# **■** NetApp

# **Install hardware**

Cluster and storage switches

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# Install hardware

# Install the hardware for the BES-53248 cluster switch

To install the BES-53248 hardware, refer to Broadcom's documentation.

## **Steps**

- 1. Review the configuration requirements.
- 2. Follow the instructions in the Broadcom-supported BES-53248 Cluster Switch Installation Guide.

### What's next?

Configure the switch.

# Configure the BES-53248 cluster switch

Follow these steps to perform an initial setup of the BES-53248 cluster switch.

# Before you begin

- Hardware is installed, as described in Install the hardware.
- · You have reviewed the following:
  - Configuration requirements
  - · Components and part numbers
  - Documentation requirements

#### About the examples

The examples in the configuration procedures use the following switch and node nomenclature:

- The NetApp switch names are cs1 and cs2. The upgrade starts on the second switch, cs2.
- The cluster LIF names are node1\_clus1 and node1\_clus2 for node1, and node2\_clus1 and node2\_clus2 for node2.
- The IPspace name is Cluster.
- The cluster1::> prompt indicates the name of the cluster.
- The cluster ports on each node are named e0a and e0b. See the NetApp Hardware Universe for the actual cluster ports supported on your platform.
- The Inter-Switch Links (ISLs) supported for the NetApp switches are ports 0/55 and 0/56.
- The node connections supported for the NetApp switches are ports 0/1 through 0/16 with default licensing.
- The examples use two nodes, but you can have up to 24 nodes in a cluster.

### **Steps**

- 1. Connect the serial port to a host or serial port.
- 2. Connect the management port (the RJ-45 wrench port on the left side of the switch) to the same network where your TFTP server is located.
- 3. At the console, set the host-side serial settings:

- 115200 baud
- 8 data bits
- 1 stop bit
- · parity: none
- · flow control: none
- 4. Log in to the switch as admin and press **Enter** when prompted for a password. The default switch name is **routing**. At the prompt, enter enable. This gives you access to Privileged EXEC mode for switch configuration.

```
User: admin
Password:
(Routing) > enable
Password:
(Routing) #
```

5. Change the switch name to cs2.

# Show example

```
(Routing) # hostname cs2 (cs2) #
```

6. To set a static IP address, use the serviceport protocol, network protocol, and serviceport ip commands as shown in the example.

The serviceport is set to use DHCP by default. The IP address, subnet mask, and default gateway address are assigned automatically.

# Show example

```
(cs2)# serviceport protocol none
(cs2)# network protocol none
(cs2)# serviceport ip ipaddr netmask gateway
```

7. Verify the results using the command:

```
show serviceport
```

```
(cs2)# show serviceportInterface StatusUpIP Address172.19.2.2Subnet Mask255.255.255.0Default Gateway172.19.2.254IPv6 Administrative ModeEnabledIPv6 Prefix isEnabledfe80::dac4:97ff:fe71:123c/64IPv6 Default Routerfe80::20b:45ff:fea9:5dc0Configured IPv4 ProtocolDHCPConfigured IPv6 ProtocolNoneIPv6 AutoConfig ModeDisabledBurned In MAC AddressD8:C4:97:71:12:3C
```

8. Configure the domain and name server:

configure

# Show example

```
(cs2) # configure
(cs2) (Config) # ip domain name company.com
(cs2) (Config) # ip name server 10.10.99.1 10.10.99.2
(cs2) (Config) # exit
(cs2) (Config) #
```

- 9. Configure the NTP server.
  - a. Configure the time zone and time synchronization (SNTP):

sntp

```
(cs2) #
(cs2) (Config) # sntp client mode unicast
(cs2) (Config) # sntp server 10.99.99.5
(cs2) (Config) # clock timezone -7
(cs2) (Config) # exit
(cs2) (Config) #
```

For EFOS version 3.10.0.3 and later, use the command ntp.

ntp

### Show example

```
(cs2) configure
(cs2) (Config) # ntp ?
authenticate
                        Enables NTP authentication.
authentication-key Configure NTP authentication key.
broadcast
                        Enables NTP broadcast mode.
                        Configure NTP broadcast delay in
broadcastdelay
microseconds.
                         Configure NTP server.
server
source-interface
                         Configure the NTP source-interface.
                         Configure NTP authentication key number
trusted-key
for trusted time source.
                         Configure the NTP VRF.
vrf
(cs2) (Config) # ntp server ?
ip-address|ipv6-address|hostname Enter a valid IPv4/IPv6 address
or hostname.
(cs2) (Config) # ntp server 10.99.99.5
```

# b. Configure the time manually:

clock

```
(cs2) # config
(cs2) (Config) # no sntp client mode
(cs2) (Config) # clock summer-time recurring 1 sun mar 02:00 1 sun
nov 02:00 offset 60 zone EST
(cs2) (Config) # clock timezone -5 zone EST
(cs2) (Config) # clock set 07:00:00
(cs2) (Config) # *clock set 10/20/2020
(cs2) (Config) # show clock
07:00:11 EST(UTC-5:00) Oct 20 2020
No time source
(cs2) (Config) # exit
(cs2) # write memory
This operation may take a few minutes.
Management interfaces will not be available during this time.
Are you sure you want to save? (y/n) y
Config file 'startup-config' created successfully.
Configuration Saved!
```

### What's next?

Install the EFOS software.

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