



Cisco Intelligent Automation for Cloud 4.2 Release Notes

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This document describes key features, product requirements, enhancements, and known issues in this release of Cisco Intelligent Automation for Cloud. For more information about this release, refer to the appropriate product guides.

Note: You can access the most current Cisco Intelligent Automation for Cloud documentation, including these Release Notes, online at: http://www.cisco.com/en/US/products/ps11869/tsd_products_support_series_home.html.

Introduction

Cisco Intelligent Automation for Cloud (Cisco IAC) 4.2 is a cloud management software solution that delivers a critical foundation layer for deploying and managing cloud-based computing in a holistic and unified way. The solution provides essential automated management and orchestration that allows organizations to control and manage cloud-based services transparently throughout their life cycles. This solution can cover diverse cloud deployments and is a flexible solution that can scale from test and development to production workloads, from initial cloud pilots to large-scale enterprise-wide initiatives to deliver maximum value to customers.

System Requirements

Note: For the complete list of inter-operable components and version/release information, see the *Cisco Intelligent Automation for Cloud 4.2 Compatibility & Requirements Matrix* located here: <http://www.cisco.com/c/en/us/support/cloud-systems-management/intelligent-automation-cloud/tsd-products-support-series-home.html>.

New Features and Enhancements

The following is a list of new features and enhancements for Cisco Intelligent Automation for Cloud 4.2.

■ Cisco IAC Improvements for 4.2

- Return of the Virtual Management Appliance for Cisco IAC 4.2
- Support for Citrix NetScaler 1000v (10.5-55.8), which is also included in the IAC Management Appliance's repository of images.

Note: Previously, Cisco IAC supported Citrix NetScaler VPX.

- Localization (not translation) for content
- Form performance improvements
- Validate PE (Health Check) Redesign
- Support for multiple domains
- Support for Multiple datastores
- Physical provisioning (via UCS Director)
- Compatibility currency update

■ Cisco Software Support

- Cisco Application Policy Infrastructure Controller (APIC) 1.0(3n)
- Cisco APIC OpenStack Mechanism Driver 1.0.2
- Cisco Prime Performance Manager (PPM) 1.5
- Cisco Prime Service Catalog 11.0
- Cisco Process Orchestrator 3.1.1
- Cisco UCS Manager 2.5(1a)
- Support for Cisco UCS Director 5.2/5.3
- Cisco Virtual Security Gateway (VSG) 2.1.2c

■ OpenStack Support

- Support for OpenStack Juno
- Discovery and Registration of OpenStack Volumes, and Management of OpenStack Volumes
- Cisco Prime Performance Manager (PPM) support for OpenStack
- Support for Cisco APIC for use with OpenStack Juno enabled with Cisco APIC Mechanism Driver (APIC Plugin)
- Added the capability to perform ACM on OpenStack hosted Instances, including the use of private keys for running ACM on Linux Instances.

■ VMWare Support

- vCloud Director enhancements
- vApp provisioning

Known Issues

Overwriting of Standards

Problem

When installing or upgrading Cisco IAC4.2, the **SC_Common_4-2_Overwrite** package overwrites a number of standards. This is not a problem unless these standards are in use already.

Solution

If you have already defined the following standards, you will need to redefine them after installing Cisco Intelligent Automation for Cloud 4.2.

- Cloudsync Discover Interval
- Discover
- Platform Element Types
- UCS Director Time Zone
- VDC Network Description
- VDC Network Topology
- VDC Sizes

Potential For OpenStack to Overwrite Path Entered When Managing Volumes

When managing volumes in Cisco IAC 4.2, you enter the physical device path in the **Attach Volume to an OpenStack Instance** field. If you leave this field blank, the OpenStack auto-assign feature, if supported, will provide the next available device automatically. In addition, if you fill in a value which is not the next available device location on an Instance, the auto-assign feature might use the next available physical device location and not what you actually entered. It will look correct from the OpenStack UI, but using `fdisk -l` on the Instance may show a different physical device path.

Problem

The physical device which ultimately is attached to your instance is dependent on OpenStack's interpretation and *might not be what you actually entered when attaching volumes*. In other words, even if you provide a value in the **Attach Volume to an OpenStack Instance** field, it is still possible that OpenStack might overwrite your value with next available device (just as if you'd left the field blank). But in so doing, OpenStack will continue to show the value as you originally entered it, as if nothing had changed.

Tip: To view the *actual* assigned value, use the `fdisk -l` command on a Linux Instance.

Solution

No solution is currently available. You need to be aware of this as a possible problem. For more information, see <http://developer.openstack.org/api-ref-compute-v2-ext.html>. Once there, refer to the section on volume attachments (os-volume_attachments), specifically:

```
expand Attach Volume 'detail'  
"Name of the device such as, /dev/vdb. Omit this parameter or set it to null for auto-assignment, if supported. If you specify this parameter, the device must not exist in Guest OS"
```

Unexpected OpenStack Network Connectivity When Provisioning Network via APIC

Problem

Unexpected network connectivity will be allowed between multiple networks under the same VDC when multiple APIC Network Policies are created.

Symptom

APIC Network Policy is created per network pair that share a contract through a provider/consumer relationship. In Cisco IAC 4.2, all networks under the same VDC can only use one default contract. This results in networks which have an APIC network policy already created on them having connectivity to other networks that get configured with an APIC network policy using the default contract. This may result in what would normally be considered unexpected inter-network connectivity within the VDC.

Reason

In Cisco IAC 4.2 we have limited support for APIC Network Policy functionality.

- A single default contract is available to connect a source and destination network. The default action supported is to allow all bidirectional traffic. There is no filtering between the source and destination networks.
- Multiple APIC network policies are supported per VDC. The network policies will use the default contract to define connectivity between network pairs, a source and a destination network.

Example

- Network Policy 1: Net1 provides Default contract and Net2 consumes it.
- Network Policy 2: Net3 provides Default contract and Net4 consumes it.

Result

- Net1, Net2, Net3, and Net4 are all connected.
- Net2 and Net4 both have network connectivity to Net1 because they are associated with (or consume) the same contract.

Note: Regardless of whether a network provides or consumes the contract, there will be connectivity due to the association with the default contract.

Cisco Support Required for Chef Users Conducting Environment Upgrades

The size of the following parameters in the Service Item “Chef Roles” has changed to "STRING(Max)". If you are using Chef and are planning to conduct an upgrade of Cisco IAC on your environment, we recommended that you **contact Cisco Support for assistance**.

- Default Attributes
- Override Attributes
- Run List
- Environment Run List

Erroneous Deployment Timeout Error Message with Appliance

Problem

There is a web server timeout issue that produces an error message. However, deployment actually keeps running despite the error message and eventually it finishes correctly. This issue exists only when deploying on PSC Appliance.

Solution

None at this time.

Connection to Barbican in the Appliance May Fail and Credentials Needed to Connect to VM Console on OpenStack May Not Be Updated

Problem

When adding or updating the Cisco IAC Management Appliance platform element via Connect/Update Cloud infrastructure, the connection to Barbican might occasionally fail:

The request was aborted: Could not create SSL/TLS secure channel.

As a result, the credentials needed to connect to the OpenStack VM Console operation might not get updated and the console session will not fully establish. New alerts created on OpenStack instances may also fail to connect.

Solution

Update the Cisco IAC Management Appliance platform element via Update Connect Cloud Infrastructure. The Connection normally works on second try.

Billing Rate Data Needs to be Deleted When Upgrading to Cisco IAC 4.2

Problem

When upgrading, the Billing Rate Table rows, Rate Code and Billing Rate Definition retain out of date information and need to be deleted.

Solution

1. Launch your browser.
2. Log in to Cisco IAC 4.2 as CPTA.
3. Navigate to **Management > Price Rates > Master Rate Group**.
4. Choose the **PSDeActivate** Table.
5. Choose the **Billing Rate Table Tab**.
6. Select **Rate Code**.
7. Click **Delete**.
8. Choose the **Billing Rate Definition Tab**.
9. Click **Delete**.

Additional Information

Cisco Intelligent Automation for Cloud Community

The Cisco Intelligent Automation for Cloud (Cisco IAC) community is a public forum that provides resources for Cisco IAC components and solutions. You can access the new Cisco Intelligent Automation for Cloud public forum here:

<https://supportforums.cisco.com/community/12172166/cisco-intelligent-automation-cloud>

Accessibility Features in Cisco IAC 4.2

The Cisco Intelligent Automation for Cloud 4.2 software does not provide any accessibility features.

All product documents are accessible except for images, graphics, and some charts. If you would like to receive the product documentation in audio format, braille, or large print, please contact accessibility@cisco.com.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as an RSS feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service. Cisco currently supports RSS Version 2.0.

In addition to this document, the following guides have been updated for Cisco IAC 4.2:

- *Cisco Intelligent Automation for Cloud 4.2 Quick Start Guide*
- *Cisco Intelligent Automation for Cloud 4.2 Installation Guide*
- *Cisco Intelligent Automation for Cloud 4.2 Administrator Guide*
- *Cisco Intelligent Automation for Cloud 4.2 Compatibility Matrix*
- *Open Source Used in Cisco Intelligent Automation for Cloud*

Note: For information on Cisco Intelligent Automation for Cloud Virtual Appliance, contact Cisco Technical Assistant Center (TAC).

You can access the most current Cisco Intelligent Automation for Cloud documentation, including these release notes, online at http://www.cisco.com/en/US/products/ps11869/tsd_products_support_series_home.html.

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This document is to be used in conjunction with the documents listed in the [Obtaining Documentation and Submitting a Service Request, page 6](#) section.

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Additional Information