



Upgrading Cisco ACI and OSP

- [Guidelines for Upgrading Cisco APIC and OSP, on page 1](#)
- [Pre-upgrade Guidelines, on page 1](#)
- [Upgrade Guidelines, on page 1](#)
- [Post-upgrade Guidelines, on page 2](#)
- [Upgrade the Cisco ACI Packages, on page 2](#)

Guidelines for Upgrading Cisco APIC and OSP

The OpenStack plug-in is released with Cisco Application Policy Infrastructure Controller APIC releases, and therefore uses the same semantic version as Cisco APIC. For example, the 5.1(1) plug-in is provided with the Cisco APIC 5.1(1) release. Generally, the OpenStack plug-in releases are tested against the matching Cisco APIC release, as well as the previous Long Term Support (LTS) Cisco APIC release. However, a given plug-in release may be compatible with additional Cisco APIC releases. See the [Cisco ACI Virtualization Compatibility Matrix](#) to verify that the version of the plug-in used is compatible with the version of Cisco APIC.

See the [Cisco ACI Virtualization Compatibility Matrix](#) for information about compatible Cisco APIC and Red Hat OSP releases.

Pre-upgrade Guidelines

Upgrade the Cisco Application Centric Infrastructure (ACI) plug-in.

For more information about the compatibility of the plug-in with various OpenStack versions, see the [Cisco ACI Virtualization Compatibility Matrix](#).

Upgrade Guidelines

The Cisco Application Centric Infrastructure (ACI) fabric can be upgraded following the information in the [Cisco APIC Installation, Upgrade, and Downgrade Guide](#).

Optionally, you can upgrade the Cisco ACI fabric without upgrading the plug-in, as long as the Cisco ACI plug-in and Cisco ACI fabric release combination is supported. For more information, see the [Cisco ACI Virtualization Compatibility Matrix](#).

Post-upgrade Guidelines

After you upgrade the Cisco Application Centric Infrastructure (ACI) fabric, you can optionally upgrade the OpenStack Cisco ACI packages to a version which is equal or lower than the Cisco ACI fabric code you have upgraded to. You should also refer to the OpenStack Cisco ACI plug-in Release Notes on [Cisco.com](https://www.cisco.com) for specific information.

For more information on how to upgrade the OpenStack Cisco ACI plug-in, see [Upgrade the Cisco ACI Packages, on page 2](#) in this guide.

Upgrade the Cisco ACI Packages

The following procedure updates fully deployed Overcloud with the new version of the Cisco Application Centric Infrastructure (ACI) plug-in. The upgrade can be live.



Note Follow the Red Hat Director documentation to upgrade the plug-in in step 4.

Procedure

- Step 1** Copy the updated version of the `tripleo-ciscoaci-version` RPM and corresponding plug-in tarball (`openstack-ciscorpms-repo`) from [Cisco.com](https://www.cisco.com) to the OSP Director.
- Step 2** Update the `tripleo-ciscoaci-version` package using yum: **yum update tripleo-ciscoaci-**
- Step 3** Create the Cisco ACI containers by running the command by first logging into registry.connect.redhat.com using **sudo podman login registry.connect.redhat.com** and then running `/opt/ciscoaci-tripleo-heat-templates/tools/build_openstack_aci_containers.py` and then pointing it to the downloaded plug-in tarball. For example:

```
opt/ciscoaci-tripleo-heat-templates/tools/build_openstack_aci_containers.py -p
-z/home/stack/openstack-ciscorpms-repo-163.0-848.tar.gz
```

The command updates the Docker images and updates the `/home/stack/templates/cisco_containers.yaml` file.

Note

If you are upgrading a system using Satellite or any other server, you must ensure that the undercloud and/or Satellite has the `ciscoaci-puppet` RPM from the new release. The overcloud nodes use the `nodepre.yaml` tripleo template to update this RPM in the overcloud nodes during upgrades. This RPM must also be used to rebuild the new containers for the upgrade.

- Step 4** Follow the Red Hat upgrade procedure on the Red Hat Customer Portal.
See Chapter 4, "Updating the Overcloud" in the article *Keeping Red Hat OpenStack Platform Updated*. Go to **Products & Services > Product Documentation > Red Hat OpenStack Platform > 17.1**.