Cisco Intercloud Fabric 3.2.1: Before You Begin

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Introduction

Cisco Intercloud Fabric (ICF) 3.2.1 introduces a number of new features, including advanced routing in AWS using CSR, support for Azure Express Route, support for new cloud providers like IntercloudNow and AWS GovCloud, enhancements in image upload to ICF, IP utilization reporting, and large image support via remote storage.

Users with existing ICF 3.1.1 deployments can upgrade to ICF 3.2.1 version. For versions earlier than 3.2.1, we recommend that you perform a fresh installation of ICF.

ICF Installation Prerequisites

Refer to the following guides for detailed prerequisite and installation information:

- *Cisco Intercloud Fabric Installation Guide, Release 3.2.1*

- *Cisco Intercloud Fabric Release Notes, Release 3.2.1*

- The release includes an evaluation license (valid for 60 days, 20 hybrid cloud units).

Requirements for vCenter and ESXi Servers

- Have vCenter running one of the versions supported by ICF: 5.1, 5.5, or 6.0.

- Have ESXi hosts running one of the versions supported by ICF: 5.1, 5.5, or 6.0.

- Have the vCenter IP address, username, and password for the account with Administrator privileges.

- Have an ESXi host with a minimum of the following resources:

    - 450 GB of disk space.

    - Minimum of 20 GB (24 GB for HA) of memory available for the ICF infrastructure VMs.

    - Minimum of 11 vCPUs (14 vCPUs for HA) available.

    - Make sure all the ESXi hosts are set to the right time and are synchronized with the NTP server.

Network Requirements

- Have a management network to be used for ICF components. Make sure that the management pool has a minimum of 4 additional IPs for standalone mode and 7 IPs for HA mode. These IPs are additional to the 2 IPs being used for ICF management. The IPs should to be static IPs and not from DHCP.

- Have data networks to be used for the VMs to deploy to the cloud or extend to the cloud.

- Have the following data available to be used during the OVA deployment:

  — Domain Name, DNS Server IP Address, NTP Server IP address, or FQDN. You configure these in the System Settings page in the ICF UI.

  — Syslog server IP Address (optional) can be configured through the initial ICF OVA wizard.

- Have the ESXi host configured with the required port groups or port profiles.

- Have the management port group for the ICF VM in the management network.

- Have the trunk port group for the Intercloud Fabric Extender (ICX).

- Make sure that you have configured the following for the trunk port group in Security Settings:

  - For VMware vSwitch or VDS, set **Promiscuous Mode**, **MAC Address Changes**, and **Forged Transmits** to Accept.

- For Cisco Nexus 1000V, enter the command `no uufb enable` on the Cisco Nexus 1000V VSM. To verify that you have disabled UUFB, enter the command `show run | include uufb`.

- If the VMware vSwitch or distributed switch being used is connected to multiple physical NICs, you must enable the setting Net.ReversePathFwdCheckPromise=1 in the ESXi host where the ICX is hosted.

- Have internet access to ICF components in the management network over TCP port 22 and 443. These ports must be open in the corporate firewall.

- Using Proxy for internet access is not supported.

Cloud Requirements

- Have identified a provider account.

- Refer to the the *Cisco Intercloud Fabric Administrator Guide, Release 3.2.1* for more information.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation*.

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