Configuring the appliance

Slide 1

Tivoli

IBM

IBM Security Network Intrusion Prevention System V4.1

Configuring the appliance

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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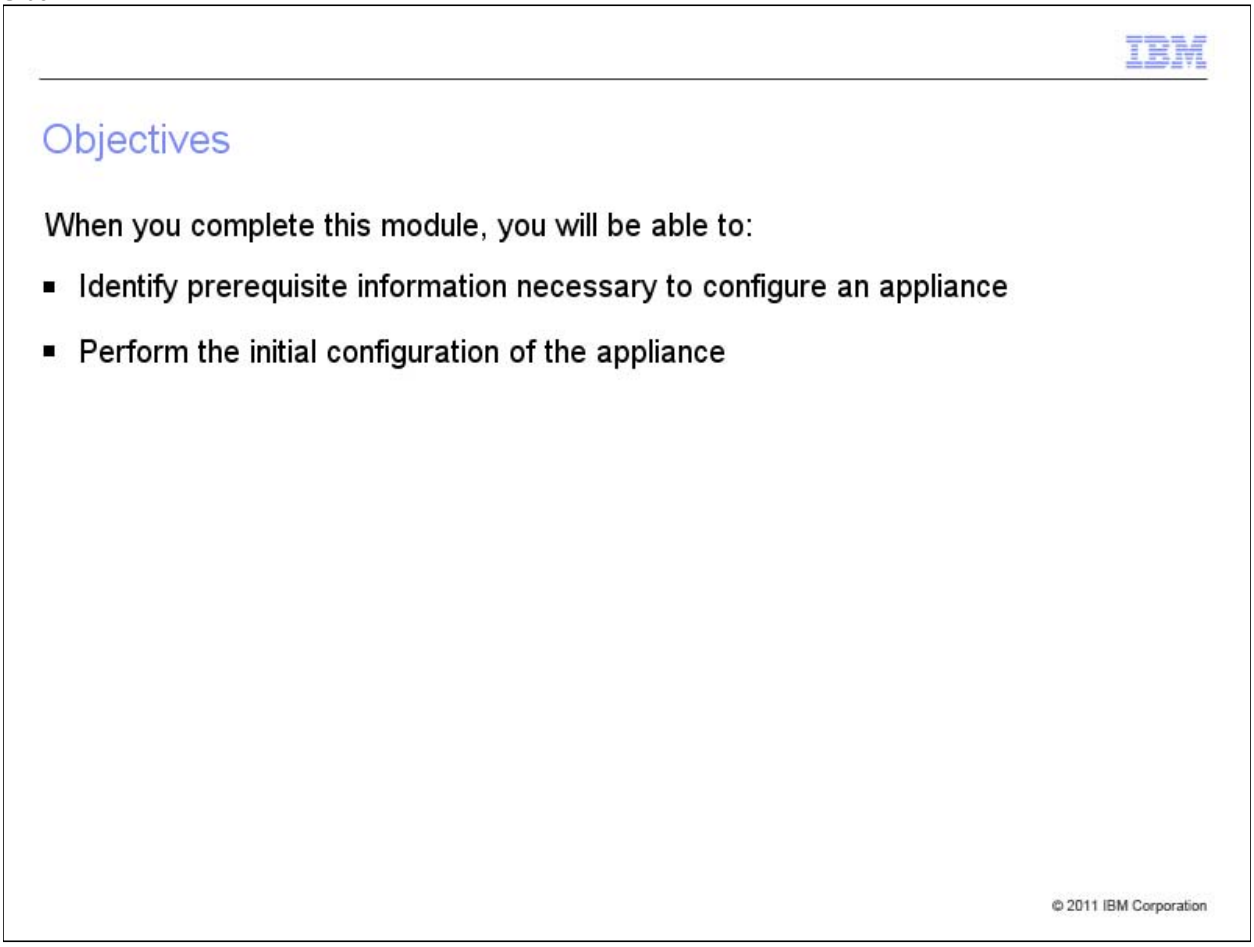
Slide 2


IBM
Objectives
When you complete this module, you will be able to:
Identify prerequisite information necessary to configure an appliance
Perform the initial configuration of the appliance
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Slide 3

IBM

Prerequisite appliance configuration data

There is some information you need before configuring the settings on a new appliance. This includes:

- Network configuration information for the appliance such as the:
  - IP address
  - Subnet mask
  - Default gateway
- Host configuration such as the appliance host name and domain name
- DNS configuration (if applicable)
- Protection mode for each network segment

Note: You can use the LCD panel to configure the appliance IP address, subnet mask, and gateway

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Slide 4

Proventia Setup utility

- The Proventia Setup utility is a text-only configuration program that starts after you log on to the appliance for the first time
- You use the Proventia Setup utility to perform these tasks:
  - Log on and change default passwords
  - Configure the network interface and host
  - Configure the date and time
  - Configure the agent name
  - Configure the segment settings

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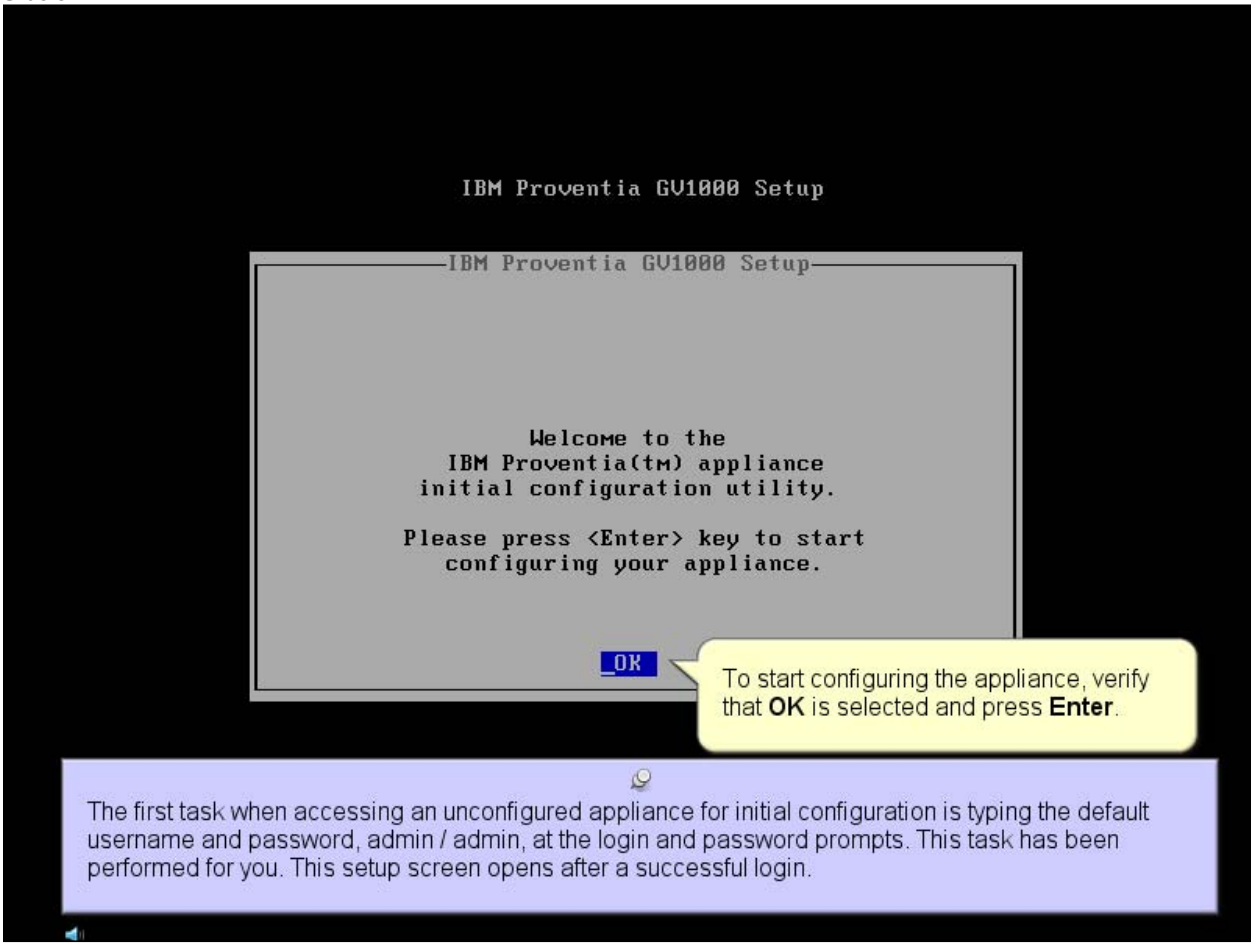
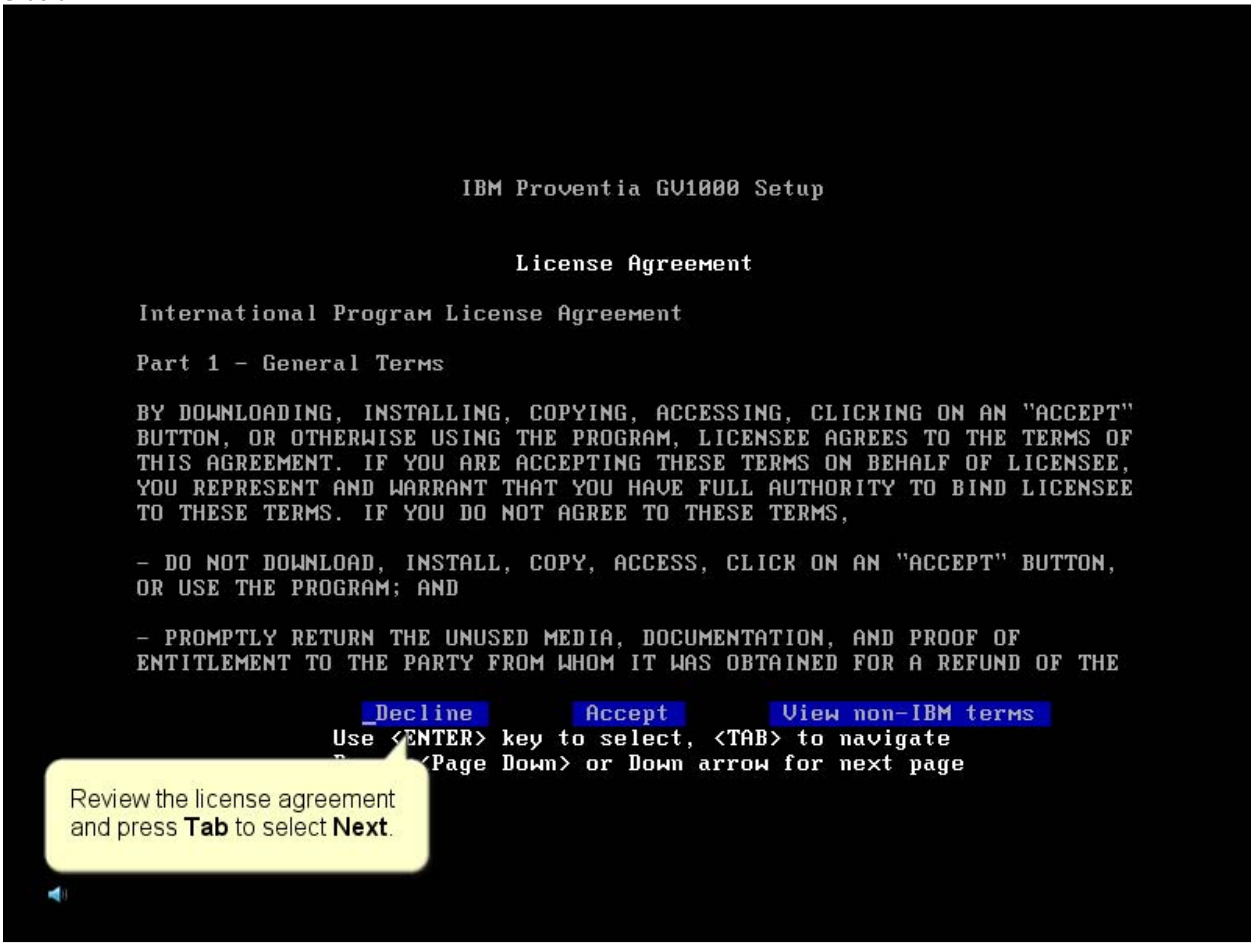
Configuring the appliance

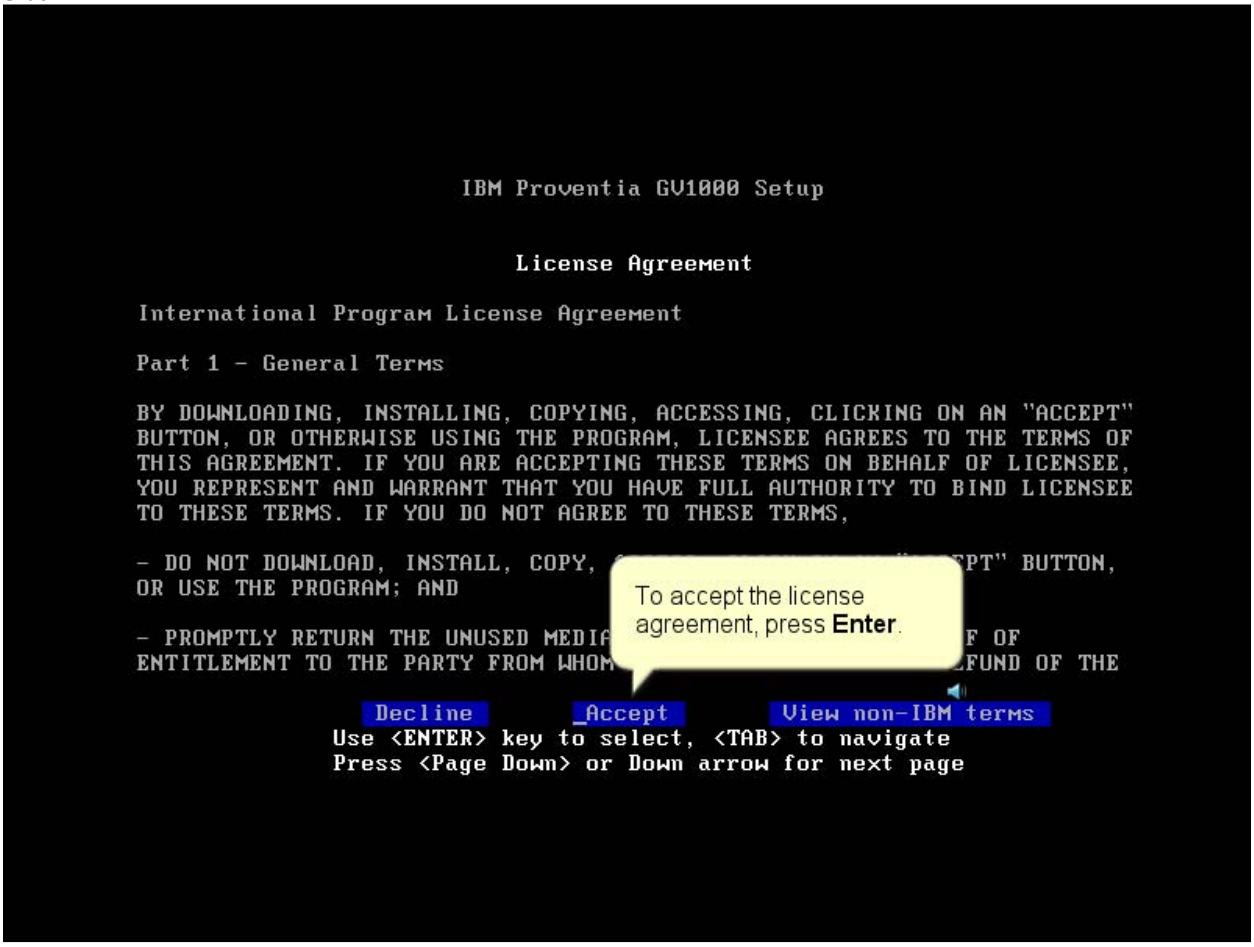
Slide 5



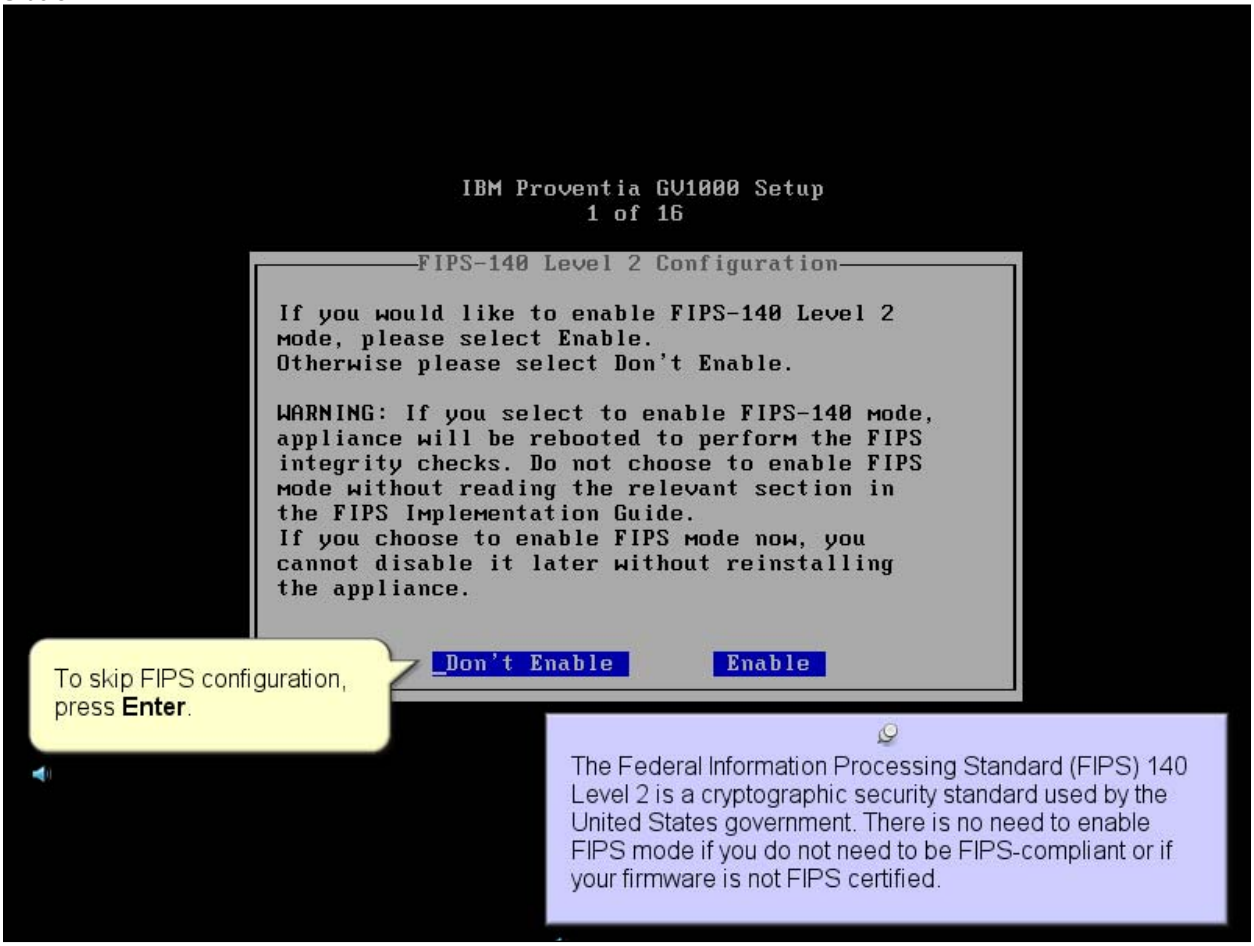
Slide 6


IBM Proventia GV1000 Setup
License Agreement
International Program License Agreement
Part 1 - General Terms
BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,
- DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE THE PROGRAM; AND
- PROMPTLY RETURN THE UNUSED MEDIA, DOCUMENTATION, AND PROOF OF ENTITLEMENT TO THE PARTY FROM WHOM IT WAS OBTAINED FOR A REFUND OF THE
_Decline
Accept
View non-IBM terms
Use <ENTER> key to select, <TAB> to navigate
<Page Down> or Down arrow for next page
Review the license agreement and press Tab to select Next.

Slide 7


IBM Proventia GV1000 Setup
License Agreement
International Program License Agreement
Part 1 - General Terms
BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,
- DO NOT DOWNLOAD, INSTALL, COPY,
OR USE THE PROGRAM; AND
- PROMPTLY RETURN THE UNUSED MEDIA
ENTITLEMENT TO THE PARTY FROM WHOM
To accept the license agreement, press Enter.
Decline
Accept
View non-IBM terms
Use <ENTER> key to select, <TAB> to navigate
Press <Page Down> or Down arrow for next page

Slide 8


IBM Proventia GV1000 Setup
1 of 16
FIPS-140 Level 2 Configuration
If you would like to enable FIPS-140 Level 2 mode, please select Enable.
Otherwise please select Don't Enable.
WARNING: If you select to enable FIPS-140 mode, appliance will be rebooted to perform the FIPS integrity checks. Do not choose to enable FIPS mode without reading the relevant section in the FIPS Implementation Guide.
If you choose to enable FIPS mode now, you cannot disable it later without reinstalling the appliance.
Don't Enable
Enable
To skip FIPS configuration, press Enter.
The Federal Information Processing Standard (FIPS) 140 Level 2 is a cryptographic security standard used by the United States government. There is no need to enable FIPS mode if you do not need to be FIPS-compliant or if your firmware is not FIPS certified.

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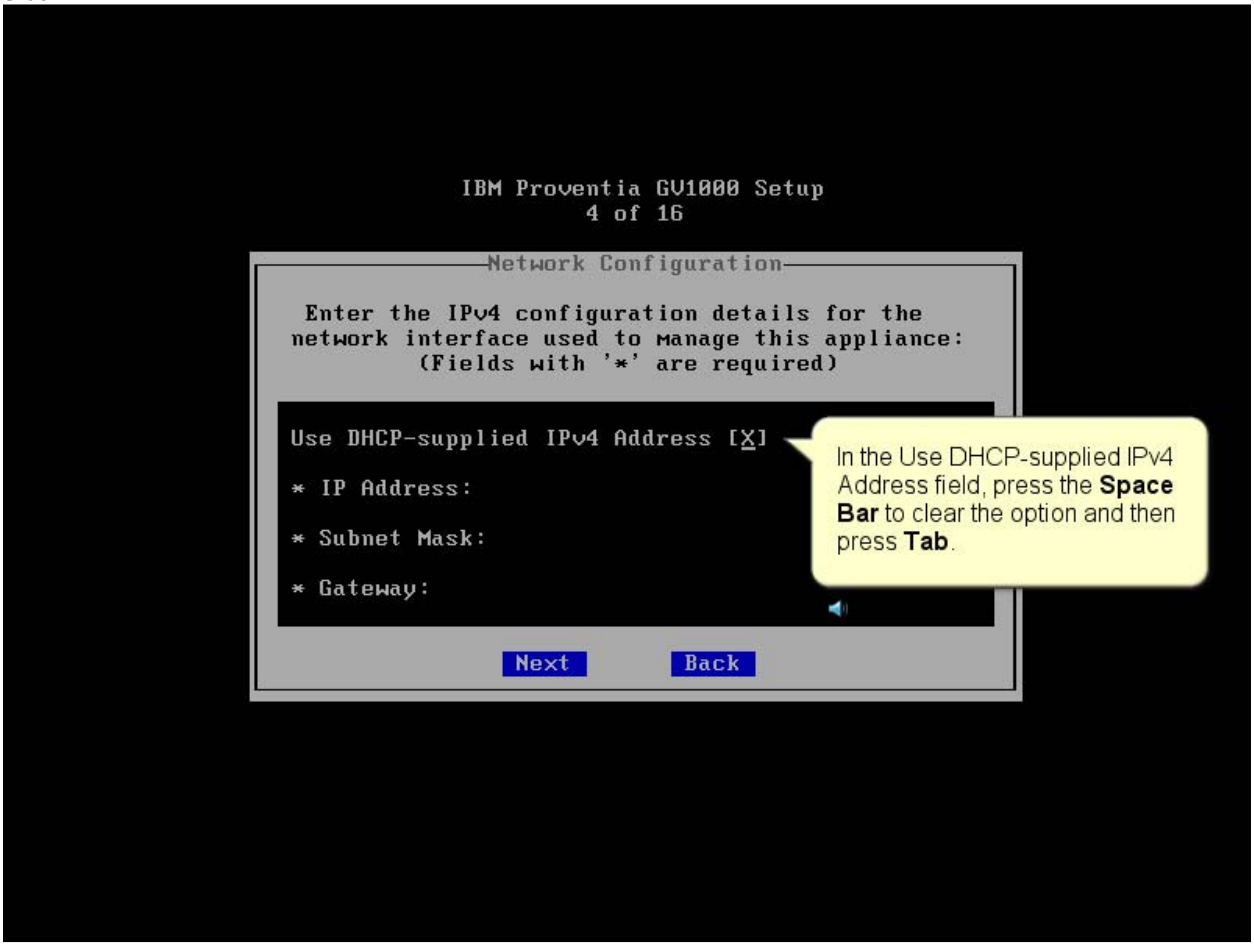
All passwords appear as asterisks, ***, in this utility. The default root password, admin, has been typed for you. A new password, tse123, has been typed and re-typed for you.
IBM Proventia GV1000 Setup
2 of 16
Change Password
Change password for user 'root':
Password must be at least 6 characters long
Old Password: ******
New Password: *******
Re-type Password: *******
Next
Back
Verify that Next is selected and press Enter.
Check <Caps Lock> key is OFF before entering passwords

Slide 10

The default admin password, admin, has been typed for you. A new password, tse123, has been typed and re-typed for you.
IBM Proventia GV1000 Setup
3 of 16
Change Password
Change password for user 'admin':
Password must be at least 6 characters long
Old Password: ******
New Password: *******
Re-type Password: *******
Next
Back
Verify that Next is selected and press Enter.
Check <Caps Lock> key is OFF before entering passwords

Slide 11


IBM Proventia GV1000 Setup
4 of 16
Network Configuration
Enter the IPv4 configuration details for the network interface used to manage this appliance:
(Fields with '*' are required)
Use DHCP-supplied IPv4 Address [X]
* IP Address:
* Subnet Mask:
* Gateway:
Next
Back
In the Use DHCP-supplied IPv4 Address field, press the **Space Bar** to clear the option and then press **Tab**.

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IBM Proventia GV1000 Setup
4 of 16
Network Configuration
Enter the IPv4 configuration details for the network interface used to manage this appliance:
(Fields with '*' are required)
Use DHCP-supplied IPv4 Address [ ]
* IP Address:
* Subnet Mask:
* Gateway:
Next
Back
In the IP Address field, enter the IP address of the appliance and then press **Tab**.
In this demonstration, the appliance IP address is 192.168.5.109.

Configuring the appliance

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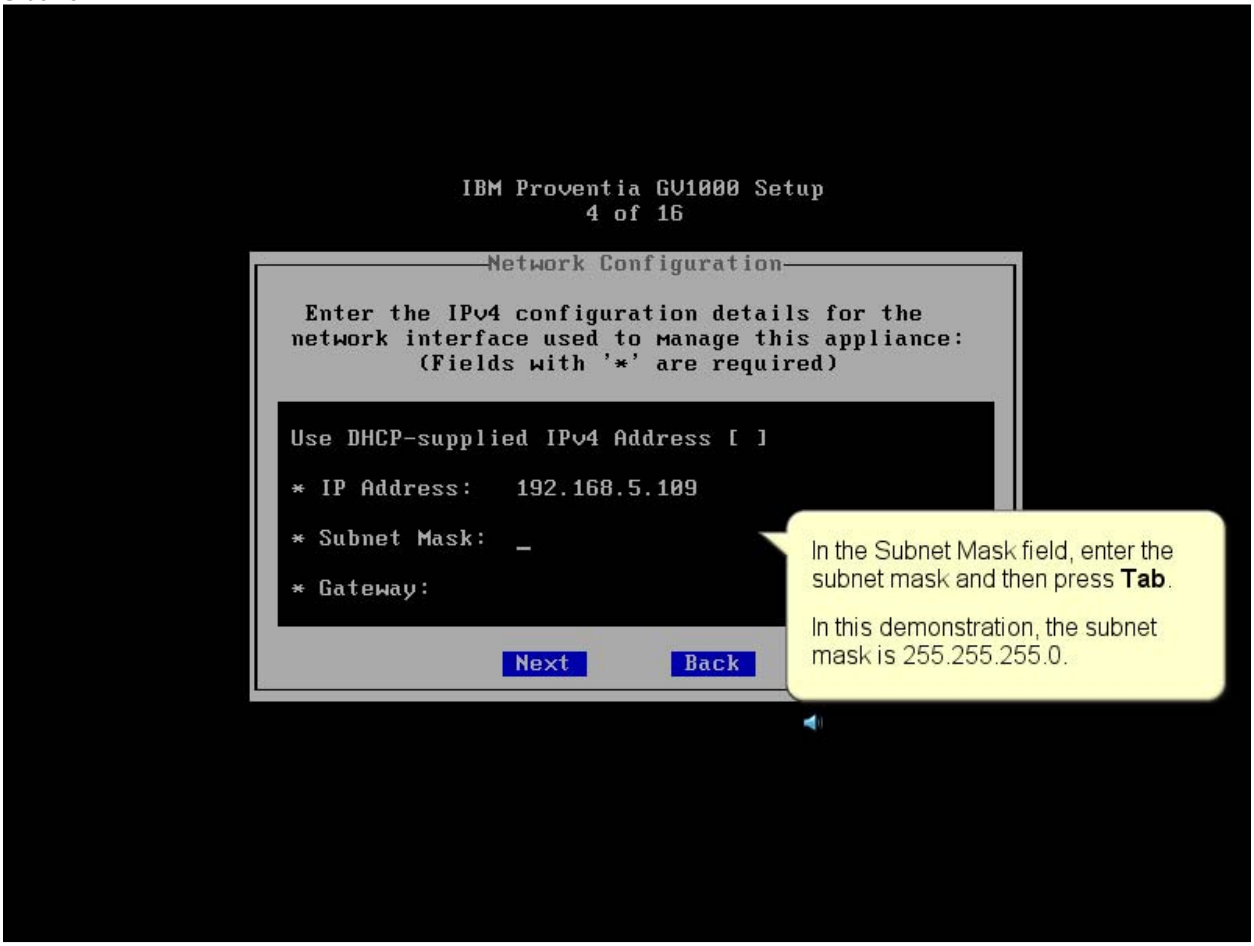
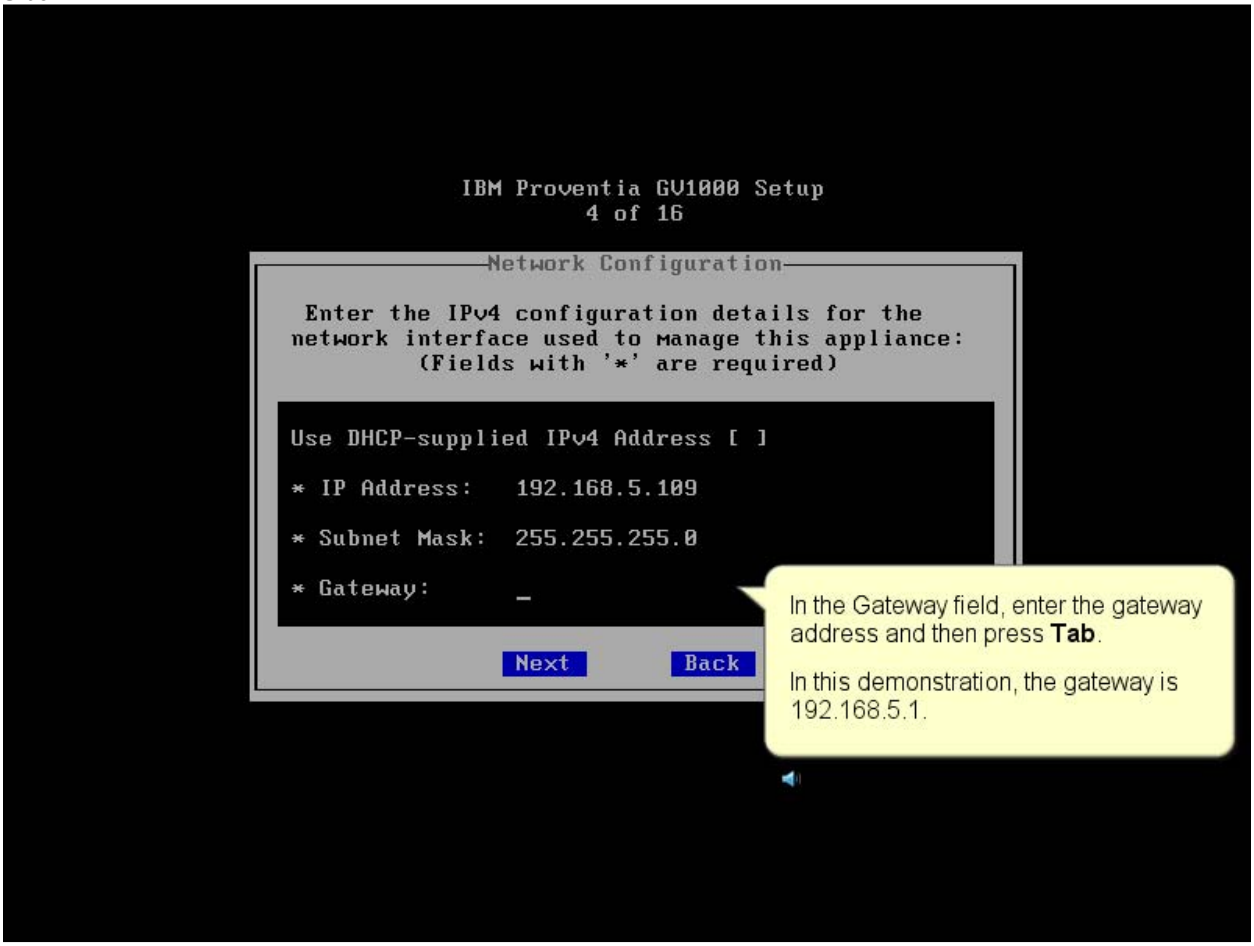


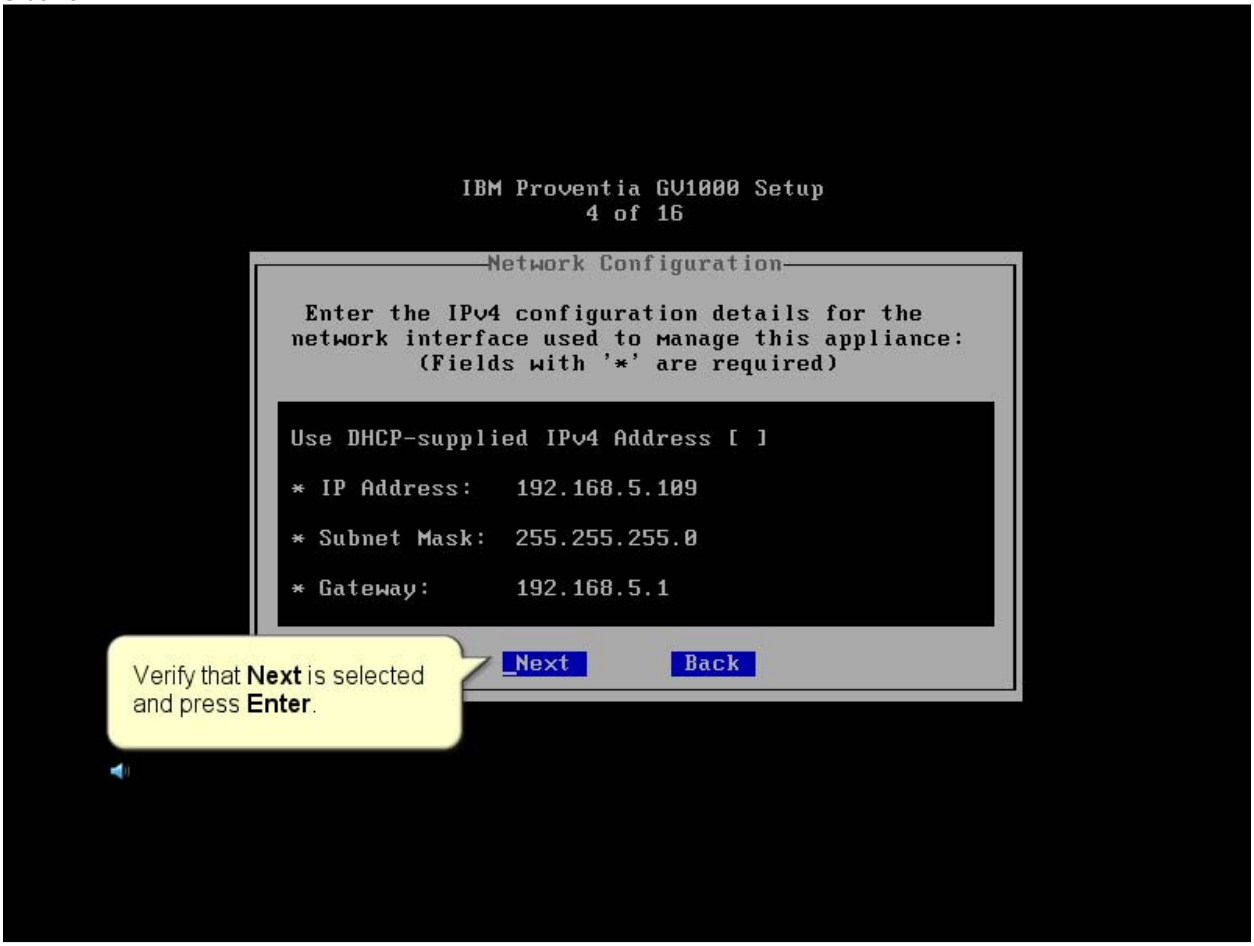
Configuring the appliance

Slide 14

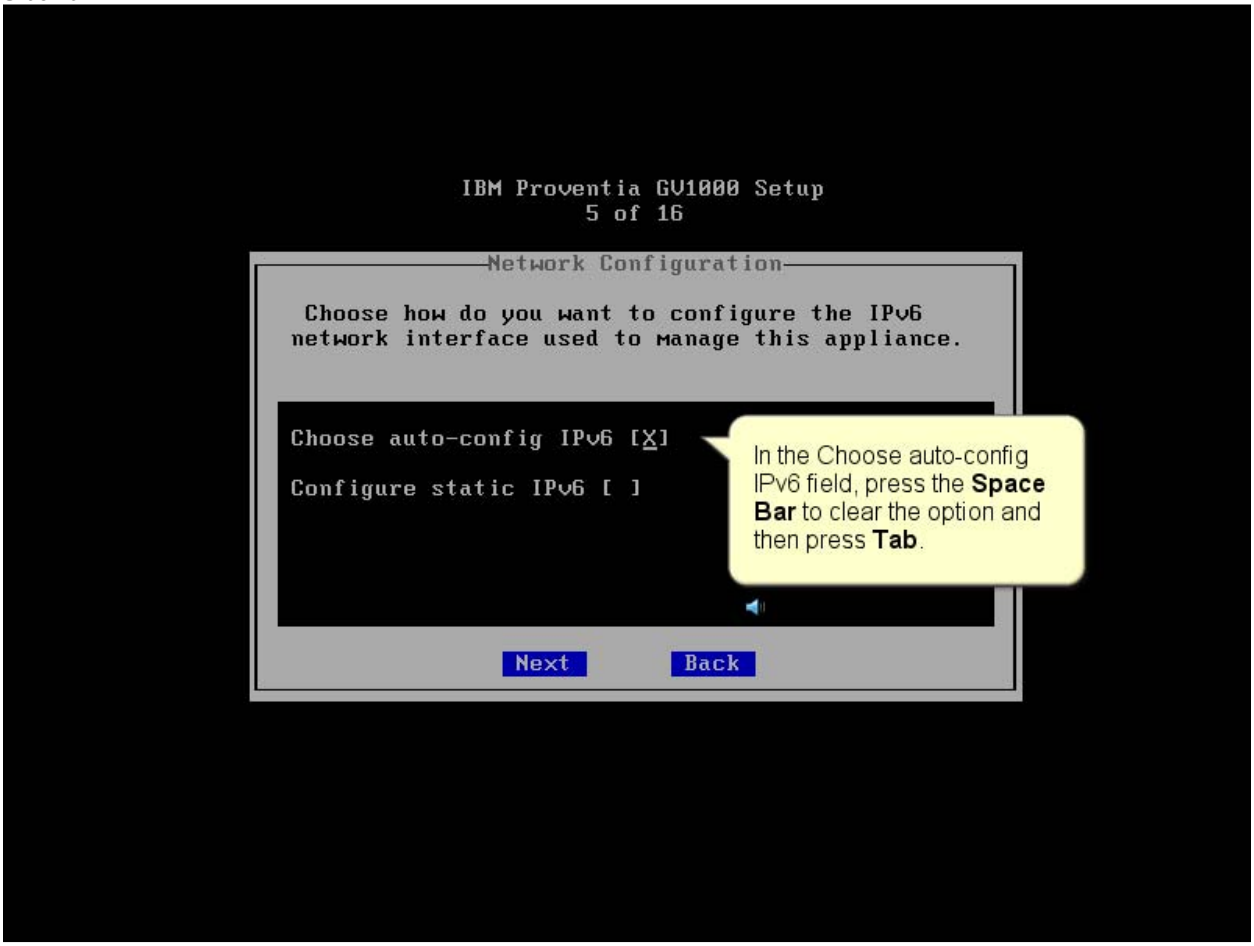


Configuring the appliance

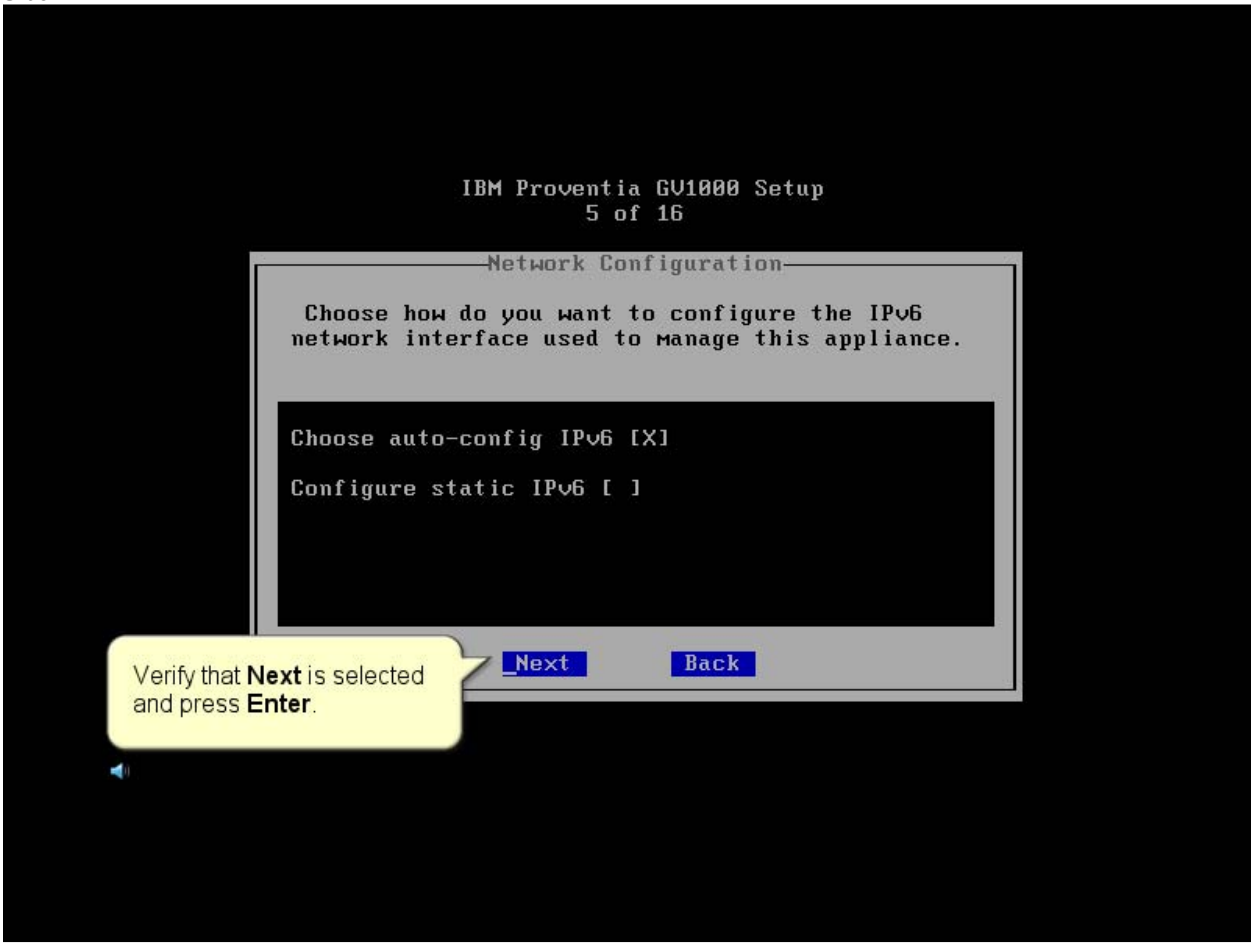
Slide 15



Slide 16

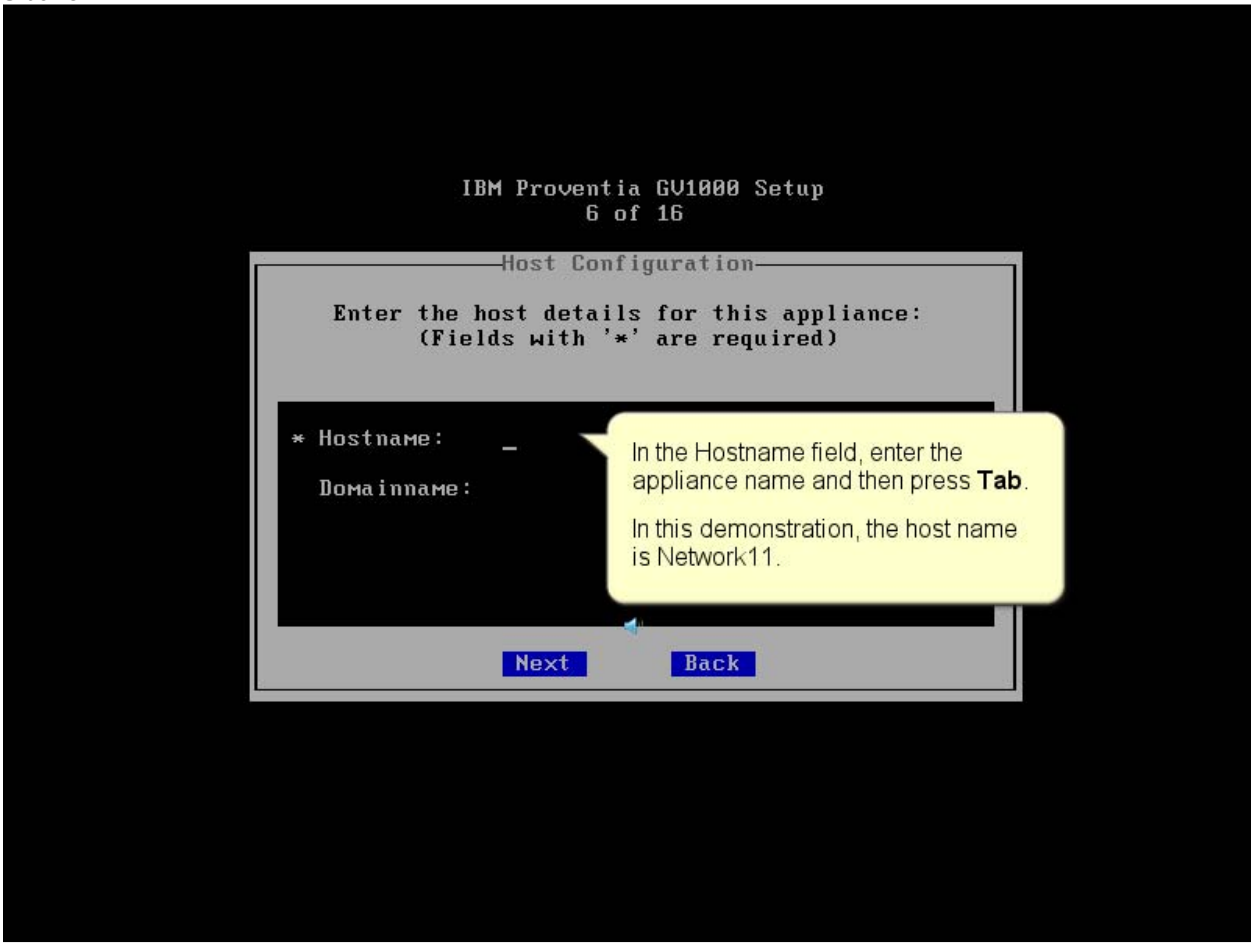

IBM Proventia GV1000 Setup
5 of 16
Network Configuration
Choose how do you want to configure the IPv6 network interface used to manage this appliance.
Choose auto-config IPv6 [X]
Configure static IPv6 [ ]
In the Choose auto-config IPv6 field, press the Space Bar to clear the option and then press Tab.
Next
Back

Slide 17


IBM Proventia GV1000 Setup
5 of 16
Network Configuration
Choose how do you want to configure the IPv6 network interface used to manage this appliance.
Choose auto-config IPv6 [X]
Configure static IPv6 [ ]
Next
Back
Verify that Next is selected and press Enter.

Configuring the appliance

Slide 18



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IBM Proventia GV1000 Setup
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Host Configuration
Enter the host details for this appliance:
(Fields with '*' are required)
* Hostname: Network11
Domainname:
In the Domainname field, enter the domain name and then press Tab.
In this demonstration, the domain is training.ibm.com.
Next
Back

Configuring the appliance

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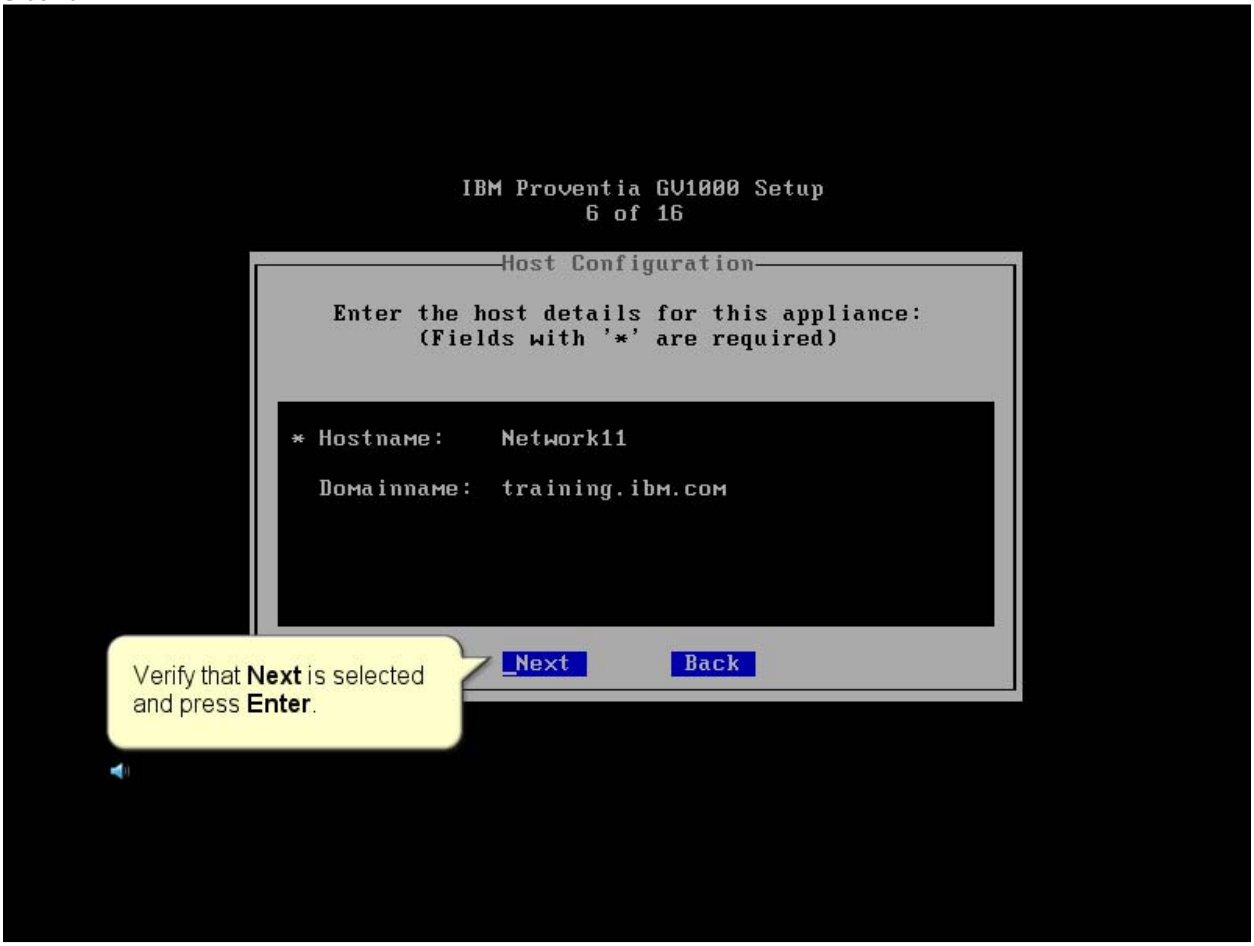
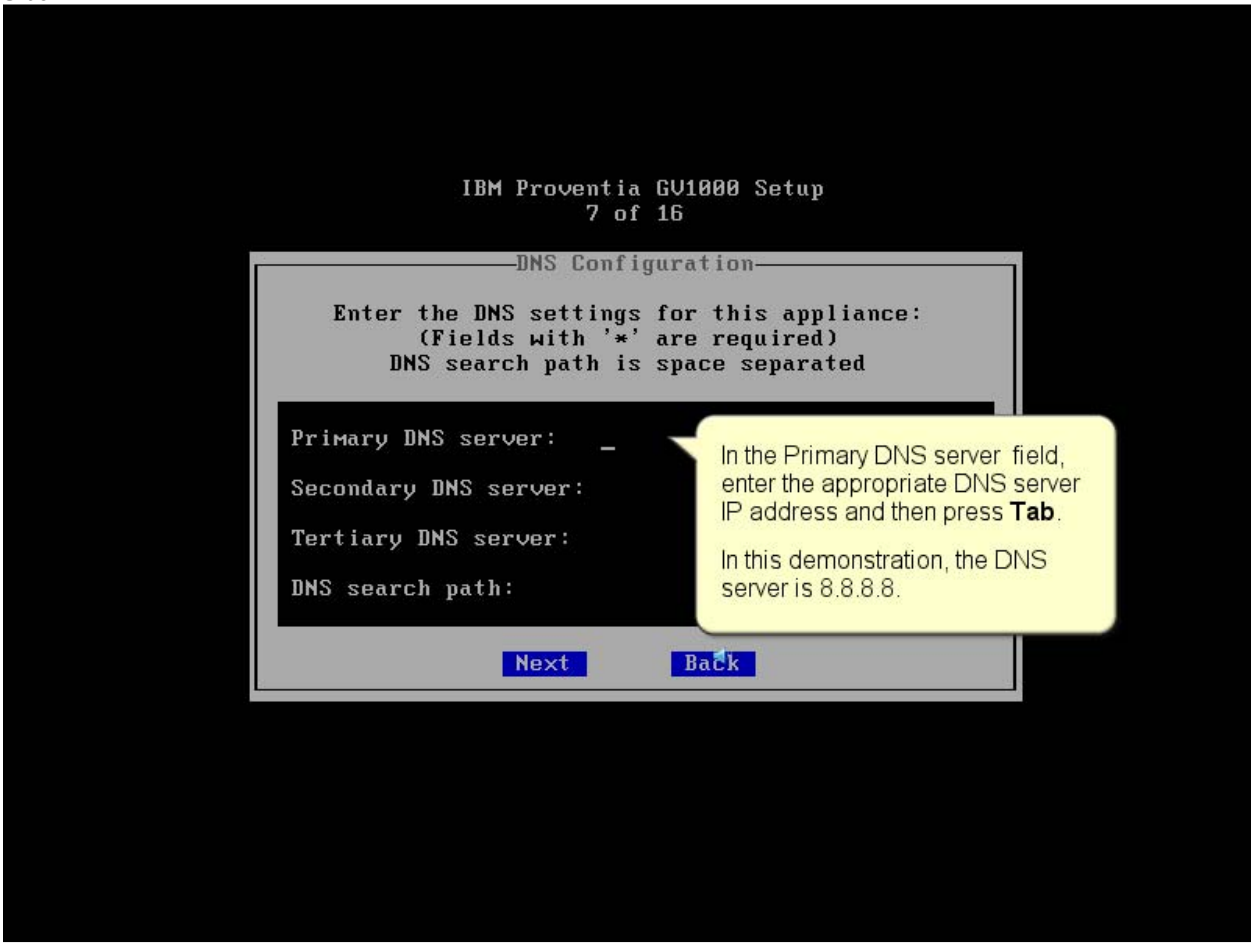
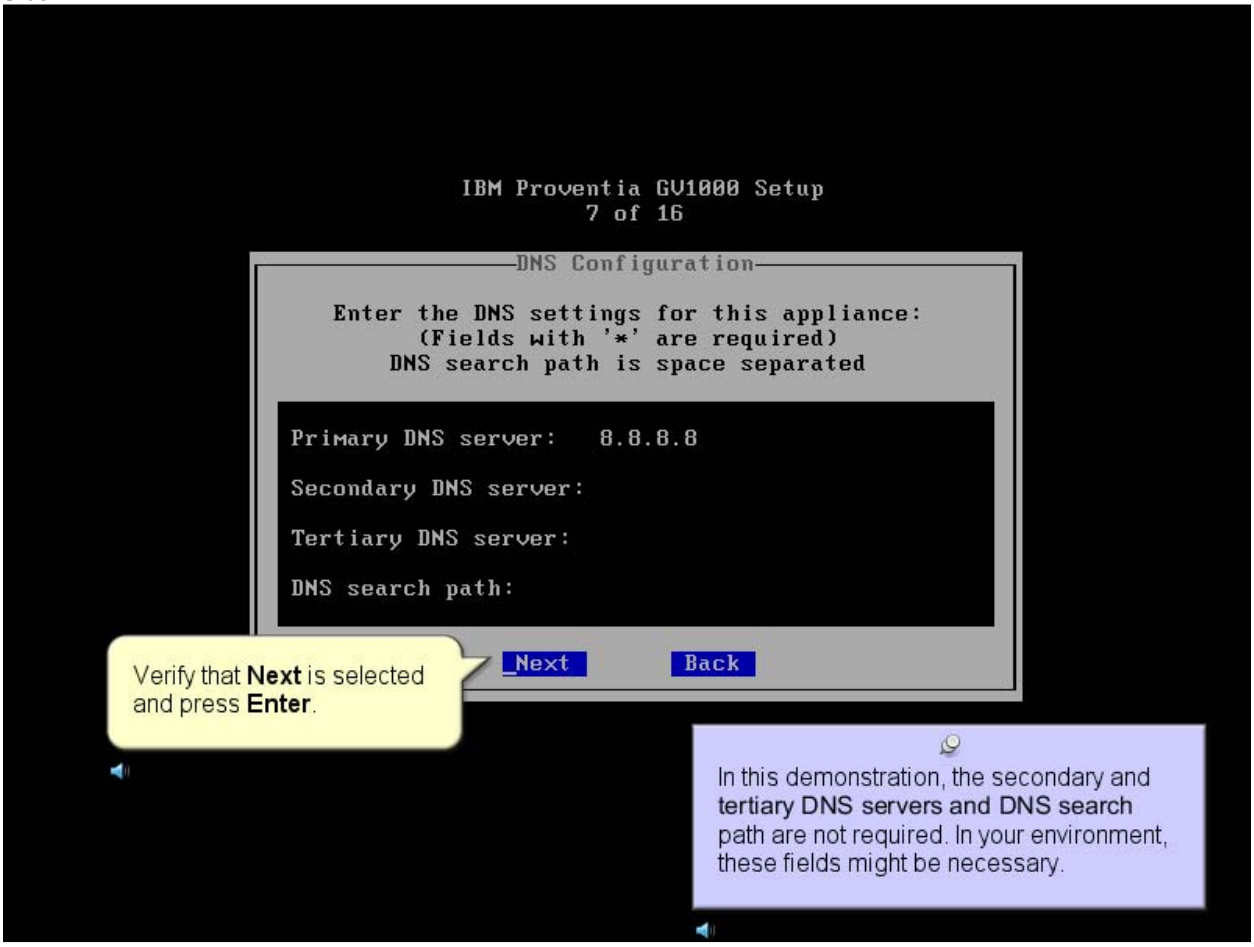


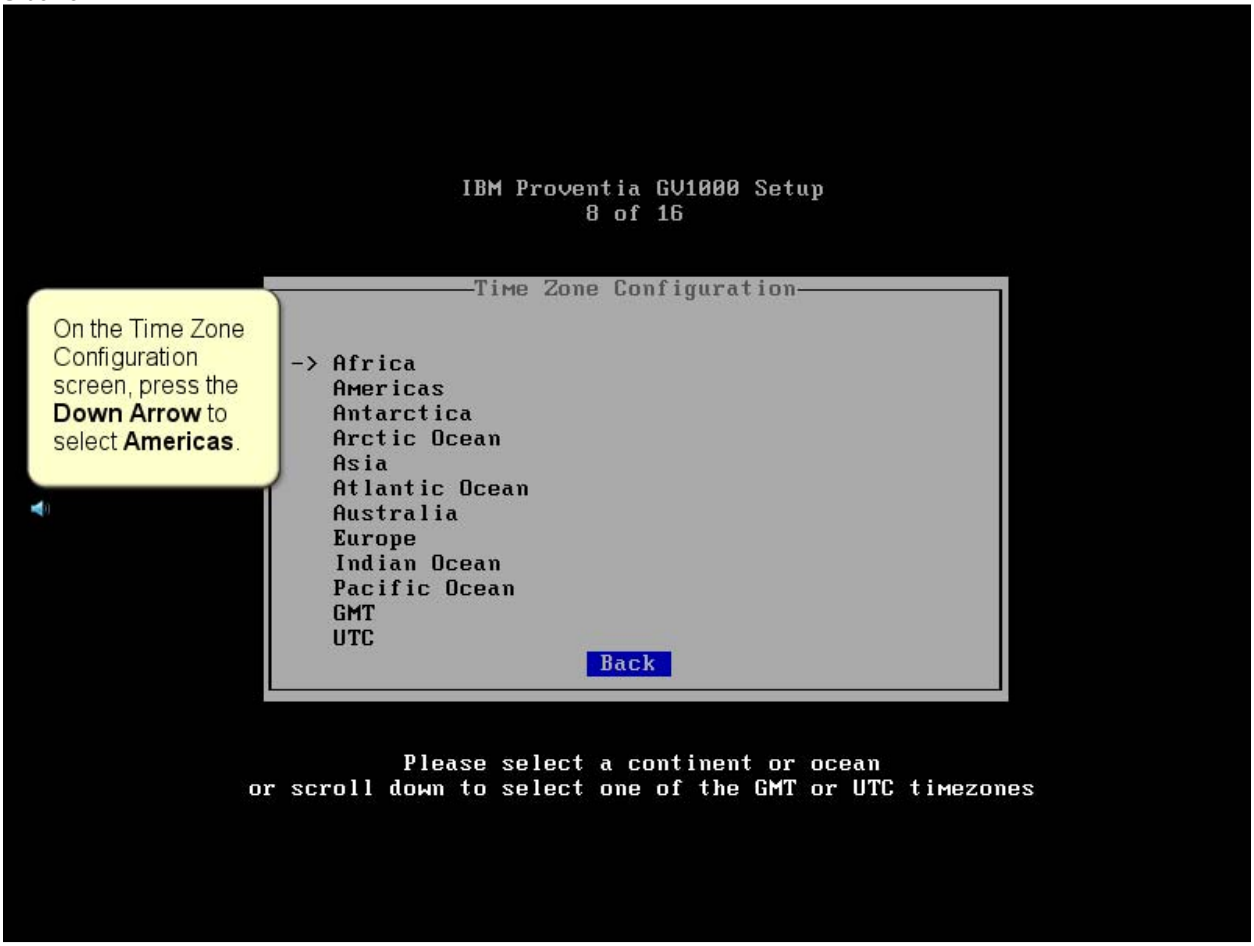
Slide 21


IBM Proventia GV1000 Setup
7 of 16
DNS Configuration
Enter the DNS settings for this appliance:
(Fields with '*' are required)
DNS search path is space separated
Primary DNS server:
Secondary DNS server:
Tertiary DNS server:
DNS search path:
Next
Back
In the Primary DNS server field, enter the appropriate DNS server IP address and then press Tab.
In this demonstration, the DNS server is 8.8.8.8.

Slide 22


IBM Proventia GV1000 Setup
7 of 16
DNS Configuration
Enter the DNS settings for this appliance:
(Fields with '*' are required)
DNS search path is space separated
Primary DNS server: 8.8.8.8
Secondary DNS server:
Tertiary DNS server:
DNS search path:
Next
Back
Verify that Next is selected and press Enter.
In this demonstration, the secondary and tertiary DNS servers and DNS search path are not required. In your environment, these fields might be necessary.

Slide 23


IBM Proventia GV1000 Setup
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Time Zone Configuration
-> Africa
Americas
Antarctica
Arctic Ocean
Asia
Atlantic Ocean
Australia
Europe
Indian Ocean
Pacific Ocean
GMT
UTC
Back
Please select a continent or ocean
or scroll down to select one of the GMT or UTC timezones
On the Time Zone Configuration screen, press the **Down Arrow** to select **Americas**.

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IBM Proventia GV1000 Setup
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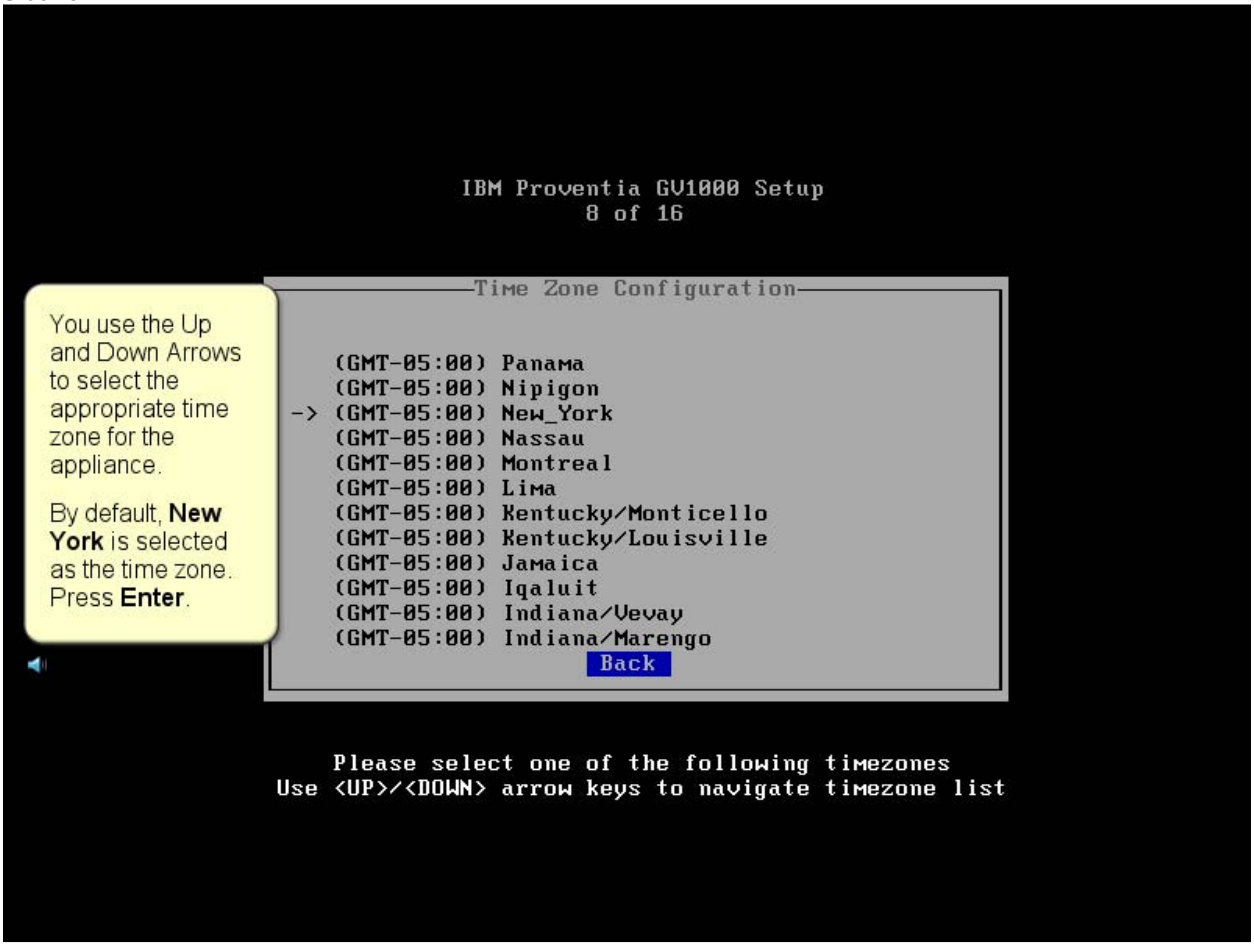
Time Zone Configuration
Africa
-> Americas
Antarctica
Arctic Ocean
Asia
Atlantic Ocean
Australia
Europe
Indian Ocean
Pacific Ocean
GMT
UTC
Back
Please select a continent or ocean
or scroll down to select one of the GMT or UTC timezones
Verify that the arrow points to Americas and press **Enter**.

Slide 25


IBM Proventia GV1000 Setup
8 of 16
Time Zone Configuration
(GMT-05:00) Panama
(GMT-05:00) Nipigon
-> (GMT-05:00) New_York
(GMT-05:00) Nassau
(GMT-05:00) Montreal
(GMT-05:00) Lima
(GMT-05:00) Kentucky/Monticello
(GMT-05:00) Kentucky/Louisville
(GMT-05:00) Jamaica
(GMT-05:00) Iqaluit
(GMT-05:00) Indiana/Vevay
(GMT-05:00) Indiana/Marengo
Back
You use the Up and Down Arrows to select the appropriate time zone for the appliance.
By default, New York is selected as the time zone. Press Enter.
Please select one of the following timezones
Use <UP>/<DOWN> arrow keys to navigate timezone list

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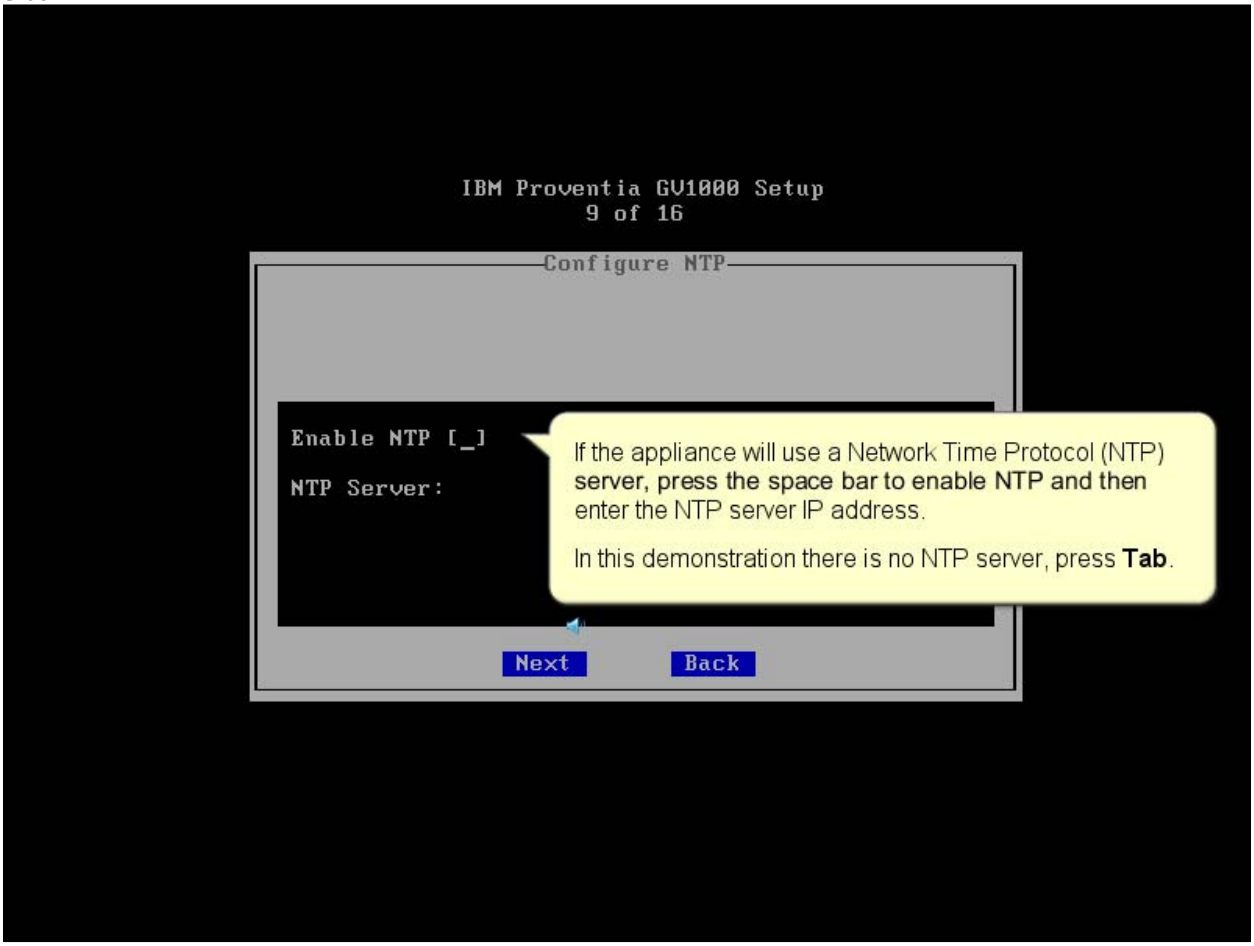
IBM Proventia GV1000 Setup
8 of 16
Time Zone Confirmation
The time zone will be set to
(GMT-05:00) America/New_York.
_OK
Cancel
The utility confirms the time zone. To select the time zone, press **Enter**.
If the time zone is incorrect, press **Tab** to select the **Cancel** button.

Slide 27


IBM Proventia GV1000 Setup
9 of 16
Configure NTP
Enable NTP [_]
NTP Server:
If the appliance will use a Network Time Protocol (NTP) server, press the space bar to enable NTP and then enter the NTP server IP address.
In this demonstration there is no NTP server, press Tab.
Next
Back

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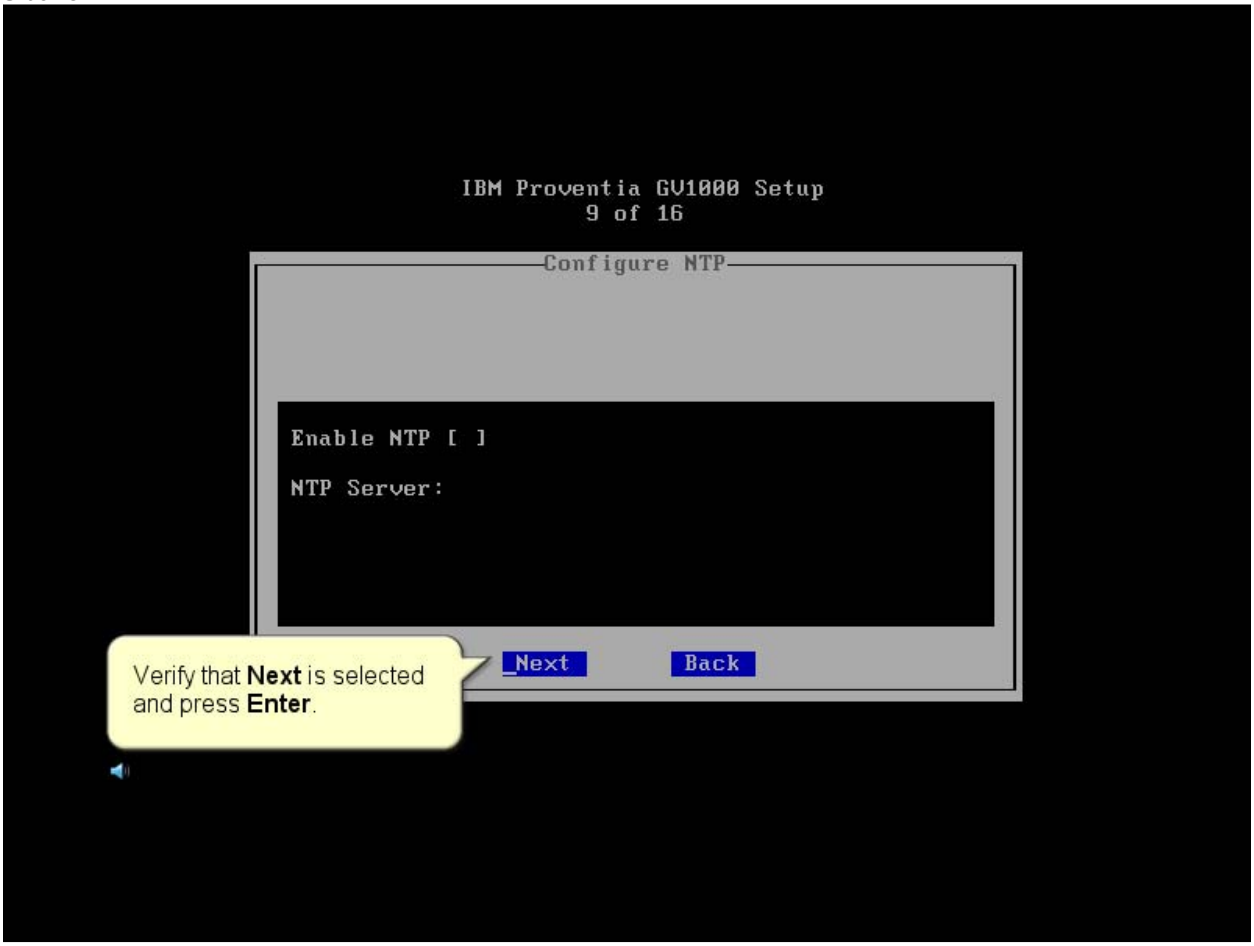
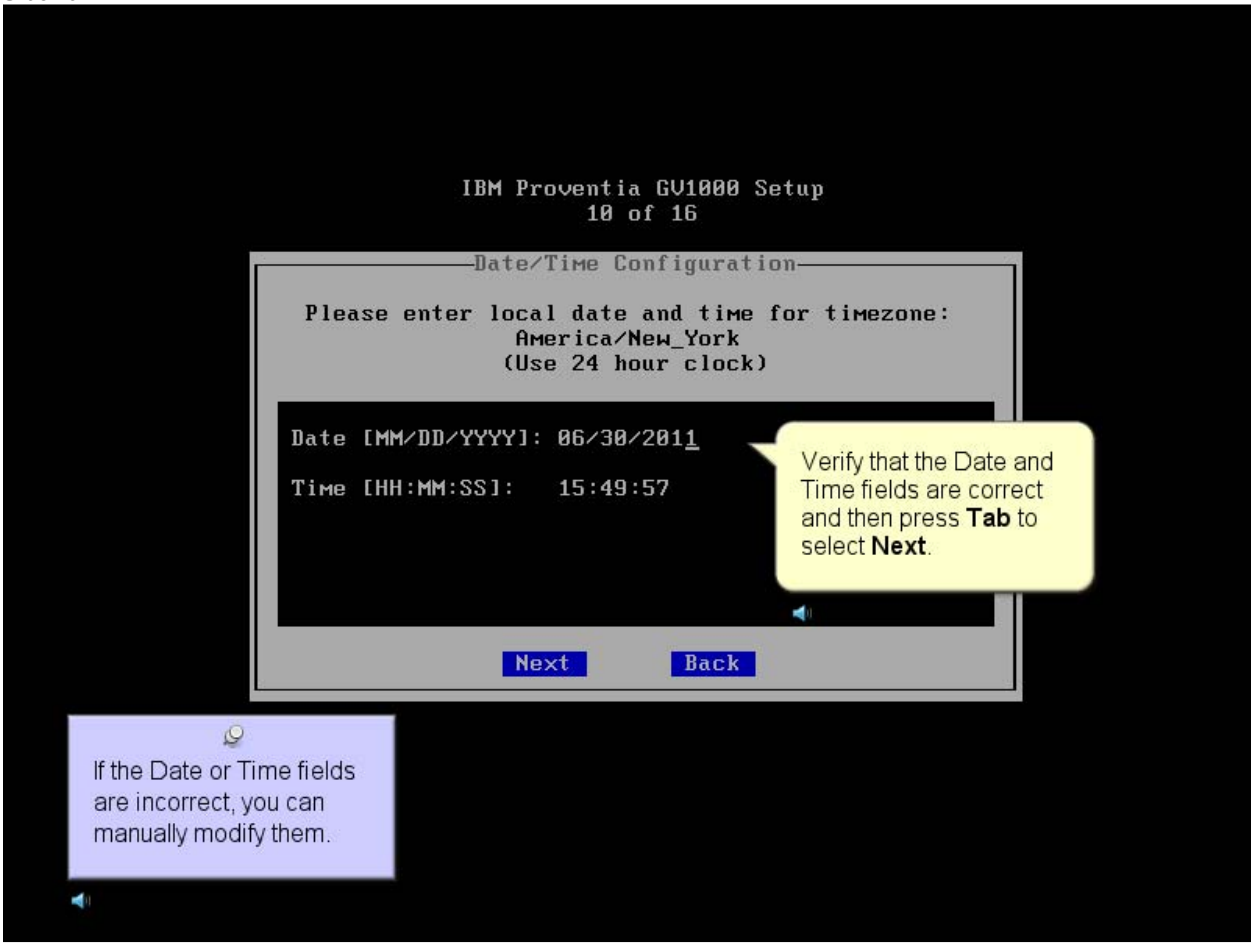

IBM Proventia GV1000 Setup
9 of 16
Configure NTP
Enable NTP [ ]
NTP Server:
Next
Back
Verify that **Next** is selected and press **Enter**.

Slide 29


IBM Proventia GV1000 Setup
10 of 16
Date/Time Configuration
Please enter local date and time for timezone:
America/New_York
(Use 24 hour clock)
Date [MM/DD/YYYY]: 06/30/2011
Time [HH:MM:SS]: 15:49:57
Next
Back
Verify that the Date and Time fields are correct and then press Tab to select Next.
If the Date or Time fields are incorrect, you can manually modify them.

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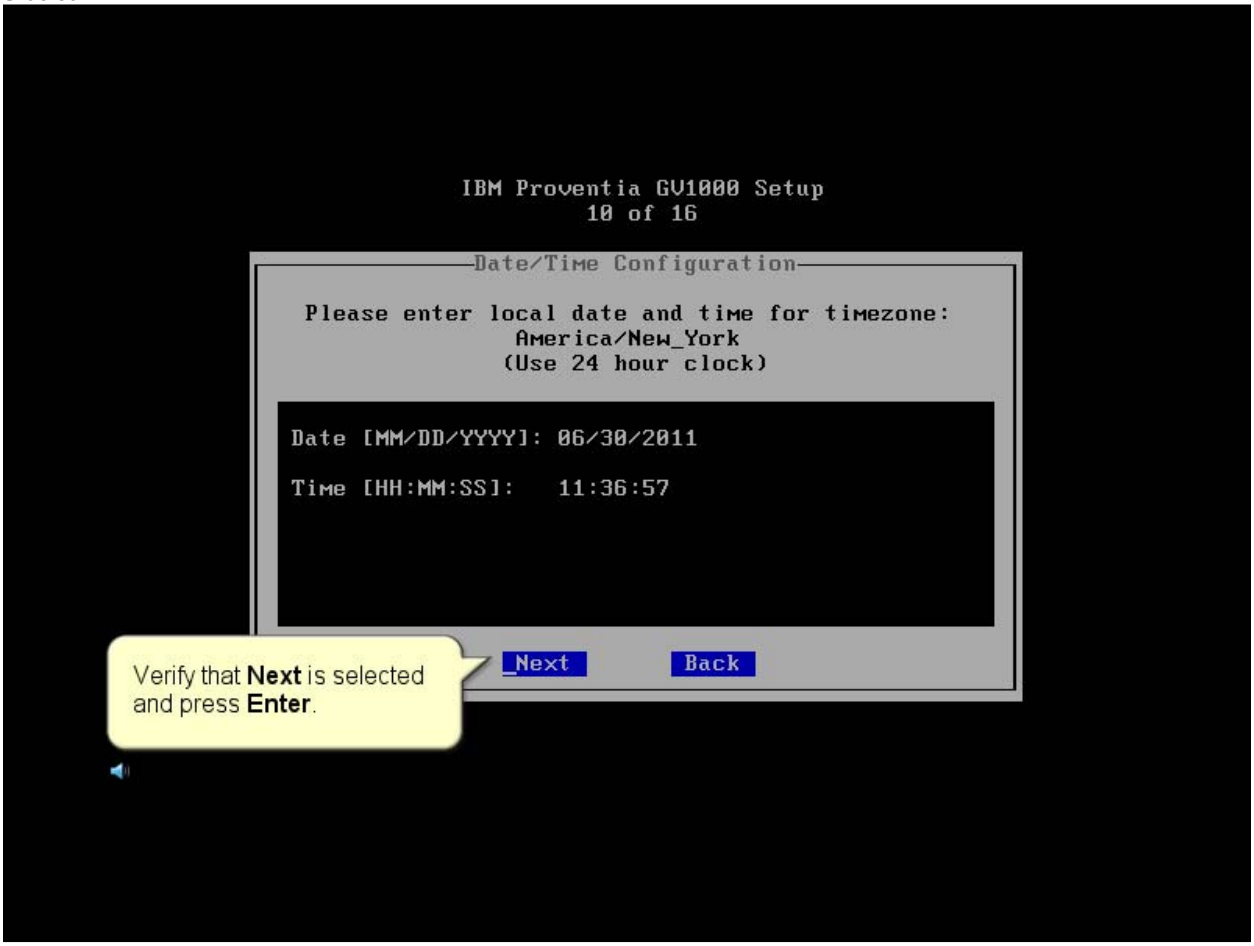
IBM Proventia GV1000 Setup
10 of 16
Date/Time Configuration
Please enter local date and time for timezone:
America/New_York
(Use 24 hour clock)
Date [MM/DD/YYYY]: 06/30/2011
Time [HH:MM:SS]: 11:36:57
Next
Back
Verify that Next is selected and press Enter.

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IBM Proventia GV1000 Setup
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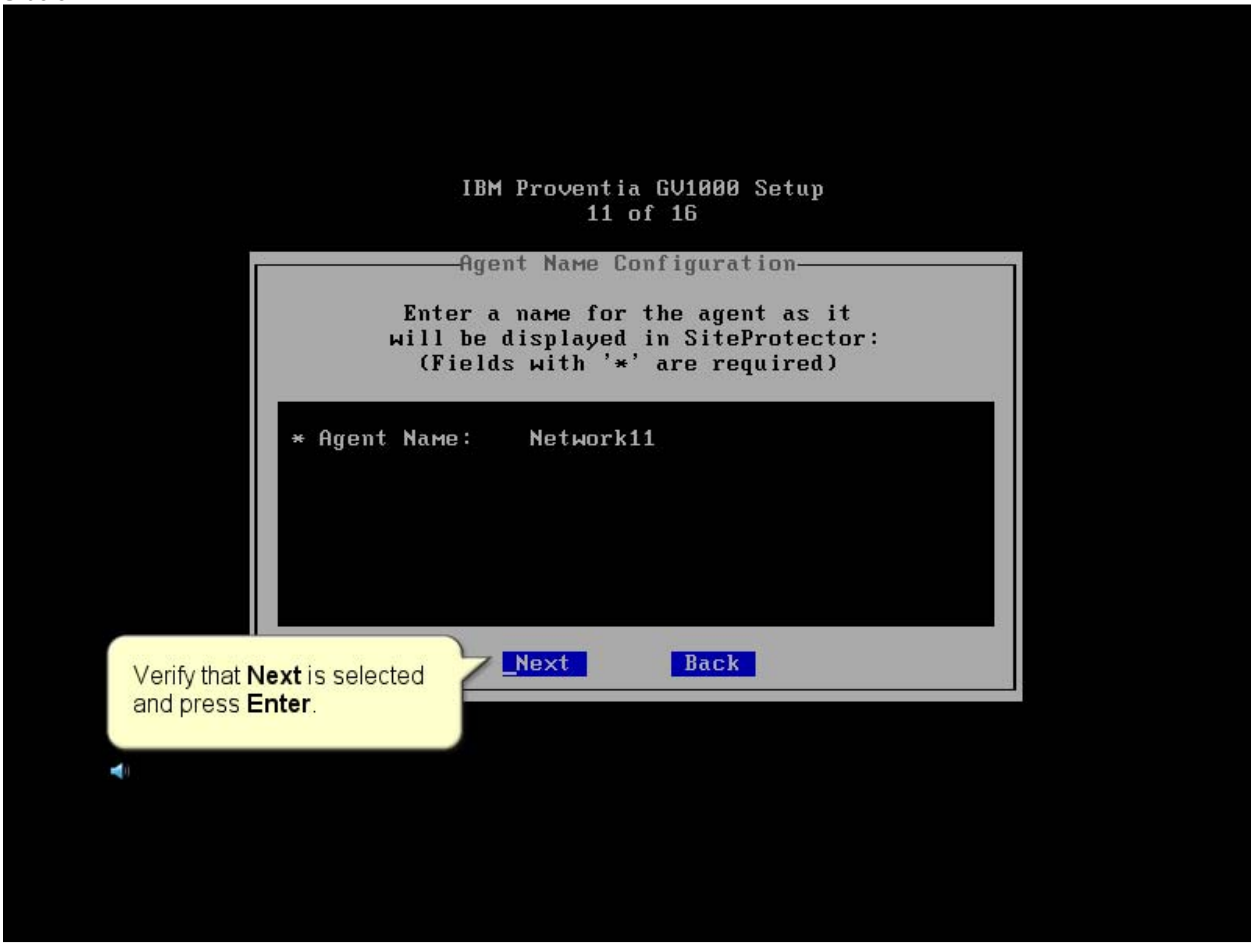
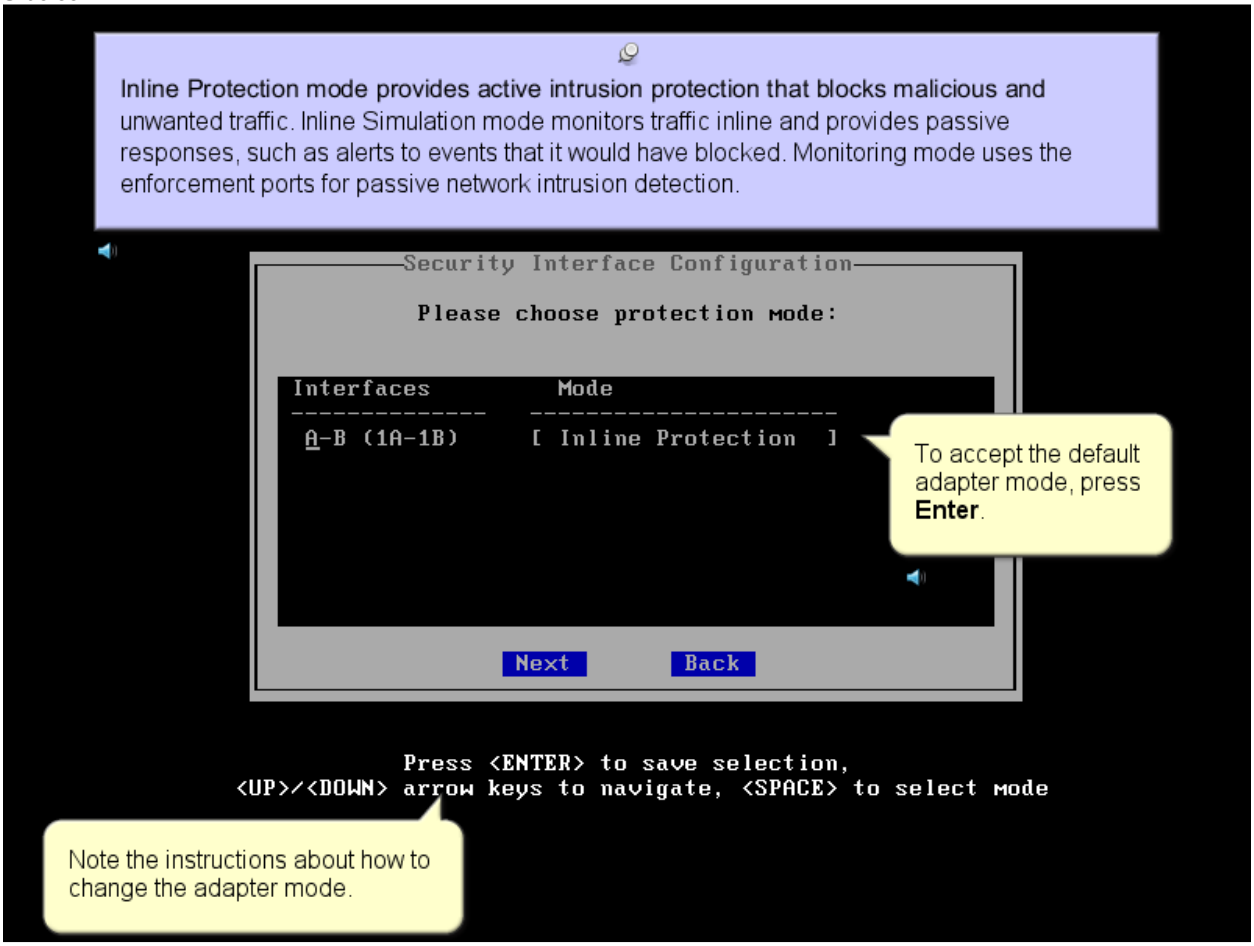
Agent Name Configuration
Enter a name for the agent as it will be displayed in SiteProtector: (Fields with '*' are required)
* Agent Name: Network11_
To accept the default agent name, press Tab.
The Agent Name is the name that appears for the appliance in the SiteProtector Console. The agent name should correspond to a meaningful classification such as the appliance's geographic location, business unit, or building address.
Next
Back

Slide 32


IBM Proventia GV1000 Setup
11 of 16
Agent Name Configuration
Enter a name for the agent as it
will be displayed in SiteProtector:
(Fields with '*' are required)
* Agent Name: Network11
Next
Back
Verify that Next is selected and press Enter.

Slide 33


Inline Protection mode provides active intrusion protection that blocks malicious and unwanted traffic. Inline Simulation mode monitors traffic inline and provides passive responses, such as alerts to events that it would have blocked. Monitoring mode uses the enforcement ports for passive network intrusion detection.
Security Interface Configuration
Please choose protection mode:
Interfaces
Mode
A-B (1A-1B)
[Inline Protection]
To accept the default adapter mode, press Enter.
Next
Back
Press <ENTER> to save selection,
<UP>/<DOWN> arrow keys to navigate, <SPACE> to select mode
Note the instructions about how to change the adapter mode.

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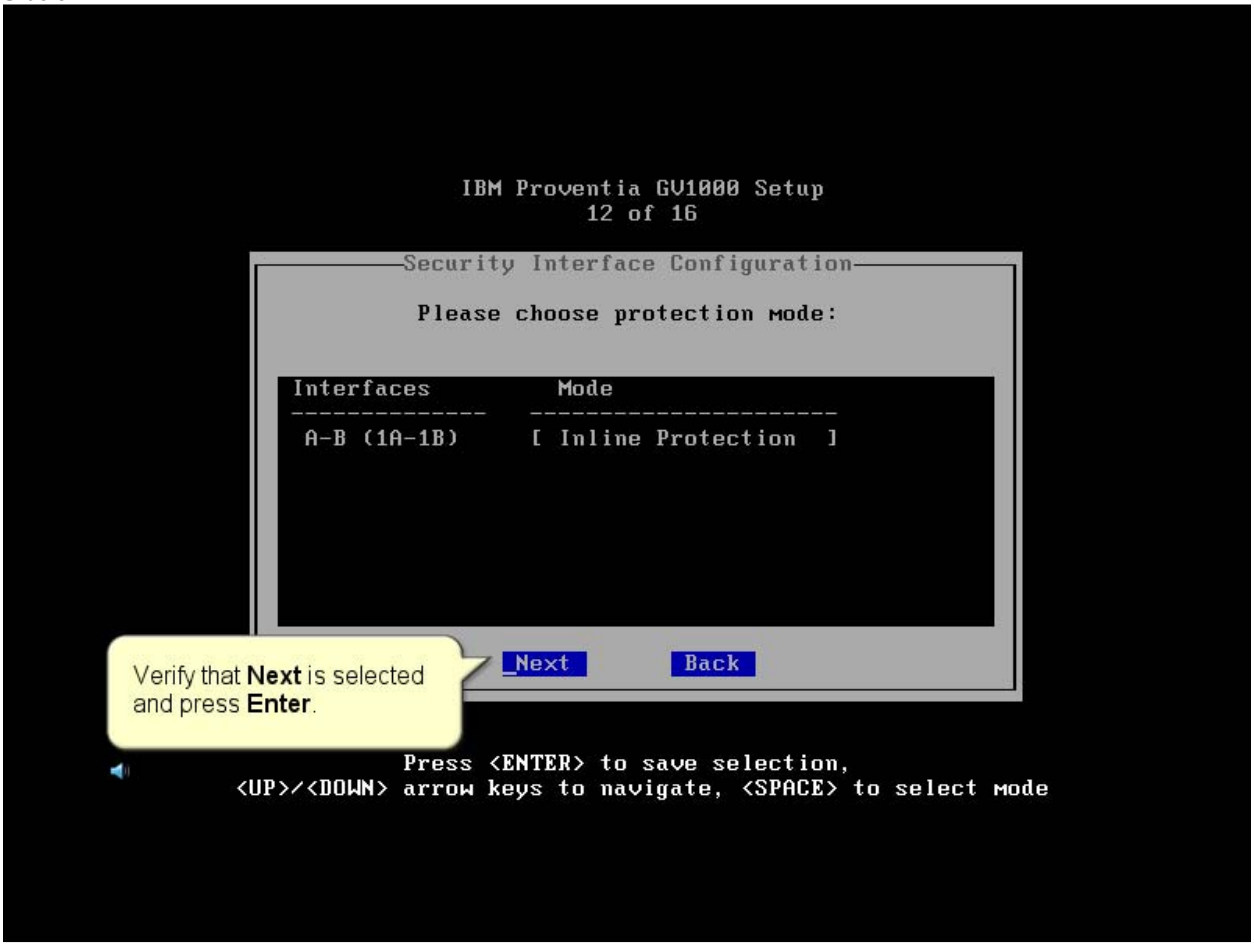
IBM Proventia GV1000 Setup
12 of 16
Security Interface Configuration
Please choose protection mode:
Interfaces
Mode
A-B (1A-1B)
[Inline Protection]
Next
Back
Verify that Next is selected and press Enter.
Press <ENTER> to save selection,
<UP>/<DOWN> arrow keys to navigate, <SPACE> to select mode

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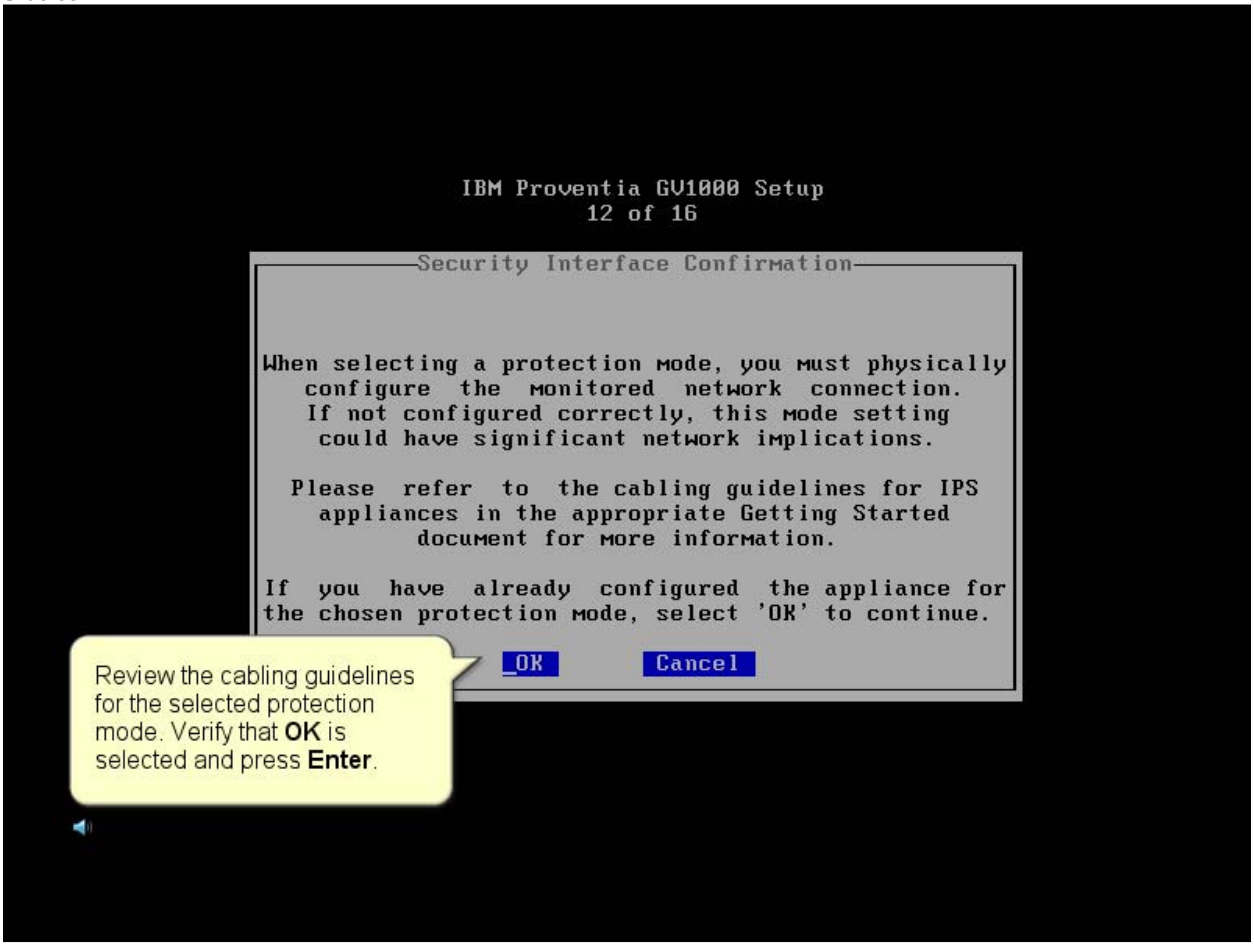
IBM Proventia GV1000 Setup
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Security Interface Confirmation
When selecting a protection mode, you must physically configure the monitored network connection. If not configured correctly, this mode setting could have significant network implications.
Please refer to the cabling guidelines for IPS appliances in the appropriate Getting Started document for more information.
If you have already configured the appliance for the chosen protection mode, select 'OK' to continue.
OK
Cancel
Review the cabling guidelines for the selected protection mode. Verify that **OK** is selected and press **Enter**.

Configuring the appliance

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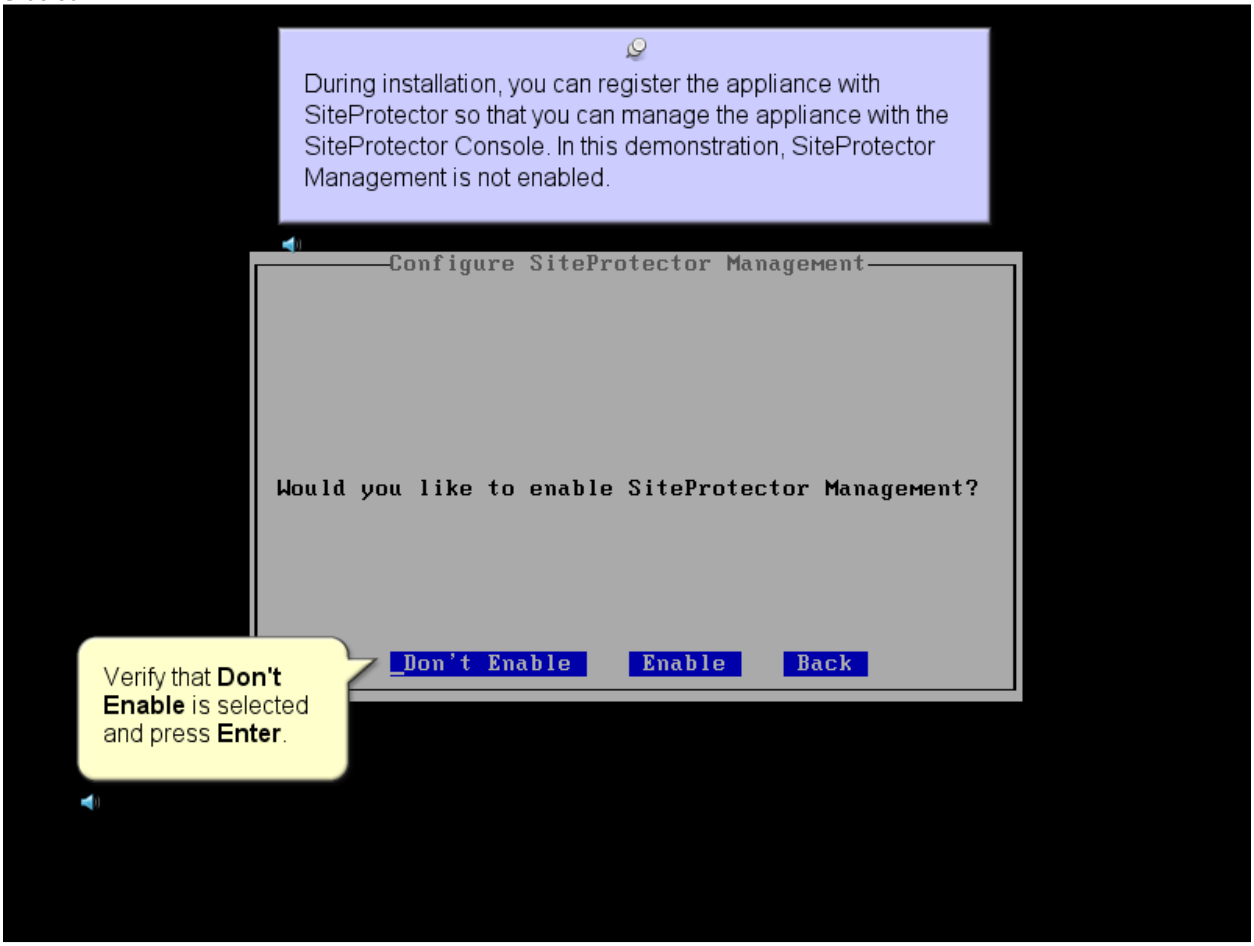
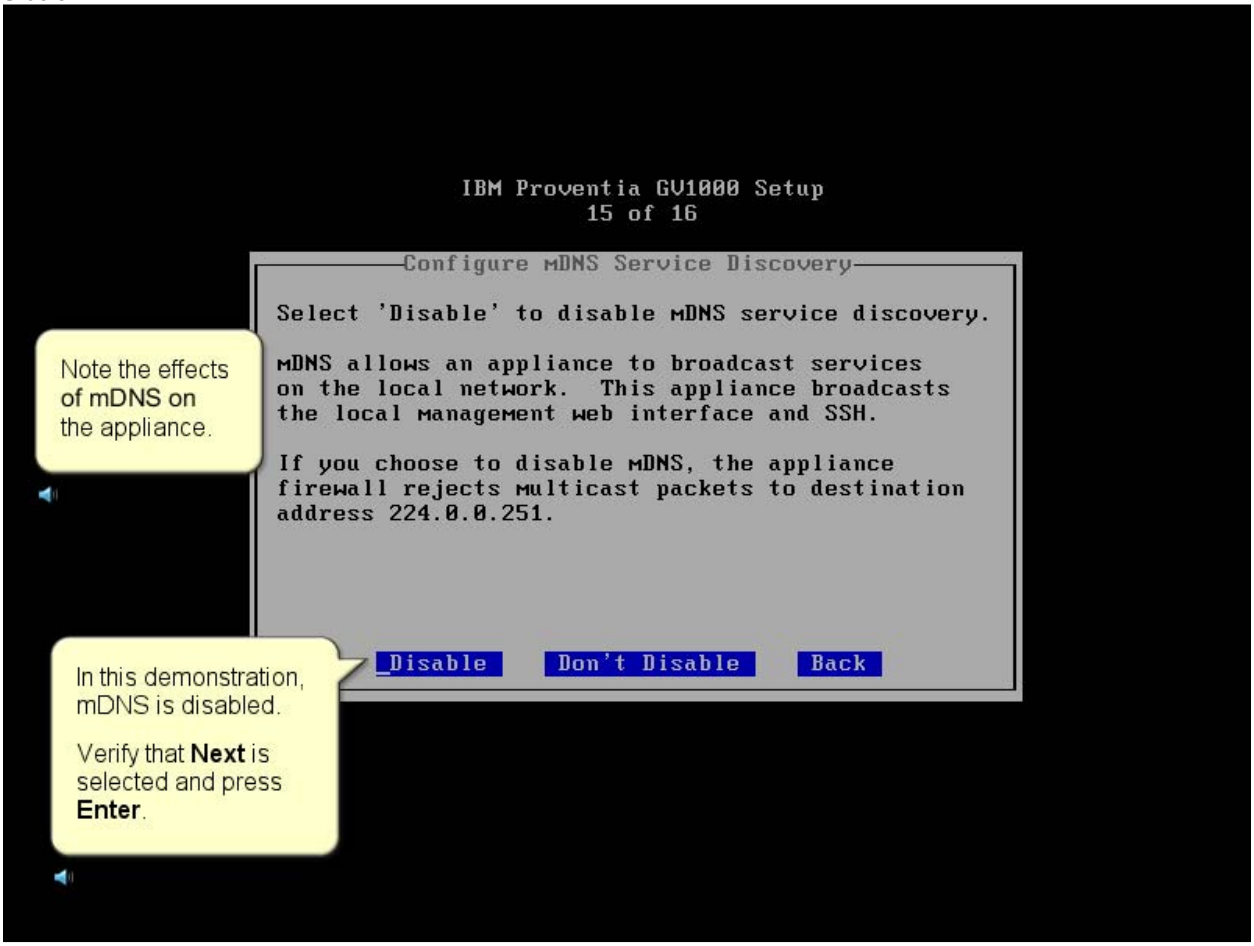


Slide 37


IBM Proventia GV1000 Setup
15 of 16
Configure mDNS Service Discovery
Select 'Disable' to disable mDNS service discovery.
mDNS allows an appliance to broadcast services on the local network. This appliance broadcasts the local management web interface and SSH.
If you choose to disable mDNS, the appliance firewall rejects multicast packets to destination address 224.0.0.251.
_Disable
Don't Disable
Back
Note the effects of mDNS on the appliance.
In this demonstration, mDNS is disabled.
Verify that Next is selected and press Enter.

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IBM Proventia GV1000 Setup
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Review Settings
On the next screens you can review your settings before they are applied.
You can review all settings or press the <Finish> key on any screen to skip the rest of the review and apply your changes.
Note: If you are configuring the appliance via SSH terminal you may lose your connection when the network settings are applied.
You can manually re-connect to the appliance with a new SSH session.
OK
Back
To review the appliance settings, verify that OK is selected and press Enter.

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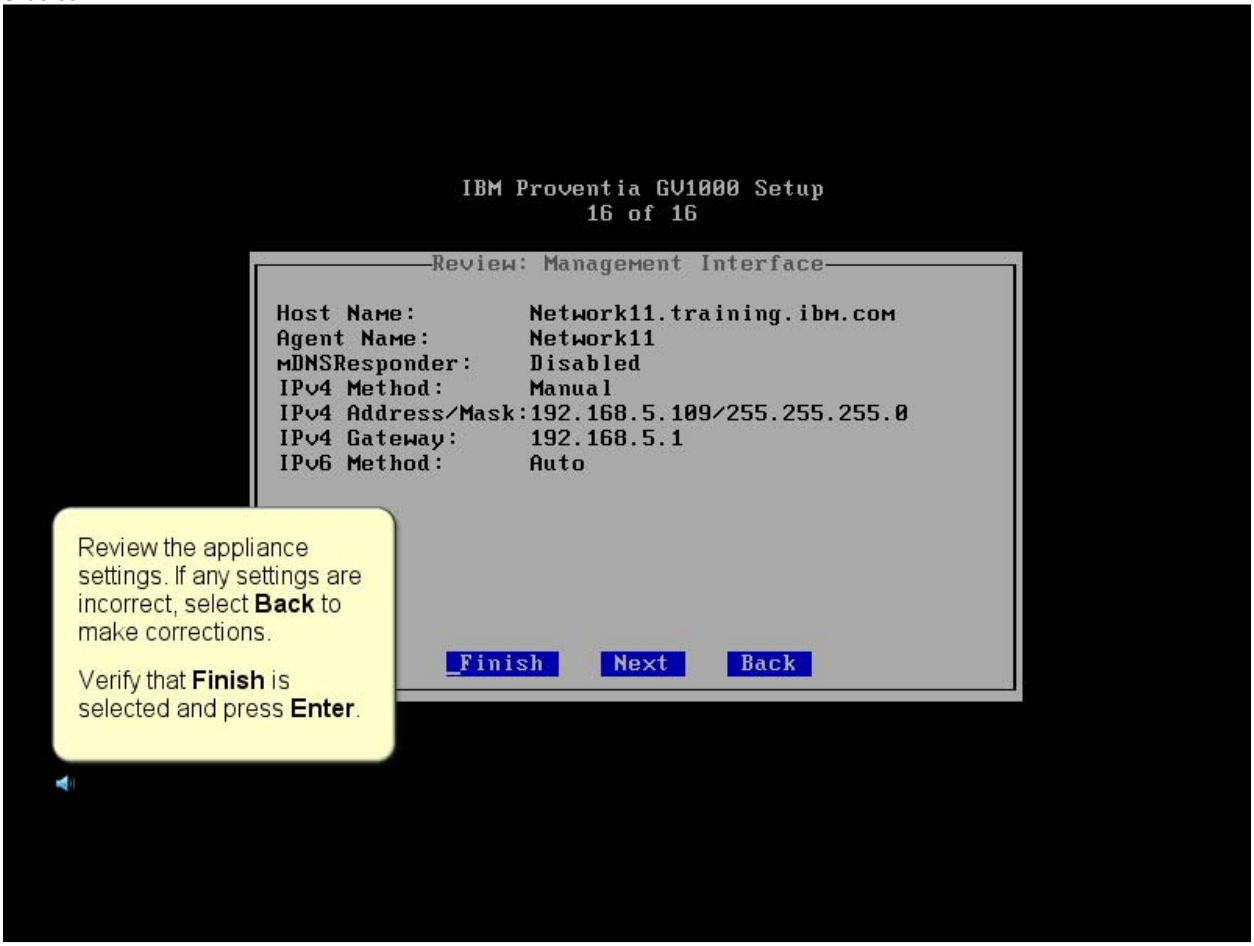
IBM Proventia GV1000 Setup
16 of 16
Review: Management Interface
Host Name: Network11.training.ibm.com
Agent Name: Network11
mDNSResponder: Disabled
IPv4 Method: Manual
IPv4 Address/Mask: 192.168.5.109/255.255.255.0
IPv4 Gateway: 192.168.5.1
IPv6 Method: Auto
Finish
Next
Back
Review the appliance settings. If any settings are incorrect, select Back to make corrections.
Verify that Finish is selected and press Enter.

Configuring the appliance

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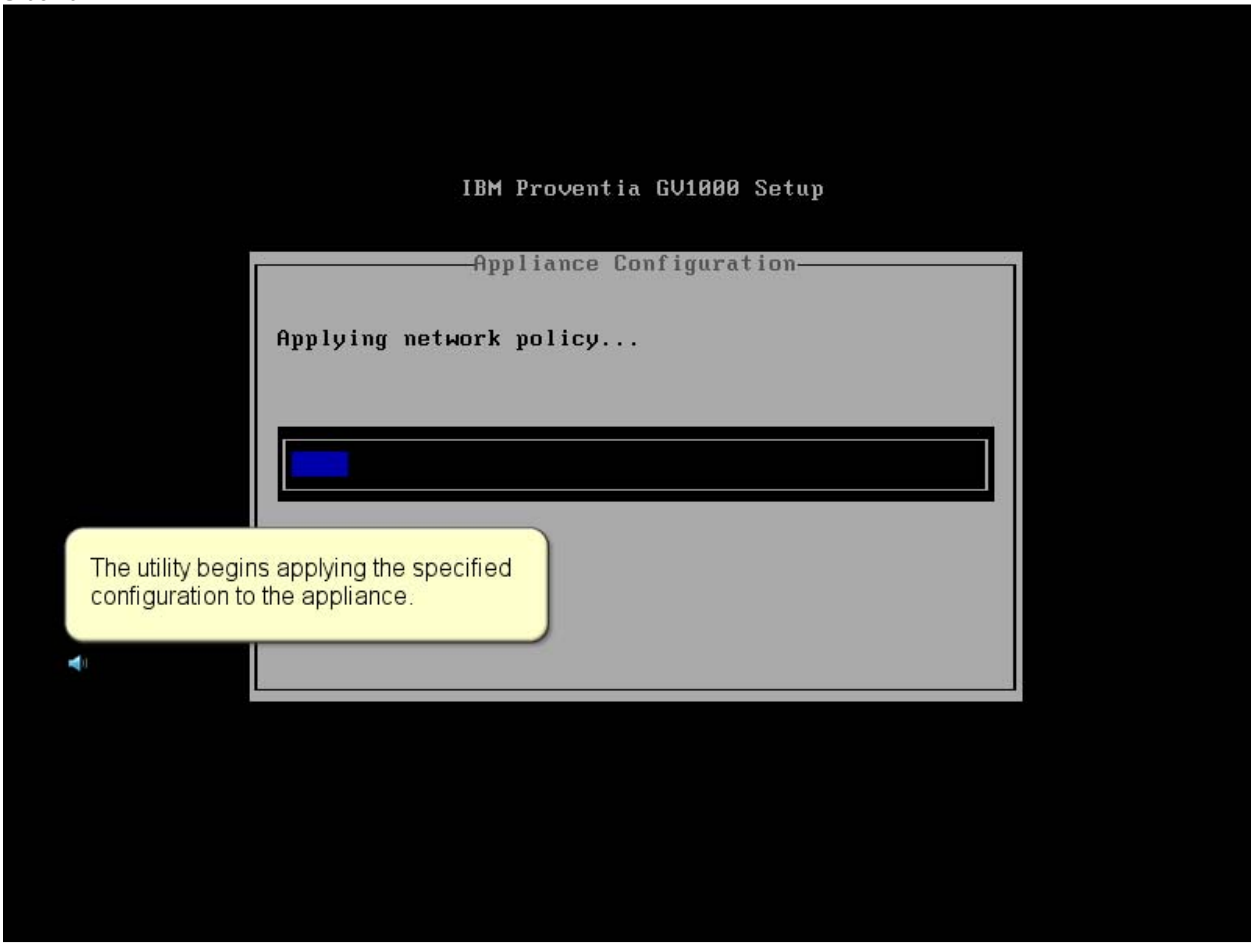
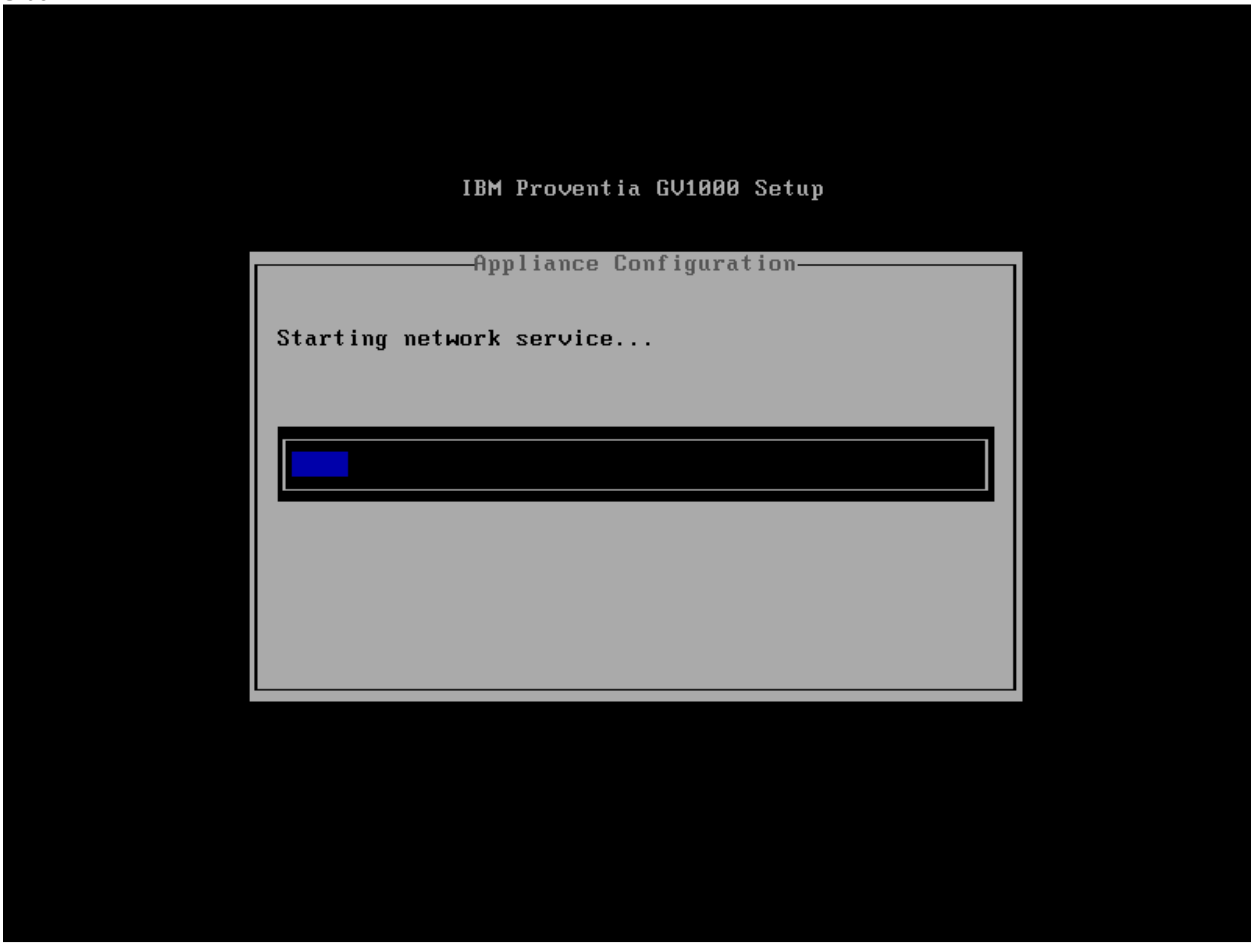


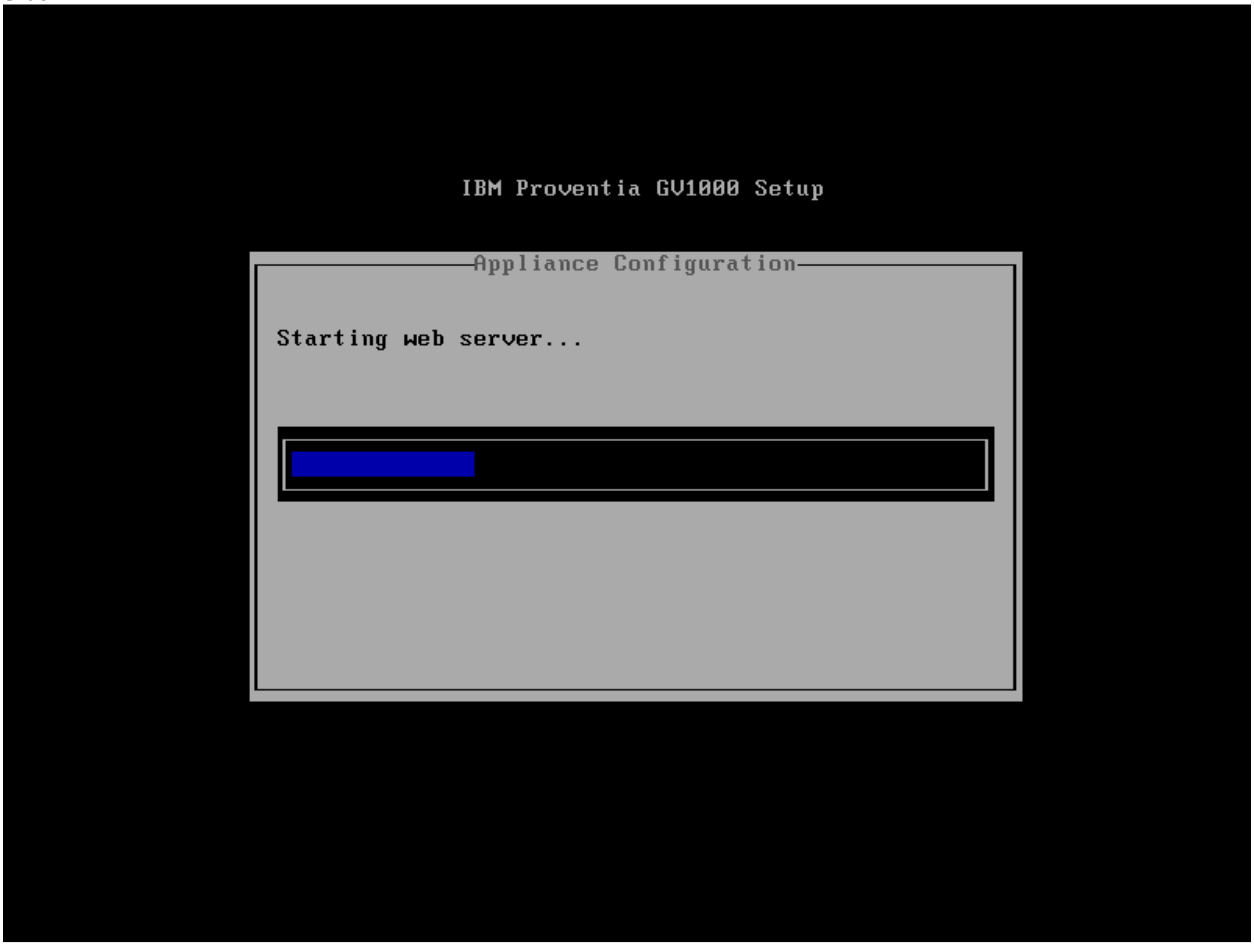
Configuring the appliance

Slide 41



Configuring the appliance

Slide 42



Configuring the appliance

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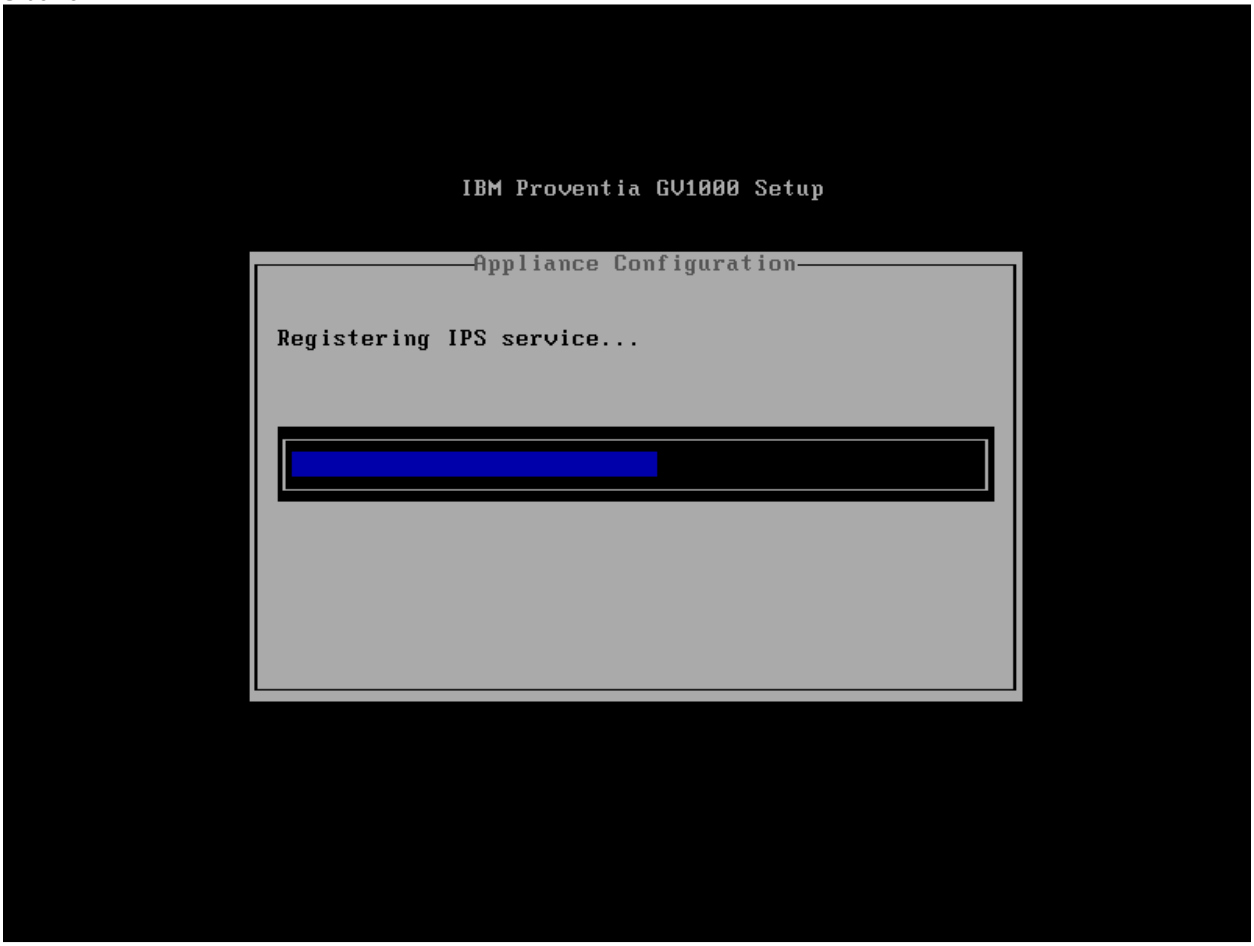

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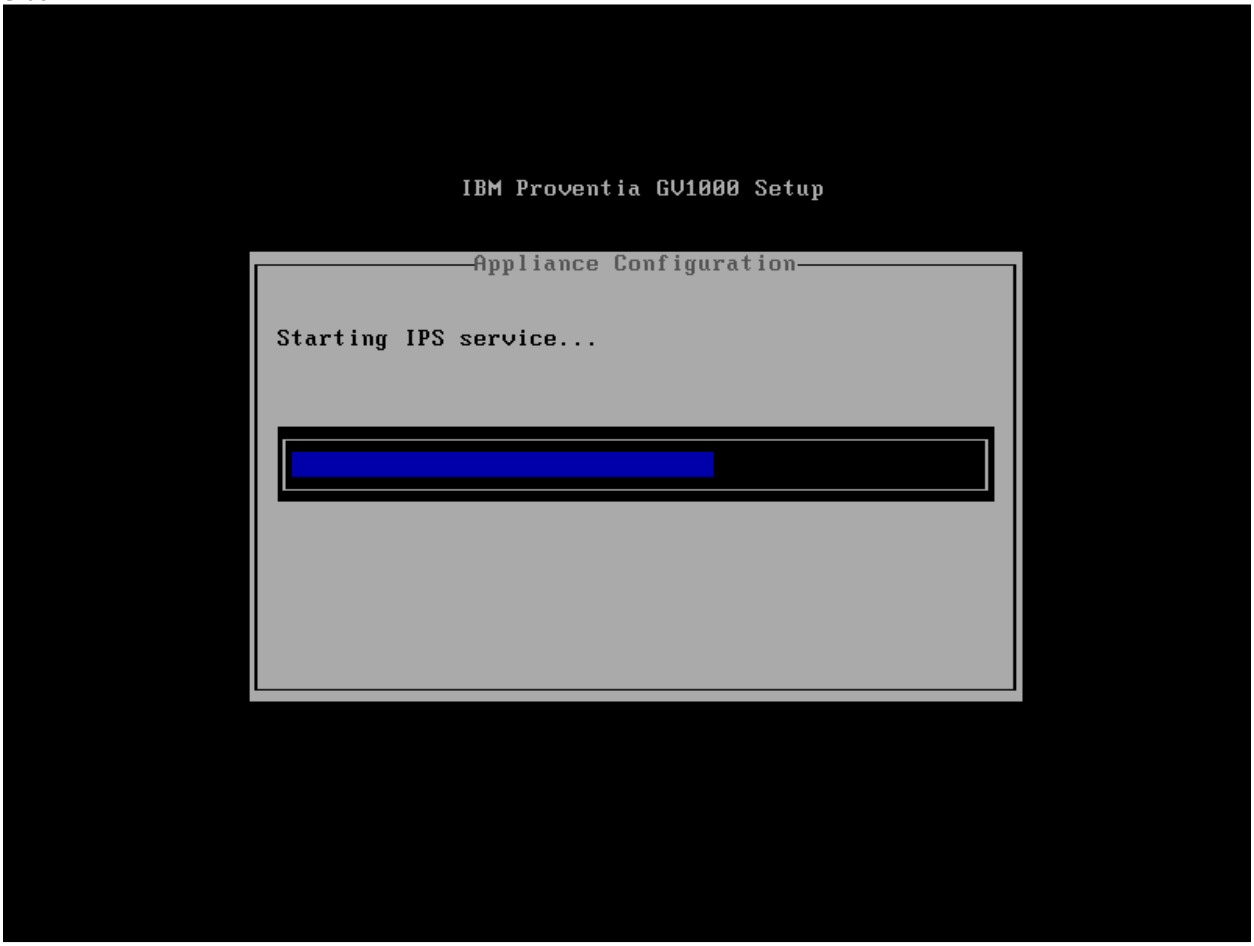
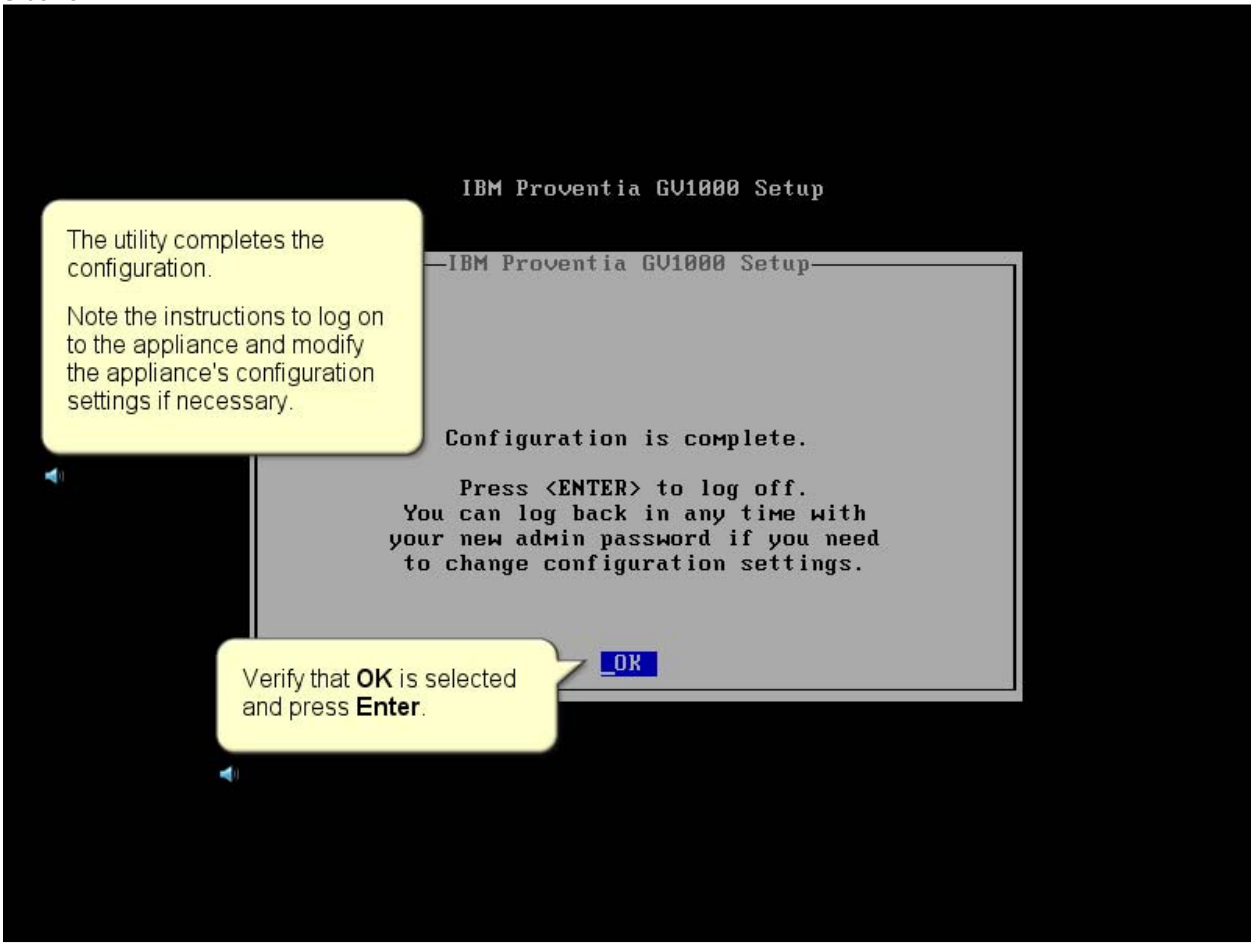

IBM Proventia GV1000 Setup
Appliance Configuration
Starting IPS service...

Configuring the appliance

Slide 45



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