



HP P4000 SAN Solution Quick Start Guide



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Documentation Available

For detailed instructions about using the HP P4000 SAN Solution, see the following resources:

- **Online Help**
Click **Help > Help Topics** from the menu bar to open the Online Help. Context-sensitive help is available by clicking the question mark on any window.
- **HP P4000 SAN Solution User Guide**
Find complete instructions for configuring and managing storage systems and clustered storage volumes in the User Guide.
- **HP P4000 VSA Installation and Configuration Guide**
Find detailed instructions for planning and installing the VSA and getting started with the Centralized Management Console.
- **HP P4000 Remote Copy User Guide**
Find information about configuring and using asynchronous replication of storage volumes and snapshots across geographic distances.
- **HP P4000 Multi-Site HA/DR Solution Pack User Guide**
Find detailed instructions for designing and implementing the Multi-Site SAN features to synchronously and automatically mirror data between geographic sites.
- **Release Notes**
Review the Release Notes for the latest information about the product.

The latest versions of these documents, including localized versions can be found by browsing to <http://www.hp.com/support/manuals>. Click **Disk Storage Systems** in the storage section and then select **HP P4000 G2 SAN Solutions**.

Support Contacts

For worldwide technical support information, see the HP support website: <http://www.hp.com/support>.

Step 1 Setting up the storage system

- 1 Install the storage system into a rack, if necessary. We recommend using the provided rail kit for installing the storage system in a rack.

Safety information
 Due to the weight of the storage system, use two people to lift it into a rack.
- 2 Connect a keyboard and monitor (KVM) or connect to the iLO Integrated Management Console on the storage system. You will use this connection to assign a hostname and IP address to the storage system.
(Optional) Connect a PC or laptop to the storage system's serial port using a null modem cable. On the PC or laptop attached to the storage system, open a session with a terminal emulation program, using the following settings:
19200, 8-N-1
- 3 Make certain that all the drives are seated and latched.
- 4 Connect the power cord(s) to the storage system and plug into the power source(s).

Warning
Use only the power cord(s) supplied with the storage system. Other power cords may not fit correctly and may cause problems maintaining power to the storage system.
- 5 Power on the storage system.

or

Step 1 Setting up the virtual SAN appliance

Insert the HP StorageWorks P4000 VSA CD in the CD drive. The installer should launch automatically.

Installing the P4000 VSA for ESX:

- 1 Select Install VSA for ESX.
The Installer wizard guides you through configuring the virtual machine on the network, configuring virtual or physical hard drives, and powering on the VSA.
- 2 Before running the Installer wizard you must have ready the following information:
 - IP addresses for VSA.
 - Path to install the VSA.
 - Path and size for the physical and virtual disks for the VSA.
- 3 Repeat the wizard for each VSA you want to install.
You may also use the VI client to deploy the VSA OVF. See the VSA Installation and Configuration User Guide for detailed instructions about installing the VSA using OVF files.
- 4 After installation is complete, continue with Step 3, Setting up the SAN.

Installing the P4000 VSA for Hyper-V:

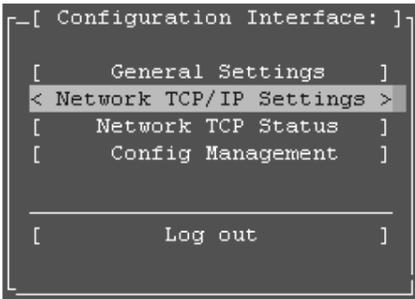
- 1 Select Install VSA for Hyper-V
The Installer wizard guides you through configuring the virtual machine on the network, configuring virtual or physical hard drives, and powering on the VSA..
- 2 After installation is complete, continue with Step 3, Setting up the SAN.

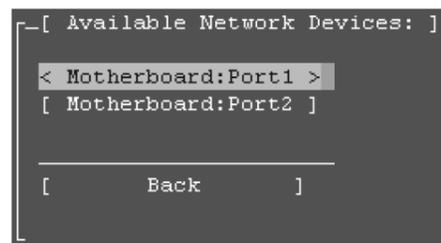
Step 2 Configuring the network interface

Prerequisites

Before configuring the network settings on individual storage systems, have the following information ready:

- Host names
- IP addresses, subnet mask and gateway

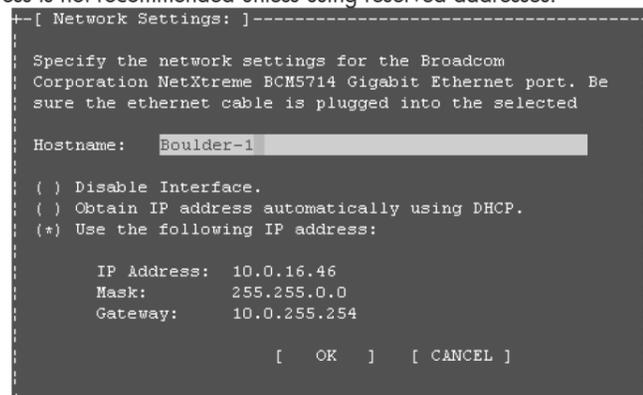
- 1 **Logging into the configuration interface**
Type **start**, and then press **Enter**. Press **Enter** again to log in. Use the tab key to move through the fields and menu options in the configuration interface.
- 2 **Configuration interface main menu**
Tab to network TCP/IP settings and press **Enter**.

- 3 **Selecting an interface to configure**
Tab to select the network interface that you want to configure (eth0, port1, or seth0) and press **Enter**.



- 4 **Change the host name and set IP address**
Use the backspace key to delete the default host name and assign your own. Set the IP address, subnet mask and gateway.

Best practice

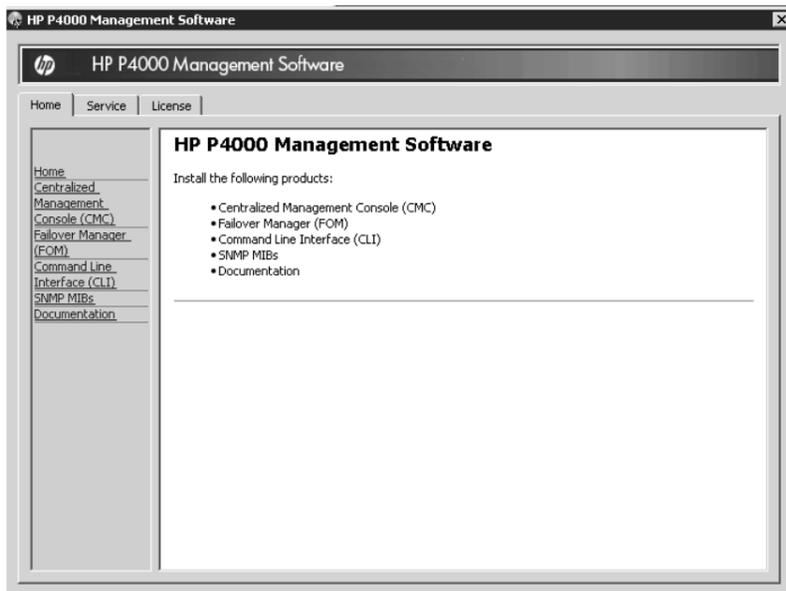
Manually assign IP addresses to the storage systems. Using DHCP to obtain an IP address is not recommended unless using reserved addresses.



- 5 **Verify IP address**
Ping the IP address of the storage system from another host on the network to verify that it is operating correctly.
- 6 Repeat for each storage system.

Using the HP P4000 Management Software DVD:

Insert the DVD in the DVD drive. The installer should launch automatically.



1 Installing the Centralized Management Console (CMC)

Install the CMC on the computer that you will use to administer the SAN. You need administrative privileges while installing the CMC.

Using the installation wizard (Windows):

1. Click **Centralized Management Console**.
2. Click **Install CMC**.
3. Continue through the installation wizard, following the instructions on each window.

Mount the HP P4000 Management Software DVD on the Server (Linux):

Navigate to the Linux CMC directory.

```
#cd /mnt/cdrom
```

```
#cd 8_1_management_software
```

```
#cd GUI
```

```
#cd Linux
```

```
#cd Disk1
```

```
#cd InstData/
```

```
#cd VM
```

```
#!/./CMC_Installer.bin
```

```
Preparing to install...
```

```
Extracting the JRE from the installer archive...
```

```
Unpacking the JRE...
```

```
Extracting the installation resources from the installer archive...
```

```
Configuring the installer for this system's environment...
```

```
Launching installer...(CMC installation starts)
```

2 Discover storage systems on the network

The Find Systems window opens the first time you open the CMC. Use Find Systems to discover the storage systems on the network, either by adding individual IP addresses or by selecting the Auto discover by broadcast checkbox.

3 Verify or configure RAID and configure network settings

Verify the RAID configuration on your storage systems before creating a management group. You can only reconfigure RAID on storage systems that are in the Available Systems pool. Change network settings, including bonding NICs, before creating a management group.

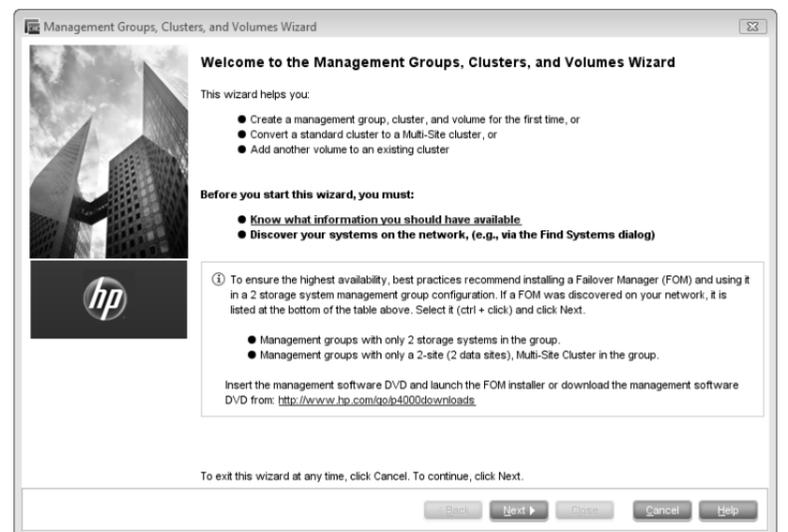
4 Verify software version is up to date

Use the "Check for Updates" to update your software to the latest version.

5 Setting up SAN storage

Use the Management Groups, Clusters and Volumes wizard to set up the storage configuration and create a storage volume.

- Using a 2-node or multi-site SAN configuration
You may need to install the failover manager that runs on VMware ESX Server or Hyper-V Server for automated failover configurations or multi-site SANs.



6 Download and install iSCSI initiator(s)

Install the appropriate iSCSI initiator on your application servers.

7 Enable access to volumes

Use the Assign Volume and Snapshot wizard to prepare the volume for server access. You set up application servers in the management group, and then assign volumes to the servers.



8 Log in to volumes via iSCSI initiator(s)

Configure the initiator(s) to ...

- Connect to the cluster VIP.
- Discover the targets.
- Log on.
- Format the disks with a file system.

9 Next Steps:

- Check the Alarms panel and resolve any alarms.
- Check the Best Practices Analyzer under the Configuration Summary.

10 (Optional) Install the Failover Manager

Install the Failover Manager onto a separate server on the network.

Caution: Install the Failover Manager on a system that has access to the SAN subnet. Do not install it on the SAN itself.

Using the installation wizard:

1. Click **Failover Manager**.
2. Click **Install FOM**.
3. Continue through the installation wizard, following the instructions on each window.
4. Click **Finish** to exit the wizard and start the Failover Manager.

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