



Cisco Cloud Application Policy Infrastructure Controller Release Notes, Release 4.2(3)

If you have a private cloud, you might run part of your workload on a public cloud. However, migrating workload to the public cloud requires working with a different interface and learning different ways to set up connectivity and define security policies. Meeting these challenges can result in increased operational cost and loss of consistency.

To alleviate this issue, you can use the Cisco Cloud Application Policy Infrastructure Controller (APIC) to extend a Cisco Application Centric Infrastructure (ACI) Multi-Site fabric to Amazon Web Services (AWS) or Microsoft Azure public clouds. You can also mix AWS and Azure in your deployment.

This document describes the features, bugs, and limitations for the Cisco Cloud APIC software.

For more information about this product, see [Related Documentation](#).

Note: The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Note: Use this document with the [Cisco Application Policy Infrastructure Controller Release Notes, Release 4.2\(3\)](#) and [Cisco ACI Multi-Site Orchestrator Release Notes, Release 2.2\(3\)](#).

Date	Description
December 9, 2019	Release 4.2(3j) became available.

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New Software Features

Feature	Description	Guidelines and Restrictions
Support for the Azure Government cloud	Cisco Cloud APIC supports the Azure Government cloud for on-premises-to-cloud connectivity (Hybrid-Cloud and Hybrid Multi-Cloud) and for cloud site-to-cloud site connectivity (Multi-Cloud). For more information, see the Cisco Cloud APIC for Azure Installation Guide, Release 4.2(x) .	None.
Support for AWS Organizations and Organization user tenant	Support is available for AWS Organizations and assigning an Organization tag to a Cloud APIC user tenant. For more information, see the Cisco Cloud APIC for AWS Installation Guide, Release 4.2(x) .	None.

Changes in Behavior

There are no changes in behavior in this release.

Open Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug. The "Exists In" column of the table specifies the 4.2(3) releases in which the bug exists. A bug might also exist in releases other than the 4.2(3) releases.

Bug ID	Description	Exists In
CSCvo06626	When a cloudExtEpg matches on a 0/0 network and has a bi-directional contract with two cloud EPGs, such as cloudEpg1 and CloudEpg2, this can result in inadvertent communication between endpoints in cloudEpg1 and cloudEpg2 without a contract between the two EPGs themselves.	4.2(3j) and later

Open Issues

Bug ID	Description	Exists In
CSCvo30542	TACACS monitoring of the destination group is not supported through the GUI.	4.2(3j) and later
CSCvo93761	Changing an ExtEPG subnet prefix's mark from A to B will end up messing up BGP's prefixes in the CSR and will cause traffic loss.	4.2(3j) and later
CSCvp12535	With a larger number of Cloud APIC tenant EPGs and if the VRF configuration is pushed through the API in a single transaction, sometimes duplicate AWS resources are created.	4.2(3j) and later
CSCvp71964	Cannot access the serial console of the CSR virtual machine in Azure.	4.2(3j) and later
CSCvp92803	AWS EC2 or Azure virtual machines have been assigned secondary IP addresses, but are unreachable from other cloud sites.	4.2(3j) and later
CSCvp99474	No NSG is assigned when the cloud endpoint should be classified in the EPG.	4.2(3j) and later
CSCvq73867	A network interface in a Cloud APIC managed region in AWS or Azure matches the EP Selector in a cloud EPG, but the Security Group of that cloud EPG does not get attached to the network interface. Instead, the Security Group of another cloud EPG gets attached to the network interface.	4.2(3j) and later
CSCvq76039	When a fault is raised in the Cloud APIC, the fault message will be truncated and will not include the entire cloud message description.	4.2(3j) and later
CSCvq87116	A network interface in a Cloud APIC-managed AWS region matches the endpoint selector in a cloud EPG, but the security group for the cloud EPG does not get attached to the network interface.	4.2(3j) and later
CSCvq95878	The Network Interface in Azure is not attached the expected Security Group.	4.2(3j) and later
CSCvr03104	If you try to deploy Cloud APIC to an unsupported region, then the Azure portal will allow you to select the region and will fail during deployment.	4.2(3j) and later
CSCvr06406	An internet-facing application load balancer is not reachable from the internet due to an incorrect configuration that should be rejected by a validation.	4.2(3j) and later
CSCvr48636	BGP Peer States on the Cloud APIC dashboard will show the peer states as "up" even while the actual BGP sessions are down, and control or data plane traffic is dropped.	4.2(3j) and later

Resolved Issues

Bug ID	Description	Exists In
CSCvs07094	A blank summary pane is shown after clicking on a filter name.	4.2(3j) and later
CSCvs20068	Selected filters are not added to the contract after saving.	4.2(3j) and later
CSCvs24183	Cloud CSRs are unreachable for some reason, but there is no indication in the Cloud APIC UI Dashboard to indicate unreachability.	4.2(3j) and later

Resolved Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug. The "Fixed In" column of the table specifies whether the bug was resolved in the base release or a patch release.

Bug ID	Description	Fixed in
CSCvq38474	Sometimes, endpoint information is not removed from the Cloud APIC and the endpoint IP address will be displayed in the Cloud APIC GUI and in the contract rules.	4.2(3j)
CSCvq86855	The search icon in the toolbar is disabled.	4.2(3j)
CSCvq94072	Endpoints are discovered in Cloud APIC (AWS EC2 or Azure VM) and the security groups associated with the virtual machine are linked in Cloud APIC. The security group determines where the endpoints will be synced on the other cloud sites. EPSync listens to websockets for changes in endpoint's security group, and in normal circumstances almost immediately syncs on other sites. However, due this bug, endpoints might not be synced immediately after the hcloudSecurityGroup has been associated in Cloud APIC.	4.2(3j)
CSCvr13711	Information regarding the Azure cloud resources can be visible in the Cloud APIC even if the Azure resource has been removed.	4.2(3j)
CSCvr18729	The dashboard of Cloud APIC running in Azure will fail to show the number of BGP sessions that are up or down. The count will always be 0 even if the sessions are up and exchanging routes.	4.2(3j)

Known Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug. The "Exists In" column of the table specifies the 4.2(3) releases in which the bug exists. A bug might also exist in releases other than the 4.2(3) releases.

Compatibility Information

Bug ID	Description	Exists In
CSCvo55112	Logs are lost upon stopping the Cloud APIC instance.	4.2(3j) and later
CSCvo95998	There is traffic loss after a Cloud APIC upgrade. Traffic will eventually converge, but this could take a few minutes.	4.2(3j) and later
CSCvo11780	Creating VPN connections fail with the "invalidCidr" error in AWS or the "More than one connection having the same BGP setting is not allowed" error in Azure.	4.2(3j) and later
CSCvr01341	REST API access to the Cloud APIC becomes delayed after deleting a tenant with scaled EPGs and endpoints. The client needs to retry after receiving the error.	4.2(3j) and later

Compatibility Information

This section lists the compatibility information for the Cisco Cloud APIC software. In addition to the information in this section, see the [Cisco Application Policy Infrastructure Controller Release Notes, Release 4.2\(3\)](#) and [Cisco ACI Multi-Site Orchestrator Release Notes, Release 2.2\(3\)](#) for compatibility information for those products.

- Cloud APIC release 4.2(3) supports the following Cisco ACI product releases:
 - Cisco ACI Multi-Site Orchestrator, release 2.2(3)
 - Cisco APIC, release 4.2(3)
 - Cisco NX-OS for ACI-mode switches, release 14.2(3)
- Cloud APIC does not support IPv6.
- AWS does not support using iBGP between a virtual gateway and a customer gateway.
- Cloud APIC supports the following AWS regions:
 - Asia Pacific (Mumbai)
 - Asia Pacific (Osaka- Local)
 - Asia Pacific (Seoul)
 - Asia Pacific (Singapore)
 - Asia Pacific (Sydney)
 - Asia Pacific (Tokyo)
 - AWS GovCloud (US-Gov-West)
 - Canada (Central)
 - EU (Frankfurt)
 - EU (Ireland)
 - EU (London)
 - South America (São Paulo)
 - US East (N. Virginia)
 - US East (Ohio)
 - US West (N. California)

Related Content

- US West (Oregon)
- Cloud APIC supports the following Azure regions:
 - Australiacentral
 - Australiacentral2
 - Australiaeast
 - Australiasoutheast
 - Brazilsouth
 - Canadacentral
 - Canadaeast
 - Centralindia
 - Centralus
 - Eastasia
 - Eastus
 - Eastus2
 - Francecentral
 - Japaneast
 - Japanwest
 - Koreacentral
 - Koreasouth
 - Northcentralus
 - Northeurope
 - Southcentralus
 - Southeastasia
 - Southindia
 - Uksouth
 - Ukwest
 - Westcentralus
 - Westeurope
 - Westindia
 - Westus
 - Westus2
- Cloud APIC supports the following Azure Government cloud regions:
 - US DoD Central
 - US DoD East
 - US Gov Arizona
 - US Gov Texas
 - US Gov Virginia

Related Content

See the [Cisco Cloud Application Policy Infrastructure Controller](#) page for the documentation.

See the [Cisco Application Policy Infrastructure Controller \(APIC\)](#) page for the verified scalability, Cisco Application Policy Infrastructure Controller (APIC), and Cisco ACI Multi-Site Orchestrator (MSO) documentation.

The documentation includes installation, upgrade, configuration, programming, and troubleshooting guides, technical references, release notes, and knowledge base (KB) articles, as well as other documentation. KB articles provide information about a specific use case or a specific topic.

By using the "Choose a topic" and "Choose a document type" fields of the APIC documentation website, you can narrow down the displayed documentation list to make it easier to find the desired document.

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, send your comments to apic-docfeedback@cisco.com. We appreciate your feedback.

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