Red Hat CodeReady Containers 1.10 Release Notes and Known Issues

Highlighted features and identified problems in CodeReady Containers 1.10

Kevin Owen
kowen@redhat.com
Abstract

This document lists and briefly describes new and improved features of CodeReady Containers 1.10. It also contains information about potential problems you may encounter while using the software. Where possible, workarounds are described for identified issues.
# Table of Contents

## PART I. RELEASE NOTES

### CHAPTER 1. COMPONENT VERSIONS 4

### CHAPTER 2. CHANGES AND IMPROVEMENTS 5

#### 2.1. NEW FEATURES 5

#### 2.1.1. Technology Previews 5

#### 2.2. NOTABLE CHANGES 5

## PART II. KNOWN ISSUES 6

### CHAPTER 3. GENERAL ISSUES 7

#### 3.1. EMBEDDED CERTIFICATES EXPIRE AFTER 30 DAYS 7

#### 3.2. METRICS ARE DISABLED BY DEFAULT 7

#### 3.3. HANG ON STARTUP WITH AN AMD RYZEN 3000 SERIES CPU 7

#### 3.4. ENABLING MULTIPLE OPERATORS REQUIRES MORE MEMORY THAN THE DEFAULT 7

### CHAPTER 4. ISSUES ON MACOS 8

#### 4.1. HIBERNATION CAUSES VM TIME TO DESYNCHRONIZE 8

### CHAPTER 5. ISSUES ON MICROSOFT WINDOWS 9

#### 5.1. UNEXPECTED BEHAVIOR WHEN RUN OUTSIDE OF %WINDRIVE% 9

#### 5.2. CODEREADY CONTAINERS EXPECTS FULL LANGUAGE SUPPORT IN POWERSHELL 9

## ADDITIONAL RESOURCES
PART I. RELEASE NOTES
This section documents the most important features and bug fixes in the CodeReady Containers 1.10 product.
CHAPTER 1. COMPONENT VERSIONS

CodeReady Containers 1.10 is shipped with the following versions of the main components:

Table 1.1. CodeReady Containers, Component versions

<table>
<thead>
<tr>
<th>Component</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenShift Container Platform</td>
<td>4.4.3</td>
</tr>
<tr>
<td>OpenShift client binary (oc)</td>
<td>v4.5.0</td>
</tr>
</tbody>
</table>
CHAPTER 2. CHANGES AND IMPROVEMENTS

This section highlights some of the notable changes introduced in CodeReady Containers 1.10.

2.1. NEW FEATURES

- CodeReady Containers brings a minimal, preconfigured OpenShift Container Platform 4 cluster to your local laptop or desktop computer for development and testing purposes. CodeReady Containers is delivered as a Red Hat Enterprise Linux virtual machine that supports native hypervisors for Linux, macOS, and Microsoft Windows 10.
  - CodeReady Containers is designed for local development and testing on an OpenShift 4 cluster. To run an OpenShift 3 cluster locally, see Red Hat Container Development Kit.

2.1.1. Technology Previews

Support for these features falls under the Technology Preview Features Support Scope.

- An experimental system tray is included in this release of CodeReady Containers for macOS. To enable the system tray, run the `crc setup` command with the `--enable-experimental-features` flag:

  ```
  $ crc setup --enable-experimental-features
  ```

  To remove the system tray, run the `crc cleanup` command:

  ```
  $ crc cleanup
  ```

2.2. NOTABLE CHANGES

- CodeReady Containers 1.10 provides OpenShift Container Platform 4.4.3 as the embedded OpenShift version.

- The minimum required memory to run CodeReady Containers 1.10 has increased to 9 GiB from 8 GiB. If you configured your CodeReady Containers virtual machine to use more memory than the default, consider adding an additional 1024 MiB of memory with the `crc config set memory` command. For more information about assigning additional memory, see Configuring the virtual machine in the Red Hat CodeReady Containers Getting Started Guide.
PART II. KNOWN ISSUES

This section describes issues that users of CodeReady Containers 1.10 may encounter, as well as possible workarounds for these issues.
CHAPTER 3. GENERAL ISSUES

Issues affecting all supported platforms.

3.1. EMBEDDED CERTIFICATES EXPIRE AFTER 30 DAYS

Each released crc binary includes an embedded system bundle that expires 30 days after the release due to certificates embedded in the OpenShift cluster.

Certificate recovery is automatic, but will add approximately three minutes to the start time of the CodeReady Containers virtual machine.

3.2. METRICS ARE DISABLED BY DEFAULT

To ensure CodeReady Containers can run on a typical laptop, some resource-heavy services are disabled by default. One of these services is Prometheus and all of the related monitoring, alerting, and telemetry functionality.

Enabling these features will require more resources than the CodeReady Containers virtual machine uses by default.

3.3. HANG ON STARTUP WITH AN AMD RYZEN 3000 SERIES CPU

The CodeReady Containers virtual machine may hang on startup via the crc start command due to a hardware bug.

To resolve this issue, install the latest BIOS update for your motherboard.

3.4. ENABLING MULTIPLE OPERATORS REQUIRES MORE MEMORY THAN THE DEFAULT

The crc start command assigns 9 GiB of memory to the CodeReady Containers virtual machine by default. Enabling multiple Operators may increase memory requirements.

See Configuring the virtual machine in the Red Hat CodeReady Containers Getting Started Guide to assign additional memory.
CHAPTER 4. ISSUES ON MACOS

This section describes CodeReady Containers issues that affect users on a macOS host.

4.1. HIBERNATION CAUSES VM TIME TO DESYNCHRONIZE

Time in the CodeReady Containers virtual machine can become desynchronized with the time on your host machine. This issue occurs if the CodeReady Containers virtual machine is running when the host machine enters hibernation. To resolve this issue, stop the CodeReady Containers virtual machine and restart it:

$ crc stop
$ crc start
CHAPTER 5. ISSUES ON MICROSOFT WINDOWS

This section describes CodeReady Containers issues that affect users on a Microsoft Windows host.

5.1. UNEXPECTED BEHAVIOR WHEN RUN OUTSIDE OF %WINDRIVE%

The Hyper-V driver will fail when the crc binary is executed from a network drive. The crc binary must be placed in a location on %WINDRIVE%. %WINDRIVE% is normally set to C:\.

5.2. CODEREADY CONTAINERS EXPECTS FULLLANGUAGE SUPPORT IN POWERSHELL

The ConstrainedLanguage PowerShell mode is supported with exceptions determined by your system administrator.

ADDITIONAL RESOURCES

- See the Red Hat CodeReady Containers Getting Started Guide for an overview of CodeReady Containers features and an introduction to the use of OpenShift Container Platform.

- Report issues with CodeReady Containers or request new features using the OpenShift Container Platform product with the crc component on Red Hat BugZilla.