detects that the available disk space is less than 1GB. Smart Protection Server starts collecting data again once the administrator has made at least 1.5GB of disk space available.</p> <hr/> <ul style="list-style-type: none">• Monitor with 1024 x 768 or greater resolution with 256 colors or higher

TABLE 1-1. System Requirements (Continued)

HARDWARE / SOFTWARE	REQUIREMENTS
Virtualization	<ul style="list-style-type: none">• Microsoft® Windows Server® 2008 R2 Hyper-V™ (Legacy Network Adapter is required to detect the network device for Hyper-V installations.) <hr/> <p>Note: After installing Smart Protection Server, use the Command Line Interface (CLI) to enable Hyper-V Integration Components to increase capacity.</p> <hr/> <ul style="list-style-type: none">• VMware® ESXi™ Server 5.1, 5.0 Update 2, 4.1 Update 1, 4.0 Update 3, or 3.5 Update 4• VMware® ESX™ Server 4.1 Update 1, 4.0 Update 3, or 3.5 Update 4• Citrix® XenServer 5.6 <hr/> <p>Note: If you use a Citrix™ XenServer, create a new Virtual Machine using the "Other install media" template.</p> <hr/> <p>Note: A purpose-built, hardened, performance-tuned 64-bit Linux operating system is included with Smart Protection Server.</p> <hr/>

TABLE 1-1. System Requirements (Continued)

HARDWARE / SOFTWARE	REQUIREMENTS
Virtual Machine	<ul style="list-style-type: none"> • CentOS 5 64-bit (Guest Operating System). If your hypervisor does not support CentOS, use Red Hat® Enterprise Linux® 5 64-bit. • 1.5GB RAM • 2.0GHz processor • 30GB disk space when installed on a virtual machine • 1 network device • 2 virtual processors minimum (4 virtual processors recommended) • Network Device <hr/> <p>Note: The Smart Protection Server kernel module will install the VMWare Tools module <code>vmxnet3</code>. This means that VMWare Tools do not need to be installed after installing Smart Protection Server.</p> <p>During installation, the message "Minimum hardware requirements were not met" might appear because the <code>vmxnet3</code> driver has not been installed at that point. This message can be ignored and the installation will proceed normally.</p> <hr/> <p>Note: If installing with minimum requirements, disable Web Access Log from the Command Line Interface (CLI).</p> <hr/>
Web Console	<ul style="list-style-type: none"> • Microsoft® Internet Explorer® 7.0 or later with the latest updates • Mozilla® Firefox® 3.6.0 or later • Adobe® Flash® Player 8.0 or above is required for viewing graphs in widgets • 1024 x 768 or greater resolution with 256 colors or higher

Planning for Deployment

The following section provides information on how to determine the type of environment to configure when installing local Smart Protection Servers.

Best Practices

- Avoid performing Manual scans and Scheduled scans simultaneously. Stagger the scans in groups.
- Avoid configuring all endpoints from performing Scan Now simultaneously. (For example, the "Perform scan now after update" option.)
- Install multiple Smart Protection Servers to ensure the continuity of protection in the event that connection to a Smart Protection Server is unavailable.
- Customize Smart Protection Server for slower network connections, about 512Kbps, by making changes to the `ptngrowth.ini` file.

Configure the following in `ptngrowth.ini`:

- a. Open the `ptngrowth.ini` file in `/var/tmcss/conf/`.
- b. Modify the `ptngrowth.ini` file using the recommended values below:

```
[COOLDOWN]
ENABLE=1
MAX_UPDATE_CONNECTION=1
UPDATE_WAIT_SECOND=360
```
- c. Save the `ptngrowth.ini` file.
- d. Restart the `lighttpd` service by typing the following command from the Command Line Interface (CLI):

```
service lighttpd restart
```

Deployment Guidelines

Consider the following when setting up your local Smart Protection Server:

- Smart Protection Server is a CPU-bound application. This means that increasing CPU resources increases the number of simultaneous requests handled.
- Network bandwidth may become a bottleneck depending on network infrastructure and the number of simultaneous update requests or connections.
- Additional memory might be required if there is a large number of concurrent connections between Smart Protection Servers and endpoints.

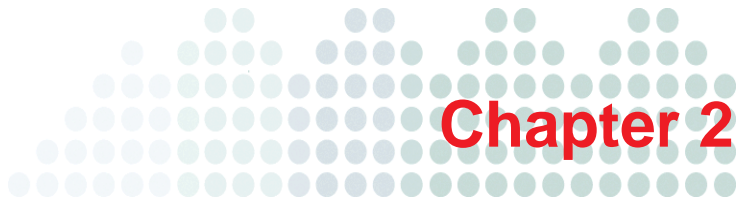
Preparing to Install

The Smart Protection Server installation process formats your existing system for program installation. VMware or Hyper-V installation requires the creation of a virtual machine before installation. After determining the number of Smart Protection Servers to use for your network, you can begin the installation process.

Tip: Install multiple Smart Protection Servers to ensure the continuity of protection in the event that connection to a Smart Protection Server is unavailable.

You need the following information for the installation:

- Proxy server information
- A virtual machine server that fulfills the requirements for your network



Upgrading and Installing Smart Protection Server

This chapter includes information about upgrading and installing Smart Protection Server.

Topics include:

- *Performing a Fresh Installation* on page 2-2
- *Upgrading to Smart Protection Server* on page 2-16

Performing a Fresh Installation

After preparing the requirements for installation, run the installation program to begin installation.

To install Smart Protection Server:

1. Create a virtual machine on your VMware or Hyper-V server and specify the virtual machine to boot from the Smart Protection Server ISO image. Refer to the Virtual Machine section in *Table 1-1. System Requirements* for more information about the type of virtual machine required for installation.

Note: A Legacy Network Adapter is required to detect the network device for Hyper-V installations.

2. Power on the virtual machine. The Installation Menu displays with the following options:
 - **Install Smart Protection Server:** Select this option to install Smart Protection Server to the new virtual machine.
 - **System Memory Test:** Select this option to perform memory diagnostic tests to rule out any memory issues.
 - **Exit Installation:** Select this option to exit the installation process and to boot from other media.



FIGURE 2-1. Installation Menu screen

3. Select **Install Smart Protection Server**. The Select language screen appears.



FIGURE 2-2. Select Language screen

Note: From this screen on, you can access the readme from a button in the lower left hand corner of the installation screen.

4. Select the language for this installation of Smart Protection Server and click **Next**. The License Agreement screen appears.



FIGURE 2-3. License Agreement screen

5. Click **Accept** to continue. The Keyboard Selection screen appears.

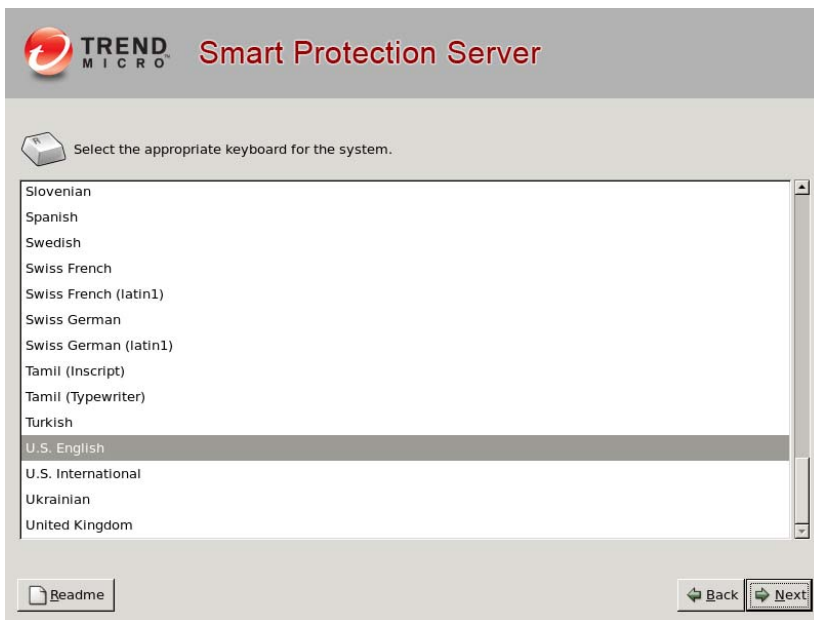


FIGURE 2-4. Keyboard Selection screen

6. Select the keyboard language and click **Next** to continue. The Hardware Components Summary screen appears.

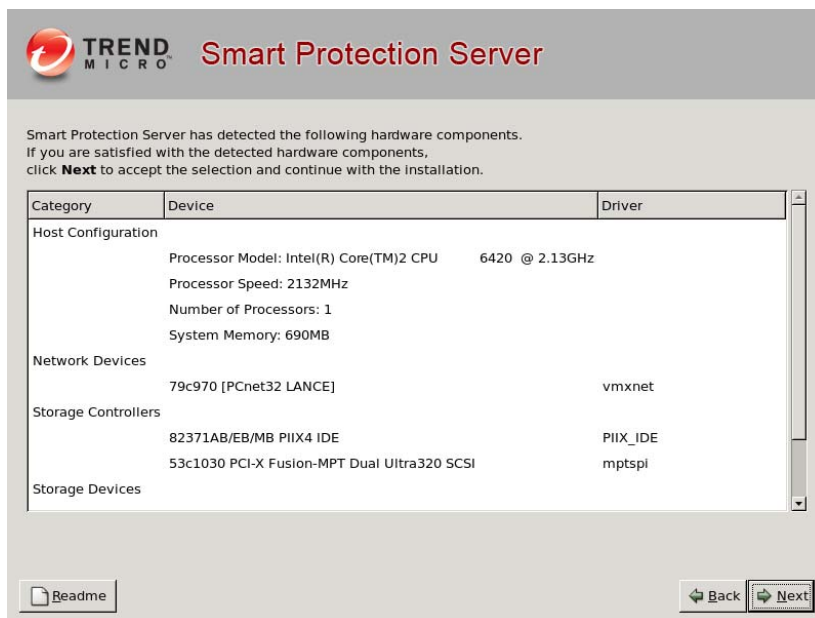


FIGURE 2-5. Hardware Components Summary screen

The installation program performs a scan to determine if the system specifications have been met and displays the results. If the hardware contains components that do not meet the system requirements, the installation program highlights those components. Installation can proceed as long as there is a hard drive and network device. If there is no hard drive or no network device, installation cannot continue.

- Click **Next** to continue. The Network Settings screen appears.

The screenshot shows the 'Smart Protection Server' network configuration interface. At the top, the Trend Micro logo and title are displayed. Below, the 'Network Devices' section contains a table with columns for 'Active on Boot', 'Device', 'Description', and 'IPv4/Netmask'. One device, 'eth0', is listed with its description and IP address. An 'Edit' button is next to the table. The 'Hostname' section has radio buttons for 'Automatically via DHCP' and 'Manually', with a text field for the manual hostname. The 'Miscellaneous Settings' section is divided into 'IPv4' and 'IPv6' columns, each with fields for Gateway, Primary DNS, and Secondary DNS. At the bottom, there are 'Readme', 'Back', and 'Next' buttons.

Active on Boot	Device	Description	IPv4/Netmask	Edit
<input type="radio"/>	eth0	Digital Equipment Corporation DECchip 21140 [FasterNet]	10.201.1.1	

Hostname
Set the host name:
☐ Automatically via DHCP
☒ Manually (e.g., host.domain.com)

Miscellaneous Settings

IPv4		IPv6	
Gateway	<input type="text"/>	Gateway	<input type="text"/>
Primary DNS	<input type="text"/>	Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>	Secondary DNS	<input type="text"/>

FIGURE 2-6. Network Settings screen

Note: To change the active on boot device after installation, log on to the Command Line Interface (CLI).

If there are multiple network devices, configure settings for all devices. (Only one device can be active on boot.)

8. Specify the Active on Boot network devices, host name, and miscellaneous settings. The **Edit** button allows you to configure IPv4 and IPv6 settings. The default setting for IPv4 is Dynamic IP configuration (DHCP). The default setting for IPv6 is DHCPv6.
9. Click **Edit** to select manual configuration and configure miscellaneous settings.
10. Click **Next** to continue. The Time Zone screen appears.

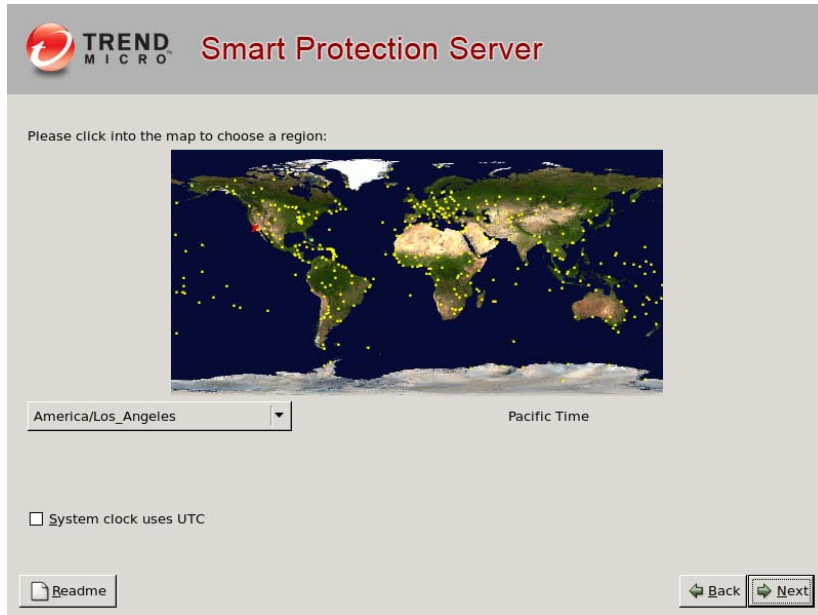


FIGURE 2-7. Time Zone screen

11. Specify the time zone.
12. Click **Next** to continue. The Authentication screen appears.

TREND MICRO Smart Protection Server

Smart Protection Server uses two levels of administrative access to safeguard against unauthorized access. Please setup the passwords for the administrative accounts below.

Root Account: Used to safeguard access to the operating system shell. Has full operating system privileges.

Password: Not Entered

Confirm:

Admin Account: Used to gain access to both the Web and CLI management consoles. Default administrator account used to manage Smart Protection Server.

Password: Not Entered

Confirm:

Password Strength

Good

Poor

[Readme](#) [Back](#) [Next](#)

FIGURE 2-8. Authentication screen

13. Specify passwords. Smart Protection Server uses two different levels of administrator types to secure the server.
 - a. Type the "root" and "admin" passwords. The password must be a minimum of 6 characters and a maximum of 32 characters.

Tip: To design a secure password consider the following:

- (1) Include both letters and numbers.
- (2) Avoid words found in any dictionary (of any language).
- (3) Intentionally misspell words.
- (4) Use phrases or combine words.
- (5) Use a combination of uppercase and lowercase letters.
- (6) Use symbols.

- **Root account:** This account is used to gain access to the operating system shell and has all rights to the server. This account includes the most privileges.
- **Admin account:** This account is the default administration account used to access the Smart Protection Server web and CLI product consoles. This account includes all rights to the Smart Protection Server application, but does not include access rights to the operating system shell.

14. Click **Next** to continue. The Installation Summary screen appears.



FIGURE 2-9. Installation Summary screen

15. Confirm the summary information.

Note: Continuing with the installation formats and partitions the necessary disk space and installs the operating system and application. If there is any data on the hard disk that cannot be erased, cancel the installation and back up the information before proceeding.

If any of the information on this screen requires a different configuration, click **Back**.

16. Click **Next** to continue and click **Continue** at the confirmation message. The Installation Progress screen appears.

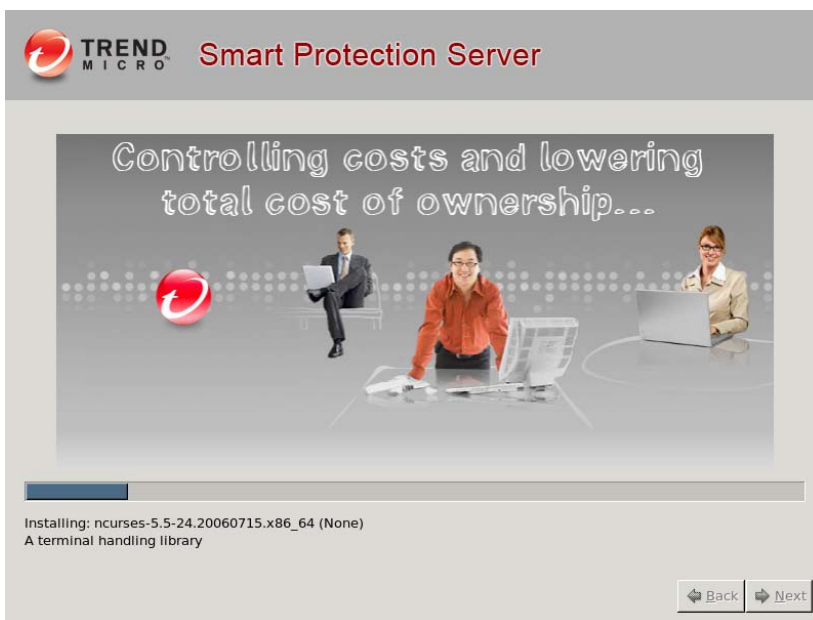


FIGURE 2-10. Installation Progress screen

17. A message appears when the installation completes. The installation log is saved in the `/root/install.log` file for reference.

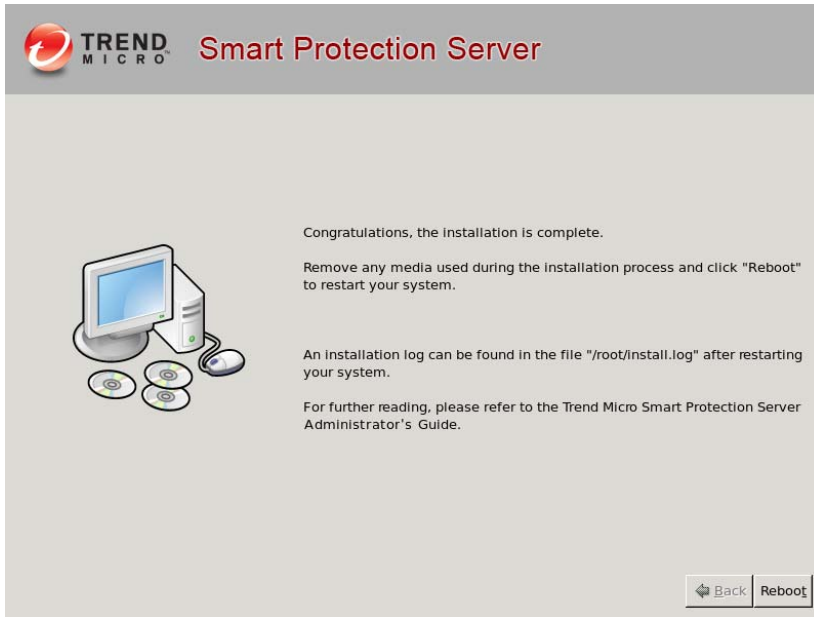


FIGURE 2-11. Installation Complete screen

18. Click **Reboot** to restart the virtual machine. The initial product Command Line Interface (CLI) logon screen appears and displays the client connection addresses and the web console URL.

Tip: Trend Micro recommends disconnecting the CD ROM device from the virtual machine after Smart Protection Server is installed.

19. Use admin to log on to the product CLI or the web console to manage Smart Protection Server. Log on to the web console to perform post installation tasks such as configuring proxy settings. Log on to the CLI shell if you need to perform additional configuration, troubleshooting, or maintenance tasks.

Note: Use root to log on to the operating system shell with full privileges.

```
Trend Micro Smart Protection Server

Use one of the following addresses with your Trend Micro client management
products for File Reputation connections:

https:// IPv4 addr /tmcss
http:// IPv4 addr /tmcss
https://[ IPv6 addr ]/tmcss
http://[ IPv6 addr ]/tmcss
https://TMSPS25.trendmicro.com/tmcss
http://TMSPS25.trendmicro.com/tmcss

Use the following address with your Trend Micro client management products
for Web Reputation connections:

http:// IPv4 addr :5274
http://[ IPv6 addr ]:5274
http://TMSPS25.trendmicro.com:5274

Use the following URL to access the Web product console:

https:// IPv4 addr :4343
https://[ IPv6 addr ]:4343
https://TMSPS25.trendmicro.com:4343
```

FIGURE 2-12. CLI Log On screen

20. Perform post installation tasks. See [Post-Installation Tasks](#) on page 3-1.

Upgrading to Smart Protection Server

Upgrade to this version of Smart Protection Server from Smart Protection Server 2.1 or 2.0.

TABLE 2-2. Version Upgrade Details

VERSION	REQUIREMENTS
Upgrading to Smart Protection Server 2.5	<ul style="list-style-type: none">• Ensure that System Requirements are met before installation. See System Requirements on page 1-2.• Smart Protection Server 2.1 or 2.0• Clear the browsers temporary Internet files before logging on to the web console.

The web service is disabled for about 5 minutes during the upgrade process. During this time, endpoints will not be able to send queries to Smart Protection Server. Trend Micro recommends redirecting endpoints to another Smart Protection Server for the duration of the upgrade. If there is only one Smart Protection Server installed on your network, Trend Micro recommends planning the upgrade for off-peak times. Suspicious files will be logged and scanned immediately once connection to Smart Protection Server is restored.

Note: SOCKS4 proxy configuration has been removed from Smart Protection Server. After upgrading to this version, if in the previous version SOCKS4 was configured for the proxy settings, the proxy settings need to be re-configured.

To upgrade Smart Protection Server:

1. Log on to the web console.
2. Click **Updates** from the main menu. A drop down menu appears.
3. Click **Program**. The Program screen appears.
4. Under Upload Component, click **Browse**. The Choose File to Upload screen appears.
5. Select the upgrade file from the Choose File to Upload screen.
6. Click **Open**. The Choose File to Upload screen closes and the file name appears in the **Upload program package** text box.
7. Click **Update**.

After upgrading Smart Protection Server, perform post installation tasks. See [Post-Installation Tasks on page 3-1](#)



Chapter 3

Post-Installation Tasks

This chapter includes information about post installation tasks.

Topics include:

- *Post-Installation* on page 3-2
- *Initial Configuration* on page 3-3

Post-Installation

Trend Micro recommends performing the following post-installation tasks:

- After installing Smart Protection Server with Hyper-V, enable Hyper-V Integration Components to increase capacity. Ensure that a Network Adapter is available before enabling Hyper-V Integration Components. Enable Hyper-V Integration Components from the Command Line Interface (CLI) with your admin account by typing:

```
enable
```

```
enable hyperv-ic
```

- If you installed with minimum system requirements, disable the Blocked Web Access Log from the Command Line Interface (CLI) with your admin account by typing:

```
enable
```

```
disable adhoc-query
```

- Perform initial configuration. See [Initial Configuration on page 3-3](#)
- Configure Smart Protection Server settings on other Trend Micro products that support smart scan solutions.

Note: The Real Time Status widget and Smart Protection Server CLI console display Smart Protection Server addresses.

VMWare Tools do not need to be installed after installing Smart Protection Server. The server kernel module contains the VMWare Tools module (vmxnet3) Smart Protection Server requires.

Initial Configuration

Perform the following tasks after installation:

- 1. Log on to the web console. The first time installation wizard appears.
- 2. Select the **Enable File Reputation Service** check box to use File reputation.

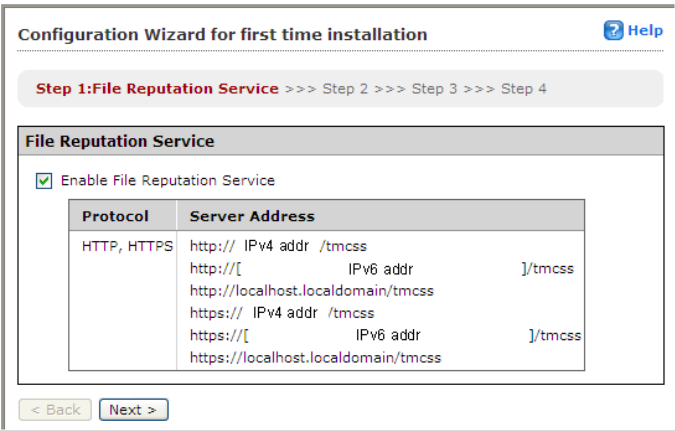


FIGURE 3-13. Configure File Reputation Settings

3. Click **Next**. The Web Reputation Service screen appears.
4. Select the **Enable Web Reputation Service** check box to enable Web Reputation.

Configuration Wizard for first time installation [Help](#)

Step 1 >>> **Step 2: Web Reputation Service** >>> Step 3 >>> Step 4

Web Reputation Service

☒ Enable Web Reputation Service

Protocol	Server Address
HTTP	http:// IPv4 addr :5274
	http:// IPv6 addr :5274
	http://localhost.localdomain:5274

Advanced Settings ⓘ

Filter Priority

1. Blocked URLs ▼
2. Approved URLs
3. Web Blocking List

< Back Next >

FIGURE 3-14. Configure Web Reputation Settings

5. (Optional) Click **Advanced Settings** to configure the filter priority. The filter priority settings allow you to specify the filter order for URL queries.

6. Click **Next**. The Smart Feedback screen appears.

The screenshot shows a web-based configuration wizard titled "Configuration Wizard for first time installation". At the top right is a "Help" icon. Below the title is a progress bar with four steps: "Step 1 >>> Step 2 >>> Step 3: Smart Feedback >>> Step 4". Step 3 is highlighted in red. Below the progress bar is a box containing the Trend Micro Smart Protection Network logo and text: "TREND MICRO™ SMART PROTECTION NETWORK". Below this is a paragraph: "The Trend Micro Smart Protection Network is a next generation cloud-client content security infrastructure protection against the latest threats." followed by a "Learn more" link with an external icon. Below this is a section titled "Smart Feedback" with a grey header. The text inside says: "When enabled, Trend Micro Smart Feedback shares anonymous threat information with the Smart Protection Network, allowing Trend Micro to rapidly identify and address new threats. You can disable Smart Feedback anytime through this console." Below this text is a checkbox labeled "Enable Trend Micro Smart Feedback (recommended)" which is checked. Below the checkbox is a label "Your industry (optional):" followed by a dropdown menu showing "Not specified (DEFAULT SELECTION)". At the bottom are two buttons: "< Back" and "Next >".

FIGURE 3-15. Smart Feedback

7. Select to use Smart Feedback to help Trend Micro provide faster solutions for new threats.

8. Click **Next**. The Proxy Settings screen appears.

The screenshot shows a web-based configuration wizard titled "Configuration Wizard for first time installation". At the top right is a "Help" icon. Below the title is a progress bar with four steps: "Step 1 >>> Step 2 >>> Step 3 >>> Step 4: Proxy Settings". The "Proxy Settings" section is highlighted. It contains a checkbox labeled "Use a proxy server". Below this, there are two radio buttons for "Proxy protocol": "HTTP" (selected) and "SOCKS5". There are input fields for "Server name or IP address:", "Port:", "Proxy server authentication:", "User ID:", and "Password:". At the bottom of the form are two buttons: "< Back" and "Finish".

FIGURE 3-16. Proxy Settings

9. Specify proxy settings if your network uses a proxy server.
10. Click **Finish** to complete the initial configuration of Smart Protection Server. The Summary screen of the web console displays.

Note: Smart Protection Server will automatically update pattern files after initial configuration.



Chapter 4

Troubleshooting and Contact Information

Trend Micro is committed to providing service and support that exceeds our users' expectations. This chapter contains information on how to get technical support. Remember, you must register your product to be eligible for support.

Topics include:

- *Before Contacting Technical Support* on page 4-2
- *Contacting Trend Micro* on page 4-2
- *TrendLabs* on page 4-3
- *Known Issues* on page 4-3
- *Frequently Asked Questions* on page 4-4

Before Contacting Technical Support

Before contacting technical support, here are two things you can quickly do to try and find a solution to your problem:

- **Check your documentation:** Search the product documentation to see if they contain your solution.
- **Visit the Trend Micro Technical Support Website:** The Trend Micro Technical Support website contains the latest information about all Trend Micro products. The support web site has answers to previous user inquiries.

To search the Knowledge Base, visit

<http://esupport.trendmicro.com/>

Contacting Trend Micro

In addition to phone support, Trend Micro provides the following resources:

- **Readme:** late-breaking product news, installation instructions, known issues, and version specific information
- **Knowledge Base:** technical information procedures provided by the Support team:
<http://esupport.trendmicro.com/>
- **Product updates and patches**
<http://www.trendmicro.com/download/>
- **To locate the Trend Micro office nearest you, visit:**
<http://us.trendmicro.com/us/about-us/contact/index.html>
- **Email support**
support@trendmicro.com

To speed up the problem resolution, when you contact our staff please provide as much of the following information as you can:

1. Product build version
2. Virtualization platform (VMware™ or Hyper-V™) and version
3. Exact text of the error message, if any
4. Steps to reproduce the problem
5. Collect system information from the web console.

TrendLabs

Trend Micro TrendLabsSM is a global network of virus prevention and web threat research and product support centers providing continuous 24/7 coverage to Trend Micro customers worldwide.

Staffed by a team of more than 250 engineers and skilled support personnel, the TrendLabs dedicated service centers worldwide ensure rapid response to any virus outbreak or urgent customer support issue, anywhere in the world.

The TrendLabs modern headquarters has earned ISO 9002 certification for its quality management procedures in 2000 - one of the first antivirus research and support facilities to be so accredited. Trend Micro believes TrendLabs is the leading service and support team in the antivirus industry.

For more information about TrendLabs, visit:

<http://www.trendmicro.com/en/security/trendlabs/overview.htm>

Known Issues

Known issues document unexpected product behavior that might require a temporary work around. Trend Micro recommends always checking the Readme file for information about system requirements and known issues that could affect installation or performance. Readme files also contain a description of what's new in a particular release, and other helpful information.

The latest known issues and possible workarounds can also be found in the Trend Micro Knowledge Base:

<http://esupport.trendmicro.com>

Frequently Asked Questions

How do I log on to the Command Line Interface (CLI)?

CLI commands allow administrators to perform configuration tasks and to perform debugging and troubleshooting functions.

Administrators can log on to CLI through CLI or the SSH console.

To log on to the Command Line Interface (CLI):

- Log on to the Command Line Interface (CLI) using the "admin" account through the SSH connection.

Why Does the Smart Protection Server IP Address Disappear When I Use the CLI to Enable Hyper-V Integration Components on a Non-Hyper-V Machine?

Microsoft™ Hyper-V Integration Components should only be enabled on Microsoft™ Hyper-V machines. The Smart Protection Server IP address no longer appears if Hyper-V Integration Components are enabled on a non-Hyper-V machine as illustrated in [Figure 4-1](#). If Hyper-V Integration Components are enabled on a non Hyper-V machine, you will not be able to connect to Smart Protection Server through the network.

```
Trend Micro Smart Protection Server

Use one of the following addresses with your Trend Micro client management
products for File Reputation connections:

https:///tmcss
http:///tmcss

Use the following address with your Trend Micro client management products
for Web Reputation connections:

http://:5274

Use the following URL to access the Web product console:

https://:4343

You will be prompted for your administrator account and password.
Please have your administrator account and password ready for authentication.

Use the following log on prompt to access the Command Line Interface (CLI):

test login:
```

FIGURE 4-1. IP address no longer appears

Note: On Microsoft™ Hyper-V machines, the IP address may disappear if a network adapter is not connected.

To rollback the network setting:

1. Log on to the Command Line Interface (CLI) using admin.
2. Type the following commands:

```
enable
configure service interface eth0
```

Can Other Linux Software Be Installed on the Smart Protection Server?

Trend Micro does not recommend installing other Linux software on the Smart Protection Server virtual environment. Installing other Linux software may adversely affect the performance of the server and other applications might not work properly due to security settings on the Smart Protection Server.

How Do I Change the Smart Protection Server IP Address?

To change an IPv4 address:

1. Log on to the Command Line Interface (CLI) using admin.
2. Type the following commands:

```
enable  
configure ipv4 static <new ipv4 add> <subnet> <v4gateway>
```
3. Verify the changes by typing the following command:

```
show ipv4 address
```
4. Restart the machine.

To change an IPv6 address:

1. Log on to the Command Line Interface (CLI) using admin.
2. Type the following commands:

```
enable  
configure ipv6 static <new ipv6 add> <prefix> <v6gateway>
```
3. Verify the changes by typing the following command:

```
show ipv6 address
```
4. Restart the machine.

How Do I Change the Smart Protection Server Hostname?

To change the hostname:

1. Log on to the Command Line Interface (CLI) using admin.
2. Type the following commands:

```
enable  
configure hostname <hostname>
```
3. Verify the changes by typing the following command:

```
show hostname
```

How Do I Perform an Upgrade If a Pattern is Updating?

Trend Micro recommends waiting until a pattern finishes updating before performing an upgrade. To prevent an update from occurring while upgrading disable scheduled updates.

To change the Pattern Update configuration:

1. Log on to the Smart Protection Server web management console using admin.
2. Click **Updates > Pattern**.
3. Disable scheduled updates.
4. Click **Save**.

Note: After performing an upgrade, remember to enable the scheduled updates.

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