OpenShift Container Platform 4.19

Release notes

Highlights of what is new and what has changed with this OpenShift Container Platform release

Table of Contents

CHAPTER 1. OPENSHIFT CONTAINER PLATFORM 4.19 RELEASE NOTES

Red Hat OpenShift Container Platform provides developers and IT organizations with a hybrid cloud application platform for deploying both new and existing applications on secure, scalable resources with minimal configuration and management. OpenShift Container Platform supports a wide selection of programming languages and frameworks, such as Java, JavaScript, Python, Ruby, and PHP.

Built on Red Hat Enterprise Linux (RHEL) and Kubernetes, OpenShift Container Platform provides a more secure and scalable multitenant operating system for today's enterprise-class applications, while delivering integrated application runtimes and libraries. OpenShift Container Platform enables organizations to meet security, privacy, compliance, and governance requirements.

1.1. ABOUT THIS RELEASE

OpenShift Container Platform (RHSA-2024:11038) is now available. This release uses Kubernetes 1.32 with CRI-O runtime. New features, changes, and known issues that pertain to OpenShift Container Platform 4.19 are included in this topic.

OpenShift Container Platform 4.19 clusters are available at https://console.redhat.com/openshift. From the Red Hat Hybrid Cloud Console, you can deploy OpenShift Container Platform clusters to either on-premises or cloud environments.

You must use RHCOS machines for the control plane and for the compute machines.

The support lifecycle for odd-numbered releases, such as OpenShift Container Platform 4.19, on all supported architectures, including **x86_64**, 64-bit ARM (**aarch64**), IBM Power® (**ppc64le**), and IBM Z® (**s390x**) architectures is 18 months. For more information about support for all versions, see the Red Hat OpenShift Container Platform Life Cycle Policy.

Commencing with the OpenShift Container Platform 4.14 release, Red Hat is simplifying the administration and management of Red Hat shipped cluster Operators with the introduction of three new life cycle classifications; Platform Aligned, Platform Agnostic, and Rolling Stream. These life cycle classifications provide additional ease and transparency for cluster administrators to understand the life cycle policies of each Operator and form cluster maintenance and upgrade plans with predictable support boundaries. For more information, see OpenShift Operator Life Cycles.

OpenShift Container Platform is designed for FIPS. When running Red Hat Enterprise Linux (RHEL) or Red Hat Enterprise Linux CoreOS (RHCOS) booted in FIPS mode, OpenShift Container Platform core components use the RHEL cryptographic libraries that have been submitted to NIST for FIPS 140-2/140-3 Validation on only the **x86_64**, **ppc64le**, and **s390x** architectures.

For more information about the NIST validation program, see Cryptographic Module Validation Program. For the latest NIST status for the individual versions of RHEL cryptographic libraries that have been submitted for validation, see Compliance Activities and Government Standards.

1.2. OPENSHIFT CONTAINER PLATFORM LAYERED AND DEPENDENT COMPONENT SUPPORT AND COMPATIBILITY

The scope of support for layered and dependent components of OpenShift Container Platform changes independently of the OpenShift Container Platform version. To determine the current support status and compatibility for an add-on, refer to its release notes. For more information, see the Red Hat OpenShift Container Platform Life Cycle Policy.

CHAPTER 2. ADDITIONAL RELEASE NOTES

Release notes for additional related components and products not included in the core OpenShift Container Platform 4.19 release notes are available in the following documentation.
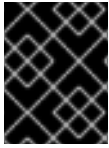
> **IMPORTANT**
>
> The following release notes are for downstream Red Hat products only; upstream or community release notes for related products are not included.

A

AWS Load Balancer Operator

B

Builds for Red Hat OpenShift

C

cert-manager Operator for Red Hat OpenShift

Cluster Observability Operator (COO)

Compliance Operator

Custom Metrics Autoscaler Operator

D

Red Hat Developer Hub Operator

E

External DNS Operator

F

File Integrity Operator

K

Kube Descheduler Operator

M

Migration Toolkit for Containers (MTC)

N

Network Observability Operator

Network-bound Disk Encryption (NBDE) Tang Server Operator

O

OpenShift API for Data Protection (OADP)

Red Hat OpenShift Dev Spaces

Red Hat OpenShift Distributed Tracing Platform

Red Hat OpenShift GitOps

Red Hat OpenShift Local (Upstream CRC documentation)

Red Hat OpenShift Pipelines