

Introduction

This will cover the code upgrade procedure on a pair of Nexus switches that are in a VPC configuration.

Prerequisites

The following are required to follow this procedure.

- User account with access to both Nexus devices with the **network-admin** role.
- Console cable and or remote access to both Nexus devices
- USB or TFTP/FTP server
- A copy of the target firmware with the .bin file extension

Before You Begin

There are a few procedures that should be followed before starting this upgrade procedure. It is also recommended to review the upgrade guide provided by Cisco for the specific version you are upgrading to verify if there are any version specific caveats.

- Verify the upgrade path, Cisco provides an upgrade matrix [here](#).
- Save the current running configuration
- Take a configuration backup
- Verify dual home of all connections (required for HA during the upgrade process)

Upgrade Procedure

The upgrade procedure is to upgrade one switch at a time. Verifying the VPC health before initiating the upgrade on the secondary switch. This process will be identical for both switches.

Step 1: Verify VPC health.

- I. Type the **show vpc brief** command to verify the status of the VPC is healthy.

```
Cisco-Nexus9K-01# show vpc brief
Legend:
(*) - local VPC is down, forwarding via vpc peer-link

VPC domain id          : 1
Peer status            : peer adjacency formed ok
VPC keep-alive status  : peer is alive
Configuration consistency status : success
Per-vlan consistency status : success
Type-2 consistency status : success
VPC role               : primary, operational secondary
Number of vpcs configured : 1
Peer Gateway           : Enabled
Peer gateway excluded VLANs : -
Dual-active excluded VLANs : -
Graceful Consistency Check : Enabled
Operational Layer3 Peer-router : Disabled
Auto-recovery status   : Disabled

VPC Peer-link status
-----
id   Port   Status Active vlans
--   -
45   Po45   up     26,551-651,2890

VPC status
-----
id   Port   Status Consistency Reason           Active vlans
--   -
45   Po45   up     success    success                        26,551-651,
                                         2890
```

Step 2: Upload the new code to the switch

- I. Use the **copy** command to copy the firmware over from a USB or TFTP/FTP server. You can then use the **dir** command to verify the file has been successfully copied.

```
Cisco-Nexus9K-01# copy usb: bootflash:
```

Step 3: Initiate the upgrade

- I. Type the **install all nxos bootflash:[filename].bin** command to initiate the upgrade.

```
Cisco-Nexus9K-01# install all nxos bootflash:nxos64-cs.10.3.5.M.bin
Installer will perform compatibility check first. Please wait.
Installer is forced disruptive
Verifying image bootflash:/nxos64-cs.10.3.5.M.bin for boot variable "nxos".
[#####] 100% -- SUCCESS
Verifying image type.
[#####] 100% -- SUCCESS
Preparing "nxos" version info using image bootflash:/nxos64-cs.10.3.5.M.bin.
[#####] 100% -- SUCCESS
Preparing "bios" version info using image bootflash:/nxos64-cs.10.3.5.M.bin.
[#####] 100% -- SUCCESS
Performing module support checks.
[#####] 100% -- SUCCESS
Notifying services about system upgrade.
[#####] 100% -- SUCCESS
Compatibility check is done:
Module bootable Impact Install-type Reason
-----
1 yes disruptive reset default upgrade is not hitless
Images will be upgraded according to following table:
Module Image Running-Version(pri:alt) New-Version Upg-Required
-----
1 nxos 10.2(5) 10.3(5) yes
1 bios v01.08(05/06/2022):v01.08(05/06/2022) v01.09(10/08/2023) yes
Additional info for this installation:
-----
Service "vpc" in vdc 1: vpc is enabled, Please make sure both vpc peer switches have same boot mode
using 'show boot mode'
and proceed
Switch will be reloaded for disruptive upgrade.
Do you want to continue with the installation (y/n)? [n] y
Install is in progress, please wait.
Performing runtime checks.
[#####] 100% -- SUCCESS
Setting boot variables.
[#####] 100% -- SUCCESS
Performing configuration copy.
[#####] 100% -- SUCCESS
Module 1: Refreshing compact flash and upgrading bios/loader/bootrom.
Warning: please do not remove or power off the module at this time.
[#####] 100% -- SUCCESS
Finishing the upgrade, switch will reboot in 10 seconds
```