Red Hat CodeReady Workspaces 2.15 Release Notes and Known Issues

Release Notes and Known Issues for Red Hat CodeReady Workspaces 2.15

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Abstract

Information about new and noteworthy features as well as known issues in Red Hat CodeReady Workspaces 2.15.
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MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see our CTO Chris Wright’s message.
CHAPTER 1. ABOUT RED HAT CODEREADY WORKSPACES

Red Hat CodeReady Workspaces is a web-based integrated development environment (IDE). CodeReady Workspaces runs in OpenShift and is well-suited for container-based development.

CodeReady Workspaces provides:

- an enterprise-level cloud developer workspace server
- a browser-based IDE
- ready-to-use developer stacks for popular programming languages, frameworks, and Red Hat technologies

Red Hat CodeReady Workspaces 2.15 is based on Eclipse Che 7.42.

1.1. SUPPORTED DEPLOYMENT ENVIRONMENTS

This section describes the availability and the supported installation methods of CodeReady Workspaces 2.15 on OpenShift Container Platform 4.9, 4.8, 3.11, and OpenShift Dedicated.

Table 1.1. Supported deployment environments for CodeReady Workspaces 2.15 on OpenShift Container Platform and OpenShift Dedicated

<table>
<thead>
<tr>
<th>Platform</th>
<th>Architecture</th>
<th>Deployment method</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenShift Container Platform 3.11</td>
<td>AMD64 and Intel 64 (x86_64)</td>
<td>crwctl</td>
</tr>
<tr>
<td>OpenShift Container Platform 4.8</td>
<td>AMD64 and Intel 64 (x86_64)</td>
<td>OperatorHub, crwctl</td>
</tr>
<tr>
<td>OpenShift Container Platform 4.8</td>
<td>IBM Z (s390x)</td>
<td>OperatorHub, crwctl</td>
</tr>
<tr>
<td>OpenShift Container Platform 4.8</td>
<td>IBM Power (ppc64le)</td>
<td>OperatorHub, crwctl</td>
</tr>
<tr>
<td>OpenShift Container Platform 4.9</td>
<td>AMD64 and Intel 64 (x86_64)</td>
<td>OperatorHub, crwctl</td>
</tr>
<tr>
<td>OpenShift Container Platform 4.9</td>
<td>IBM Z (s390x)</td>
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<td>OpenShift Container Platform 4.9</td>
<td>IBM Power (ppc64le)</td>
<td>OperatorHub, crwctl</td>
</tr>
<tr>
<td>OpenShift Dedicated 4.9</td>
<td>AMD64 and Intel 64 (x86_64)</td>
<td>Add-on service</td>
</tr>
<tr>
<td>Red Hat OpenShift Service on AWS (ROSA)</td>
<td>AMD64 and Intel 64 (x86_64)</td>
<td>Add-on service</td>
</tr>
</tbody>
</table>
1.2. SUPPORT POLICY

For Red Hat CodeReady Workspaces 2.15, Red Hat will provide support for deployment, configuration, and use of the product.

CodeReady Workspaces 2.15 has been tested on Chrome version 94.0.4606.81 (Official Build) (64-bit).

1.3. DIFFERENCES BETWEEN ECLIPSE CHE AND RED HAT CODEREADY WORKSPACES

The main differences between CodeReady Workspaces and Eclipse Che are:

- CodeReady Workspaces is built on RHEL8 to ensure the latest security fixes are included, compared to Alpine distributions that take a longer time to update.
- CodeReady Workspaces uses Red Hat Single Sign-On (RH-SSO) rather than the upstream project Keycloak.
- CodeReady Workspaces provides a smaller supported subset of plug-ins compared to Che.
- CodeReady Workspaces provides devfiles for working with other Red Hat technologies such as EAP and Fuse.
- CodeReady Workspaces is supported on OpenShift Container Platform and OpenShift Dedicated; Eclipse Che can run on other Kubernetes clusters.

Red Hat provides licensing, packaging, and support. Therefore, CodeReady Workspaces is considered a more stable product than the upstream Eclipse Che project.
CHAPTER 2. NOTABLE ENHANCEMENTS

2.1. IntelliJ IDEA Community Edition Sample

With this update, a sample is available in the CodeReady Workspaces dashboard for starting a new workspace with IntelliJ IDEA Community Edition in it.

IMPORTANT

The IntelliJ IDEA Community Edition sample is a Technology Preview feature only. Technology Preview features are not supported with Red Hat production service level agreements (SLAs) and might not be functionally complete. Red Hat does not recommend using them in production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process. For more information about the support scope of Red Hat Technology Preview features, see https://access.redhat.com/support/offerings/techpreview/.

Additional resources

- CRW-2276

2.2. CodeReady Workspaces with the DevWorkspace Operator Supports Git LFS

With this update, Git Large File Storage (LFS) is enabled with the DevWorkspace Operator 0.12 or later. The LFS is enabled when you create the workspace by using a devfile to point to a Git repository or when you manually clone a Git repository inside the workspace. To install a CodeReady Workspaces instance with the DevWorkspace Operator, use the Red Hat CodeReady Workspaces - Technical Preview Operator in the OperatorHub.

Additional resources

- CRW-2377

2.3. Code Samples Implement the Devfile V2 Specification

Before this update, code samples implemented the devfile v1 specification. With this update, code samples are implementing the devfile v2 specification.

Additional resources

- CRW-2539

2.4. Upgrade of the Language Support for Apache Camel Extension for Visual Studio Code

Language Support for Apache Camel by Red Hat, the Visual Studio Code extension that adds Apache Camel language support for XML DSL and Java DSL code, is upgraded to 0.1.3.
2.5. IMPROVED PERFORMANCE OF THE JAVA AND QUARKUS EXTENSIONS FOR VISUAL STUDIO CODE

This enhancement improves the startup and runtime performance of the Java and Quarkus extensions for Visual Studio Code in workspaces that load Che-Theia with these extensions. The improved performance is achieved by increasing the CPU limit from 500 MB to 800 MB.

Additional resources

- CRW-2589

2.6. TECH-PREVIEW SAMPLES IN THE DASHBOARD

With this update, Technology Preview samples in the dashboard are now labelled with Tech-Preview to differentiate them from the samples that have full Red Hat support.

**IMPORTANT**

Tech-Preview samples are Technology Preview features only. Technology Preview features are not supported with Red Hat production service level agreements (SLAs) and might not be functionally complete. Red Hat does not recommend using them in production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process. For more information about the support scope of Red Hat Technology Preview features, see https://access.redhat.com/support/offerings/techpreview/.

Additional resources

- CRW-2634

2.7. REMOVAL OF THE CRWCTL WORKSPACE: AND CRWCTL AUTH: COMMANDS

In CodeReady Workspaces 2.15, the crwctl workspace: and crwctl auth: commands are removed. You can use the CodeReady Workspaces dashboard instead. Bug fixes and support are provided through the end of the CodeReady Workspaces 2.14 life cycle. After which, no new feature enhancements are made.

Additional resources

- CRW-2719
CHAPTER 3. BUG FIXES

3.1. CODEREADY WORKSPACES WITH THE CODEREADY WORKSPACES SERVER ENGINE AND GITHUB OAUTH SUCCESSFULLY STARTS DEVFILE V2 WORKSPACES

Before this update, when a CodeReady Workspaces instance was configured with the CodeReady Workspaces server engine and GitHub OAuth, CodeReady Workspaces failed to start a workspace using the devfile v2 specification. With this update, a CodeReady Workspaces instance configured with the CodeReady Workspaces server engine and GitHub OAuth successfully starts a workspace using the devfile v2 specification.

Additional resources

- CRW-2705
CHAPTER 4. KNOWN ISSUES

4.1. DEBUGGING CANNOT BE ACTIVATED IN GO WORKSPACES ON IBM Z AND IBM POWER

On IBM Z and IBM Power, the debugging features cannot be activated in the Go workspace in CodeReady Workspaces 2.15. Delve, the required debugger for the Go programming language, is not available for these platforms. An attempt to activate this feature results in the Failed to continue error message. This issue has no workaround.

Additional resources

- CRW-1349

4.2. LANGUAGE SERVER FEATURES ARE NOT PREINSTALLED IN GO WORKSPACES

Golang based workspaces do not include basic language server features such as code autocompletion.

Workaround

1. Run the CodeReady Workspaces instance in a non-restricted environment.
2. Install the required module by using the Install button in the IDE dialog box.

Additional resources

- CRW-1521

4.3. MISLEADING ERROR MESSAGE FOR A WORKSPACE FAILURE CAUSED BY THE MKDIR POD TIMEOUT

A lack of OpenShift Container Platform cluster resources causes a failure. This failure causes a misleading message: Your session has expired. Please, log in to CodeReady Workspaces again to get access to your OpenShift account.

Workaround

- Provide more resources to the OpenShift Container Platform cluster.

Additional resources

- CRW-1767

4.4. ATTEMPTS TO CLONE A WORKSPACE FROM A QUICK ADD SAMPLE RESULT IN AN ERROR UNDER THE SINGLE-HOST STRATEGY

When using the single-host strategy for workspace exposure, attempting to clone a workspace from a Quick Add sample results in an error. There is currently no workaround for this issue.
4.5. THE CRWCTL BINARIES ARE NOT SUPPORTED ON IBM Z AND IBM POWER

Currently, the crwctl binaries do not run on IBM Z and IBM Power. These platforms are available as targets for deploying CodeReady Workspaces.

Workaround

- Run crwctl from a supported platform.

4.6. WORKSPACE CREATION FAILS ON UNSTABLE NETWORKS

CodeReady Workspaces might fail to create a workspace when the network is unstable. CodeReady Workspaces displays an error such as the following: Failed to run the workspace: "Waiting for pod 'workspace9fbid1gnx7273d47.maven-545f8c9cf4-hw79f' was interrupted." This issue has no workaround.

4.7. UNSUPPORTED DEVFILES ON IBM Z AND IBM POWER

The following devfiles are not supported on IBM Z and IBM Power:

- EAP for OpenJDK 8
- .Net
- Fuse
- Apache Camel K by Red Hat

Workaround

- Do not use unsupported languages on IBM Z and IBM Power.

4.8. ERROR MESSAGE ASKING THE USER TO LOG IN AGAIN AT WORKSPACE STARTUP
When starting a workspace, users might receive the following error message: Your session has expired. Please login to Che again to get access to your OpenShift account.

Workaround

- Log in again.

Additional resources

- CRW-2018

**4.9. NO DELEGATECOMMANDHANDLER ERROR FOR JAVA WITH THE JBOSS EAP 7.3 DEVFILE**

A workspace using Java with the JBoss EAP 7.3 devfile fails with the following error message: No delegateCommandHandler for vscode.java.startDebugSession. There is no workaround for this issue.

Additional resources

- CRW-2067

**4.10. NO DISPLAY FOR A TASK AFTER A NETWORKING ISSUE**

When a task is running and there is some networking issue, the terminal window is cleared and contains no text. Even when the connection is restored, the terminal remains empty and loading. There is no workaround for this issue.

Additional resources

- CRW-2070

**4.11. THE OPENSHIFT CONNECTOR PLUG-IN FAILS TO DEPLOY AN APPLICATION IN A RESTRICTED ENVIRONMENT**

The OpenShift Connector plug-in fails to deploy because of the inability to access the odo image in the disconnected environment. There is no workaround for this issue.

Additional resources

- CRW-2071

**4.12. THE DEBUG CONFIGURATION IS MISSING**

The DEBUG panel displays No Configurations in the drop-down list because no configurations are loaded.

Workaround

- Refresh the page to display the debug configurations.
Additional resources

- CRW-2078

4.13. NAMESPACE RESTRICTION FOR OPENSHIFT DEDICATED AND ROSA

Currently, there is a restriction for OpenShift Dedicated and ROSA: CodeReady Workspaces must not be deployed to the `openshift-workspaces` namespace.

Workaround

- Use another namespace when deploying CodeReady Workspaces on OpenShift Dedicated and ROSA.

Additional resources

- CRW-2235

4.14. THE OPENSHIFT CONNECTOR PLUG-IN DOES NOT ALLOW THE CREATION OF A NEW COMPONENT ON IBM POWER

On IBM Power, the list of supported image streams is missing, which causes component creation to fail. There is currently no workaround for this issue.

Additional resources

- CRW-2255

4.15. TECHNOLOGY PREVIEW FOR DEPLOYING CODEREADY WORKSPACES 2.15 WITH THE DEV WORKSPACE ENGINE

Support for deploying CodeReady Workspaces 2.15 with the Dev Workspace engine is available as a Technology Preview feature for OpenShift Container Platform 4.8. Technology Preview features are not supported with Red Hat production service level agreements (SLAs) and might not fully function. Red Hat does not suggest using them in production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process.

Known limitations

- When deploying CodeReady Workspaces in a restricted environment, workspaces fail to start because proxy and untrusted TLS certificates are not supported.
- The GitHub and GitLab OAuth flows to automatically configure user accounts are not supported.
- Clusters with a network policy that isolates namespaces networks are not supported.
- Upgrading a CodeReady Workspaces instance with the Dev Workspace engine enabled requires manual steps.
4.16. UPGRADING A CODEREADY WORKSPACES INSTANCE WITH THE DEV WORKSPACE ENGINE ENABLED REQUIRES MANUAL STEPS

Currently, upgrading a CodeReady Workspaces instance with the Dev Workspace engine enabled requires the following manual steps as a workaround:

Workaround

1. Unsubscribe the CodeReady Workspaces Operator from the latest channel.
2. Remove the Dev Workspace Controller namespace.
3. Subscribe the CodeReady Workspaces Operator to the tech-preview-latest-all-namespaces channel.

Support for deploying CodeReady Workspaces 2.15 with the Dev Workspace engine is available as a Technology Preview feature for OpenShift Container Platform 4.8. Technology Preview features are not supported with Red Hat production service level agreements (SLAs) and might not fully function. Red Hat does not suggest using them in production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process.

Additional resources

- CRW-2357

4.17. THE IMAGE PULLER DOES NOT WORK WITH THE TECH-PREVIEW-LATEST-ALL-NAMESPACES CHANNEL

Currently, when using OperatorHub to install CodeReady Workspaces with the Dev Workspace engine, you cannot enable the Image Puller. The Image Puller currently does not work with the tech-preview-latest-all-namespaces channel.

Workaround

- Fetch the standalone CodeReady Workspaces imagepuller-rhel8 image and use it manually to perform image pulls across the cluster.

Additional resources

- CRW-2441

4.18. THE COMMAND CONFIGURE APACHE WEB SERVER DOCUMENTROOT DOES NOT WORK IN THE CAKE-PHP SAMPLE PROJECT ON IBM POWER

When using the Cake-php sample, the Configure Apache Web Server DocumentRoots task fails with the following error:
There is currently no workaround for this issue.

Additional resources

- CRW-2452

### 4.19. GIT REPOSITORY CLONING FAILS IN WORKSPACES WITH THE TECH-PREVIEW QUARKUS SAMPLE

Currently, workspaces started with the Tech-Preview Quarkus sample fail to connect to GitHub and clone Git repositories in a restricted environment. There is currently no workaround for this issue.

**IMPORTANT**

Tech-Preview samples are Technology Preview features only. Technology Preview features are not supported with Red Hat production service level agreements (SLAs) and might not be functionally complete. Red Hat does not recommend using them in production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process. For more information about the support scope of Red Hat Technology Preview features, see [https://access.redhat.com/support/offerings/techpreview/](https://access.redhat.com/support/offerings/techpreview/).

Additional resources

- CRW-2473

### 4.20. WORKSPACES CANNOT BE STARTED USING DEVFILE V2 ON IBM Z AND IBM POWER

There is currently a known issue with Red Hat CodeReady Workspaces with the DevWorkspace engine enabled on IBM Z and IBM Power. Red Hat CodeReady Workspaces fails to start workspaces from Git source repositories that contain a devfile v2. This affects the samples provided in [https://github.com/che-samples/](https://github.com/che-samples/). There is currently no workaround for this issue.

Additional resources

- CRW-2489

### 4.21. CODEREADY WORKSPACES WITH DEV WORKSPACE MAY FAIL TO START ON OPENSIFT CONTAINER PLATFORM 4.10

Currently, CodeReady Workspaces with Dev Workspace might fail to start on OpenShift Container Platform 4.10. There is currently no workaround for this issue.

Additional resources

- CRW-2652

### 4.22. EMPTY PAGE AFTER THE USER SESSION EXPIRES
Currently, a CodeReady Workspaces instance might display an empty page after the user session expires. There is currently no workaround for this issue.

**Additional resources**

- CRW-2690

### 4.23. EMPTY DASHBOARD AFTER A SERVER ERROR

Currently, the dashboard of a CodeReady Workspaces instance might display an empty page after a server error. There is currently no workaround for this issue.

**Additional resources**

- CRW-2727

### 4.24. AUTOMATIC UPGRADES MIGHT FAIL ON VERSIONS OF OPENSIFHT THAT ARE EARLIER THAN 4.9

When CodeReady Workspaces runs on a version of OpenShift that is earlier than 4.9, automatic upgrade might fail.

**Workaround**

- Disable automatic upgrades and manually upgrade your subscription after updating your OCP version to the latest of latest EUS version.

**Additional resources**

- CRW-2728

### 4.25. MAVEN_OPTS ENVIRONMENT VARIABLE IN RED HAT FUSE

Currently, there is a known issue with the Red Hat Fuse devfile: command execution overrides the default MAVEN_OPTS environment variable.

**Workaround**

- Edit the devfile as follows: go to commands: > name: 1. Build > command: and remove MAVEN_OPTS='"-Xmx200m" &&.

**Additional resources**

- CRW-2752
CHAPTER 5. FREQUENTLY ASKED QUESTIONS

Is it possible to deploy applications to an OpenShift cluster from CodeReady Workspaces?
Yes. The user must log in to the OpenShift cluster from their running workspace using `oc login`.

For best performance, what is the recommended storage to use for Persistent Volumes used with CodeReady Workspaces?
Use block storage.

Is it possible to deploy more than one CodeReady Workspaces instance on the same cluster?
It is not recommended. This feature is subject to removal in a future release.

Is it possible to install CodeReady Workspaces offline (that is, disconnected from the internet)?
Yes. See Installing CodeReady Workspaces in restricted environments.

Is it possible to use non-default certificates with CodeReady Workspaces?
Yes, you can use self-signed or public certificates. See Importing untrusted TLS certificates.

Is it possible to run multiple workspaces simultaneously?
Yes. See Configuring the number of workspaces that a user can run.

What specific changes have been implemented for IBM Power Systems?
The memory limit for some plug-ins has been increased, to give Pods sufficient RAM to run.

Table 5.1. Example memory limits differences between IBM Power System and other architectures

<table>
<thead>
<tr>
<th>Plug-in</th>
<th>IBM Power System</th>
<th>Other architectures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Che-Theia editor</td>
<td>2G</td>
<td>512M</td>
</tr>
<tr>
<td>OpenShift connector</td>
<td>2.5G</td>
<td>1.5G</td>
</tr>
</tbody>
</table>