



Cisco Container Platform 1.5.0 Release Notes

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Introduction

Cisco Container Platform is a fully curated, lightweight container management platform for production-grade environments, powered by Kubernetes, and delivered with Cisco enterprise-class support. It reduces the complexity of configuring, deploying, securing, scaling, and managing containers using automation along with Cisco's best practices for security and networking. Cisco Container Platform is built with an open architecture using open source components.

Features

Feature	Description
Kubernetes Lifecycle Management	Enables you to deploy Kubernetes clusters, add or removed nodes, and upgrade Kubernetes clusters to latest versions.
Persistent Storage	Allows you to persist data for containerized applications between upgrades and updates through HyperFlex storage driver.
Monitoring and Logging	Provides dashboards, alerts, and indexing to monitor resource usage and behavior of platform components through Elasticsearch, Fluentd, and Kibana (EFK) stack and Prometheus.
Container Networking	Provides container to container and container to non-containerized application layers communication with security policies.
Load Balancing	Offers software Ingress load balancing through NGINX and node port functionality of Kubernetes for containerized applications.
Role Based Access Control	Integrates with Active Directory and offers permission-based rules.

Revision History

Release	Date	Description
1.0	May 22, 2018	First release

Release	Date	Description
1.0.1	May 25, 2018	Updated the Fixed Issues and Know Issues sections
1.1.0	June 29, 2018	Added the What's New and Upgrading Cisco Container Platform sections Updated the Fixed Issues and Know Issues sections
1.4.0	July 31, 2018	Updated the What's New , Fixed Issues , and Known Issues sections
1.4.1	August 6, 2018	Added the Fixed Issues, 1.4.1 section
1.5.0	September 6, 2018	Updated the What's New , Fixed Issues , and Known Issues sections

System Requirements

- The Cisco Container Platform Installer OVA
- The tenant OVA
- A vCenter cluster with High Availability (HA) and Distributed Resource Scheduler (DRS) enabled
- A DHCP server that provides IP addresses to the Cisco Container Platform VMs
- A vCenter datastore that is mounted on all the ESX hosts in the cluster
- Cisco Container Platform control plane VMs needs to have network access to vCenter appliance API
- Cisco Container Platform 1.3.0 and later requires hypervisor hosts to be running CPUs with an Ivy Bridge or newer microarchitecture.

What's New

- Included support for Istio 1.0
- Included support for scheduling of workloads to specific node pools
- Improved handling of master node upgrade failures
- Enhanced the Cisco Container Platform dashboard:
 - Modified the Installer to shows console output during the install and upgrade process
 - Added alt tags to icons that do not have accompanying text
 - Improved look and feel of the Sign in and Copyright sections
 - Updated ACI modals to use Particle modals
 - Enhanced the Cisco Container Platform dashboard to provide its own Ingress resource

- Replaced Identity modals with Particle modals
- Enabled automatic population of VLAN ID when creating ACI profile
- Added Istio and Harbor information to the Cluster Summary and Details
- Updated documentation on Docker for Mac
- Upgraded Django and Bootstrap

Installing Cisco Container Platform

For step by step instructions on installing Cisco Container Platform, refer to the *Cisco Container Platform Installation Guide*.

Upgrading Cisco Container Platform

- Upgrading Cisco Container Platform is supported from the 1.0.0 release for deployments using Calico or ACI for CNI.
- If an existing deployment uses Contiv for CNI, then upgrades to the 1.5.0 version is not supported.

Fixed Issues, 1.5.0

- Enhanced the Username drop-down list on narrow or collapsed viewport
- Added Help link for Smart Licensing
- Added VM template information on the Cluster Details page

Known Issues, 1.5.0

The known issues in this release are as follows:

- Contiv as the CNI for tenant clusters is only supported as Tech Preview, and upgrading to a newer version of Cisco Container Platform is not supported.
- In an ACI environment, the link to a tenant cluster Kubernetes Dashboard from the Cisco Container Platform dashboard is not supported. To view the tenant cluster in the Kubernetes Dashboard, you need to obtain the Ingress IP of external IP address using `kubect1 get svc`.

Workaround

Run the following commands:

1. `helm delete --purge kubernetes-dashboard`
2. `helm upgrade --install kubernetes-dashboard -f /opt/ccp/charts/kubernetes-dashboard.yaml --namespace=ccp /opt/ccp/charts/kubernetes-dashboard.tgz`
3. Apply the rolebinding file.
`kubect1 apply -f rolebinding.txt`

You can download the file from the following location:

<https://jira-eng-sjc11.cisco.com/jira/secure/attachment/13957/rolebinding.txt>

- The Cisco Container Platform web interface displays links to external pages such as Smart Licensing. You cannot launch these pages if you do not have access to them.
- Virtual IP address is not released when cluster creation fails.
- If ACI fabric is running 3.1(1i), you need to turn on the promiscuous mode in the corresponding tenant port group in order to make the ACI load balancer functional.
- In a Contiv deployment, you should not use `matchExpressions` for a NetworkPolicy.
- In a Contiv deployment, network policy does not work with the hostnetwork pod.
- In a Contiv deployment, various networks are used internally by Contiv, and communication to IP addresses outside the cluster is blocked if there is an overlap.
- In a Calico deployment:
 - The network policy matching on labels will not block hostnetwork access to pods or services.
 - Host IP change may impact pod networking. To resolve the issue, you need to restart the Calico pods.
- `istioctl` is not installed when you enable Istio. You can follow the Cisco Container Platform documentation to install `istioctl`.
- When upgrading Istio from the 0.8 version to the 1.0 version, the backend services stop responding and you need to manually restart them.
- Do not use `-` in the tenant name in an ACI deployment.

For example, tenant names such as `test-a` and `test-b` cause ACI overlap resources.
- A master VIP is required for a tenant cluster upgrade. Creating tenant clusters using an API without specifying a master VIP has a risk of corrupting the tenant cluster during tenant cluster upgrades.
- When you upgrade tenant clusters the Prometheus and EFK components are purged before installing the new versions. If you want to save history, a manual backup and migration is required before a tenant cluster upgrade.
- After an upgrade, the Cisco Container Platform web interface port may be different from the previous version.
- Taking a snapshot of the VMs managed by Cisco Container Platform is currently unsupported and results in failures during upgrades.
- ACI deployments are only supported in online mode.
- ACI deployments do not support Kubernetes security context.

Viewing Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the Cisco Bug Search Tool. This web-based tool enables you to access the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products. You can search for bugs using bug IDs or keywords.

Before you begin

Ensure that you have a Cisco username and password to login to the Cisco Bug Search Tool.

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

Procedure

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- Step 1** Log in to the [Cisco Bug Search Tool](#) with your Cisco username and password.
- Step 2** To search for a specific bug, enter the bug ID in the **Search For** field and press the **Enter** key.
- Step 3** To search for the bugs that belong to the current release, enter **Cisco Container Platform 1.5.0** in the **Search For** field, and then press the **Enter** key. (Leave the other fields empty.)
- Note**
- Once the search results are displayed, you can use the **Filter** options to easily find the bugs that are of interest to you.
 - You can search for bugs by status, severity, modified date, and so on.
- Step 4** To export the results to a spreadsheet, click the **Export Results to Excel** link.
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For more information on the Cisco Bug Search Tool, refer to <http://www.cisco.com/web/applicat/cbsshelp/help.html>.

Related Documentation

The following table lists the documents available for the Cisco Container Platform 1.5.0 release.

Document	Description
Cisco Container Platform Installation Guide	Provides information on installing Cisco Container Platform on your deployment environment.
Cisco Container Platform User Guide	Provides information on administering and managing Kubernetes clusters, and deploying applications on them.

These documents are available on cisco.com.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

What's New in Cisco Product Documentation lists all new and revised Cisco technical documentation. You can subscribe to it, and receive free RSS feed service directly to your desktop using a reader application.

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