



Red Hat CodeReady Workspaces 2.14

Release Notes and Known Issues

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Abstract

Information about new and noteworthy features as well as known issues in Red Hat CodeReady Workspaces 2.14.

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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 2.14 is based on Eclipse Che 7.40.

1.1. SUPPORTED DEPLOYMENT ENVIRONMENTS

This section describes the availability and the supported installation methods of CodeReady Workspaces 2.14 on OpenShift Container Platform 4.9 4.8, 3.11, and OpenShift Dedicated.

Table 1.1. Supported deployment environments for CodeReady Workspaces 2.14 on OpenShift Container Platform and OpenShift Dedicated

Platform	Architecture	Deployment method
OpenShift Container Platform 3.11	AMD64 and Intel 64 (x86_64)	crwctl
OpenShift Container Platform 4.8	AMD64 and Intel 64 (x86_64)	OperatorHub, crwctl
OpenShift Container Platform 4.8	IBM Z (s390x)	OperatorHub, crwctl
OpenShift Container Platform 4.8	IBM Power Systems (ppc64le)	OperatorHub, crwctl
OpenShift Container Platform 4.9	AMD64 and Intel 64 (x86_64)	OperatorHub, crwctl
OpenShift Container Platform 4.9	IBM Z (s390x)	OperatorHub, crwctl
OpenShift Container Platform 4.9	IBM Power Systems (ppc64le)	OperatorHub, crwctl
OpenShift Dedicated 4.9	AMD64 and Intel 64 (x86_64)	Add-on service
Red Hat OpenShift Service on AWS (ROSA)	AMD64 and Intel 64 (x86_64)	Add-on service

Additional resources

- [Installing CodeReady Workspaces from Operator Hub on OpenShift 4.9](#) .
- [Installing CodeReady Workspaces on OpenShift Container Platform 3.11](#) .

1.2. SUPPORT POLICY

For Red Hat CodeReady Workspaces 2.14, Red Hat will provide support for deployment, configuration, and use of the product.

CodeReady Workspaces 2.14 has been tested on Chrome version 94.0.4606.81 (Official Build) (64-bit).

Additional resources

- [CodeReady Workspaces life-cycle and support policy](#) .

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. NODE.JS 10 LANGUAGE SERVER IS REMOVED FROM THE NODE SIDECAR

This update removes the Node.js 10 language server from the [Node sidecar](#), as the sidecar currently supports Node.js 12.

Additional resources

- [CRW-2528](#)

2.2. THE DEVFILE-CONVERTER LIBRARY PACKAGE IS PUBLISHED ON NPM

With this update, the **devfile-converter** library is published as a [package](#) on npmjs.com. This new library enables devfile conversion from version 1 to version 2 (and vice versa). It can be included in any Node.js project that requires it.

Additional resources

- [CRW-2547](#)

2.3. NEW DATABASE.PVCCLAIMSIZE FIELD IN THE CHECLUSTER CR

With this update, the **CheCluster** custom resource gains the **database.pvcClaimSize** field. Using this new field, CodeReady Workspaces administrators can enter a custom value for the size of the database persistent volume to align it with the storage size supported by a public cloud provider.

Additional resources

- [CRW-2548](#)

2.4. IMPROVED MEMORY CONSUMPTION OF THE CODEREADY WORKSPACES OPERATOR

This enhancement improves memory consumption of the CodeReady Workspaces Operator in a Kubernetes cluster with many namespaces.

Additional resources

- [CRW-2549](#)

2.5. NEW NAVIGATION LINK TO THE OPENSIFT CONTAINER PLATFORM WEB CONSOLE

This enhancement improves the user experience for CodeReady Workspaces administrators. A CodeReady Workspaces administrator can now open the OpenShift Container Platform web console from the CodeReady Workspaces dashboard by clicking a link accessible through the CodeReady Workspaces dashboard menu.

Additional resources

- [CRW-2554](#)

2.6. FULL SUPPORT FOR CODEREADY WORKSPACES ON IBM Z AND LINUXONE

With this update, support for deploying CodeReady Workspaces on OpenShift Container Platform on IBM Z and LinuxONE is no longer a Technology Preview feature. CodeReady Workspaces 2.14 is now fully supported on the IBM Z and LinuxONE infrastructure.

Additional resources

- [CRW-2636](#)

CHAPTER 3. BUG FIXES

CHAPTER 4. KNOWN ISSUES

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

On IBM Z and IBM Power Systems, the debugging features cannot be activated in the Go workspace in CodeReady Workspaces 2.14. 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.

Additional resources

- [CRW-1851](#)

4.5. CRWCTL BINARIES ARE NOT SUPPORTED ON IBM Z AND IBM POWER SYSTEMS

The **crwctl** binaries do not run on IBM Z and IBM Power Systems. These platforms are available as targets for deploying CodeReady Workspaces.

Workaround

- Run **crwctl** from a supported platform.

Additional resources

- [CRW-1864](#)

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.

Additional resources

- [CRW-1888](#)

4.7. UNSUPPORTED DEVFILES ON IBM Z AND IBM POWER SYSTEMS

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

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

Workaround

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

Additional resources

- [CRW-1896](#)

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 OPENSIFT 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 OPENSIFT DEDICATED AND ROSA

Don't deploy CodeReady Workspaces to the **openshift-workspaces** namespace on OpenShift Dedicated and ROSA.

Workaround

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

Additional resources

- [CRW-2235](#)

4.14. UPSTREAM SAMPLE DEVFILES ARE NOT SUPPORTED

Upstream sample devfiles are designed for Eclipse Che. CodeReady Workspaces doesn't support these samples. A workspace running with the Dev Workspace engine might fail to start when using an upstream sample devfile.

Workaround

- Use supported Red Hat CodeReady Workspaces sample devfiles.

Additional resources

- [CRW-2253](#)

4.15. THE OPENSIFT CONNECTOR PLUG-IN DOES NOT ALLOW THE CREATION OF A NEW COMPONENT ON IBM POWER SYSTEMS

On IBM Power Systems, the list of supported image streams is missing, which causes component creation to fail.

Additional resources

- [CRW-2255](#)

4.16. TECHNOLOGY PREVIEW FOR DEPLOYING CODEREADY WORKSPACES 2.14 WITH THE DEV WORKSPACE ENGINE

Support for deploying CodeReady Workspaces 2.14 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.

Additional resources

- [CRW-2284](#)

4.17. UPGRADING CODEREADY WORKSPACES INSTANCES 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 2.14 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](#)

4.18. 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](#)

4.19. 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:

```
error sed: couldn't open temporary file /etc/httpd/conf/sedSgv1Z4: Permission denied
```

Additional resources

- [CRW-2452](#)

4.20. GIT REPOSITORY CLONING FAILS IN THE TECH-PREVIEW QUARKUS SAMPLE WORKSPACES

The Quarkus sample workspaces from the **tech-preview** channel experience failure to connect to GitHub and clone Git repositories in a restricted environment.

Additional resources

- [CRW-2473](#)

4.21. SOME SAMPLE DEVFILES REQUIRE MORE CPU OR RAM THAN IS AVAILABLE TO RHPDS CLUSTERS

Currently, the available CPU or RAM resources on a RHPDS cluster may not be sufficient for a devfile.

Workaround

- In the **Administrator** perspective of the OpenShift Container Platform web console, choose the correct project, go to **Administration > LimitRanges**, and delete the **LimitRange** object for the CRW deployment.
- Alternatively, the RHPDS administrator can grant users more resources by providing a customized instance with higher limits for CPU or RAM.

Additional resources

- [CRW-2614](#)

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 [Installing CodeReady Workspaces on OpenShift Container Platform 3.11](#).

Is it possible to run multiple workspaces simultaneously?

Yes. See [Configuring the number of workspaces 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

Plug-in	IBM Power System	Other architectures
Che-Theia editor	2G	512M
OpenShift connector	2.5G	1.5G