

Symantec NetBackup™ 5330 Appliance Initial Configuration Guide

Release 2.6.1.2

Symantec NetBackup™ 5330 Appliance Initial Configuration Guide

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Contents

Technical Support	4
Chapter 1	Preparing for initial configuration 8
	Guidelines for NetBackup 5330 initial configuration 8
	About IPv4-IPv6-based network support 10
	About the initial configuration pages in the NetBackup Appliance Web Console 12
	NetBackup appliance initial configuration checklist 22
Chapter 2	Initial configuration procedures 27
	Configuring a master server to communicate with an appliance media server 27
	Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Web Console 29
	Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Shell Menu 44
Chapter 3	Post configuration procedures 55
	About NIC1 (eth0) port usage on NetBackup appliances 55
	Downloading NetBackup client packages to a client from a NetBackup appliance 56
	Downloading the NetBackup Administration Console to a Windows computer from a NetBackup appliance 58
	Installing NetBackup client software through CIFS and NFS shares 59
Index	62

Preparing for initial configuration

This chapter includes the following topics:

- [Guidelines for NetBackup 5330 initial configuration](#)
- [About IPv4-IPv6-based network support](#)
- [About the initial configuration pages in the NetBackup Appliance Web Console](#)
- [NetBackup appliance initial configuration checklist](#)

Guidelines for NetBackup 5330 initial configuration

Review the following guidelines before you perform the initial configuration on a new 5330 appliance:

Table 1-1 NetBackup 5330 appliance configuration guidelines

Parameter	Description
Connectivity during initial configuration	<p>When you perform the appliance initial configuration, you must take precautions to avoid loss of connectivity. Any loss of connectivity during initial configuration results in failure.</p> <p>The computer that you use to configure the appliance should be set up to avoid the following events:</p> <ul style="list-style-type: none">■ Conditions that cause the computer to go to sleep■ Conditions that cause the computer to shut down or to lose power■ Conditions that cause the computer to lose its network connection

Table 1-1 NetBackup 5330 appliance configuration guidelines (*continued*)

Parameter	Description
Required names and addresses	<p>Before the configuration, gather the following information:</p> <ul style="list-style-type: none"> ■ Network IP addresses, netmask, and gateway IP addresses for the appliance ■ Network names for all appliances ■ DNS or host information <p>Note: If DNS is not used, make sure that you enter the proper host entries for the appliance during the initial configuration.</p> <ul style="list-style-type: none"> ■ Names for NetBackup storage units <p>The Storage Name fields appear only when you configure the appliance as a media server. You can change the default names or leave them.</p> <p>Note: Only the storage unit name can be customized during the media appliance role configuration.</p> <p>The default values that appear in the NetBackup Administration Console for the storage units and disk pools are as follows:</p> <ul style="list-style-type: none"> ■ For the AdvancedDisk: <ul style="list-style-type: none"> Default storage unit name: stu_adv_<hostname> Default disk pool name: dp_adv_<hostname> ■ For the NetBackup Deduplication: <ul style="list-style-type: none"> Default storage unit name: stu_disk_<hostname> Default disk pool name: dp_disk_<hostname>
Default user name and password	<p>New NetBackup appliances are shipped with the following default log-in credentials:</p> <ul style="list-style-type: none"> ■ User name: admin ■ Password: P@ssw0rd <p>Note: When you perform the initial configuration, you are not required to change the default password. However, to increase the security of your environment you should change the password periodically. Make sure to keep a record of the current password in a secure location.</p>
Firewall port usage	<p>Make sure that the following ports are open on any firewall that exists between a master server and a media server:</p> <ul style="list-style-type: none"> ■ 13724 (vnetd) ■ 13720 (bprd) ■ 1556 (PBX) <p>For more information about firewall ports for NetBackup and the NetBackup appliance, see the following tech note on the Symantec Support website:</p> <p>http://www.symantec.com/docs/TECH178855</p>

Table 1-1 NetBackup 5330 appliance configuration guidelines (*continued*)

Parameter	Description
Media server role	<p>A NetBackup 5330 appliance can only be configured as a media server.</p> <p>Before you configure this appliance as a media server, the master server that you plan to use with it must be updated with the new appliance media server name. Whether the master server is a NetBackup appliance or a traditional NetBackup master server, the name of the new appliance media server must be added to the Additional Servers list on the master server.</p> <p>Adding the new appliance media server name to the master server before the new appliance is configured provides the following benefits when performing the initial configuration on the new appliance:</p> <ul style="list-style-type: none"> ■ Provides the appropriate network communication that allows the media server to become part of the NetBackup domain. ■ Allows the media server to create the storage server and the disk pool entries. <p>See “Configuring a master server to communicate with an appliance media server” on page 27.</p>
Disk storage option licenses	<p>The appliance comes with a not for resale (NFR) license key that expires after a specific period of time. The appliance does not provide a warning message that this license key is about to expire. Thus, Symantec recommends that you change this key to a permanent key after you install and configure the appliance. See the <i>Symantec NetBackup Appliance Administrator's Guide</i> for information and instructions on how to view and change a license key.</p> <p>Replace the NFR keys with permanent keys before they expire.</p>
NetBackup version compatibility	<p>NetBackup appliance Release 2.6.1.2 includes NetBackup version 7.6.1.2.</p> <p>To use this appliance as a media server, use the following guidelines for the associated master server:</p> <ul style="list-style-type: none"> ■ Appliance master server The appliance master server that you plan to use with this appliance media server must use appliance software version 2.6.1.2 or later. If the appliance master server currently uses an earlier version, it must be upgraded to version 2.6.1.2 before you configure this appliance. ■ Traditional NetBackup master server To use this appliance media server with a traditional NetBackup master server, the master server must use NetBackup version 7.6.1.2 or later. If the NetBackup master server currently uses an earlier version, it must first be upgraded to version 7.6.1.2 before you configure this appliance.

About IPv4-IPv6-based network support

NetBackup appliances are supported on a dual stack IPv4-IPv6 network and can communicate with IPv6 clients for backups and restores. You can assign an IPv6 address to an appliance, configure DNS, and configure routing to include IPv6 based systems.

Either the NetBackup Appliance Web Console or the NetBackup Appliance Shell Menu can be used to enter the IPv4 and IPv6 address information.

Review the following considerations for IPv6 addresses:

- NetBackup appliances do not support a pure IPv6 network. An IPv4 address must be configured for the appliance, otherwise the initial configuration (which requires the command `hostname set`) is not successful. For this command to work, at least one IPv4 address is required.

For example, suppose that you want to set the `hostname` of a specific host to v46. To do that, first make sure that the specific host has at least one IPv4 address and then run the following command:

```
Main_Menu > Network > Hostname set v46
```

- Only global addresses can be used, not addresses with link-local or node-local scope. Global-scope and unique-local addresses are both treated as global addresses by SUSE.

Global-scope IP addresses refer to the addresses that are globally routable. Unique-local addresses are treated as global on SUSE.

- You cannot use both an IPv4 and an IPv6 address in the same command. For example, you cannot use `Configure 9ffe::9 255.255.255.0 1.1.1.1`. You should use `Configure 9ffe::46 64 9ffe::49 eth1`.

- Embedding the IPv4 address within an IPv6 address is not supported. For example, you cannot use an address like `9ffe::10.23.1.5`.

- You can add an appliance media server to the master server if the IPv6 address and the host name of the appliance media server are available.

For example, to add an appliance media server to the master server, enter the IPv6 address of the appliance media server as follows:

Example:

```
Main > Network > Hosts add 9ffe::45 v45 v45
```

```
Main > Appliance > Add v45 <password>
```

You do not need to provide the IPv4 address of the appliance media server.

- A pure IPv6 client is supported in the same way as in NetBackup.
- You can enter only one IPv4 address for a network interface card (NIC) or bond. However, you can enter multiple IPv6 addresses for a NIC or bond.
- Network File System (NFS) or Common Internet File System (CIFS) protocols are supported over an IPv4 network on appliance. NFS or CIFS are not supported on IPv6 networks.
- The NetBackup client can now communicate with the media server appliance over IPv6.

About the initial configuration pages in the NetBackup Appliance Web Console

- The `Main_Menu > Network > Hosts` command supports multiple IPv6 addresses to be assigned to the same host name having one network interface card (NIC). However, only one IPv4 address can be assigned to a specific host name having one NIC using this command.
- You can add an IPv6 address of a network interface without specifying a gateway address.

For more details, see the *NetBackup Appliance Command Reference Guide*.

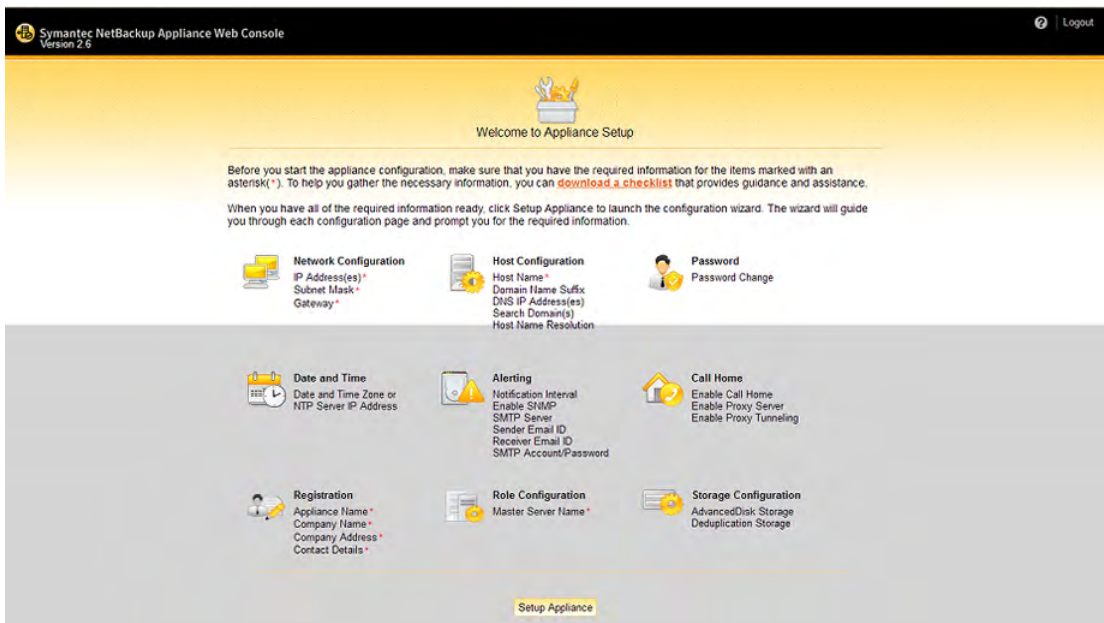
About the initial configuration pages in the NetBackup Appliance Web Console

NetBackup appliances let you perform the initial configuration from the NetBackup Appliance Web Console with a series of pages where you enter the appropriate information.

Welcome to Appliance Setup page

Figure 1-1 shows the page that first appears when you log in to an unconfigured appliance. This page provides a summary of the initial configuration tasks.

Figure 1-1 Welcome to Appliance Setup page

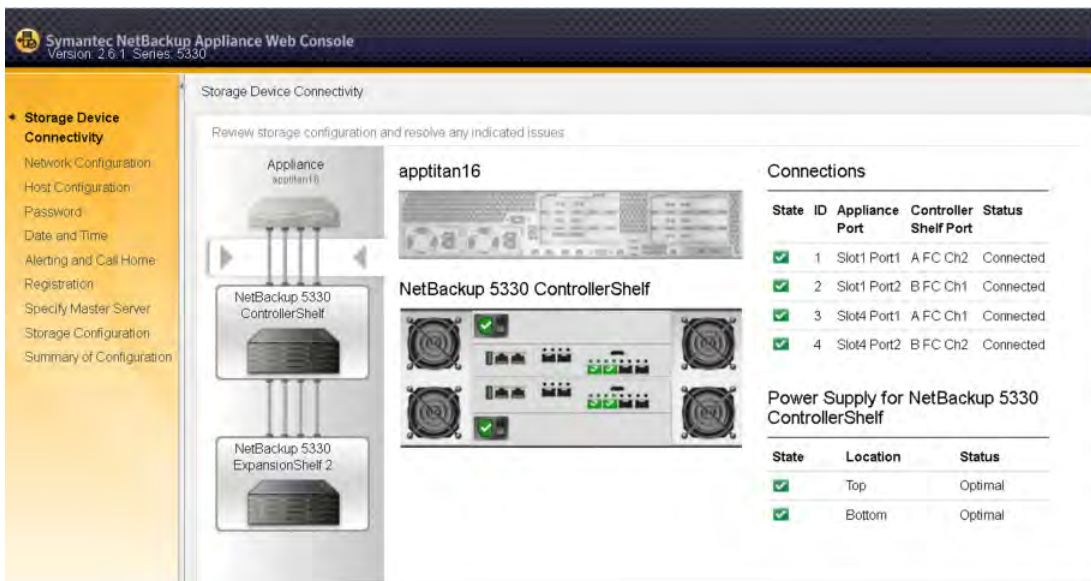


Note: Symantec recommends that you click on the **download a checklist** link and use it to record all of the necessary information before you begin the configuration.

Storage Device Connectivity page

Figure 1-2 shows the page that is used to check the status of all system hardware components. This page identifies any component cabling problems between the appliance server and the Primary Storage Shelf or the Expansion Storage Shelf. Disk drive problems are also identified if any exist.

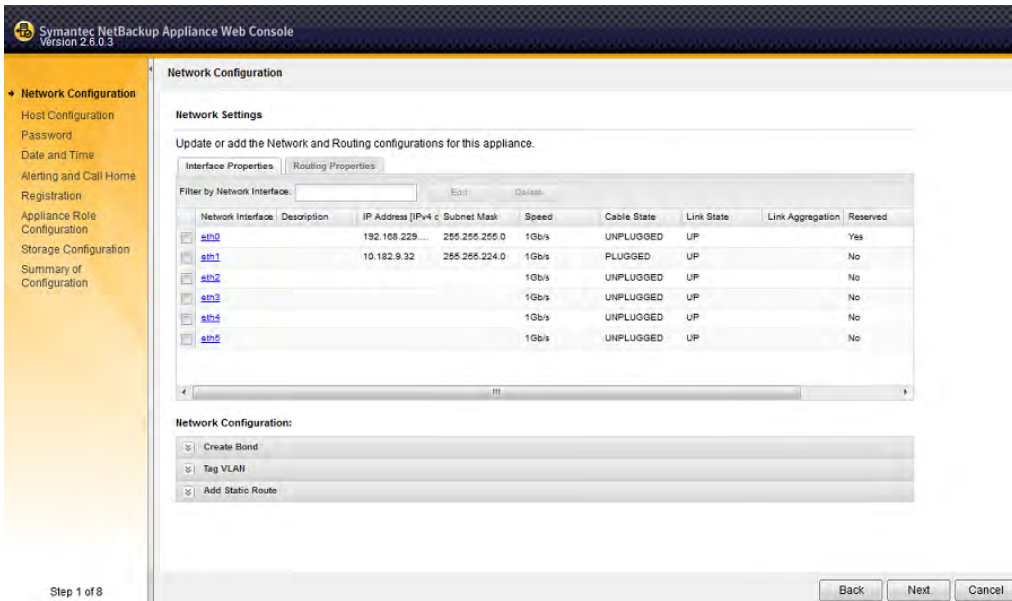
Figure 1-2 Storage Device Connectivity page



Network Configuration page

Figure 1-3 shows the page that is used to enter your corporate network information.

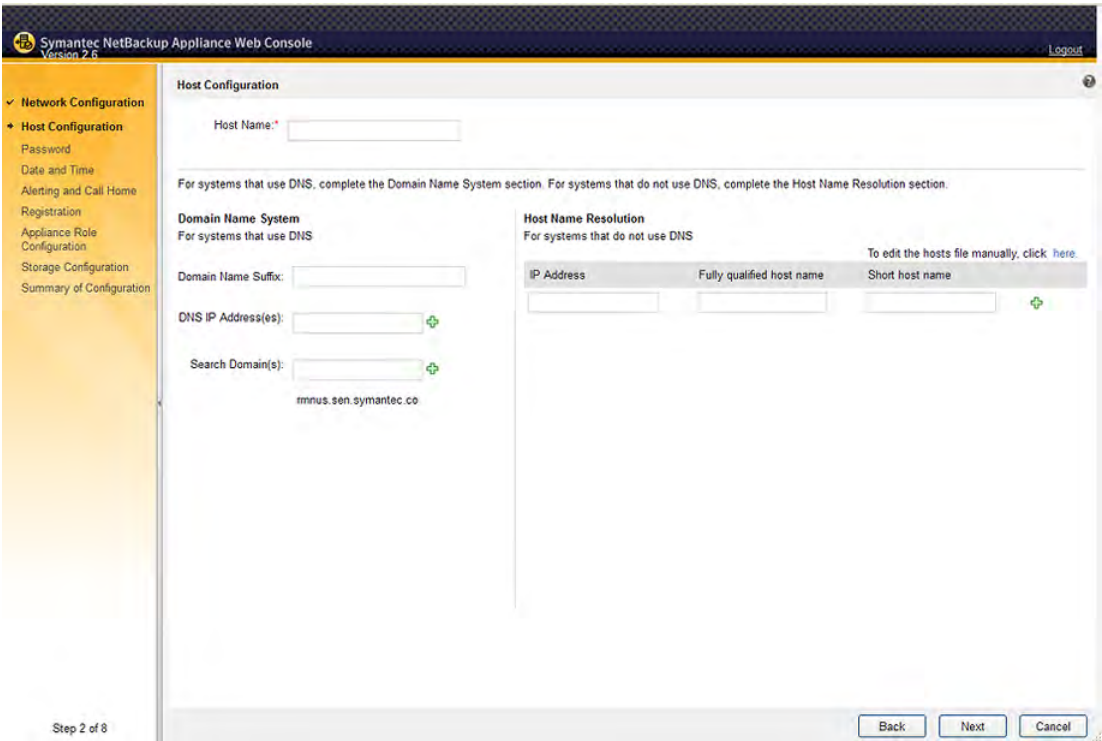
Figure 1-3 Network configuration page



Host Configuration page

Figure 1-4 shows the page that is used to enter the host identification for this appliance server.

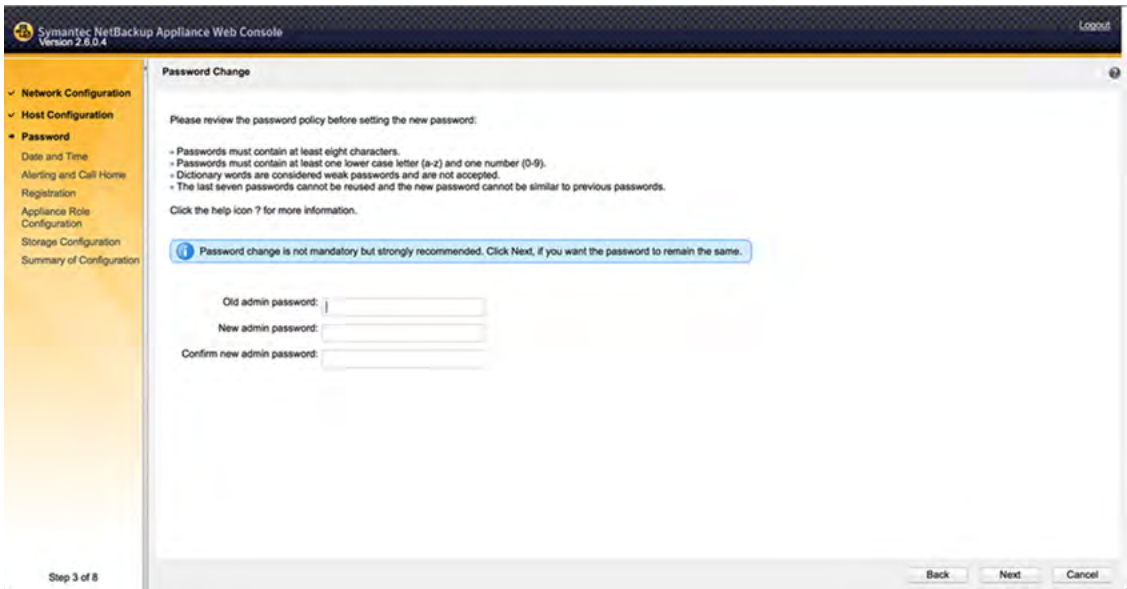
Figure 1-4 Host configuration page



Password change page

Figure 1-5 shows the page that is used to change the password for this appliance server.

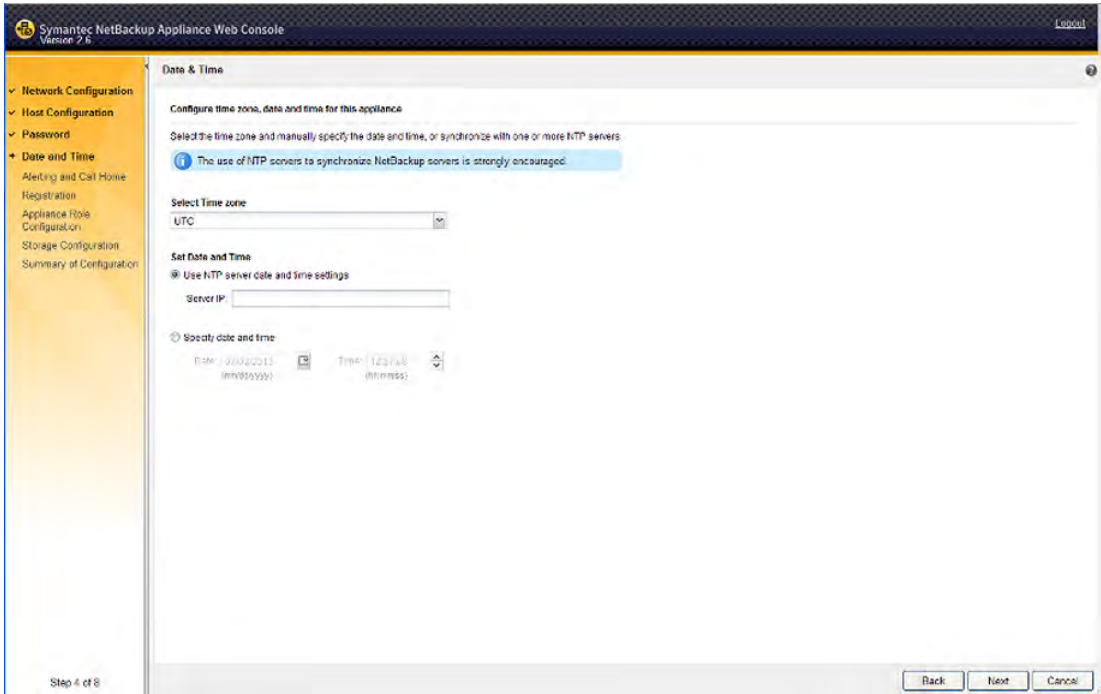
Figure 1-5 Password change page



Date and Time page

Figure 1-6 shows the page that is used to set the date, the time, and the time zone for this appliance server.

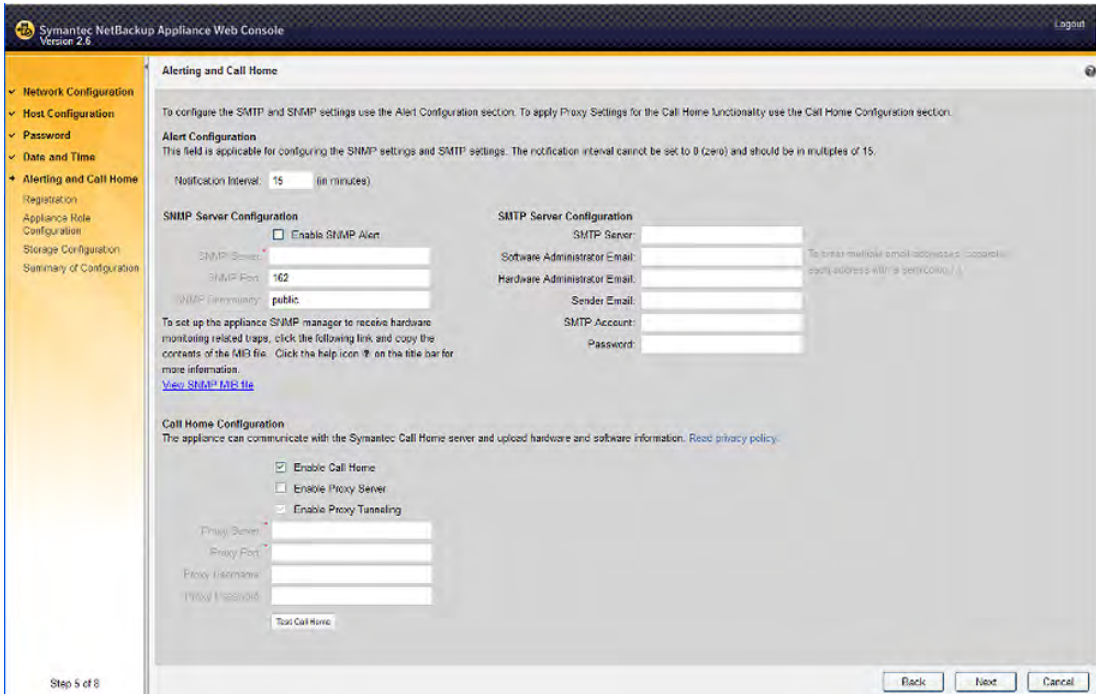
Figure 1-6 Date & Time page



Alerting and Call Home page

Figure 1-7 shows the page that is used to configure system alerts and the Call Home feature.

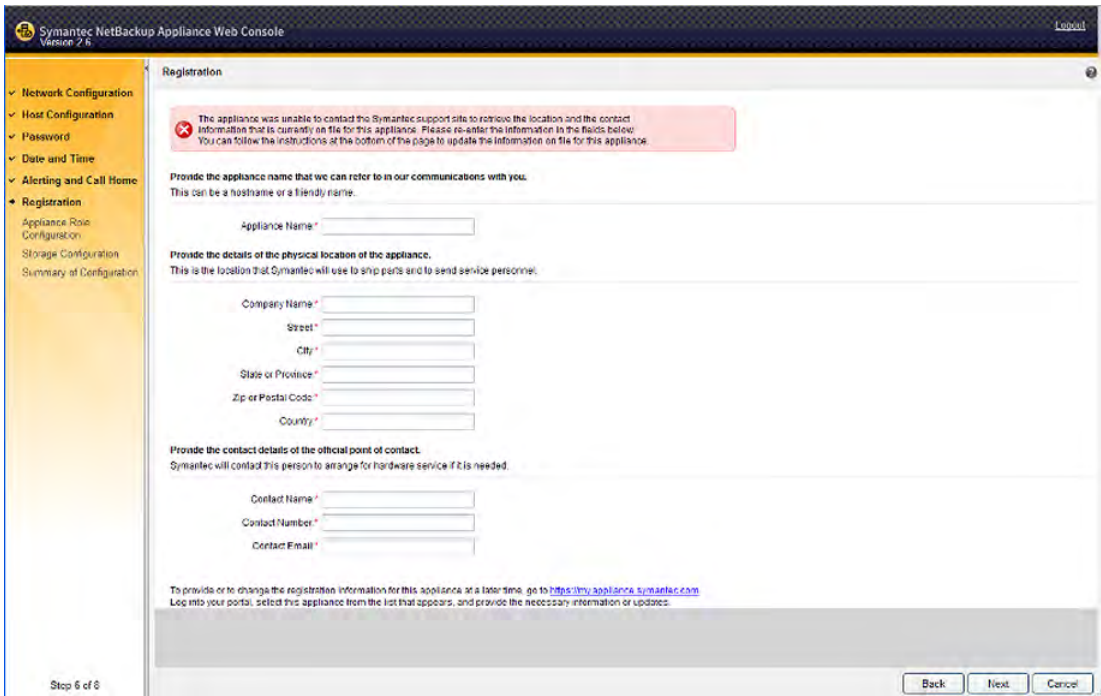
Figure 1-7 Alerting and Call Home page



Registration page

Figure 1-8 shows the page that is used to identify the physical location for this appliance server.

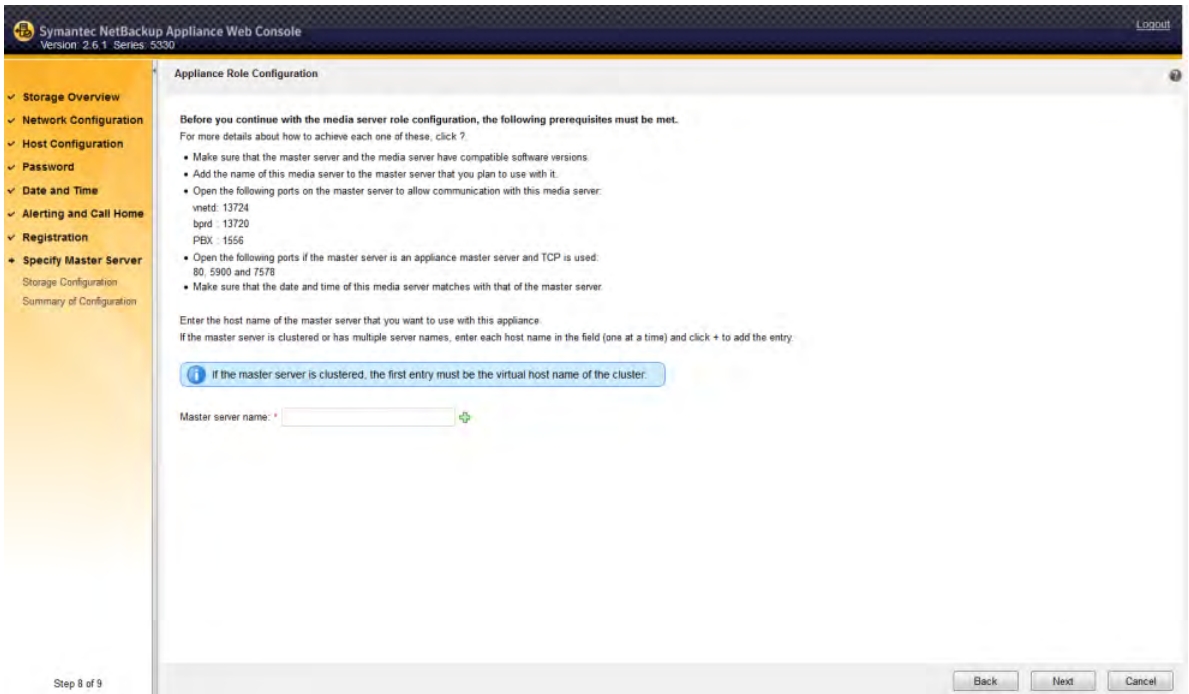
Figure 1-8 Registration page



Specify Master Server

Figure 1-9 shows the page where you identify the master server that you want to use with this media server.

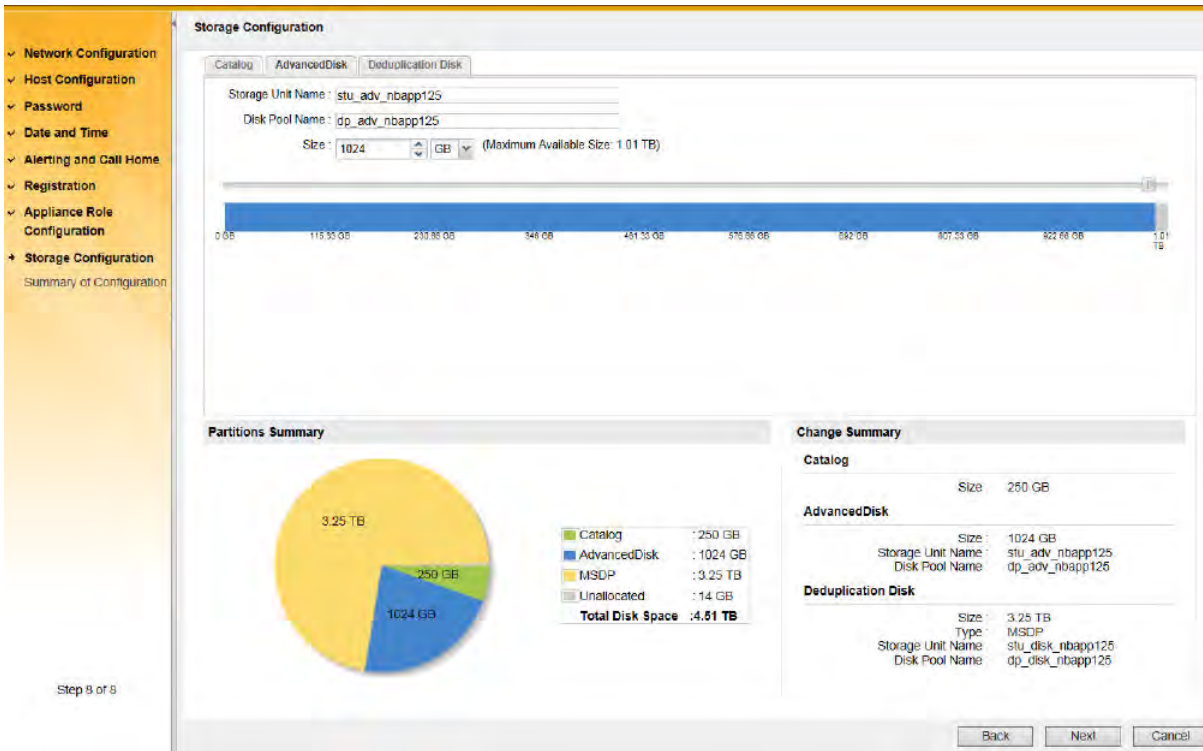
Figure 1-9 Specify master server page



Storage Configuration page (AdvancedDisk)

Figure 1-10 shows the page that is used to allocate storage space for the AdvancedDisk partition and to name the storage unit and the disk pool.

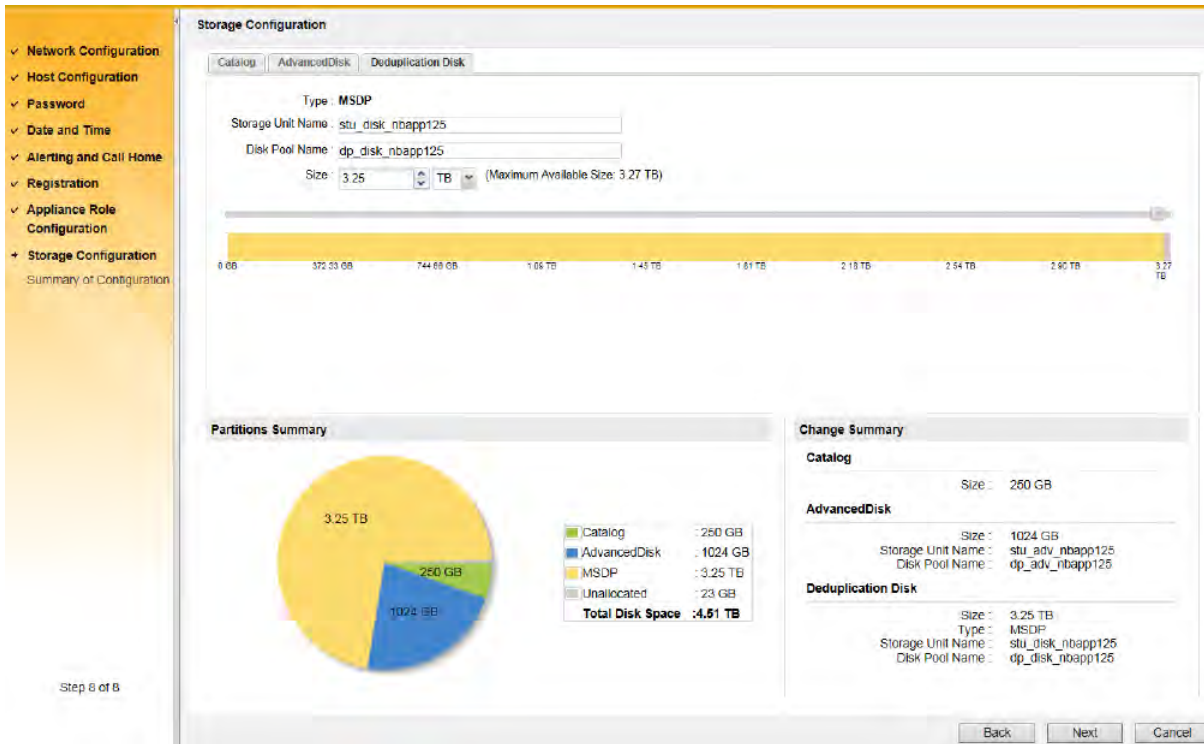
Figure 1-10 Storage configuration page for AdvancedDisk



Storage Configuration page (Deduplication Disk/MSDP)

Figure 1-11 shows the page that is used to allocate storage space for the MSDP (Media Server Deduplication Pool) partition and to name the storage unit and the disk pool.

Figure 1-11 Storage configuration page for Deduplication Disk/MSDP



NetBackup appliance initial configuration checklist

This checklist is intended to help you plan for the initial configuration of your appliance.

For a new appliance, use the following tables to record the initial configuration settings for this appliance. If this appliance is ever factory reset or re-imaged, the appliance must be configured again. The recorded settings in the checklist can save valuable time and help get the appliance back on line quickly.

When using the hard copy or printed version of this checklist, make sure to place the completed checklist in a secure location.

You can also obtain a PDF version of the checklist to download and save to a location of your choice. The PDF file also lets you enter the settings so that you can either save or print the completed checklist.

To access the latest version of this checklist, see the following link:

www.symantec.com/docs/DOC6675

Table 1-2 Network Configuration - Create Bond

Field	Setting
Network Interface	
Bond Mode	
IP Address	
Subnet Mask	

Table 1-3 Network Configuration - Tag VLAN

Field	Setting
Select Interface	
Description (for Select Interface field above)	
VLAN Id	
IP Address (IPv4 or IPv6)	
Subnet Mask	

Table 1-4 Network Configuration - Add Static Route

Field	Setting
Destination IP	
Destination Subnet Mask	
Gateway	
Network Interface	

Table 1-5 Host Configuration

Field	Setting
Host Name	
Domain Name System (DNS)	DNS:
<ul style="list-style-type: none"> ■ Domain Name Suffix ■ DNS IP Address ■ Search Domain(s) 	<ul style="list-style-type: none"> ■ _____ ■ _____ ■ _____

Table 1-5 Host Configuration (*continued*)

Field	Setting
Host Name Resolution (no DNS)	No DNS:
<ul style="list-style-type: none"> ■ IP address ■ Fully qualified host name ■ Short host name 	<ul style="list-style-type: none"> ■ _____ ■ _____ ■ _____

Table 1-6 Password change

Field	Setting
Old admin password	
New admin password	
Confirm new admin password	

Table 1-7 Date and time configuration

Field	Setting
Time zone	
NTP Server IP	
Date and Time	

Table 1-8 Alerting Configuration

Field	Setting
Notification Interval (in 15-minute intervals)	
Enable SNMP Alert	
SNMP server (required only if you check Enable SNMP Alert)	
SNMP port	
SNMP community	
SMTP server	
Software administrator email address	
Hardware administrator email address	

Table 1-8 Alerting Configuration (*continued*)

Field	Setting
Sender email address	
SMTP account	
Password	

Table 1-9 Call Home Configuration

Field	Setting
Enable Call Home	
Enable proxy server	
Enable proxy tunneling	
Proxy server (required only if you check Enable proxy server)	
Proxy port (required only if you check Enable proxy server)	
Proxy user name	
Proxy password	

Table 1-10 Registration

Field	Setting
Appliance Name	
Company Name	
Street	
City	
State or Province	
ZIP or Postal Code	
Country	
Contact Name	
Contact Number	

Table 1-10 Registration (*continued*)

Field	Setting
Contact Email	

Table 1-11 Role Configuration

Field	Setting
Master server name	

Table 1-12 AdvancedDisk storage configuration

Field	Setting
Storage Unit name	
Disk Pool Name	
Size	

Table 1-13 Deduplication (MSDP) Disk Configuration

Field	Setting
Storage Unit name	
Disk Pool Name	
Size	

Initial configuration procedures

This chapter includes the following topics:

- [Configuring a master server to communicate with an appliance media server](#)
- [Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Web Console](#)
- [Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Shell Menu](#)

Configuring a master server to communicate with an appliance media server

Before you configure a new appliance for the **Media** server role, you must first update the configuration on the master server that you plan to use with it. The changes allow for appropriate communication between the master server and the new media server.

The following procedure describes how to configure a master server to communicate with a new appliance media server.

To configure a master server to communicate with a new media server

- 1 Before the appliance is configured for the media server role, verify that the software version is compatible with the master server as follows:
 - If the master server is a NetBackup appliance:

- If the master server is a traditional (non-appliance) NetBackup master server:
- 2 Log in to the master server as the administrator and add the media server name to it as follows:

For an appliance master server:

From the NetBackup Appliance Web Console:

- Click **Manage > Additional Servers > Add**.
- In the **Appliance Hostname** field, enter the fully qualified host name (FQHN) of the appliance media server that you want to add.
- Click **Add**.
If the appliance has more than one host name, you must add all of the names.

From the NetBackup Appliance Shell Menu:

- From the **Main_Menu > Settings** view, run the following command:
`Settings > NetBackup AdditionalServers
Add media-server`
Where *media-server* is the fully qualified host name (FQHN) of the appliance media server that is not yet configured.
If the appliance has more than one host name, you must add all of the names.

For a traditional NetBackup master server:

- Log on to the NetBackup Administration Console as the administrator.
- On the main console window, in the left pane, click **NetBackup Management > Host Properties > Master Servers**.
- In the right pane, click on the master server host name.
- On the **Host Properties** window, in the left pane, click **Servers**.
- In the right pane, in the **Additional Servers** section, click **Add** and enter your appliance host name. The appliance host name should appear in the top **Additional Servers** section.
If the appliance has more than one host name, you must add all of the names.
- Click **OK** and close the **Master Server Properties** window.

- 3 If a firewall exists between the master server and the media server, open the following ports on the master server to allow communication with the media server:

Note: You must be logged in as the administrator to change port settings.

- `vnetd: 13724`
 - `bprd: 13720`
 - `PBX: 1556`
 - If the master server is a NetBackup appliance that uses TCP, open the following ports:
443, 5900, and 7578.
- 4 Make sure that the date and time of the media server matches the date and time on the master server. You can use an NTP server or set the time manually.

See [“Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Web Console”](#) on page 29.

Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Web Console

This topic describes how to configure a NetBackup 5330 appliance that is new or has been reset to the factory defaults (factory reset).

This method requires that you connect a laptop directly to appliance port **NIC1** (eth0). A NetBackup 5330 appliance can only be configured as a media server.

Before you perform the initial configuration on this media server, verify that you have already performed the following tasks:

- Verified that the master server and this media server have compatible software versions.
- Added the name of this media server to the master server that you plan to use with it.
- Opened the appropriate ports on the master server if a firewall exists between the master server and this media server.

See [“Configuring a master server to communicate with an appliance media server”](#) on page 27.

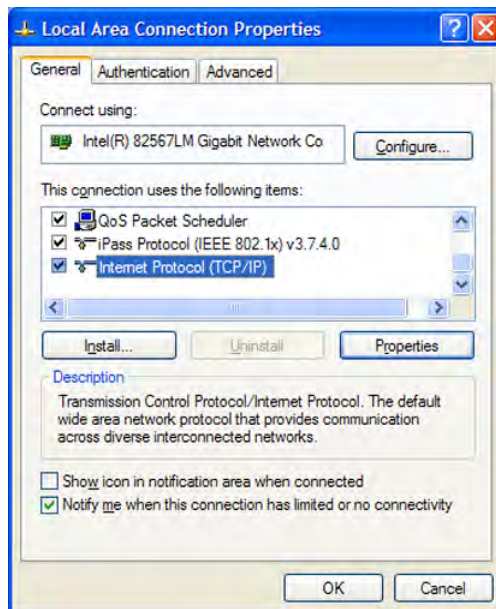
Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Web Console

- Completed the initial configuration checklist.

To perform the initial configuration on a NetBackup 5330 media server appliance from the NetBackup Appliance Web Console

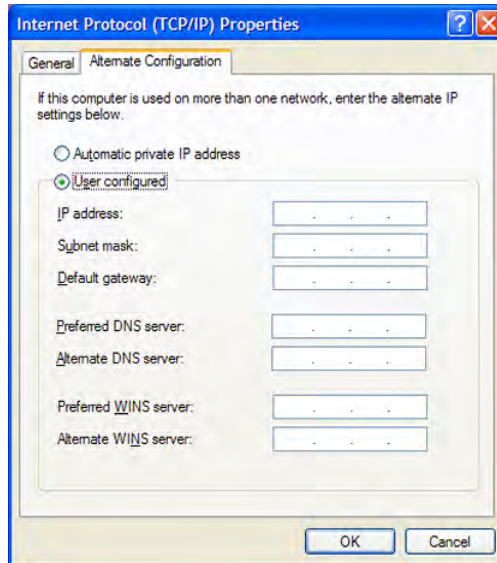
- 1 Connect a laptop to appliance port **NIC1**. Next, navigate to the **Local Area Connection Properties** dialog box.

On the **General** tab, select **Internet Protocol (TCP/IP)** so that it is highlighted, then click **Properties**.



On the **Alternate Configuration** tab, perform the following tasks:

Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Web Console



- Click **User Configured**.
 - For the **IP address**, enter **192.168.229.nnn**, where **nnn** is any number from 2 through 254 except for 233.
 - For the **Subnet mask**, enter **255.255.255.0**.
 - Click **OK**.
- 2 On the laptop that is connected to the appliance, open a web browser to the following URL:
http://192.168.229.233
Make sure to confirm the security exception to proceed.
 - 3 Log on to the appliance with the default credentials as follows:
 - **User Name:** admin
 - **Password:** P@ssw0rd
 - 4 On the **Welcome to Appliance Setup** page, review the summary of information that you need to perform the initial configuration.
 - **Download Configuration Checklist**
If you have not previously filled out the checklist in the *Symantec NetBackup 5330 Initial Configuration Guide*, click this link to access an electronic version. Symantec recommends that you first print this file, then fill it out for use as you perform the configuration. After you have completed the

initial configuration, store the checklist in a secure location for future reference.

- **Setup Appliance**

After you have filled out the configuration checklist, click this item to start the configuration.

- 5 On the **Storage Overview** page, check and verify the status of the connected hardware components.

The diagrams use specific icons to indicate whether any component cable or disk drive problems exist. The following describes the general icons that may appear:

Note: Click the help (?) icon at the top right of the page to see a complete list of icon descriptions.



OK



Warning

Indicates a problem that can be fixed later and lets you proceed with the initial configuration. However, such problems can prevent access to the affected devices. Click the icon to see a description of the problem.



Error

Indicates a critical problem that requires immediate resolution before you can proceed with the initial configuration. Click the icon to see a description of the problem.



Information

Click the icon to learn more about the specific area.

If there are no problems identified, click **Next** to start the initial configuration. Otherwise, use the following guidelines to resolve any problems:

- Click on the warning or the error icon to see a description of the problem.

- Verify that all cables are connected correctly and secured.
- Verify that all disk drives are installed and seated properly.
- Verify that all units are turned on and have booted up completely.
- Verify that you have checked all of the items on the hardware check list.
- After you have verified the previous items or made any changes, click **Refresh**. Any warning or error icons that disappear indicate that the problem has been fixed.
Symantec recommends that you resolve all problems before you start the initial configuration.

Note: If you cannot resolve any error problems after verifying all of the previous items and refreshing, stop here and contact Symantec Technical Support.

6 The **Network Configuration** page contains the following taskbars to complete specific tasks with the associated data entry fields to configure network connectivity:

- **Create Bond** - Use to create a bond between two or more network interfaces.
- **Tag VLAN** - Use to configure VLANs in your existing network environments.
- **Add Static Route** - Use to add a route configuration to your network.

Expand each taskbar to enter the relevant network configuration information. These functions are independent of each other and do not require configuration in the order in which they appear.

Note: NetBackup appliances do not support configuring two IP addresses that belong to the same subnet. The appliance runs on the Linux operating system and this type of networking is a current limitation. Each bond that you create must use an IP address that belongs to a different subnet.

Note: You cannot remove an IP address if the appliance host name resolves to that IP address.

Enter the appropriate **Create Bond** information as follows:

Create Bond data entry fields

- **Network Interface**

Click on the drop-down box and select the ethernet NIC port to use for a network connection.

- **Bond Mode**

Click on the drop-down box and select the bond mode to use for the NIC ports that you want to bond.

Bonding lets you combine (aggregate) multiple network interfaces into a single logical "bonded" interface. The behavior of the bonded interfaces depends upon the mode. The default bond mode is **balance-alb**.

The available bonding modes from the drop-down list are as follows:

- **balance-rr**
- **active-backup**
- **balance-xor**
- **broadcast**
- **802.3ad**
- **balance-tlb**
- **balance-alb**

Some bond modes require additional configuration on the switch or the router. You should take additional care when you select a bond mode.

For more information about bond modes, see the following documentation:

<http://www.kernel.org/doc/Documentation/networking/bonding.txt>

After you have entered the appropriate data into all fields, you must click **+** to add and immediately plumb the selected network interface. To configure bonding, you must select multiple interfaces from the **Bond Mode** drop-down box. For IPv6 addresses, enter 64 as the **Subnet Mask**.

- **IP Address**

Enter the IP address for this appliance server.

- **Subnet Mask**

Enter the network address that identifies the IP address for this appliance server.

- After you have entered the appropriate data into all fields, click **+** to save and add the bond settings.

Enter the appropriate **Tag VLAN** information as follows:

Tag VLAN data entry fields

- **Select Interface**
Select the network interface or the device name to which you want to tag the VLAN.
- **Description**
Enter a description for the VLAN. For example, Finance or Human Resource.
- **VLAN Id**
Enter a numeric identifier from 1 to 4094 for the VLAN.
- **IP Address [IPv4 or IPv6]**
Enter the IPv4 or the IPv6 address to be used for this appliance.
- **Subnet Mask**
Enter the subnet mask value that corresponds to the IP address.
- Click **Add** to add the configuration information for tagging VLAN into to your existing network environment.
To enter information for tagging additional VLANs, click the + sign to add a row. To remove any of the rows, click the - sign that is adjacent to the **Subnet Mask** field.

Enter the appropriate **Add Static Route** information as follows:

Routing Configuration data entry fields

- **Destination IP**
Enter the network IP address of a destination network. The address can be either IPv4 or IPv6. Only global-scope and unique-local IPv6 addresses are allowed.
See [“About IPv4-IPv6-based network support”](#) on page 10.
- **Destination Subnet Mask**
Enter the subnet value that corresponds to the **Destination IP** address.
For the initial configuration, this field contains a default value that cannot be changed. When you configure another route, you must enter the appropriate value.
- **Gateway**
Enter the address of the network point that acts as an entrance to another network. The address can be either IPv4 or IPv6. Only global-scope and unique-local IPv6 addresses are allowed.
See [“About IPv4-IPv6-based network support”](#) on page 10.
- **Network Interface**
Click on the drop-down box and select the ethernet NIC port to use for a network connection.
- After you have entered the appropriate data into all fields, click + to save and add the routing configuration settings.

- 7 On the **Host Configuration** page, enter the appliance host name and the related host resolution information as follows:

Host Name

For DNS systems: Enter the following **Domain Name System** information:

- **Domain Name Suffix**

Enter the suffix name of the DNS server.

- **DNS IP Address(es)**

Enter the IP address of a DNS server, then click the **+** icon to add the address. Repeat as necessary for the number of addresses that you want to add.

The address can be either IPv4 or IPv6. For IPv6 addresses, only global-scope or unique-local addresses are allowed.

See [“About IPv4-IPv6-based network support”](#) on page 10.

To remove an address, select it from the list that appears below the data entry field and click the **x** icon.

- **Search Domain(s)**

Enter a search domain name, then click the **+** icon to add the name. Repeat as necessary for the number of search domains that you want to add.

To remove a search domain, select it from the list that appears below the data entry field and click the **x** icon.

After you have entered all of the necessary information, click **Next**.

For the systems that do not use DNS:

Enter the following **Host name resolution** information:

- **To edit the hosts file manually, click here**

If you prefer, you can add the IP address, the fully qualified host name, and the short host name directly into the `/etc/hosts` file. Click **here** to open and edit the `/etc/hosts` file file.

To enter two or more short host names, add a comma with no space between each name.

If you do not want to edit the `/etc/hosts` file, enter the host information in the following data entry fields:

- **IP**

Enter the IP address of the appliance.

The address can be either IPv4 or IPv6. For IPv6 addresses, only global-scope or unique-local addresses are allowed.

See [“About IPv4-IPv6-based network support”](#) on page 10.

- **Fully qualified host name**

Enter the fully qualified host name (FQHN) of the appliance.

- **Short host name**

Enter the short name of the appliance.

To enter two or more names, add a comma with no space between each name.

After you have populated all fields, click the **+** icon. The added entries now appear below the fields.

After you have entered all of the necessary information, click **Next**.

- 8 On the **Password change** page, enter a new password to replace the default password as follows:

Note: To continue with the initial configuration, you are not required to change the default password. However, to increase the security of your environment Symantec recommends that you change the password periodically. Make sure to keep a record of the current password in a secure location.

Old admin password

Enter the factory default password (`P@ssw0rd`)

- New admin password** Enter the new password.
- Valid passwords must include the following:
- Eight or more characters
 - At least one lowercase letter
 - At least one number (0-9)
- Uppercase letters and special characters can be included, but they are not required.
- The following describes password restrictions:
- Dictionary words are considered weak passwords and are not accepted.
 - The last seven passwords cannot be reused, and the new password cannot be similar to previous passwords.
- Confirm new password** Re-enter the new password for confirmation.

After you have entered all of the necessary information, click **Next**.

- 9 On the **Date & Time** page, enter the appropriate date and time for this appliance. The date and time for this media server must match the date and time of the associated master server.

You can enter the information manually or use a Network Time Protocol (NTP) server to synchronize the appliance date and time over the network.

- Time zone** To assign a time zone to the appliance, click on the **Time zone** drop-down box and select the appropriate region, country, and time zone.
- Specify date & time** To enter the date and the time manually, select this option and enter the following information:
- In the first field, enter the date by using the **mm/dd/yyyy** format. Or, click on the calendar icon and select the appropriate month, day, and year.
 - In the second field, enter the time by using the **hh:mm:ss** format. Entries must be in the 24 hour format (00:00:00 - 23:59:59).
- NTP** To synchronize the appliance with an NTP server, select this option and enter the appropriate NTP **Server IP** address.

After you have entered all of the necessary information, click **Next**.

- 10 On the **Alerting and Call Home** page, enter the information for the appliance to send alerts or to upload status reports by email to a Symantec Call Home server.

For alerts, enter the appropriate **Alerting Configuration** information as follows:

Alerting Configuration data entry fields

- **Notification interval (in minutes)**

Enter the interval for the appliance to upload alerts to the Symantec Call Home server. Entries must be in increments of 15 minutes.

- **Enable SNMP Alert**

Click this check box and enter the following SNMP information:

- **SNMP server**

Enter either the SNMP server host name or its IP address to define this computer. The IP address can be either IPv4 or IPv6. For IPv6, only global-scope and unique-local addresses are allowed.

- **SNMP port**

Enter the port number of the SNMP server to allow communication with this appliance.

- **SNMP community**

Enter the community name where the alerts or traps are sent.

For example, you can enter the same information that you used for the **SNMP server**. You can also enter a company name or another name like, `admin_group`, `public`, or `private`. If you do not enter anything, the default value is **Public**.

- **View SNMP MIB file**

To set up the appliance SNMP Manager to receive hardware monitoring related traps, click this link to view the content of the MIB file. Then, copy the file to another location and use the content to update the SNMP Manager.

The appliance can only accept traps in the SNMPv2c format.

- **SMTP server**

Enter either the SMTP server host name or its IP address to define this computer.

- **Software administrator email address**

Enter the email address of your software administrator so that they can receive and notifications.

- **Hardware administrator email address**

Enter the email address of your hardware administrator so that they can receive and notifications.

- **Sender email address**

Enter the email address of the appliance so that recipients can identify the source of the report.

- **SMTP account**

Enter an account name for the SMTP server.

- **Password**

To increase security, enter a password for the SMTP server.

You can configure this server to send email reports to a proxy server or to the Symantec Call Home server.

The following describes the supported proxy servers:

- Squid
- Apache
- TMG

Note: NTLM authentication in the proxy configuration is also supported.

For Call Home, enter the appropriate **Call Home Configuration** information as follows:

Call Home Configuration data entry fields

- **Enable Call Home**

Click this check box to enable the appliance to send email reports to the Symantec Call Home server.

- **Enable proxy server**

Click this check box to use a proxy server for email notification and provide the proxy information that follows.

- **Enable proxy Tunneling**

To enable proxy tunneling, click this check box and provide the following proxy information:

- **Proxy server**

Enter the IP address of the server.

The IP address can be either IPv4 or IPv6. For IPv6, only global-scope and unique-local addresses are allowed.

- **Proxy port**

Enter the port number of the proxy server to allow communication with this appliance.

- **Proxy username**

Enter the user name for the proxy server.

- **Proxy password**

Enter the password of the proxy server.

- **Test Call Home**

After you have entered all of the necessary information, Symantec recommends that you click **Test Call Home** to verify communication with the Symantec server.

If the test fails, check that you have entered all names, IP addresses, and port numbers correctly. If the test fails again, contact Symantec Technical Support.

After you have entered all of the necessary information, click **Next**.

- 11 On the **Registration** page, enter the following information to register this appliance with Symantec over the Internet:

Note: Registration of your NetBackup appliance helps to make sure that you are alerted to product updates and other important information about your appliance.

Appliance name	Enter the network name of the server.
Company Name	Enter your company name.
Street	Enter the street name (physical location) where this server resides.
City	Enter the city where this server resides.
State/Province	Enter the state or the province where this server resides.
Zip or Postal Code	Enter the zip or postal code where this server resides.
Country	Enter the country where this server resides.
Contact Name	Enter the name of the primary contact, such as a network or a backup administrator for your backup environment.
Contact Number	Enter the primary phone number for the contact name. This number should be the one that is most likely to reach the contact person.
Contact Email	Enter the business email address for the Contact Name that you identified earlier.

After you have entered all of the necessary information, click **Next**.

- 12 On the **Specify Master Server** page, enter the name of the master server that you plan to use with this media server as follows:
- For master servers with only one name and IP address:
Enter the host name or the IP address of the master server and click **Add**.
 - For clustered master servers or master servers with multiple names and IP addresses:
Enter the first host name or IP address in the field and click **Add**. If the master server is clustered, the first entry must be the virtual host name of the cluster.
Enter each additional host name or IP address in the same manner (one at a time), and click **Add** after each entry.

- After you have entered all of the necessary information, click **Next**.

Note: After you click **Next**, the role configuration process starts the storage initialization. Depending on the number of disk drives in the system, the storage initialization can take up to 46 hours to complete. As a result, appliance backup and restore performance is degraded until the storage initialization process has completed.

- 13** On the **Storage Configuration** page, create names for the storage units and the disk pools that you plan to use, and configure the size of the disk partitions.

You can configure storage partitions for AdvancedDisk, for Deduplication (MSDP), or for both.

Note: If you choose to configure MSDP storage, a policy is automatically created to protect the MSDP catalog. Symantec recommends reviewing this policy and activating it once your appliance is configured.

AdvancedDisk

Enter the following information:

- **Storage Unit Name**

Enter the name that you want to use to identify this storage unit. The name can contain any letters, numbers, or special characters. The name can include up to 256 characters.

Note: The name should not start with the minus (-) character and spaces should not be used anywhere in the name.

- **Disk Pool Name**

Enter the name that you want to use to identify this disk pool. The name can contain any letters, numbers, or special characters. The name can include up to 256 characters.

Note: The name should not start with the minus (-) character and spaces should not be used anywhere in the name.

- **Size**

Set the size for this partition by entering a precise number in the **Size** field, or click and drag the box on the gray slide bar to the desired size. The size can be set in GB or TB units, depending on the maximum available space.

Deduplication Disk (MSDP) Enter the following information:

- **Storage Unit Name**

Enter the name that you want to use to identify this storage unit. The name can contain any letters, numbers, or special characters. The name can include up to 256 characters.

Note: The name should not start with the minus (-) character and spaces should not be used anywhere in the name.

- **Disk Pool Name**

Enter the name that you want to use to identify this disk pool. The name can contain any letters, numbers, or special characters. The name can include up to 256 characters.

Note: The name should not start with the minus (-) character and spaces should not be used anywhere in the name.

- **Size**

Set the size for this partition by entering a precise number in the **Size** field, or click and drag the box on the gray slide bar to the desired size. The size can be set in GB or TB units, depending on the maximum available space.

After you have entered all of the necessary information, click **Next**.

- 14 On the **Configuration Progress** page, you can monitor the progress of the appliance as it applies all of the data input from the configuration pages.

The amount of time for the configuration to complete varies and depends on the complexity of your environment.

- 15 On the **Summary of Configuration** page, review the results of the configuration. Examine the results to make sure that the configuration completed successfully.

This page also identifies any errors that may have occurred. You may need to perform the initial configuration again if errors appear in the results.

16 After the configuration has completed successfully, wait about 10 minutes for the NetBackup services to start. You must then use the fully qualified host name to reconnect and log into the appliance.

17 After all appliances are configured and operational, you are ready to install client software on the computers that you want to back up.

See [“Downloading NetBackup client packages to a client from a NetBackup appliance”](#) on page 56.

See [“Installing NetBackup client software through CIFS and NFS shares”](#) on page 59.

Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Shell Menu

This topic describes how to configure a NetBackup 5330 appliance that is new or has been reset to the factory defaults (factory reset).

This method requires that you connect a laptop directly to appliance port **NIC1** (eth0). A NetBackup 5330 appliance can only be configured as a media server.

Before you perform the initial configuration on this media server, verify that you have already performed the following tasks:

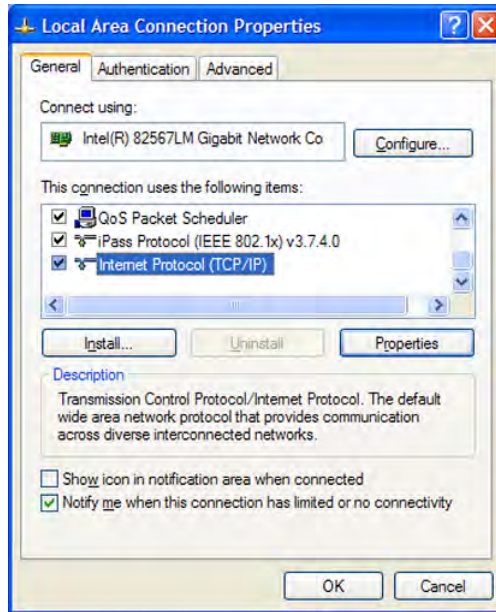
- Verified that the master server and this media server have compatible software versions.
- Added the name of this media server to the master server that you plan to use with it.
- Opened the appropriate ports on the master server if a firewall exists between the master server and this media server.
See [“Configuring a master server to communicate with an appliance media server”](#) on page 27.
- Completed the initial configuration checklist.

To perform the initial configuration on a NetBackup 5330 media server appliance from the NetBackup Appliance Shell Menu

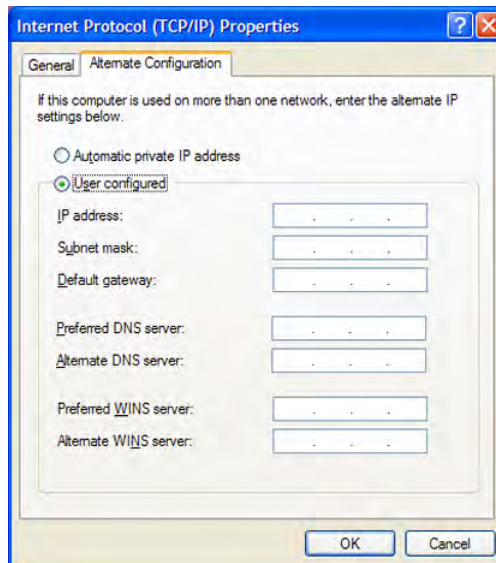
1 Connect a laptop to appliance port **NIC1**. Next, navigate to the **Local Area Connection Properties** dialog box.

On the **General** tab, select **Internet Protocol (TCP/IP)** so that it is highlighted, then click **Properties**.

Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Shell Menu



On the **Alternate Configuration** tab, perform the following tasks:



- Click **User Configured**.

- For the **IP address**, enter `192.168.229.nnn`, where `nnn` is any number from 2 through 254 except for 233.
 - For the **Subnet mask**, enter `255.255.255.0`.
 - Click **OK**.
- 2 On the laptop that is connected to the appliance, open an SSH session to `192.168.229.233`.
 - 3 Log on to the appliance with the default credentials as follows:
 - **User Name:** `admin`
 - **Password:** `P@ssw0rd`

A welcome message appears in the shell menu and the prompt is at the **Main_Menu** view.

Note: To continue with the initial configuration, you are not required to change the default password. However, to increase the security of your environment Symantec recommends that you change the password periodically. Make sure to keep a record of the current password in a secure location. To change the password when logged into the NetBackup Appliance Shell Menu, from the **Main_Menu** view, enter `Settings > Password`.

- 4 Before you begin the initial configuration, check and verify the status of the connected hardware components by entering the following command:

```
Support > Test Hardware
```

A **Warning** indicates a problem that can be fixed later and lets you proceed with the initial configuration. However, such problems can prevent access to the affected devices.

An **Error** indicates a critical problem that requires immediate resolution before you can proceed with the initial configuration.

If the command output identifies any problems, check the following items:

- Verify that all cables are connected correctly and secured.
- Verify that all disk drives are installed and seated properly.
- Verify that all units are turned on and have booted up completely.
- Verify that you have checked all of the items on the hardware check list.
- After you have verified the previous items, re-run the command. Any warning or error icons that disappear indicate that the problem has been fixed.

Symantec recommends that you resolve all problems before you start the initial configuration.

Note: If you cannot resolve any **Error** problems after verifying all of the previous items and re-running the command, stop here and contact Symantec Technical Support.

- 5 From the **Main_Menu > Network** view, enter the following command to configure the IP address of a single network that you want your appliance to connect to.

```
Configure IPAddress Netmask GatewayIPAddress [InterfaceNames]
```

Where *IPAddress* is the new IP address, *Netmask* is the netmask, and *Gateway/IPAddress* is the default gateway for the interface. The [*InterfaceNames*] option is optional.

The *IP Address* or the *Gateway IP Address* can be an IPv4 or IPv6 address. Only global-scope and unique-local IPv6 addresses are allowed.

Remember that you should not use both IPv4 and IPv6 address in the same command. For example, you cannot use `Configure 9ffe::9 255.255.255.0 1.1.1.1..` You should use `Configure 9ffe::46 64 9ffe::49 eth1`

See “[About IPv4-IPv6-based network support](#)” on page 10.

If you want to configure multiple networks you must first configure the IP address of each network that you want to add. Then you configure the Gateway address for each network you added. You must make sure that you add the default Gateway address first. Use the following two commands:

Configure the IP address of each network Use either of the following commands depending on whether you want to configure an IPv4 or an IPv6 address for the network interface:

To configure the IPv4 address of a network interface:

```
IPv4 IPAddress Netmask [InterfaceName]
```

Where *IPAddress* is the new IP address, *Netmask* is the netmask, and [*InterfaceName*] is optional.

Repeat this command for each IP address that you want to add.

To configure the IPv6 address of a network interface:

```
IPv6 <IP Address> <Prefix> [InterfaceNames]
```

Where *IPAddress* is the IPv6 address, *Prefix* is the prefix length, and [*InterfaceName*] is optional.

Configure the gateway address for each network that you added

```
Gateway Add GatewayIPAddress
[TargetNetworkIPAddress] [Netmask]
[InterfaceName]
```

Where *GatewayIPAddress* is the gateway for the interface and *TargetNetworkIPAddress*, *Netmask*, and *InterfaceName* are optional. Repeat this command to add the gateway to all of the destination networks.

The *Gateway IP Address* or the *TargetNetworkIPAddress* can be an IPv4 or an IPv6 address.

Remember that you should not use both IPv4 and IPv6 address in the same command. For example, you cannot use `Gateway Add 9ffe::3 255.255.255.0 eth1`. You should use `Gateway Add 9ffe::3 64 eth1`.

- 6 From the **Main_Menu > Network** view, use the following command to set the appliance DNS domain name.

Note: If you do not use DNS, you can proceed to Step 9.

```
DNS Domain Name
```

Where *Name* is the new domain name for the appliance.

- 7 From the **Main_Menu > Network** view, use the following command to add the DNS name server to your appliance configuration.

```
DNS Add NameServer IPAddress
```

Where *IPAddress* is the IP address of the DNS server.

The address can be either IPv4 or IPv6. Only global-scope and unique-local IPv6 addresses are allowed.

See [“About IPv4-IPv6-based network support”](#) on page 10.

To add multiple IP addresses, use a comma to separate each address and no space.

- 8 From the **Main_Menu > Network** view, use the following command to add a DNS search domain to your appliance configuration so the appliance can resolve the host names that are in different domains:

```
DNS Add SearchDomain SearchDomain
```

Where *SearchDomain* is the target domain to add for searching.

- 9 This step is optional. It lets you add the IP addresses of other hosts in the appliance hosts file.

From the **Main_Menu > Network** view, use the following command to add host entries to the hosts file on your appliance.

```
Hosts Add IPAddress FQHN ShortName
```

Where *IPAddress* is the IPv4 or IPv6 address, *FQHN* is the fully qualified host name, and *ShortName* is the short host name.

See [“About IPv4-IPv6-based network support”](#) on page 10.

- 10 From the **Main_Menu > Network** view, use the following command to set the host name for your appliance.

```
Hostname Set Name
```

With this step, NetBackup is re-configured to operate with the new host name. This process may take a while to complete.

For the command `Hostname set` to work, at least one IPv4 address is required. For example, you may want to set the host name of a specific host to v46. To do that, first ensure that the specific host has at least an IPv4 address and then run the following command.

```
Main_Menu > Network > Hostname set v46
```

- 11 In addition to the above network configuration settings, you may also use the **Main_Menu > Network** view to create a bond and to tag a VLAN during the initial configuration of your appliance.

- To create a bond between two or more network interfaces, use the following command:

```
Network > LinkAggregation Create
```

- To tag a VLAN to a physical interface or bond interface, enter the following command:

```
Network > VLAN Tag
```

For detailed information about the `LinkAggregation` and the `VLAN` command options, refer to the *NetBackup Appliance Command Reference Guide*.

- 12 From the **Main_Menu > Network** view, use the following commands to set the time zone, the date, and the time for this appliance:

- Set the time zone by entering the following command:

```
TimeZone Set
```

Select the appropriate time zone from the displayed list.

- Set the date and the time by entering the following command:

Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Shell Menu

Date Set *Month Day HHMMSS Year*

Where *Month* is the name of the month.

Where *Day* is the day of the month from 0 to 31.

Where *HHMMSS* is the hour, minute, and seconds in a 24-hour format.

The fields are separated by semi-colons (HH:MM:SS).

Where *Year* is the calendar year from 1970 through 2037.

- 13** From the **Main_Menu > Settings** view, use the following commands to enter the SMTP server name and the email addresses for appliance failure alerts.

Enter the SMTP server name `Email SMTP Add smtp [acct] [pass]`

Where *smtp* is the host name of the target SMTP server, *acct* is the account name for authentication to the SMTP server, and *pass* is the password for authentication to the SMTP server.

Enter email addresses `Email Software Add eaddr`

Where *eaddr* is the Email address where you want to receive failure alerts from the appliance.

To enter multiple addresses, separate each address with a semi-colon.

14 Identify the master server that you want to use with this media server.

Note: Before you continue, make sure that you have added this media server name to the master server. See [“Configuring a master server to communicate with an appliance media server”](#) on page 27.

From the **Main_Menu > Appliance** view, run the following command:

```
Media MasterServer
```

Where *MasterServer* is either a standalone master server, a multihomed master server, or a clustered master server. The following defines each of these scenarios:

Standalone master server This scenario shows one master server host name. This name does not need to be a fully qualified name as long as your appliance recognizes the master server on your network. The following is an example of how the command would appear.

```
Media MasterServerName
```

Multihomed master server In this scenario, the master server has more than one host name that is associated with it. You must use a comma as a delimiter between the host names. The following is an example of how the command would appear.

```
Media MasterNet1Name,MasterNet2Name
```

Clustered master server In this scenario, the master server is in a cluster. Symantec recommends that you list the cluster name first, followed by the active node, and then the passive nodes in the cluster. This list requires you to separate the node names with a comma. The following is an example of how the command would appear.

```
Media
MasterClusterName,ActiveNodeName,PassiveNodeName
```

Multihomed clustered master server In this scenario, the master server is in a cluster and has more than one host name that is associated with it. Symantec recommends that you list the cluster name first, followed by the active node, and then the passive nodes in the cluster. This list requires you to separate the node names with a comma. The following is an example of how the command would appear.

```
Media MasterClusterName,ActiveNodeName,
PassiveNodeName,MasterNet1Name,MasterNet2Name
```

To prevent any future issues, when you perform the appliance role configuration, Symantec recommends that you provide all of the associated master server names.

Note: After you have entered the master server names, the storage initialization process begins. Depending on the number of disk drives in the system, storage initialization can take up to 46 hours to complete. As a result, appliance backup and restore performance is degraded until the storage initialization process has completed.

- 15 When the storage initialization process begins, the disk storage prompts appear for the AdvancedDisk and the Deduplication (MSDP) partitions.

To configure storage partitions, you must do the following:

- Enter a storage pool size in GB or TB.
To skip the storage pool size configuration for any partition, enter **0** when prompted to enter a size. To keep the storage pool at its current size, press **Enter**.
- Enter a disk pool name.
The default names are *dp_adv_<hostname>* for AdvancedDisk and *dp_disk_<hostname>* for Deduplication (MSDP). To keep the default names, press **Enter**.
- Enter a storage pool name.
The default names are *stu_adv_<hostname>* for AdvancedDisk and *stu_disk_<hostname>* for Deduplication (MSDP). To keep the default names, press **Enter**.

The storage prompts appear in the following order:

```
AdvancedDisk storage pool size in GB/TB [default size]:
AdvancedDisk diskpool name:
```

Performing the initial configuration on a NetBackup 5330 appliance from the NetBackup Appliance Shell Menu

```
AdvancedDisk storage unit name:  
MSDP storage pool size in GB/TB [default size]:  
MSDP diskpool name:  
MSDP storage unit name:
```

After you configure the storage partitions, a summary of the storage configuration appears with the following prompt:

```
Do you want to edit the storage configuration? [yes, no]
```

Type **yes** to make any changes, or type **no** to keep the current configuration.

- 16** After all appliances are configured and operational, you are ready to install client software on the computers that you want to back up.

See [“Downloading NetBackup client packages to a client from a NetBackup appliance”](#) on page 56.

See [“Installing NetBackup client software through CIFS and NFS shares”](#) on page 59.

Post configuration procedures

This chapter includes the following topics:

- [About NIC1 \(eth0\) port usage on NetBackup appliances](#)
- [Downloading NetBackup client packages to a client from a NetBackup appliance](#)
- [Downloading the NetBackup Administration Console to a Windows computer from a NetBackup appliance](#)
- [Installing NetBackup client software through CIFS and NFS shares](#)

About NIC1 (eth0) port usage on NetBackup appliances

By default, NIC1 (eth0) is factory set to IP address 192.168.229.233. This private network address is reserved to provide a direct connection from a laptop to perform the initial configuration. NIC1 (eth0) is typically not connected to your network environment.

Once the initial configuration has been completed, you can connect NIC1 (eth0) to an administrative network that does not provide any backup data transfer. However, you may need to change the default IP address if your primary network uses the same IP address range. NetBackup appliances do not support the use of any network configuration in the same range as the default IP address for the administrator interface on NIC1 (eth0).

For example, if NIC2 (eth1) is set to the 192.168.x.x IP address range, you must change the default IP address of NIC1 (eth0) to a different IP address range.

To change the IP address for NIC1 (eth0) after the initial configuration has been completed, do one of the following:

- From the NetBackup Appliance Web Console
After logging into the appliance, click **Settings > Network > Network Settings**. In the **Network Configuration** section, edit the IPv4 address setting for NIC1 (eth0).
For more information, see the *NetBackup Appliance Administrator's Guide*.
- From the NetBackup Appliance Shell Menu
After logging into the appliance, use the `Network > IPv4` command to change the IP address for NIC1 (eth0).
For more information, see the *NetBackup Appliance Command Reference Guide*.

Downloading NetBackup client packages to a client from a NetBackup appliance

You can download NetBackup client software from a NetBackup appliance to any client that you want to back up. The NetBackup Appliance Web Console logon page provides a **Download Packages** section to download the client packages.

The packages are listed by operating system type in a drop-down box as follows:

- All
- Windows
- Linux
- Solaris
- AIX
- HP
- BSD
- Mac OS
- VMware vCenter Plug-in

Note: If you download Linux, UNIX, Solaris, AIX, or BSD packages, Symantec recommends GNU tar version 1.16 or higher to extract the .tar packages.

For more information, see the following Technote on the Symantec Support website:

<http://www.symantec.com/docs/TECH154080>

In addition to the downloading instructions, this procedure also includes the steps to extract and install the downloaded files on to the client.

To download NetBackup client packages from a NetBackup appliance to a client

- 1 Log in to the client that you want to back up.
- 2 Open a browser window and enter the appliance URL.
- 3 In the middle of the landing page, in the section **Download Packages**, click on the drop-down box to see the list of packages.
- 4 Right-click the selected package and specify the location to download it onto the client.

Example locations are as follows:

- On Windows platforms, download the package to `C:\temp` or to the desktop. To determine the type of hardware on your Windows system, right-click **My Computer** and select **Properties**.
- On Linux or UNIX platforms, download the package to `/tmp`.

Note: If the message **No packages found** appears after you make a selection, that client package is not currently installed on the appliance. This situation is most likely to occur if the appliance has been re-imaged from the USB flash drive. To download and install client packages on to the appliance, see the *Symantec NetBackup Appliance Administrator's Guide*. In the chapter "Managing a NetBackup Appliance from the NetBackup Appliance Web Console", refer to the topic "Uploading NetBackup appliance software release updates or client packages using a manual download method".

- 5 Unzip or untar the package.
- 6 Install the client software as follows:
 - Windows systems
Click the **setup.exe** file.
 - UNIX systems
Run the `.install` script.
- 7 After you have successfully installed the client software, add the appliance master server name to the client as follows:

Windows systems

- After NetBackup has been installed on the client, open the Backup, Archive, and Restore interface.
 - Start > All Programs > Symantec NetBackup > Backup, Archive, and Restore**
- From the Backup, Archive, and Restore interface, select **File > Specify NetBackup Machines and Policy Type...**
- From the **Specify NetBackup Machines and Policy Type** dialog, enter the server name in the field **Server to use for backups and restores**. Then click **Edit Server List** and click **OK**.
- In the dialog box that appears, enter the fully qualified host name of the appliance master server and click **OK**.
- Close the Backup, Archive, and Restore interface.
- Restart the NetBackup Client Services by opening a Windows Command prompt. Then, enter `services.msc` and press **Enter**.

UNIX systems

- On the client, navigate to the following location:
 - `cd /usr/opensv/netbackup`
- Enter `ls` to see the contents of the directory.
- Open the `bp.conf` file in a text editor.
- Enter the fully qualified host name of the appliance master server.
- Save the changes and close the file.

See [“Installing NetBackup client software through CIFS and NFS shares”](#) on page 59.

See [“Downloading the NetBackup Administration Console to a Windows computer from a NetBackup appliance”](#) on page 58.

Downloading the NetBackup Administration Console to a Windows computer from a NetBackup appliance

You can download the NetBackup Administration Console software from a NetBackup appliance to a Windows computer that you want to use to access the appliance. The Windows computer does not require NetBackup installation to use the administration console. The logon page of the NetBackup Appliance Web Console provides a **Download Packages** section to download the NetBackup Administration Console package.

In addition to the downloading instructions, this procedure also includes the steps to extract and install the downloaded files on to the client.

To download the NetBackup Administration Console package from a NetBackup appliance to a Windows computer

- 1 Log into the Windows computer that you want to use for appliance access.
- 2 Open a browser window and enter the appliance URL.
- 3 In the middle of the landing page, in the section **Download Packages**, click on the drop-down box and select **Windows**.
- 4 When the package file name appears under the drop-down box, right-click on it and select either **Download Linked File** or **Download Linked File As**, then specify the location to download the package onto the Windows computer.

For example, download the package to `C:\temp` or to the desktop.

- 5 Unzip the package.
- 6 Install the administration console software as follows:
 - On the client, navigate to the `Addons/JavaInstallFiles` directory.
 - Click on the **setup.exe** file.

See [“Downloading NetBackup client packages to a client from a NetBackup appliance”](#) on page 56.

See [“Installing NetBackup client software through CIFS and NFS shares”](#) on page 59.

Installing NetBackup client software through CIFS and NFS shares

After all appliance configuration has been completed, you can use the following procedures to install Windows and UNIX client software on the clients that are used with your NetBackup appliances. These procedures explain how to obtain the software packages through a CIFS or an NFS share.

Note: If you have existing NetBackup clients that you want to use with the appliance master server, they must be version 6.0 or later. For these clients, you only need to add the appliance master server name to the client.

NetBackup Windows client software installation through a CIFS share

To install NetBackup client software on a Windows client through a CIFS share

- 1 On the appliance where the client software resides, log in to the NetBackup Appliance Shell Menu with your administrator credentials.
- 2 Open the CIFS share using the following command:

```
Main > Settings > Share ClientInstall Open
```
- 3 On the Windows client computer where you want to install the NetBackup client software, log on as the administrator.
- 4 Open a map or a directory to the following CIFS shared folder on the appliance:

```
\\<appliance_name>\install
```
- 5 Click on the Windows executable, **quickinstall.exe**.
 This action installs the NetBackup client software and adds the appliance master server name on the client.
- 6 On the appliance, close the shared directory using the following command:

```
Main > Settings > Share ClientInstall Close
```

NetBackup UNIX client software installation through an NFS share

To install NetBackup client software on a UNIX client through an NFS share

- 1 On the appliance where the client software resides, log in to the NetBackup Appliance Shell Menu with your administrator credentials.
- 2 Open the NFS share using the following command:

```
Main > Settings > Share ClientInstall Open
```
- 3 On the UNIX client computer where you want to install the NetBackup client software, log on as root.
- 4 Mount the following NFS share:

```
<appliance_name>:/inst/client
```
- 5 Browse the files within the NFS share directory. Files that are similar to the following appear:

.packages	clientconfig	quickinstall.exe
PC_Clnt	docs	unix-client-install

6 Run the `unix-client-install` script.

This action installs the NetBackup client software.

7 Add the appliance master server name to the `bp.conf` file on the client as follows:

- On the client, navigate to the following location:

```
cd /usr/opensv/netbackup
```

- Enter `ls` to see the contents of the directory.
- Open the `bp.conf` file in a text editor.
- Enter the fully qualified host name of the appliance master server.
- Save your changes and close the file.

8 On the appliance, close the shared directory using the following command:

```
Main > Settings > Share ClientInstall Close
```

See [“Downloading NetBackup client packages to a client from a NetBackup appliance”](#) on page 56.

Index

A

- access appliance from NetBackup Appliance Shell Menu 46
- access appliance from NetBackup Appliance Web Console 31
- appliance media server
 - configure master server to communicate with 27

C

- clients used with appliances
 - install client software on 59
- configure master server
 - to communicate with appliance media server 27
- connectivity
 - during initial configuration 8

D

- default log-in credentials 9
- default password 9, 31, 46
- default user name 9, 31, 46
- disk storage option licenses 10
- download NetBackup client packages from NetBackup appliance 56

F

- firewall port usage 9

G

- guidelines
 - NetBackup 5330 initial configuration 8

I

- initial configuration
 - pages in the NetBackup Appliance Web Console 12
- initial configuration checklist
 - NetBackup appliance 22

- initial configuration from the NetBackup Appliance Shell Menu
 - NetBackup 5330 44
- initial configuration from the NetBackup Appliance Web Console
 - NetBackup 5330 29
- install client software
 - on clients used with appliances 59
- IPv4 and IPv6 support 10

M

- media server role 10

N

- NetBackup 5330
 - initial configuration from the NetBackup Appliance Shell Menu 44
 - initial configuration from the NetBackup Appliance Web Console 29
- NetBackup 5330 initial configuration
 - guidelines 8
- NetBackup Administration Console
 - download to Windows computer from NetBackup appliance 58
- NetBackup appliance
 - initial configuration checklist 22
- NetBackup Appliance Shell Menu
 - add DNS name server to appliance 49
 - add DNS search domain 49
 - add host entries to appliance host file 50
 - configure alerts 51
 - configure gateway IP address 49
 - configure IPv4 or IPv6 IP address 48
 - create bond 50
 - enter disk pool name 53
 - enter email for alerts 51
 - enter SMTP server name 51
 - enter storage pool name 53
 - identify master server 52
 - network configuration 48
 - set appliance host name 50

- NetBackup Appliance Shell Menu *(continued)*
 - set date and time 50
 - set DNS domain name 49
 - set time zone 50
 - tag VLAN 50
 - test hardware - server and storage status 46
- NetBackup Appliance Web Console
 - appliance registration 41
 - change password 37
 - configuration progress 43
 - configure alerts - SNMP and SMTP server configuration 39
 - configure call home 40
 - host configuration - DNS or non-DNS 35
 - identify master server 41
 - network configuration - add static route 35
 - network configuration - create bond 33
 - network configuration - tag VLAN 34
 - set date and time 38
 - storage configuration - AdvancedDisk 42
 - storage configuration - deduplication (MSDP) 43
 - storage overview 32
 - summary of configuration 43
- NetBackup appliances
 - NIC1 (eth0) port usage 55
- NetBackup client packages
 - download from NetBackup appliance 56
- NetBackup version compatibility 10
- NIC1 (eth0) port usage
 - on NetBackup appliances 55

P

- pages in the NetBackup Appliance Web Console
 - for initial configuration 12
- password
 - default 9, 31, 46

R

- required names and addresses
 - for initial configuration 9

S

- storage overview page
 - icon descriptions 32

U

- user name
 - default 9, 31, 46