



CHAPTER 4

Cisco Nexus Virtual Services Appliance Software Reinstallation

This chapter describes how to reinstall the Cisco Nexus Virtual Services Appliance software, and includes the following sections:

- [Reinstalling Cisco Nexus Virtual Services Appliance](#)
- [Replacing a Cisco Nexus Virtual Services Appliance](#)
- [Feature History for Software Reinstallation](#)

Reinstalling Cisco Nexus Virtual Services Appliance

This section contains the following topics:

- [Information About Reinstalling the Software](#)
- [Guidelines and Limitations](#)
- [Reinstalling the Software](#)

Information About Reinstalling the Software

You can reinstall a different version of the software on Cisco Nexus Virtual Services Appliance product family in any one of the following cases:

- The Cisco Nexus Virtual Services Appliance disk gets corrupted.
- The latest version of Cisco Nexus Virtual Services Appliance has been shipped to you, but you want to install the previous version of the software.

In the event of disk corruption on the Cisco Nexus Virtual Services Appliance, the system can be brought up by copying the image from a CD.

Guidelines and Limitations

Use the following guidelines and limitations when reinstalling the software:



Caution

When you reinstall the software, all previous configuration is overwritten and lost.

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Reinstalling the Software

You can use this procedure to reinstall the software from your software CD in the event that the system disk becomes corrupted.

BEFORE YOU BEGIN

Before beginning this procedure you must know or do the following:

- You have verified that you have the following product ID (PID), using the [“Verifying the CIMC Software Version” procedure on page 2-4.](#)
 - N1K-C1010 on Cisco Nexus 1010
 - N1K-C1010-X on Cisco Nexus 1010-X



Caution

You cannot install or upgrade to Release 4.2(1)SP1(5.1) unless your Cisco Nexus 1010 has the product ID (PID) N1K-C1010 or your Cisco Nexus 1010-X has the product ID (PID) N1K-C1010-X.



Caution

Potential Loss of Data

When you reinstall the software, all previous configuration is overwritten and lost.

DETAILED STEPS

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- Step 1** From a terminal server, connect to the serial port of the Cisco Nexus Virtual Services Appliance.
- Step 2** Insert the installation CD in the DVD-RW drive.
- Step 3** On the Cisco Nexus Virtual Services Appliance, press the Power button.
- The Cisco Nexus Virtual Services Appliance reboots and the management software setup process begins. To configure the software, see the *Cisco Nexus Virtual Services Appliance Software Configuration Guide, Release 4.2(1)SP1(5.1)*.
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Replacing a Cisco Nexus Virtual Services Appliance

You can replace one Cisco Nexus Virtual Services Appliance in a redundant pair using the process shown in the flowchart in [Figure 4-1 on page 4-5.](#)



Note

For information about powering down, disconnecting, repacking, and shipping the Cisco Nexus Virtual Services Appliance, refer to the *Cisco Nexus Virtual Services Appliance Hardware Installation Guide*.

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BEFORE YOU BEGIN

Before setting up the software for a replacement Cisco Nexus Virtual Services Appliance, you must know or do the following:

Step 1 Collect the following information from the functioning Cisco Nexus Virtual Services Appliance.

- Software version
- HA role

The HA role of the functioning Cisco Nexus Virtual Services Appliance determines the role assigned to the replacement Cisco Nexus Virtual Services Appliance.

- If the functioning Cisco Nexus Virtual Services Appliance is in the primary HA role, the software for the replacement Cisco Nexus Virtual Services Appliance must be set up in the secondary HA role.
- If the functioning Cisco Nexus Virtual Services Appliance is in the secondary HA role, the software for the replacement Cisco Nexus Virtual Services Appliance must be set up in the primary HA role.

- Control VLAN
- Management VLAN
- Domain ID
- Network uplink type

When setting up the software for the replacement Cisco Nexus Virtual Services Appliance, you must use the same IDs used on the functioning Cisco Nexus Virtual Services Appliance.

Step 2 Prepare the replacement Cisco Nexus Virtual Services Appliance by doing the following:

- a. Perform a total firmware update. See [Prerequisites, page 2-2](#).
 - Verify the firmware ISO image.
- b. Install the same software version on the replacement Cisco Nexus Virtual Services Appliance as that on the existing Cisco Nexus Virtual Services Appliance.
 - The software versions running on the functioning Cisco Nexus Virtual Services Appliance and the replacement Cisco Nexus Virtual Services Appliance must match. The replacement Cisco Nexus Virtual Services Appliance has the latest software version installed on it when it is shipped.
 - If you need to downgrade the software version on the replacement Cisco Nexus Virtual Services Appliance, use the procedure in the [Information About Reinstalling the Software, page 4-1](#).
 - If you need to upgrade the software on one of the Cisco Nexus Virtual Services Appliances, use the procedure in the [Upgrading from Software Release 4.2\(1\)SP1\(3\) or Later, page 3-3](#).

Step 3 Connect the replacement Cisco Nexus Virtual Services Appliance to the upstream switch. See the *Cisco Nexus Virtual Services Appliance Hardware Installation Guide* for information about connecting to upstream switches.

Step 4 On the existing Virtual Supervisor Module (VSM), do the following:

- Get the following information:
 - VSM version
 - Domain ID
 - Management IP address

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- IP subnet mask
- Gateway IP address
- Check that the corresponding ISO image is present. If it is not present, bring it in.

show bootflash:repository

```
switch# dir bootflash:repository
283129856    Apr 25 15:39:15 2012 nexus-1000v.4.2.1.SV1.5.1.iso
```

Step 5 After you set up the software for the replacement Cisco Nexus Virtual Services Appliance, you must manually enable the HA peer for each redundant virtual service blade (VSB). Refer to the *Cisco Nexus Virtual Services Appliance Software Configuration Guide, Release 4.2(1)SP1(5.1)*.

- If the functioning Cisco Nexus Virtual Services Appliance is in the primary HA role, enable the secondary HA peer for each redundant VSB.

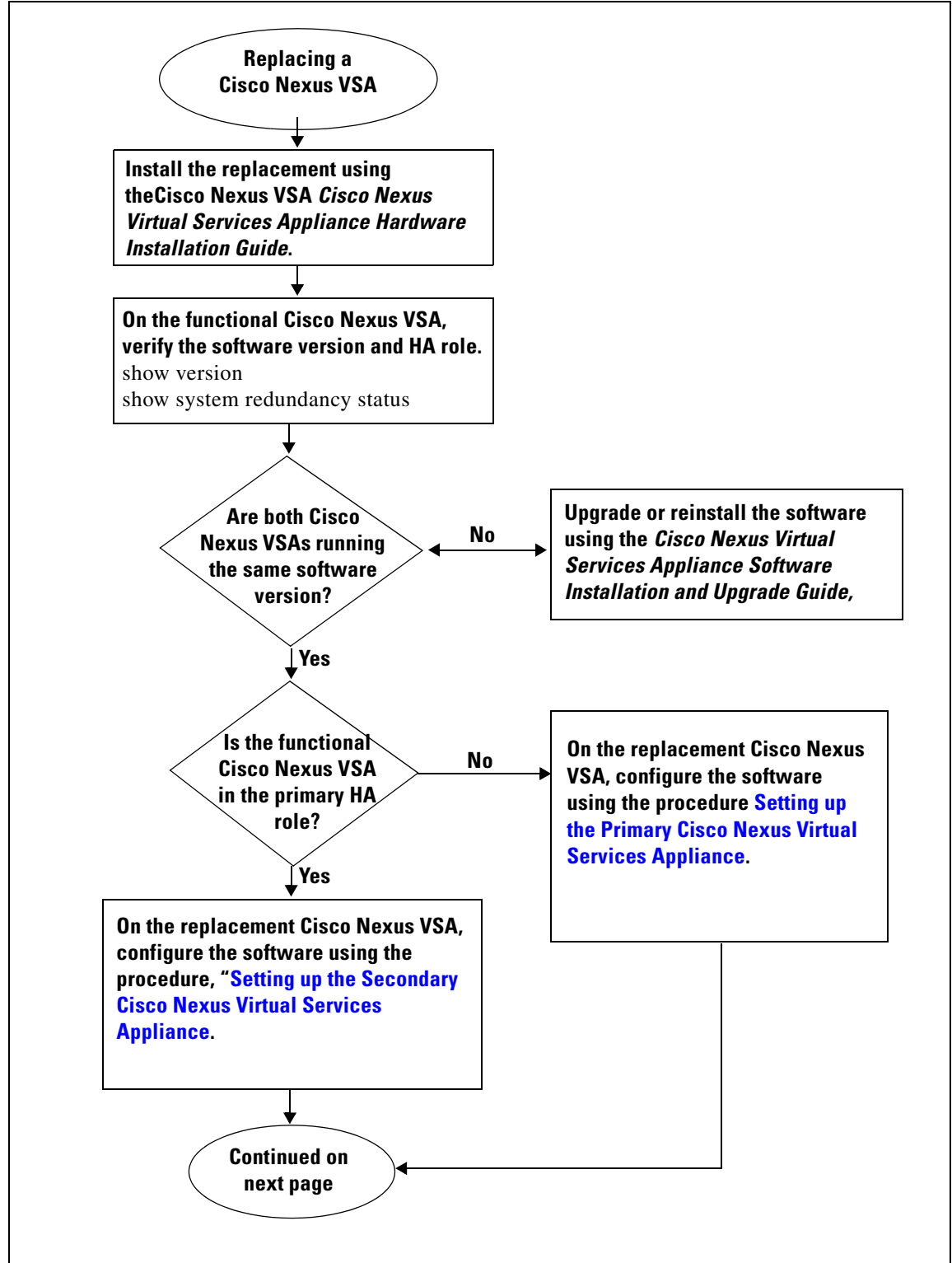
```
configure terminal
virtual-service-blade name
enable secondary
```

- If the functioning Cisco Nexus Virtual Services Appliance is in the secondary HA role, enable the primary HA peer for each redundant VSB.

```
configure terminal
virtual-service-blade name
enable primary
```

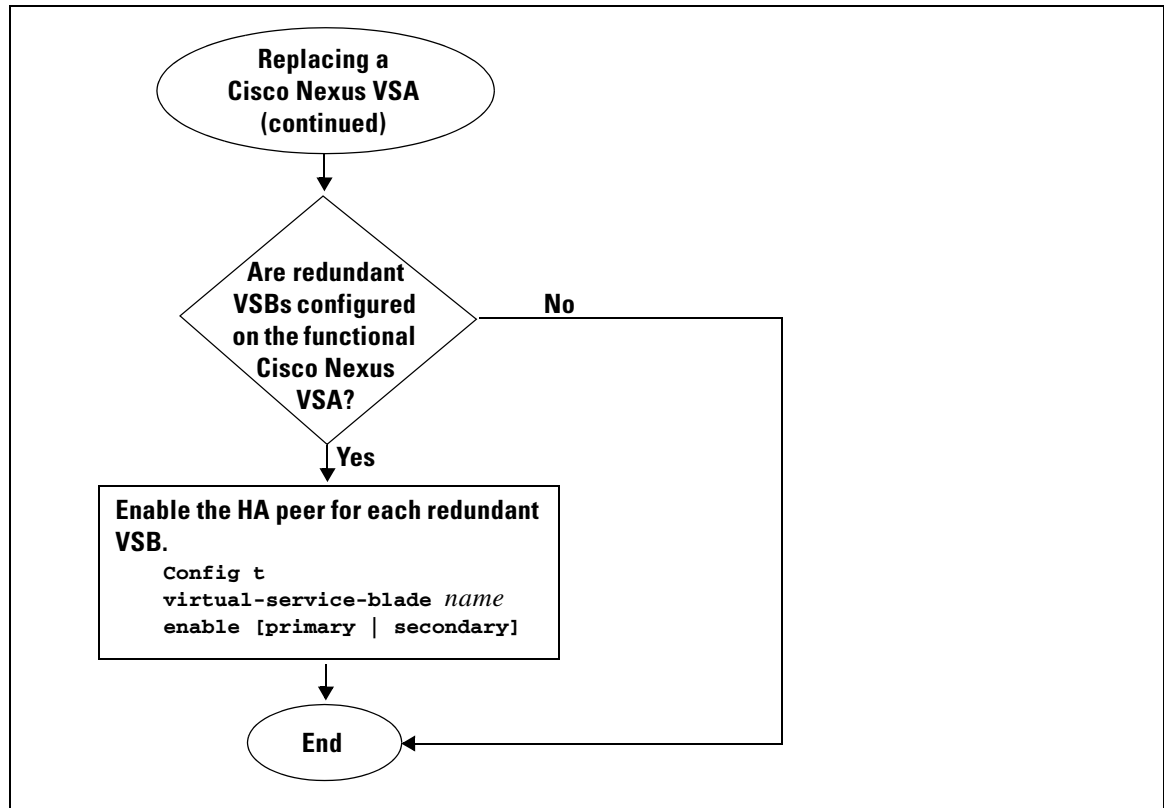
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Figure 4-1 Flow Chart: Replacing a Cisco Nexus Virtual Services Appliance



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Figure 4-2 Flow Chart: Replacing a Cisco Nexus Virtual Services Appliance (continued)



Feature History for Software Reinstallation

This section provides the software reinstallation release history.

Feature Name	Releases	Feature Information
Software reinstall or upgrade	4.2(1)SP1(2)	This feature was introduced.