Cisco Cloud Services Platform 2100 Release Notes, Release 2.2.0

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Cisco Cloud Services Platform 2100 Release Notes

This document describes the features and limitations for the Cisco Cloud Services Platform 2100, Release 2.2.0.

Information About Cisco Cloud Services Platform 2100

Cisco Cloud Services Platform 2100 (Cisco CSP 2100) is a software and hardware platform for data center network functions virtualization. This open kernel virtual machine (KVM) platform, with Red Hat Enterprise Linux (RHEL) 7.3 as the base operating system, is designed to host networking virtual services. Cisco CSP 2100 provides REST APIs, a web interface, and a CLI for creating and managing the virtual machine (VM) lifecycle.

Supported Cisco Networking Services

Cisco CSP 2100 supports the following Cisco networking services:

- Cisco Virtual Supervisor Module (VSM) for Cisco Nexus 1000V Switch deployments (VMware vSphere, KVM, and Microsoft Hyper-V).
- Cisco Virtual Security Gateway (VSG) for Cisco Nexus 1000V Switch deployments.
- Cisco Cloud Services Router (CSR) 1000V Series.
- Cisco Adaptive Security Virtual Appliance (ASAv), supports QCOW image only.
- Cisco Prime Data Center Network Manager (DCNM).
- Cisco Virtual Network Analysis Module (vNAM).

Cisco CSP 2100 also supports services from other third-party vendors including application firewalls, application delivery controllers, and value-added mobility services. Any third-party service that is supported on KVM is supported on Cisco CSP 2100.

New Features and Enhancements

Cisco CSP 2100, Release 2.2.0 includes the following features and enhancements:

Feature	Description
Access Control List (ACL) Access for the Management Interface	This feature provides support for specifying the IPv4 IP address of the source network for ACL access to the management interface. When this feature is enabled, only specified source networks can access the management interface. You can configure this feature by using the web interface, CLI, or REST API.
Authentication, Authorization, and Accounting (AAA) Server Selection	This feature provides support for specifying a server for AAA. You can select a TACACS+ server or a RADIUS server by using the web interface, CLI, or REST API.
Dedicated Management Port for Services	This feature provides support for specifying a single pNIC or a port channel to be used as the dedicated management port for services. You can configure this feature during the initial Cisco CSP 2100 setup, or later on by using the CLI or REST API.
Management VLAN	This feature provides support for specifying a VLAN for the management interface. You can configure this feature during the initial Cisco CSP 2100 setup, or later on by using the web interface, CLI, or REST API.
RADIUS Server	This feature provides support for using a RADIUS server for authentication. You can configure a RADIUS server by using the web interface, CLI, or REST API.
Port Channel as the Management Interface	This feature provides support for using a port channel for the management interface. You can configure this feature during the initial Cisco CSP 2100 setup or later on by using the web interface.
VNC Port Number for a Service	This feature provides support for specifying a VNC port number for a service. You can configure this feature by using the web interface, CLI, or REST API.
Intel X710 (Fortville) NICs Support	This feature enables support for the Intel X710 (Fortville) NICs. These NICs can be used for access, trunk, passthrough, or SR-IOV vNIC types.
Port Channel Support on SR-IOV for Intel X520 (Niantic) NICs	This feature enables support for configuring a port channel on SR-IOV VFs inside a VNF. This feature is currently supported only on the Intel X520 (Niantic) NICs.
Net-SNMP	This feature adds the ability to access Linux-embedded SNMP agent. Supported MIBs are SNMPv2-MIB and HOST-RESOURCES-MIB.
Web Interface Enhancement	This enhancement provides a redesigned web interface for improved ease of use.

Configuration Limits

Use the following configuration limits for Cisco CSP 2100.

Component	Supported Limits
Number of services in a node with hyperthreading disabled	Up to number of cores – 1 (when each service is configured with one core). For example, for a CPU with 16 cores, it is 15.
Total number of nodes in a cluster	5
Number of vNICs per service	10

Important Notes and Restrictions

The following topics provide important notes and restrictions for Cisco CSP 2100.

Upgrading the Cisco CSP 2100 Software

You can upgrade the Cisco CSP 2100 software from Cisco CSP 2100 Release 2.1.x to Release 2.2.0 by using the Cisco Integrated Management Controller (CIMC) KVM console. Map the ISO image to the Virtual CD/DVD by using the CIMC KVM console and then install the image.

Note You cannot use the following command and REST API to upgrade from Cisco CSP 2100 Release 2.1.x to Release 2.2.0:

- **system install iso update image** *imagename*
- **curl -u** *username:password* **-X POST https://***ip-address:port-number***/api/running/system/install/iso/update/_operations/update -H "Content-Type: application/vnd.yang.data+json" -d '{"input":{"image":"***imagename* **"}}'**

Changing IP Address of the Management Interface for NFS Configurations

If NFS is configured on the system, note the following:

- Changing the management IP address causes an outage of the VNC console and stats collection for 15 to 30 minutes.
- Reboot of the system can take up to 30 minutes.

As a workaround, you can unconfigure the NFS mount before performing these operations and reconfigure the NFS mount after the operation is complete. You can also reboot the system from the Cisco CSP 2100 CIMC connection.

Configuring Passthrough Interfaces

When a service has passthrough as well as non-passthrough vNICs, we recommend that you first define the non-passthrough vNICs and then define the passthrough vNICs.

Running config terminal Command After Initial Setup

The **config terminal** command fails when you run it after performing the initial setup for a new installation. This happens because the admin user is not assigned to a group at the initial login. To run this command and configure Cisco CSP 2100 features, you must log out and then log in to the Cisco CSP 2100.

Restrictions

Cisco CSP 2100 has the following restrictions:

- Management interfaces cannot be configured as passthrough interfaces.
- Only local admin users have the functionality to autocopy images in repositories across the Cisco CSP 2100 nodes in a cluster. This functionality is not available for the TACACS+ or RADIUS admin users.
- Only local users can log in to the Cisco CSP 2100 using CIMC console. Remote TACACS+ users cannot log in to the Cisco CSP 2100 using CIMC console.
- Only the vNIC e1000 model is supported with Cisco VSM and Cisco VSG services.

Using the Bug Search Tool

Use the Bug Search Tool to search for a specific bug or to search for all bugs in a release.

Step 1 Go to the Cisco Bug Search Tool.

Step 2 In the Log In screen, enter your registered Cisco.com username and password, and then click **Log In**. The Bug Search page opens.

Note If you do not have a Cisco.com username and password, you can register for them at http://tools.cisco.com/RPF/register/register.do.

Step 3 To search for a specific bug, enter the bug ID in the **Search For** field and press **Enter**.

Step 4 To search for bugs related to a specific release, do the following:

a) In the Product field, choose **Series/Model** from the drop-down list and then enter **Cisco Cloud Services Platform 2100** in the text field.

b) In the Releases field, choose a criteria from the drop-down list and then enter a release number in the text field.

c) Press **Enter**.

When the search results are displayed, use the filter tools to find the types of bugs you are looking for. You can search for bugs by status, severity, modified date, and so on.

Tip To export the results to a spreadsheet, click the **Export Results to Excel** link.

Related Documentation for Cisco Cloud Services Platform 2100

This section lists the documents used with the Cisco Cloud Services Platform 2100 and available on Cisco.com at the following URL:

http://www.cisco.com/c/en/us/support/switches/cloud-services-platform-2100/tsd-products-support-series-home.html

General Information

Cisco Cloud Services Platform 2100 Release Notes

Install and Upgrade

Cisco Cloud Services Platform 2100 Quick Start Guide

Cisco Cloud Services Platform 2100 Hardware Installation Guide

Regulatory Compliance and Safety Information for Cisco Cloud Services Platform 2100

Configuration Guide

Cisco Cloud Services Platform 2100 Configuration Guide

Reference Guides

Cisco Cloud Services Platform 2100 Command Reference Guide

Cisco Cloud Services Platform 2100 REST API Guide

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.

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the What's New in Cisco Product Documentation RSS feed. RSS feeds are a free service.