



# Red Hat CodeReady Containers 1.6

## Release Notes and Known Issues

Highlighted features and identified problems in CodeReady Containers 1.6



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## Abstract

This document lists and briefly describes new and improved features of CodeReady Containers 1.6. It also contains information about potential problems you may encounter while using the software. Where possible, workarounds are described for identified issues.

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## PART I. RELEASE NOTES

This section documents the most important features and bug fixes in the CodeReady Containers 1.6 product.

## CHAPTER 1. COMPONENT VERSIONS

CodeReady Containers 1.6 is shipped with the following versions of the main components:

**Table 1.1. CodeReady Containers, Component versions**

Component	Version
OpenShift Container Platform	4.3.0
OpenShift client binary ( <b>oc</b> )	v4.4.0



## CHAPTER 2. CHANGES AND IMPROVEMENTS

This section highlights some of the notable changes introduced in CodeReady Containers 1.6.

### 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
```

#### 2.1.2. Usability improvements

- CodeReady Containers offers experimental support for running the **crc** binary behind a proxy.

### 2.2. NOTABLE CHANGES

- CodeReady Containers 1.6 provides OpenShift Container Platform 4.3.0 as the embedded OpenShift version.
- The **--vm-driver** flag has been removed. CodeReady Containers only supports native hypervisors.

## PART II. KNOWN ISSUES

This section describes issues that users of CodeReady Containers 1.6 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.

## CHAPTER 4. ISSUES ON MACOS

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

### 4.1. THE EXPERIMENTAL SYSTEM TRAY MUST BE MANUALLY UNINSTALLED

To remove the system tray:

1. Unload the launched scripts:

```
$ launchctl unload ~/Library/LaunchAgents/crc.daemon.plist  
$ launchctl unload ~/Library/LaunchAgents/crc.tray.plist
```

2. Delete the launched scripts:

```
$ rm ~/Library/LaunchAgents/crc.daemon.plist  
$ rm ~/Library/LaunchAgents/crc.tray.plist
```

## 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 FULL LANGUAGE 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](#).