Legal Notice

Copyright © 2023 Red Hat, Inc.

The text of and illustrations in this document are licensed by Red Hat under a Creative Commons Attribution–Share Alike 3.0 Unported license ("CC-BY-SA"). An explanation of CC-BY-SA is available at http://creativecommons.org/licenses/by-sa/3.0/. In accordance with CC-BY-SA, if you distribute this document or an adaptation of it, you must provide the URL for the original version.

Red Hat, as the licensor of this document, waives the right to enforce, and agrees not to assert, Section 4d of CC-BY-SA to the fullest extent permitted by applicable law.

Red Hat, Red Hat Enterprise Linux, the Shadowman logo, the Red Hat logo, JBoss, OpenShift, Fedora, the Infinity logo, and RHCE are trademarks of Red Hat, Inc., registered in the United States and other countries.

Linux® is the registered trademark of Linus Torvalds in the United States and other countries.

Java® is a registered trademark of Oracle and/or its affiliates.

XFS® is a trademark of Silicon Graphics International Corp. or its subsidiaries in the United States and/or other countries.

MySQL® is a registered trademark of MySQL AB in the United States, the European Union and other countries.

Node.js® is an official trademark of Joyent. Red Hat is not formally related to or endorsed by the official Joyent Node.js open source or commercial project.

The OpenStack® Word Mark and OpenStack logo are either registered trademarks/service marks or trademarks/service marks of the OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation’s permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation, or the OpenStack community.

All other trademarks are the property of their respective owners.

Abstract

The release notes summarize all new features and enhancements, notable technical changes, major corrections from the previous version, and any known bugs upon general availability.
# Table of Contents

PREFACE ................................................................. 3

CHAPTER 1. WORKLOAD AVAILABILITY FOR RED HAT OPENSIFT 23.3 RELEASE NOTES ................... 4
   1.1. NEW FEATURES AND ENHANCEMENTS .......................... 4
   1.2. DEPRECATED AND REMOVED FEATURES ....................... 4
   1.3. BUG FIXES ..................................................... 4
   1.4. TECHNOLOGY PREVIEW FEATURES ........................... 5
   1.5. KNOWN ISSUES ................................................. 6
CHAPTER 1. WORKLOAD AVAILABILITY FOR RED HAT OPENSHIFT 23.3 RELEASE NOTES

Workload Availability for Red Hat OpenShift version 23.3 is now available.

1.1. NEW FEATURES AND ENHANCEMENTS

This release adds improvements related to the following components and concepts.

- Fence Agents Remediation (FAR) Operator introduced in Workload Availability for Red Hat OpenShift version 23.3.
  - You can use the Fence Agents Remediation Operator, with the Node Health Check Operator, to provide high availability for nodes in an automatic manner. Using a management interface or traditional API, this Operator runs a fence-agent to remediate a node from an unhealthy state by power-cycling the node.

  - You can use the Machine Deletion Remediation Operator to reprovision unhealthy nodes using the Machine API. You can use the Machine Deletion Remediation Operator in conjunction with the Node Health Check Operator.

- For more information on these Operators, see the Workload Availability for Red Hat OpenShift documentation.

1.2. DEPRECATED AND REMOVED FEATURES

No features were deprecated and/or removed in this release.

1.3. BUG FIXES

- Node Health Check (NHC) is configured to run on control plane nodes only. (ECOPROJECT-1240)
  - **Cause:** NHC operator’s node affinity was configured to run on control plane nodes only.
  - **Consequence:** NHC did not run on hypershift clusters, which do not have control plane nodes.
  - **Fix:** Node affinity was changed to prefer, but not require, infra nodes and control plane nodes, in that order.
  - **Result:** NHC deployed on worker nodes, when no infra or control plane nodes are available.

- Node Health Check (NHC) fails to create a new remediation CR for the second unhealthy control plane node. (ECOPROJECT-1468)
  - **Cause:** In some situations, NHC missed that remediation custom resources were deleted.
**Consequence:** When remediating multiple control plane nodes, NHC worked on remediating the first unhealthy node, and did not start working on the next unhealthy node after the first node got healthy.

**Fix:** NHC now watches remediation custom resources correctly.

**Result:** Control plane nodes are remediaged one after another.

**Node Health Check (NHC) ignores other unhealthy conditions once the type and status of an unhealthy condition matches.** ([ECOPROJECT-1487](#))

**Cause:** NHC incorrectly processed the unhealthy conditions.

**Consequence:** When an unhealthy condition’s type and status matched, but the duration had not yet expired, NHC did not check further unhealthy conditions, and potentially remediaged nodes later than expected.

**Fix:** NHC now processes all unhealthy conditions.

**Result:** Remediation always starts when expected.

**Node Health Check (NHC) indicates that there is no ongoing remediation even though Self Node Remediation (SNR) still exists.** ([ECOPROJECT-1486](#))

**Cause:** NHC considered nodes as healthy as soon as the unhealthy conditions did not match anymore. However, remediators often need to cleanup afterwards, for example, uncordonning the node.

**Consequence:** NHC starts new remediations too early and potentially violates the minHealthy configuration, for example, while recovered nodes are still unschedulable.

**Fix:** NHC now considers nodes as healthy only when remediators finished their clean up, by watching for remediation CR deletion after finalizers are removed.

**Result:** NHC correctly processes the minHealthy configuration.

**Node Health Check (NHC) is missing related image.** ([ECOPROJECT-1501](#))

**Cause:** NHC has an incomplete deployment configuration.

**Consequence:** When mirroring the Node Health Check operator to disconnected environments, the must gather image wasn’t mirrored.

**Fix:** Added the must gather image to the ClusterServiceVersion’s relatedImages list.

**Result:** The must gather image is now also mirrored when NHC is mirrored. Note that also means that the must gather image is not mirrored when installing the Node Maintenance Operator or the Self Node Remediation Operator without NHC.

### 1.4. TECHNOLOGY PREVIEW FEATURES

There are no new technology preview features in this release.
1.5. KNOWN ISSUES

No known issues were identified in this release.