

Reimage the appliance with a PXE boot server

Slide 1

Tivoli

IBM

IBM Security Network Intrusion Prevention System V4.1

Reimage the appliance with a PXE boot server



This is a self-running demonstration that shows you how to complete a task.
Controls are available at the bottom of the screen.

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Slide 2



Objectives

When you complete this module, you will be able to:

- Retrieve the appliance ISO image from the IBM Download Center
- Use a PXE boot server to install firmware on an appliance

Slide 3



Retrieving an ISO image

- To restore or reimage your IBM Security Network Intrusion Prevention System appliance with firmware version 4.1, you must first download the ISO image for this firmware release from the [IBM Download Center](#)
- Use the ISO to create a CD that can be used in a PXE boot server or USB CD-ROM drive to restore or reimage your appliance

Reimage the appliance with a PXE boot server

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The screenshot displays the IBM Internet Security Systems website. The header includes the logo and tagline "Ahead of the threat.™" and navigation links for "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", and "T". A "Quick Links" sidebar on the left lists options like "HOME", "DOWNLOAD CENTER", "MY ACCOUNT", "PRODUCT SUPPORT", "CONTACT US", "FEEDBACK", and "SIGN OUT". The main content area features a "PRODUCT DOWNLOADS" section with a "Select A Product" dropdown menu currently set to "BETA" and a "GO" button. Below this is a "LATEST CONTENT UPDATES" list. To the right, there are "LATEST UPDATES" and "BETA DOWNLOADS" sections. A purple callout box at the top right states: "This demonstration shows you how to locate the ISO image for firmware version 4.1." A yellow callout box points to the "Select A Product" dropdown, instructing: "Click the **Select a Product** list and select **Proventia Network IPS (GX-Series)**."

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The screenshot displays the IBM Internet Security Systems website. At the top, the logo reads "IBM Internet Security Systems Ahead of the threat.™". Navigation links include "ISS Home", "ISS Worldwide", "Investor Relations", and "Careers". A search bar is present with the text "Keyword Search" and a "GO" button. A secondary navigation bar contains "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

The main content area is divided into several sections:

- Quick Links:** A vertical menu on the left with items: HOME, DOWNLOAD CENTER, MY ACCOUNT (with sub-links: My Profile, Change Password, OneTrust Credential Token), PRODUCT SUPPORT, CONTACT US, FEEDBACK, and SIGN OUT.
- PRODUCT DOWNLOADS:** A central section with a "Select A Product" dropdown menu. The menu is open, showing "BETA" selected. Below the dropdown is a list of products: Database Scanner, DoD Advisory Content, Enterprise Scanner, Enterprise Scanner Beta, FIPS enabled systems, Hosted Vulnerability Management Serv, IBM Security Server Protection, Internet Scanner, MSL, NIAP EAL2 - Prov. A/G, Net. Snsr, SiteP, NIAP EAL2 Prov. Desktop, Prov. Server, NIAP EAL2-PP Proventia GX 1.3 and Sit, NIAP EAL2PP - Prov. GX6116 ver.2.2, S, Other, Proventia A Series, Proventia Desktop, Proventia Desktop Access Control, Proventia Desktop for Vista Technolog, Proventia Endpoint Secure Control, Proventia G Series, Proventia M Series, Proventia Mail Filter, and Proventia Management SiteProtector A.
- LATEST UPDATES:** A list of updates with arrows pointing to the right: Proventia Server for Linux 1.5.2, MSS VMS CD 2.0.3, Proventia Network IPS GX7800 Firmware v4.3, Proventia 10G Network Active Bypass, and Proventia G2000 Firmware Update v1.8.
- BETA DOWNLOADS:** A section with a header and a blank box below it.
- SPECIAL DOWNLOADS:** A section with a header and a blank box below it.

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Slide 6

The screenshot displays the IBM Internet Security Systems website. At the top, the logo reads "IBM Internet Security Systems Ahead of the threat.™". Navigation links include "ISS Home", "ISS Worldwide", "Investor Relations", and "Careers". A search bar is present with the text "Keyword Search" and a "GO" button. A secondary navigation bar contains "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

The main content area is divided into several sections:

- Quick Links:** A vertical list of links including HOME, DOWNLOAD CENTER, MY ACCOUNT (with sub-links for My Profile, Change Password, and OneTrust Credential Token), PRODUCT SUPPORT, CONTACT US, FEEDBACK, and SIGN OUT.
- PRODUCT DOWNLOADS:** A section titled "Select A Product" with a dropdown menu currently set to "BETA". The dropdown list includes: NIAP EAL2 Prov. Desktop, Prov. Server; NIAP EAL2-PP Proventia GX 1.3 and Sit; NIAP EAL2PP - Prov. GX6116 ver.2.2, S; Other; Proventia A Series; Proventia Desktop; Proventia Desktop Access Control; Proventia Desktop for Vista Technolog; Proventia Endpoint Secure Control; Proventia G Series; Proventia M Series; Proventia Mail Filter; Proventia Management SiteProtector A; Proventia Management SiteProtector M; Proventia Network ADS - Beta; Proventia Network Active Bypass; Proventia Network Anomaly Detection S; Proventia Network Enterprise Scanner; Proventia Network IPS (GX-Series); Proventia Network IPS for Crossbeam; Proventia Network Intrusion Prevention; Proventia Network Mail Security System; Proventia Network Security Controller; and Proventia Server.
- LATEST UPDATES:** A list of updates with arrows pointing to the right: Proventia Server for Linux 1.5.2; MSS VMS CD 2.0.3; Proventia Network IPS GX7800 Firmware v4.3; Proventia 10G Network Active Bypass; and Proventia G2000 Firmware Update v1.8.
- BETA DOWNLOADS:** A section with a header and a blank box below it.
- SPECIAL DOWNLOADS:** A section with a header and a blank box below it.

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ISS Home | ISS Worldwide | Investor Relations | Careers

ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Quick Links

- HOME
- DOWNLOAD CENTER
- MY ACCOUNT
 - My Profile
 - Change P...
 - OneTrust
- PRODUCT SUPPORT
- CONTACT US
- FEEDBACK
- SIGN OUT

PRODUCT DOWNLOADS

Select A Product

LATEST CONTENT UPDATES

- ➔ Proventia Network - Content Update 31.092
- ➔ Proventia and RealSecure Host Content Updates - 31.092 and 2685
- ➔ Enterprise Scanner Content Update 1.85 (CAM)
- ➔ Internet Scanner 7.0 SP2 - 7.2.99
- ➔ Proventia and RealSecure Host Content Updates - 31.090 and 2680
- ➔ Proventia Network - Content Update 31.090
- ➔ Internet Scanner 7.0 SP2 - 7.2.98
- ➔ Enterprise Scanner Content Update 1.84 (CAM)
- ➔ Proventia and RealSecure Host Content Updates - 31.082 and 2675
- ➔ Proventia Network - Content Update 31.082

LATEST UPDATES

- ➔ Proventia Server for Linux 1.5.2
- ➔ MSS VMS CD 2.0.3
- ➔ Proventia Network IPS GX7800 Firmware v4.3
- ➔ Proventia 10G Network Active Bypass
- ➔ Proventia G2000 Firmware Update v1.8

BETA DOWNLOADS

SPECIAL DOWNLOADS

Click Go.

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The screenshot displays the IBM Internet Security Systems website interface. At the top, the logo reads "IBM Internet Security Systems Ahead of the threat.™". Navigation links include "ISS Home", "ISS Worldwide", "Investor Relations", and "Careers". A search bar is present with the text "Keyword Search" and a magnifying glass icon. A horizontal menu contains "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

On the left, a "Quick Links" sidebar lists: HOME, DOWNLOAD CENTER, MY ACCOUNT (with a sub-menu for My Profile, Change Password, and OneTrust Credential Token), PRODUCT SUPPORT (with a sub-menu), CONTACT US, FEEDBACK, and SIGN OUT.

The main content area features the "ENTERPRISE PRODUCT DOWNLOADS" section. It contains two dropdown menus: "Product" (set to "Proventia Network IPS (GX-Series)") and "Version" (set to "Select a Version"). A yellow callout box with a pointer to the "Version" dropdown contains the text: "Click the **Version** list and select **GX6116**."

At the bottom, there are links for "Site Map", "Privacy Policy", "Terms of Use", and "Trademarks", followed by the copyright notice: "©2011 IBM Internet Security Systems. All rights reserved worldwide."

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The screenshot displays the IBM Internet Security Systems website. At the top, the logo reads "IBM Internet Security Systems Ahead of the threat.™". Navigation links include "ISS Home", "ISS Worldwide", "Investor Relations", and "Careers". A search bar is present with the text "Keyword Search" and a magnifying glass icon. A secondary navigation bar contains links for "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

The main content area features a "Quick Links" sidebar on the left with the following items: HOME, DOWNLOAD CENTER, MY ACCOUNT (with an upward arrow), My Profile, Change Password, OneTrust Credential Token, PRODUCT SUPPORT (with a downward arrow), CONTACT US, FEEDBACK, and SIGN OUT.

The central focus is the "ENTERPRISE PRODUCT DOWNLOADS" section. It contains two dropdown menus. The first, labeled "Product", is set to "Proventia Network IPS (GX-Series)". The second, labeled "Version", is currently open, showing a list of version numbers: "Select a Version", "GX5208", "GV200", "GX7800", "GX7412", "GV1000", "GX4004C-V2-200", "GX6116", "GX3002", "GX5108", "GX5008", "GX4004", and "GX4002".

At the bottom of the page, there are links for "Site Map", "Privacy Policy", "Terms of Use", and "T...". A copyright notice reads "©2011 IBM Internet Security Systems. All rights reserved".

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The screenshot displays the IBM Internet Security Systems website. At the top, the logo reads "IBM Internet Security Systems Ahead of the threat.™". Navigation links include "ISS Home", "ISS Worldwide", "Investor Relations", and "Careers". A search bar is present with the text "Keyword Search" and a magnifying glass icon. A secondary navigation bar contains links for "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

On the left side, a "Quick Links" menu is visible, listing: HOME, DOWNLOAD CENTER, MY ACCOUNT (with a sub-menu for My Profile, Change Password, and OneTrust Credential Token), PRODUCT SUPPORT, CONTACT US, FEEDBACK, and SIGN OUT.

The main content area features a section titled "ENTERPRISE PRODUCT DOWNLOADS". It contains two dropdown menus. The "Product" dropdown is set to "Proventia Network IPS (GX-Series)". The "Version" dropdown is open, showing a list of version numbers: GX5208, GV200, GX7800, GX7412, GV1000, GX4004C-V2-200, GX6116 (highlighted in blue), GX3002, GX5108, GX5008, GX4004, and GX4002.

At the bottom of the page, there are links for "Site Map", "Privacy Policy", "Terms of Use", and "T...". A copyright notice reads "©2011 IBM Internet Security Systems. All rights reserved".

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ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Quick Links

- HOME
- DOWNLOAD CENTER
- MY ACCOUNT
- My Profile
- Change Password
- OneTrust Credential Token
- PRODUCT SUPPORT
- CONTACT US
- FEEDBACK
- SIGN OUT

ENTERPRISE PRODUCT DOWNLOADS

Product: Version:

Show entries Search:

File Group	Release Date	
Proventia Network - Content Update 31.082	2011-9-9	Continue
Proventia Network - Content Update 31.080	2011-9-7	Continue
Proventia Network - Content Update 31.092	2011-9-27	Continue
Proventia Network - Content Update 31.090	2011-9-13	Continue
Proventia Network - Content Update 31.060	2011-7-5	Continue
Proventia Network - Content Update 31.070	2011-7-13	Continue
Proventia Network - Content Update 31.050	2011-5-11	Continue
Proventia Network - Content Update 31.041		
Proventia Network - Content Update 31.040		
Proventia Network - Content Update 31.031	2011-4-14	Continue

Showing 1 to 10 of 28 entries

Click the **Next** button.

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Quick Links

- HOME
- DOWNLOAD CENTER
- MY ACCOUNT
- My Profile
- Change Password
- OneTrust Credential Token
- PRODUCT SUPPORT
- CONTACT US
- FEEDBACK
- SIGN OUT

ENTERPRISE PRODUCT DOWNLOADS

Product: Version:

Show entries Search:

File Group	Release Date	
Proventia Network - Content Update 31.030	2011-3-17	Continue
Proventia Network - Content Update 31.021	2011-2-23	Continue
Proventia Network - Content Update 31.020	2011-2-18	Continue
Proventia Content Update 31.020	2011-2-17	Continue
Proventia IPS 4.1 Firmware - Undeployed Site Protector Policy Migration Script	2010-7-8	Continue
Proventia GX6116 Firmware 4.1 Recovery Image	2010-6-17	Continue
Proventia GX6116 Firmware Update v3.3 and v4.1	2010-6-10	Continue
Proventia GX6116 Firmware Update v2.5 and v4.1	2010-6-10	Continue
Proventia GX6116 Firmware v4.3 Recovery Image	2010-11-22	Continue
Proventia Network IPS Firmware v4.3	2010-11-18	Continue

Showing 11 to 20 of 28 entries

Click **Continue**.

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IBM Internet Security Systems Ahead of the threat.™

ISS Home | ISS Worldwide | Investor Relations | Careers | Keyword Search

ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Quick Links

- HOME
- DOWNLOAD CENTER
- MY ACCOUNT ^
 - My Profile
 - Change Password
 - OneTrust Credential Token
- PRODUCT SUPPORT v
- CONTACT US
- FEEDBACK
- SIGN OUT

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NOTE: If you do not accept the license agreement(s) for the product you have chosen, you will not be able to download any file for that product.

END USER LICENSE AGREEMENT

English [en] v

License Agreement International Program ^

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ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Quick Links

- HOME
- DOWNLOAD CENTER
- MY ACCOUNT ^
 - My Profile
 - Change Password
 - OneTrust Credential Token
- PRODUCT SUPPORT v
- CONTACT US
- FEEDBACK
- SIGN OUT

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NOTE: If you do not accept the license agreement(s) for the product you have chosen, you will not be able to download any file for that product.

END USER LICENSE AGREEMENT

English [en] v

License Agreement International Program ^

Part 1 - General Terms

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Agree I Do Not Agree

Click **Submit.**

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ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Quick Links

- HOME
- DOWNLOAD CENTER
- MY ACCOUNT
 - My Profile
 - Change Password
 - OneTrust Credential Token
- PRODUCT SUPPORT
- CONTACT US
- FEEDBACK
- SIGN OUT

Show entries

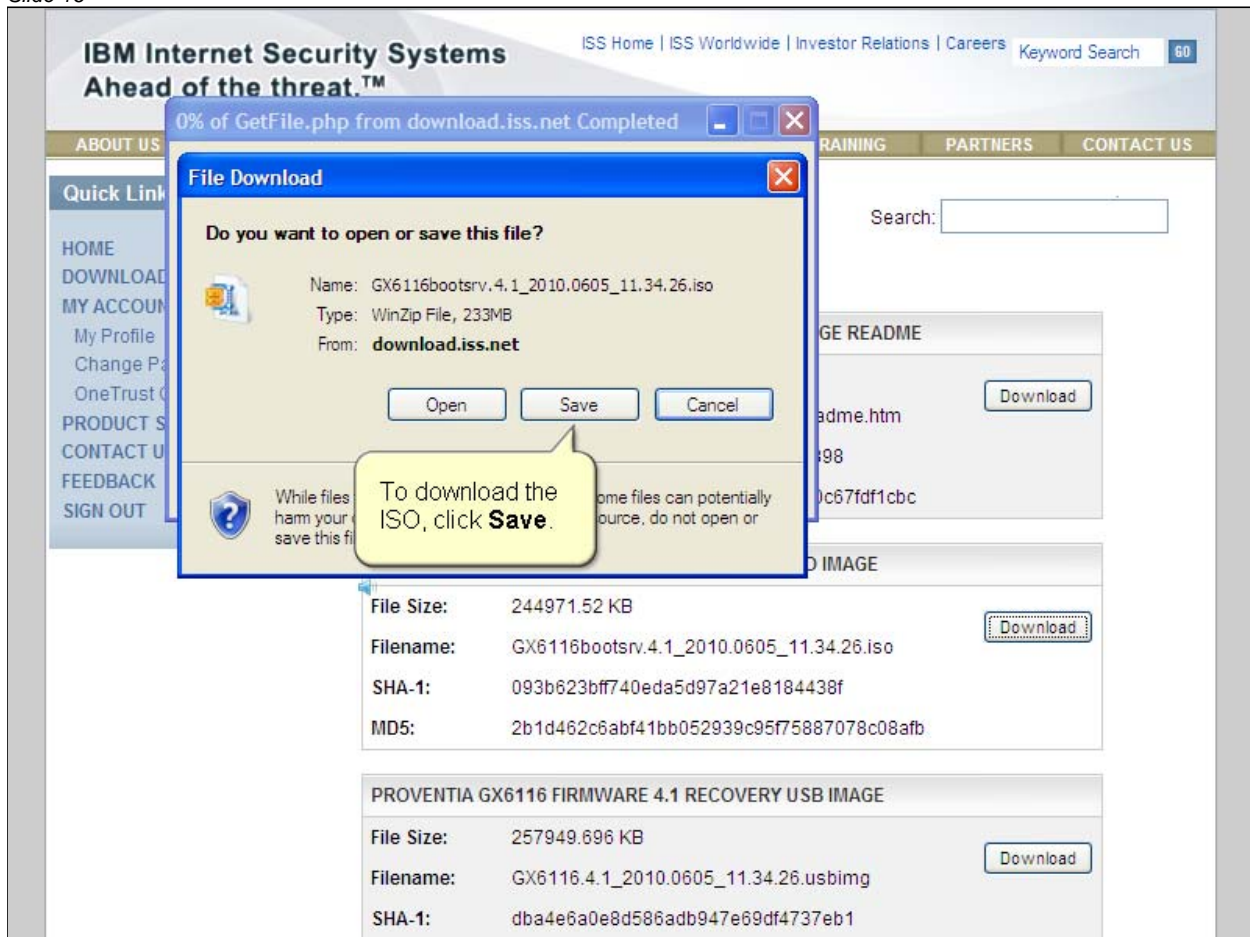
File Downloads

PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY IMAGE README	
File Size:	9.498 KB <input type="button" value="Download"/>
Filename:	Proventia_Network_IPS_FW4.1_Readme.htm
SHA-1:	dcce0ee76eec82ee473efde0f60ab898
MD5:	c3b222ec591d1ff120e58aad256df90c67fdf1cbc
PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY ISO IMAGE	
File Size:	244971.52 KB <input type="button" value="Download"/>
Filename:	GX6116bootsrv.4.1_2010.0605_11.34.26.iso
SHA-1:	093b623bff740eda5d97a21e8184438f
MD5:	2b1d462c6abf41bb052939c95f75887078c08afb
PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE	
File Size:	257949.696 KB <input type="button" value="Download"/>
Filename:	GX6116.4.1_2010.0605_11.34.26.usbimg
SHA-1:	dba4e6a0e8d586adb947e69df4737eb1

Click **Download**.

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The screenshot displays the IBM Internet Security Systems website interface. A file download dialog box is open, asking the user to open or save the file. The dialog box contains the following information:

- Name: GX6116bootsrv.4.1_2010.0605_11.34.26.iso
- Type: WinZip File, 233MB
- From: download.iss.net

The dialog box has three buttons: Open, Save, and Cancel. A yellow callout box points to the Save button with the text: "To download the ISO, click **Save**."

The background shows the website's navigation menu and a list of files for download. The files listed are:

- File Size: 244971.52 KB
- Filename: GX6116bootsrv.4.1_2010.0605_11.34.26.iso
- SHA-1: 093b623bff740eda5d97a21e8184438f
- MD5: 2b1d462c6abf41bb052939c95f75887078c08afb

Below this, there is another file entry:

- File Size: 257949.696 KB
- Filename: GX6116.4.1_2010.0605_11.34.26.usbimg
- SHA-1: dba4e6a0e8d586adb947e69df4737eb1

Reimage the appliance with a PXE boot server

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The screenshot shows a web browser window displaying the IBM Internet Security Systems website. The page header includes the IBM logo and the slogan "Ahead of the threat.™". Navigation links for "ISS Home", "ISS Worldwide", "Investor Relations", and "Careers" are visible, along with a "Keyword Search" box. A "0% of GetFile.php from download.iss.net Completed" progress bar is shown at the top of the browser window.

A "Save As" dialog box is open, showing the "Downloads" folder selected. The file name is "GX6116bootsrv.4.1_2010.0605_11.34.26.iso" and the "Save as type" is "WinZip File". A yellow callout box with a blue border points to the "My Network" location in the left sidebar of the dialog, containing the text: "Navigate to a secure network location and click **Save**."

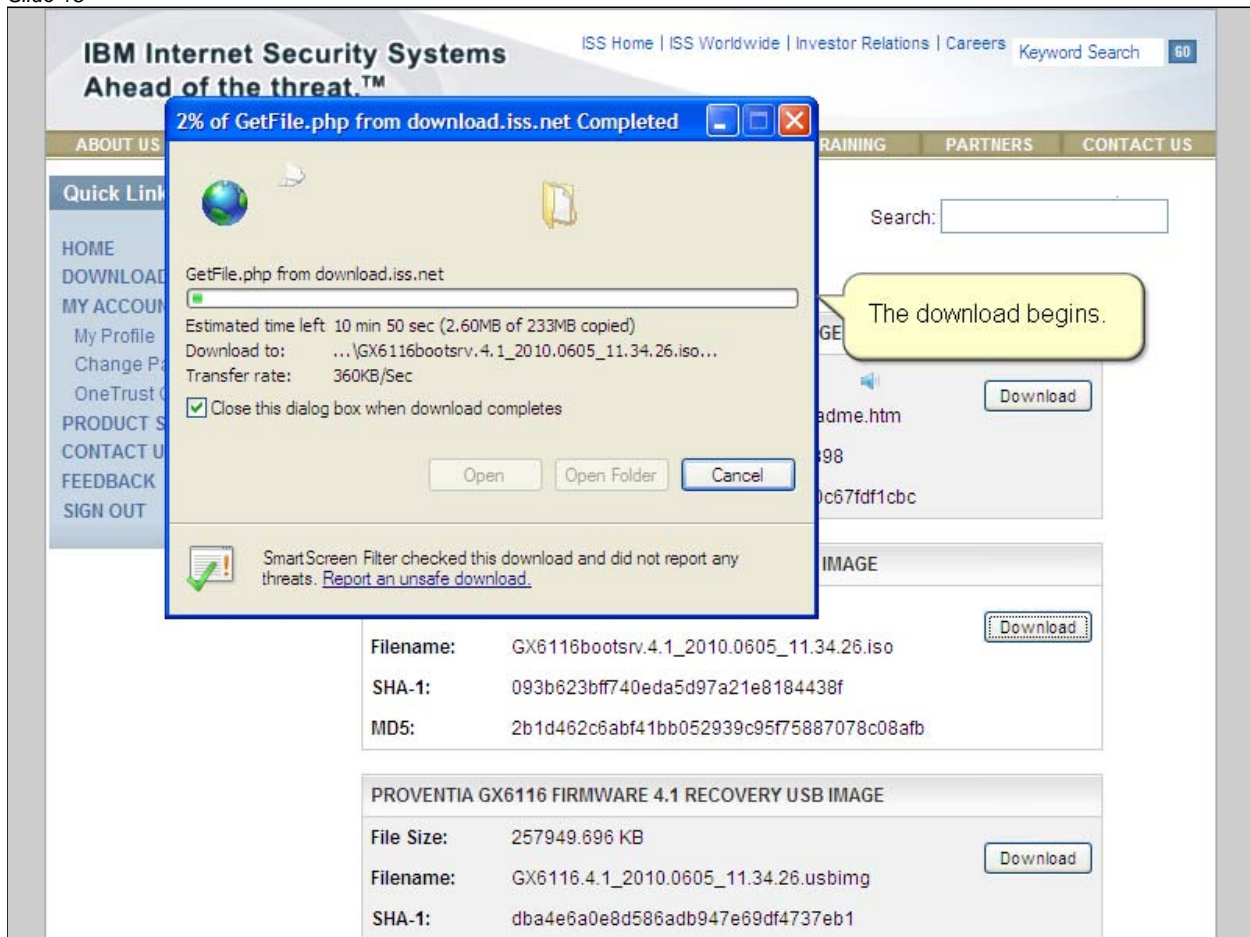
Below the dialog box, a file download page is visible for "PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE". The file details are as follows:

File Size:	257949.696 KB
Filename:	GX6116.4.1_2010.0605_11.34.26.usbimg
SHA-1:	dba4e6a0e8d586adb947e69df4737eb1

A "Download" button is located to the right of the file details.

Reimage the appliance with a PXE boot server

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The screenshot shows the IBM Internet Security Systems website with a download progress dialog box overlaid. The dialog box is titled "2% of GetFile.php from download.iss.net Completed" and shows a progress bar at 2%. It includes the following information:

- Estimated time left: 10 min 50 sec (2.60MB of 233MB copied)
- Download to: ... \GX6116bootsrv.4.1_2010.0605_11.34.26.iso...
- Transfer rate: 360KB/Sec
- Close this dialog box when download completes
- Buttons: Open, Open Folder, Cancel
- SmartScreen Filter checked this download and did not report any threats. [Report an unsafe download.](#)

The background website shows a search bar and a list of files for download:

Filename:	GX6116bootsrv.4.1_2010.0605_11.34.26.iso	Download
SHA-1:	093b623bff740eda5d97a21e8184438f	
MD5:	2b1d462c6abf41bb052939c95f75887078c08afb	
PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE		
File Size:	257949.696 KB	Download
Filename:	GX6116.4.1_2010.0605_11.34.26.usbimg	
SHA-1:	dba4e6a0e8d586adb947e69df4737eb1	

A yellow callout bubble points to the progress bar with the text "The download begins."

Reimage the appliance with a PXE boot server

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The screenshot shows the IBM Internet Security Systems website. A download progress dialog box is open in the foreground, titled "17% of GetFile.php from download.iss.net Completed". The dialog shows a progress bar at 17%, with the text "GetFile.php from download.iss.net" and "Estimated time left: 7 min 12 sec (38.1MB of 233MB copied)". The download location is "... \GX6116bootsrv.4.1_2010.0605_11.34.26.iso..." and the transfer rate is "463KB/Sec". There is a checkbox for "Close this dialog box when download completes" which is checked. At the bottom of the dialog, there is a SmartScreen Filter warning: "SmartScreen Filter checked this download and did not report any threats. Report an unsafe download." The background website shows a search bar, navigation links (ABOUT US, TRAINING, PARTNERS, CONTACT US), and a list of download links with "Download" buttons. The list includes:

- PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE
- File Size: 257949.696 KB
- Filename: GX6116.4.1_2010.0605_11.34.26.usbimg
- SHA-1: dba4e6a0e8d586adb947e69df4737eb1

Reimage the appliance with a PXE boot server

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The screenshot shows the IBM Internet Security Systems website. A download progress dialog box is overlaid on the page, titled "58% of GetFile.php from download.iss.net Completed". The dialog box displays a progress bar at 58%, the estimated time left as 3 min 35 sec (133MB of 233MB copied), and the transfer rate as 474KB/Sec. It also includes a checkbox for "Close this dialog box when download completes" which is checked, and buttons for "Open", "Open Folder", and "Cancel". A SmartScreen Filter notification is visible at the bottom of the dialog box, stating "SmartScreen Filter checked this download and did not report any threats. Report an unsafe download." The background website shows navigation links, a search bar, and several download links for firmware and recovery images.

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ABOUT US TRAINING PARTNERS CONTACT US

Quick Links

- HOME
- DOWNLOAD
- MY ACCOUNT
 - My Profile
 - Change Password
 - OneTrust
- PRODUCTS
- CONTACT US
- FEEDBACK
- SIGN OUT

Search:

Download

Download

Download

Download

Download

Filename:	GX6116bootsrv.4.1_2010.0605_11.34.26.iso
SHA-1:	093b623bff740eda5d97a21e8184438f
MD5:	2b1d462c6abf41bb052939c95f75887078c08afb

PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE

File Size:	257949.696 KB
Filename:	GX6116.4.1_2010.0605_11.34.26.usbimg
SHA-1:	dba4e6a0e8d586adb947e69df4737eb1

Reimage the appliance with a PXE boot server

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The screenshot shows the IBM Internet Security Systems website with a download progress dialog box overlaid. The dialog box is titled "85% of GetFile.php from download.iss.net Completed" and shows a progress bar at 85%. It includes the following information:

- Estimated time left: 1 min 20 sec (196MB of 233MB copied)
- Download to: ... \GX6116bootsrv.4.1_2010.0605_11.34.26.iso...
- Transfer rate: 470KB/Sec
- Close this dialog box when download completes
- Buttons: Open, Open Folder, Cancel
- SmartScreen Filter checked this download and did not report any threats. [Report an unsafe download.](#)

The background website shows a search bar and a list of files for download:

adme.htm	Download
98	
0c67fdf1cbc	
IMAGE	
	Download
Filename: GX6116bootsrv.4.1_2010.0605_11.34.26.iso	
SHA-1: 093b623bff740eda5d97a21e8184438f	
MD5: 2b1d462c6abf41bb052939c95f75887078c08afb	
PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE	
File Size: 257949.696 KB	
Filename: GX6116.4.1_2010.0605_11.34.26.usbimg	
SHA-1: dba4e6a0e8d586adb947e69df4737eb1	
	Download

Reimage the appliance with a PXE boot server

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The screenshot shows the IBM Internet Security Systems website with a download progress dialog box overlaid. The dialog box is titled "99% of GetFile.php from download.iss.net Completed" and shows a progress bar at 99%. It includes the following information:

- Estimated time left: 2 sec (232MB of 233MB copied)
- Download to: ... \GX6116bootsrv.4.1_2010.0605_11.34.26.iso...
- Transfer rate: 466KB/Sec
- Close this dialog box when download completes

Buttons at the bottom of the dialog box are "Open", "Open Folder", and "Cancel". A SmartScreen Filter notification at the bottom left of the dialog box states: "SmartScreen Filter checked this download and did not report any threats. [Report an unsafe download.](#)"

The background website content includes the IBM logo and navigation links. The main content area displays a search bar and several download links with associated file information:

Filename:	GX6116bootsrv.4.1_2010.0605_11.34.26.iso	Download
SHA-1:	093b623bff740eda5d97a21e8184438f	
MD5:	2b1d462c6abf41bb052939c95f75887078c08afb	
PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE		
File Size:	257949.696 KB	
Filename:	GX6116.4.1_2010.0605_11.34.26.usbimg	Download
SHA-1:	dba4e6a0e8d586adb947e69df4737eb1	

Reimage the appliance with a PXE boot server

Slide 23

The screenshot shows the IBM Internet Security Systems website interface. The main header includes the logo and navigation links. A search bar is visible in the top right. The page content is partially obscured by two overlapping windows:

- 99% of GetFile.php from download.iss.net Completed**: A progress window showing the download status of a file.
- Copying...**: A file transfer window showing the file `GX6116bootsrv.4.1_2010.0605_11.34.26[1].iso` being copied from the 'Downloads' folder. It includes a progress bar and a '45 Seconds Remaining' indicator.
- SmartScreen Filter**: A warning message stating: "SmartScreen Filter checked this download and did not report any threats. [Report an unsafe download.](#)"

The background website content includes a search bar, a 'Download' button, and a table of file details:

Filename:	GX6116bootsrv.4.1_2010.0605_11.34.26.iso
SHA-1:	093b623bff740eda5d97a21e8184438f
MD5:	2b1d462c6abf41bb052939c95f75887078c08afb

Below this table, there is a section for **PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE** with the following details:

File Size:	257949.696 KB
Filename:	GX6116.4.1_2010.0605_11.34.26.usbimg
SHA-1:	dba4e6a0e8d586adb947e69df4737eb1

Reimage the appliance with a PXE boot server

Slide 24

The screenshot shows the IBM Internet Security Systems website interface. The main header includes the logo and navigation links. A search bar is visible in the top right. The page content is partially obscured by two overlapping windows:

- 99% of GetFile.php from download.iss.net Completed**: A progress window showing the download status of a file.
- Copying...**: A file transfer window showing the file `GX6116bootsrv.4.1_2010.0605_11.34.26[1].iso` being copied from the 'QGRZAB5' folder to the 'Downloads' folder. It includes a progress bar and a '20 Seconds Remaining' indicator.
- SmartScreen Filter**: A warning message stating: "SmartScreen Filter checked this download and did not report any threats. [Report an unsafe download.](#)"

The background website content includes a sidebar with navigation links (HOME, DOWNLOAD, MY ACCOUNT, etc.) and a main content area with a search bar and several download buttons for various files.

Filename:	GX6116bootsrv.4.1_2010.0605_11.34.26.iso
SHA-1:	093b623bff740eda5d97a21e8184438f
MD5:	2b1d462c6abf41bb052939c95f75887078c08afb

PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE	
File Size:	257949.696 KB
Filename:	GX6116.4.1_2010.0605_11.34.26.usbimg
SHA-1:	dba4e6a0e8d586adb947e69df4737eb1

Reimage the appliance with a PXE boot server

Slide 25

The screenshot shows the IBM Internet Security Systems website with a download progress window and a SmartScreen Filter warning. The progress window is titled "99% of GetFile.php from download.iss.net Completed" and shows a "Copying..." dialog box. The dialog box displays the file name "GX6116bootsrv.4.1_2010.0605_11.34.26[1].iso" and indicates that it is being copied from the "QGRZAB5" folder to the "Downloads" folder. A progress bar shows 99% completion, and a "5 Seconds Remaining" timer is visible. A "Cancel" button is present. Below the progress bar, a SmartScreen Filter warning states: "SmartScreen Filter checked this download and did not report any threats. [Report an unsafe download.](#)"

The background website content includes the following information:

- Header: IBM Internet Security Systems Ahead of the threat.™
- Navigation: ABOUT US, TRAINING, PARTNERS, CONTACT US
- Search: Search: [input field]
- Quick Links: HOME, DOWNLOAD, MY ACCOUNT, My Profile, Change Password, OneTrust, PRODUCT SUPPORT, CONTACT US, FEEDBACK, SIGN OUT
- Download Links: [Download](#) (multiple instances)
- File Details:
 - Filename: GX6116bootsrv.4.1_2010.0605_11.34.26.iso
 - SHA-1: 093b623bff740eda5d97a21e8184438f
 - MD5: 2b1d462c6abf41bb052939c95f75887078c08afb
- PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE
 - File Size: 257949.696 KB
 - Filename: GX6116.4.1_2010.0605_11.34.26.usbimg
 - SHA-1: dba4e6a0e8d586adb947e69df4737eb1

Reimage the appliance with a PXE boot server

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Ahead of the threat.™

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Quick Links

- HOME
- DOWNLOAD CENTER
- MY ACCOUNT
 - My Profile
 - Change Password
 - OneTrust Credential Token
- PRODUCT SUPPORT
- CONTACT US
- FEEDBACK
- SIGN OUT

Show entries

Search:

File Downloads

PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY IMAGE README

File Size: 9.498 KB

Filename: Proventia_Network_IPS_FW4.1_Readme.htm

SHA-1: dcce0ee76eec82ee473efde0f60ab898

MD5: c3b222ec591d1ff120e58aad256df90c67fdf1cbc

PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY ISO IMAGE

File Size: 244971.52 KB

Filename: GX6116bootsrv.4.1_2010.0605_11.34.26.iso

SHA-1: 093b623bff740eda5d97a21e8184438f

MD5: 2b1d462c6abf41bb052939c95f75887078c08afb

PROVENTIA GX6116 FIRMWARE 4.1 RECOVERY USB IMAGE

File Size: 257949.696 KB

Filename: GX6116.4.1_2010.0605_11.34.26.usbimg

SHA-1: dba4e6a0e8d586adb947e69df4737eb1

You might find it helpful to download the Readme file.

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Reimaging the appliance

Reimaging the IBM Security Network Intrusion Prevention System appliance:

- Erases all data from the system and returns it to the unconfigured factory default
- Requires that you attach two cables between the PXE boot server and the appliance:
 - A serial console cable
 - A crossover cable

Important: Reimage your appliance under the guidance of [IBM Technical Support](#)

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Reimage the appliance with a PXE boot server

Slide 28

MS-DOS VMware Remote Console Devices

IBM Internet Security Systems
Proventia GX4000 Series Boot Server CD (4.1_2010.0605_11.34.26)

CAUTION: Booting with the Boot Server CD creates a temporary PXE boot server that can be used to reinstall your appliance. Booting your appliance from the network will restore it to its original configuration and removes any customized settings. The appliance also reverts to the default login name and password.

To start the Boot Server, type "bootserv" and then press ENTER.

boot: _

To start the PXE boot server, type **bootserv** and press Enter.

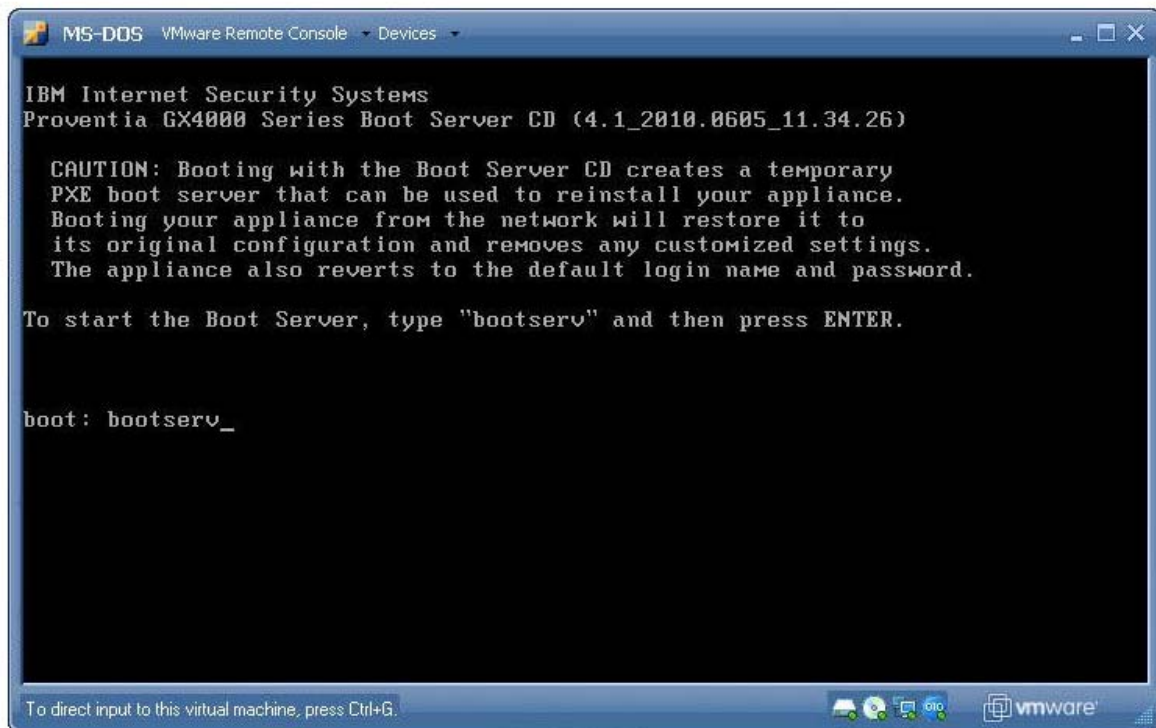
You must first turn off the appliance, connect the serial console cable and crossover cable, and insert your CD with the firmware 4.1 ISO into the CD-ROM drive of the machine you are using for the PXE boot server. You can then start the PXE boot server machine so it boots from the CD. These tasks have been performed for you.

This demonstration shows you how to install firmware version 4.1 on a GX4000 series appliance using a PXE boot server.

The PXE boot server provides a terminal emulator that displays the console output of the appliance through the console cable that connects them.

Reimage the appliance with a PXE boot server

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Reimage the appliance with a PXE boot server

Slide 30



```
MS-DOS VMware Remote Console Devices
Proventia GX4000 Series Boot Server (4.1_2010.0605_11.34.26)
-----
Loading drivers...done
Checking for Recovery CD at /dev/hdc...success
Probing ethernet devices.....done
Found pcnet32 device:
eth0      Link encap:Ethernet  HWaddr 00:0C:29:56:3A:45
          inet addr:192.168.123.100  Bcast:192.168.123.255  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1

Starting Network Boot Services: DHCP, TFTP, HTTP.

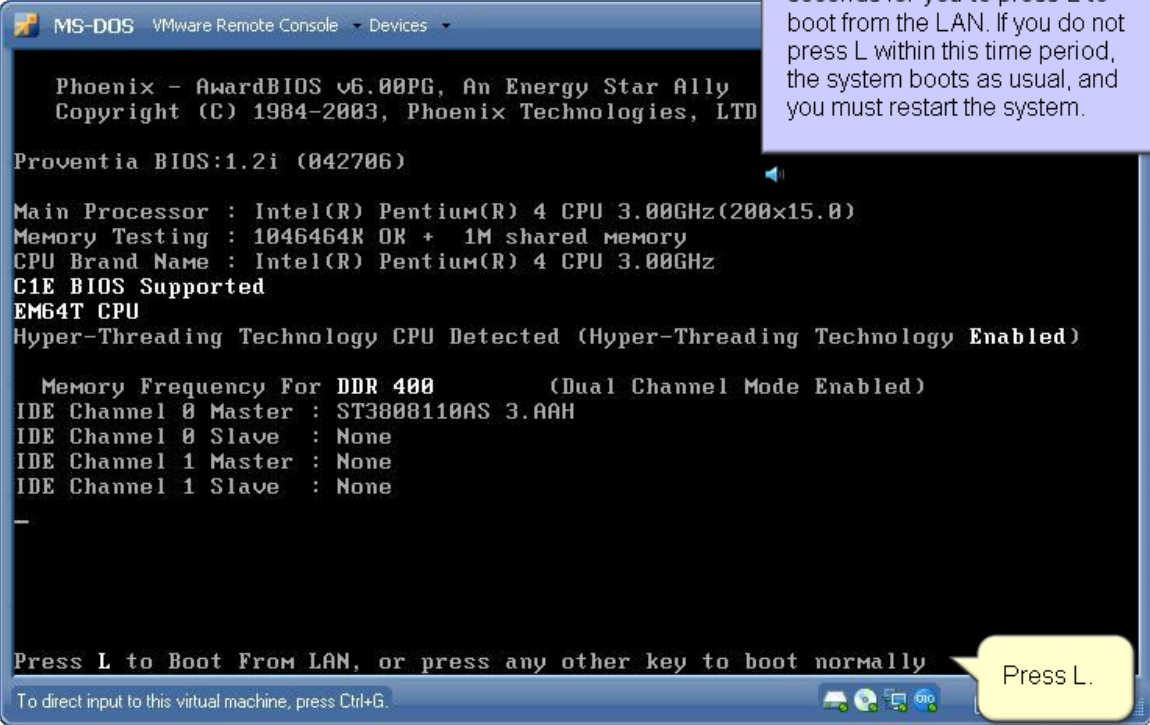
*** You may now boot your Proventia GX4000 Series via the network ***
*** Starting Terminal Emulator for local port ttyS0 ***
*** Press Control-G to Exit and Reboot ***
```

Turn on the appliance.

To direct input to this virtual machine, press Ctrl+G.

Reimage the appliance with a PXE boot server

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The screenshot shows a VMware Remote Console window titled "MS-DOS VMware Remote Console". The console displays the following text:

```
Phoenix - AwardBIOS v6.00PG, An Energy Star Ally  
Copyright (C) 1984-2003, Phoenix Technologies, LTD  
  
Proventia BIOS:1.2i (042706)  
  
Main Processor : Intel(R) Pentium(R) 4 CPU 3.00GHz(200x15.0)  
Memory Testing : 1046464K OK + 1M shared memory  
CPU Brand Name : Intel(R) Pentium(R) 4 CPU 3.00GHz  
C1E BIOS Supported  
EM64T CPU  
Hyper-Threading Technology CPU Detected (Hyper-Threading Technology Enabled)  
  
Memory Frequency For DDR 400 (Dual Channel Mode Enabled)  
IDE Channel 0 Master : ST3808110AS 3.AAH  
IDE Channel 0 Slave : None  
IDE Channel 1 Master : None  
IDE Channel 1 Slave : None  
  
-  
  
Press L to Boot From LAN, or press any other key to boot normally
```

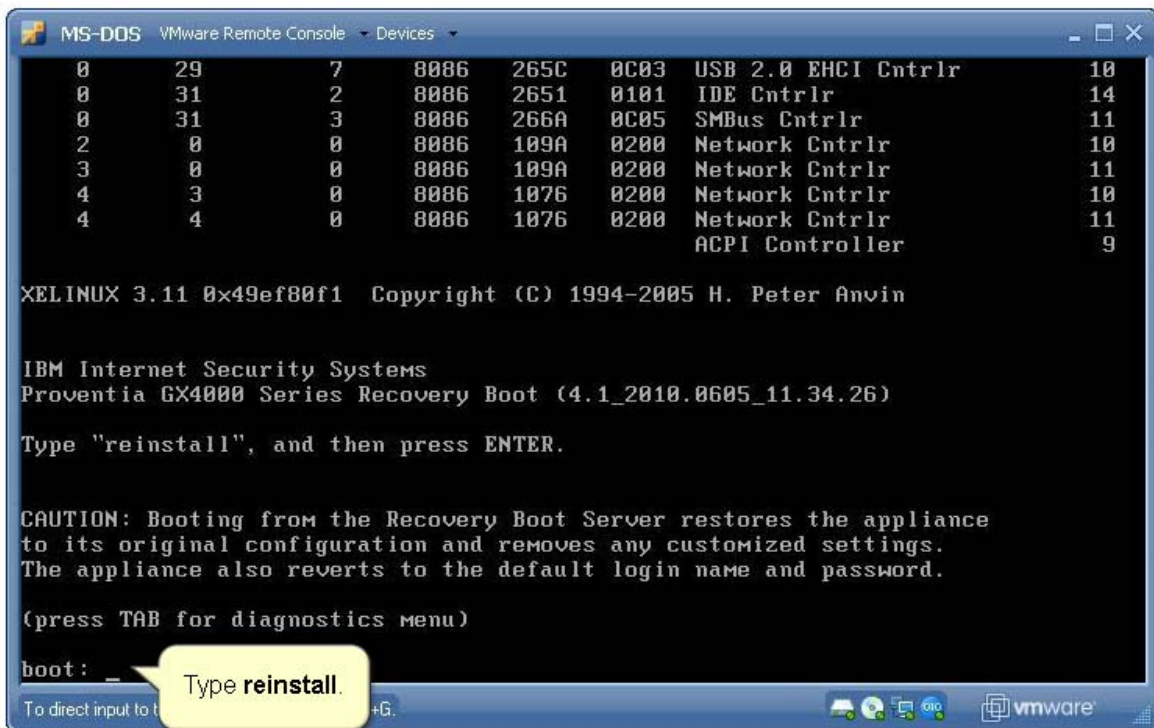
At the bottom of the console, there is a status bar that says "To direct input to this virtual machine, press Ctrl+G." and a system tray with icons for network, volume, and power.

A purple callout box in the upper right corner of the console area contains the text: "This prompt allows only five seconds for you to press L to boot from the LAN. If you do not press L within this time period, the system boots as usual, and you must restart the system."

A yellow callout box in the lower right corner of the console area contains the text: "Press L."

Reimage the appliance with a PXE boot server

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```
MS-DOS VMware Remote Console Devices
0 29 7 8086 265C 0C03 USB 2.0 EHCI Cntrlr 10
0 31 2 8086 2651 0101 IDE Cntrlr 14
0 31 3 8086 266A 0C05 SMBus Cntrlr 11
2 0 0 8086 109A 0200 Network Cntrlr 10
3 0 0 8086 109A 0200 Network Cntrlr 11
4 3 0 8086 1076 0200 Network Cntrlr 10
4 4 0 8086 1076 0200 Network Cntrlr 11
ACPI Controller 9

XELINUX 3.11 0x49ef80f1 Copyright (C) 1994-2005 H. Peter Anvin

IBM Internet Security Systems
Proventia GX4000 Series Recovery Boot (4.1_2010.0605_11.34.26)

Type "reinstall", and then press ENTER.

CAUTION: Booting from the Recovery Boot Server restores the appliance
to its original configuration and removes any customized settings.
The appliance also reverts to the default login name and password.

(press TAB for diagnostics menu)

boot: _
```

To direct input to t +G. vmware

Reimage the appliance with a PXE boot server

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MS-DOS VMware Remote Console Devices

0	29	7	8086	265C	0C03	USB	
0	31	2	8086	2651	0101	IDE	
0	31	3	8086	266A	0C05	SMBus Cntrlr	11
2	0	0	8086	109A	0200	Network Cntrlr	10
3	0	0	8086	109A	0200	Network Cntrlr	11
4	3	0	8086	1076	0200	Network Cntrlr	10
4	4	0	8086	1076	0200	Network Cntrlr	11
						ACPI Controller	9

XELINUX 3.11 0x49ef80f1 Copyright (C) 1994-2005 H. Peter Anvin

IBM Internet Security Systems
Proventia GX4000 Series Recovery Boot (4.1_2010.0605_11.34.26)

Type "reinstall", and then press ENTER.

CAUTION: Booting from the Recovery Boot Server restores the appliance to its original configuration and removes any customized settings. The appliance also reverts to the default login name and password.

(press TAB for diagnostics menu)

boot: reinstall_ Press Enter.

To direct input to this virtual machine

vmware

Do not turn off the appliance during the reinstallation process. When the appliance reboots, you see the unconfigured login prompt.

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Further reference

For information about how to configure the IBM Security Network Intrusion Prevention System appliance, see the [Configuring the appliance](#) IBM Education Assistant module

Reimage the appliance with a PXE boot server

Slide 35



Summary

Now, you are able to:

- Retrieve the appliance ISO image from the IBM Download Center
- Use a PXE boot server to install firmware on an appliance

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Now that you have completed the module, take a moment to review the module objectives.

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