



Red Hat OpenShift Dev Spaces 3.13

Release notes and known issues

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Jana Vrbkova

jvrbkova@redhat.com

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Abstract

Information about new and noteworthy features as well as known issues in Red Hat OpenShift Dev Spaces 3.13.

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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 OPENSIFT DEV SPACES

Red Hat OpenShift Dev Spaces provides web-based development environments on Red Hat OpenShift with an enterprise-level setup:

- Cloud Development Environments (CDE) server
- IDEs such as Microsoft Visual Studio Code - Open Source and JetBrains IntelliJ IDEA Community ([Technology Preview](#))
- Containerized environments with popular programming languages, frameworks, and Red Hat technologies

Red Hat OpenShift Dev Spaces is well-suited for container-based development.

Red Hat OpenShift Dev Spaces 3.13 is based on Eclipse Che 7.84.

1.1. SUPPORTED PLATFORMS

OpenShift Dev Spaces runs on OpenShift 4.12–4.15 on the following CPU architectures:

- AMD64 and Intel 64 (**x86_64**)
- IBM Power (**ppc64le**) and IBM Z (**s390x**)

Additional resources

- [OpenShift Documentation](#)
- [Red Hat OpenShift Dev Spaces administration guide](#)

1.2. SUPPORT POLICY

For Red Hat OpenShift Dev Spaces 3.13, Red Hat will provide support for deployment, configuration, and use of the product.

Additional resources

- [OpenShift Dev Spaces life-cycle and support policy](#) .

1.3. DIFFERENCES BETWEEN RED HAT OPENSIFT DEV SPACES AND ECLIPSE CHE

There are some differences between Red Hat OpenShift Dev Spaces and the upstream project on which it is based, Eclipse Che:

- OpenShift Dev Spaces is supported only on Red Hat OpenShift.
- OpenShift Dev Spaces is based on Red Hat Enterprise Linux and is regularly updated to include the latest security fixes.
- OpenShift Dev Spaces provides devfiles for working with languages and technologies such as Quarkus, Lombok, NodeJS, Python, DotNet, Golang, C/C++, and PHP. You can find the latest sample projects in the [devspaces-devfileregistry container image sources](#).

- OpenShift Dev Spaces uses OpenShift OAuth for user login and management.

Red Hat provides licensing and packaging to ensure enterprise-level support for OpenShift Dev Spaces.

CHAPTER 2. NEW FEATURES AND ENHANCEMENTS

2.1. NEW "EDITOR SELECTOR" PANEL ON THE USER DASHBOARD

With this release, you can easily choose an editor when starting a workspace from the User Dashboard by using the brand-new "Editor Selector" panel.

Find more details about specifying a custom editor in the [official documentation](#).

Additional resources

- [CRW-6254](#)

2.2. SUPPORT URL PARAMETERS IN THE CUSTOM DEFINITION OF THE GETTING STARTED SAMPLE

Starting from this release, you can add parameters when defining a URL of a getting started sample:

```
{
  "displayName": "Example",
  "description": "Example",
  "tags": ["example"],
  "url": "https://example.com/my-project.git?df=next/base/devfile.yaml"
}
```

Find more details about configuring getting started samples in the [official documentation](#).

Additional resources

- [CRW-6255](#)

2.3. CONFIGURE TRUSTED EXTENSIONS FOR VISUAL STUDIO CODE - OPEN SOURCE ("CODE - OSS")

With this release, you can specify which extensions are trusted and can access authentication tokens using the dedicated **VSCODE_TRUSTED_EXTENSIONS** environment variable defined in the devfile or ConfigMap:

```
env:
  - name: VSCODE_TRUSTED_EXTENSIONS
    value: "<publisher1>.<extension1>,<publisher2>.<extension2>"
```

Find more details about the enhancement in the [official documentation](#).

Additional resources

- [CRW-6258](#)

2.4. AUTOMATION OF THE IMAGES EXPECTED TO BE USED BY IMAGEPULLER

With this release, if the **imagePuller** option is enabled on the **CheCluster** Custom Resource level, the operator automatically fetches related images from both devfile and plugin registries to create and manage **ImagePuller** Custom Resource for faster workspace startup.

Find more details about the enhancement in the [official documentation](#).

Additional resources

- [CRW-6260](#)

2.5. ADD AN ABILITY TO REVOKE GITLAB OAUTH FROM DASHBOARD

Before this release, only revoking GitHub OAuth from the User Dashboard was supported. Recently, GitLab added a [Revoke a token](#) API and it is now possible to also revoke the GitLab OAuth access right from the User Dashboard.

For other Git Services navigation to the provider website and following the instructions for revoking OAuth access is required.

Additional resources

- [CRW-6261](#)

2.6. PROVIDE HOVER WITH FULL WORKSPACE NAME IN "RECENT WORKSPACES" LIST

Hovering over a workspace from the "Recent Workspaces" expands the name if it is long and does not fit the sidebar.

Additional resources

- [CRW-6262](#)

2.7. ADD PROVIDER NAME ANNOTATION TO PERSONAL ACCESS TOKEN SECRET

Starting from this release, when you create a Personal Access Token on the User Dashboard, the "Provider" field will correspond to the dedicated Git Service. Previously, **oauth2-** string with a random postfix was used. This resulted in poor visibility.

Additional resources

- [CRW-6263](#)

CHAPTER 3. BUG FIXES

3.1. PERSISTENT HOME DOES NOT WORK WITH PER-WORKSPACE STORAGE STRATEGY

Previously, the **persistUserHome** CheCluster Custom Resource property was not working with the per-workspace storage strategy. The defect has been fixed in this release and now you can use the **persistUserHome** option with both the **per-user** and the **per-workspace** storage strategies.

Find more details about the property in the official [documentation](#).

Additional resources

- [CRW-6002](#)

3.2. "RESTART WORKSPACE FROM LOCAL DEVFILE" FAILS WITH "YOU CAN ONLY HAVE 1 RUNNING WORKSPACE AT A TIME."

Before this release, there was a sporadic defect affecting workspace startup after using the "Restart Workspace from local Devfile" functionality from che-code. The following error message would appear: "You can only have 1 running workspace at a time". With this release, the issue is fixed.

Additional resources

- [CRW-6256](#)

3.3. WORKSPACE STARTUP FAILURES FROM BITBUCKET SERVER REPOSITORY VIA OAUTH2

Before this release, workspace startup from a Bitbucket Server private repository using OAuth2 failed with the "Repository/Devfile URL is missing" error. With this release, the issue is fixed.

Additional resources

- [CRW-6257](#)

3.4. CORS-RELATED NETWORK ERROR WHEN FETCHING EDITOR DEVFILE

Referencing an editor using **che-editor** URL parameter could result in a CORS-related network error. The defect has been fixed in this release.

Additional resources

- [CRW-6265](#)

3.5. MISSING URL SANITIZATION FOR GIT URL FROM USER PREFERENCES PERSONAL ACCESS TOKEN DIALOG

Previously, when a developer created a Personal Access Token from the User Preferences, there was no

validation of the Git URL. If the URL was invalid it led to login and dashboard usage issues due to a **java.net.URISyntaxException: Illegal character exception**. To resolve the access issue, you had to manually intervene with the generated secret. The defect has been fixed in this release.

Additional resources

- [CRW-6266](#)

3.6. IMPORT FROM GIT WIDGET DOES NOT TRIM SPACES IN THE INPUT VALUE

Before this release, trailing spaces were not trimmed in the input field of the "Import from Git" widget resulting in the "URL or SSHLocation is not valid" error.

Additional resources

- [CRW-6267](#)

3.7. REVOKE OAUTH BUTTON STILL IN ACTIVE STATE AFTER OAUTH REVOKED

Previously, the Revoke OAuth button continued to be active after the execution. The defect has been fixed in this release.

Additional resources

- [CRW-6268](#)

CHAPTER 4. TECHNOLOGY PREVIEW

Technology Preview features provide early access to upcoming product innovations, enabling you to test functionality and provide feedback during the development process. However, these features are not fully supported under Red Hat Subscription Level Agreements, may not be functionally complete, and are not intended for production use. As Red Hat considers making future iterations of Technology Preview features generally available, we will attempt to resolve any issues that customers experience when using these features. See: [Technology Preview support scope](#).

None.

CHAPTER 5. DEPRECATED FUNCTIONALITIES

5.1. END OF DEVFILE V1 SUPPORT

With this release, devfile V1 is not supported anymore and the **devfile-converter** package is removed.

Additional resources

- [CRW-6282](#)

CHAPTER 6. REMOVED FUNCTIONALITIES

None.

CHAPTER 7. KNOWN ISSUES

7.1. ANSIBLE LIGHTSPEED NOT CONNECTING TO ANSIBLE SERVER

There is a known issue with Ansible Lightspeed and connection to the Ansible server. If the OpenShift Dev Spaces environment is not under *.openshiftapps.com domain, Ansible Lightspeed can not connect to the Ansible server.

There is no workaround available.

Additional resources

- [CRW-5691](#)

7.2. FIPS COMPLIANCE UPDATE

There's a known issue with FIPS compliance that results in certain cryptographic modules not being FIPS-validated. Below is a list of requirements and limitations for using FIPS with OpenShift Dev Spaces:

Required cluster and operator updates

Update your Red Hat OpenShift Container Platform installation to the latest z-stream update for 4.11, 4.12, or 4.13 as appropriate. If you do not already have FIPS enabled, you will need to uninstall and reinstall.

Once the cluster is up and running, install OpenShift Dev Spaces 3.7.1 (3.7-264) and verify that the latest DevWorkspace operator bundle 0.21.2 (0.21-7) or newer is also installed and updated. See <https://catalog.redhat.com/software/containers/devworkspace/devworkspace-operator-bundle/60ec9f48744684587e2186a3>

Golang compiler in UDI image

The Universal Developer Image (UDI) container includes a golang compiler, which was built without the **CGO_ENABLED=1** flag. The check-payload scanner (<https://github.com/openshift/check-payload>) will throw an error, but this can be safely ignored provided that anything you build with this compiler sets the correct flag **CGO_ENABLED=1** and does NOT use **extldflags -static** or **-tags no_openssl**.

The resulting binaries can be scanned and should pass without error.

Statically linked binaries

You can find statically linked binaries not related to cryptography in these two containers:

- code-rhel8
- idea-rhel8.

As they are not related to cryptography, they do not affect FIPS compliance.

Helm support for FIPS

The UDI container includes the **helm** binary, which was not compiled with FIPS support. If you are in a FIPS environment do not use **helm**.

Additional resources

- [CRW-4598](#)

7.3. DEBUGGER DOES NOT WORK IN THE .NET SAMPLE

Currently, the debugger in Microsoft Visual Studio Code - Open Source does not work in the .NET sample.

Workaround

- Use a different image from the following sources:
 - [Custom UBI-9 based Dockerfile](#)
 - [devfile.yaml](#)

Additional resources

- [CRW-3563](#)

CHAPTER 8. FREQUENTLY ASKED QUESTIONS

Is it possible to deploy applications from OpenShift Dev Spaces to an OpenShift cluster?

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 OpenShift Dev Spaces?

Use block storage.

Is it possible to deploy more than one OpenShift Dev Spaces instance on the same cluster?

Only one OpenShift Dev Spaces instance can be deployed per cluster.

Is it possible to install OpenShift Dev Spaces offline (that is, disconnected from the internet)?

See [Installing Red Hat OpenShift Dev Spaces in restricted environments on OpenShift](#) .

Is it possible to use non-default certificates with OpenShift Dev Spaces?

You can use self-signed or public certificates. See [Importing untrusted TLS certificates](#) .

Is it possible to run multiple workspaces simultaneously?

See [Enabling users to run multiple workspaces simultaneously](#) .