Migrate SD-WAN ISR1100 Routers from Viptela OS to Cisco IOS XE

Contents

Introduction

This document describes the procedure to migrate SD-WAN ISR1100 Router from Viptela OS to Cisco IOS® XE.

Prerequisites

Requirements

Cisco recommends that you have knowledge of Cisco Software-Defined Wide Area Network (SD-WAN).

Components Used

The information in this document is based on these software and hardware versions:

- vManage Version 20.6.3
- vBond Version 20.6.3
- vSmart Version 20.6.3
- ISR1100-4GLTE Version 20.4.1.2

The software image to use for migration is available from the **Software Download page**.

Cisco IOS XE: **isr1100be.universalk9.<release>.SPA.bin**

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background

Specific requirements for this document include:

- Cisco vManage Release 20.4.1 or later
- Cisco Integrated Services Routers (ISR)1100 and ISR1100X Release 20.4.1 or later

Migration between Viptela OS and Cisco IOS XE is supported in listed platforms:

- Cisco ISR1100X-6G
- Cisco ISR1100X-4G
- Cisco ISR1100-6G
- Cisco ISR1100-4G
- Cisco ISR1100-4GLTE (Cisco ISR1100-4GLTENA and Cisco ISR1100-4GLTEGB)
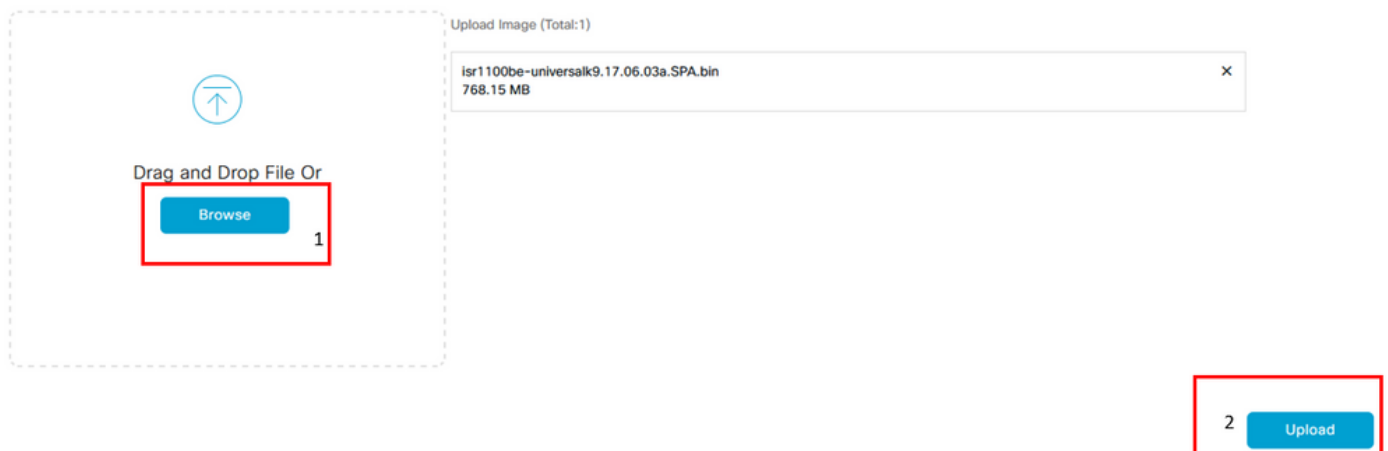
Upgrade

Upgrade to Cisco ISR1100 Software from vManage

1. In the Cisco vManage GUI, choose **Maintenance** > **Software Repository** > **Add New Software** > **vManage** as shown in the image.
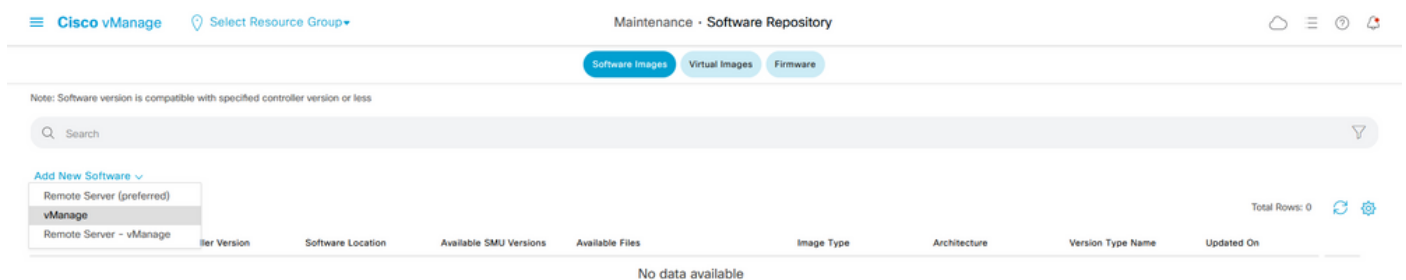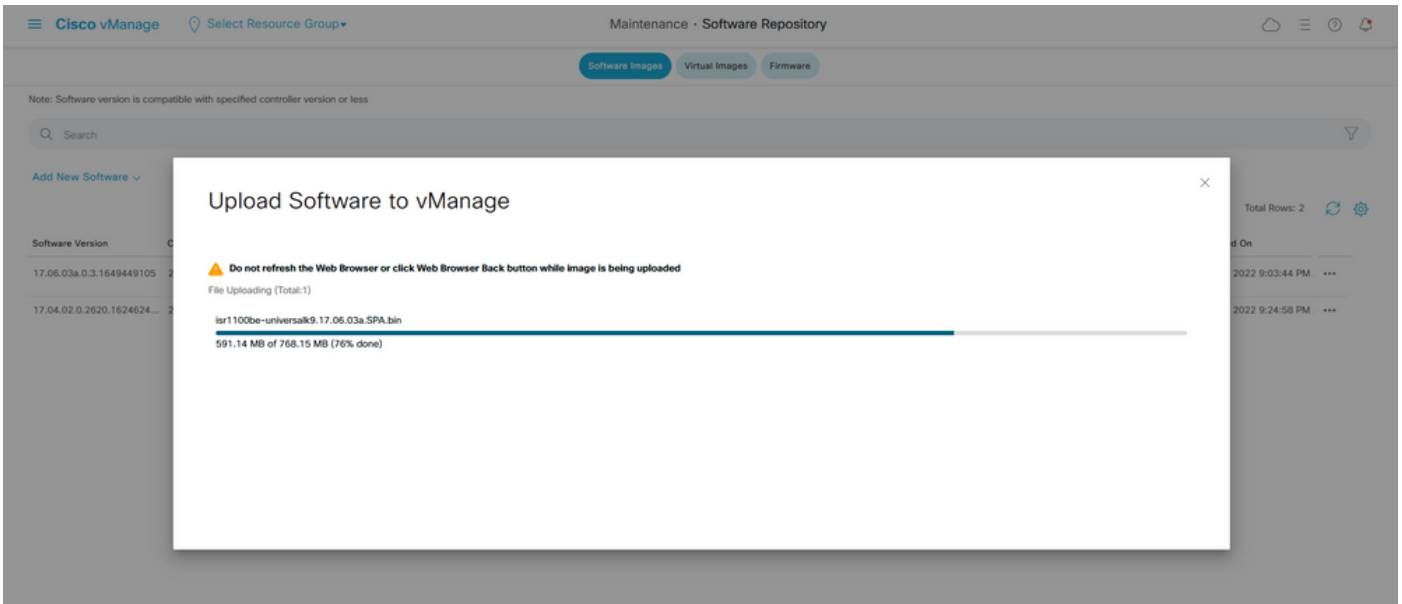

2. In the pop-up window, click **Browse** and then click **Upload.**

3. Once the upload starts do not refresh the web browser, as shown in this image.

4. In the Software Repository section, verify the image has uploaded as shown in the image.

5. Navigate to the **Maintenance** > **Software Upgrade** > **WAN Edge** section. Check the **Hostname** check box to choose the device(s) and click **Upgrade**.

6. Click the **vManage** radio button.
7. In the **Version** drop-down list, choose the Cisco IOS XE image.
8. Check the **Activate and Reboot** check box and the **Confirm** check box.
9. Click **Upgrade**.

Software Upgrade

○ vManage   ○ Remote Server

○ Remote Server - vManage

Platform	Version
vEdge-x86	17.06.03a.0.3.164942066 ⌄

☑ Activate and Reboot

This is a migration trigger. Once device is upgraded, user must manually switch the device from the Devices page. Check 'Confirm' to continue.

☑ Confirm

[Upgrade]   Cancel

10. The device starts the upgrade process and takes several minutes. You can verify the successful completion in the Task view.

11. Navigate to **Configuration** > **Devices** and click the **WAN Edge List** tab.

12. In the right side of the display, click (...) **More Actions** and choose **Migrate Device**.

13. In the Migrate Device dialog box, click **Yes** in order to confirm the migration.

Migrate Device

×

Device will be switched to cEdge, incase of vEdge to cEdge switch all vEdge stats, events history & configs will be lost. For new Nutella devices the OS change will be persisted
Are you sure you want to migrate the Device?

YES **NO**

Note: After the upgrade, the device only has the basic configuration to establish control connections with SD-WAN overlay. You can use vManage to add the additional configuration.

Upgrade to Cisco ISR1100 Software Cisco IOS XE from the CLI

This section applies to Cisco ISR1100 and ISR1100X Release 20.4.1 or later.

1.Transfer image **isr1100be.universalk9.<release>.SPA.bin** on vEdge router.

```
<#root>

Router#

 request software install http/ftp/directory  path (http://,ftp://,scp://,/)> reboot
```

2.After reboot, verify the control connections are established.

3. Ensure the upgrade was confirmed.

```
<#root>

Router#

request platform software sdwan software upgrade-confirm
```

Verify

Use this section to confirm that your configuration works properly.

vManage GUI

Navigate to **Administratio**n > **Maintenance** > **Software Upgrade.** Verify the version in the **Current Version** column. The device shows the Cisco IOS XE OS.

vManage CLI

Enter the command show romvar to verify the migration has been successful on MIGRATION_STATUS.

```
<#root>

Router#

show romvar


ROMMON variables:
 PS1 = rommon ! >
 CRYPTO_BI_THPUT = 10000
 RET_2_RTS =
 BOOT = bootflash:packages.conf,1;
 DEVICE_MANAGED_MODE = controller
 RANDOM_NUM = 342435660
 BSI = 0
 RET_2_RCALTS =
 MIGRATION_STATUS = SUCCESS<<<<<<<<<<<<
 BIS_MODE = 2
```

Troubleshoot

This section provides information you can use to troubleshoot your configuration.

Verify the logs in Cisco IOS XE:

```
bootflash:migrationlogs
```

Verify the logs in vEdge:

etc/Viptela/vedgemigration.cfg