Red Hat Plug-ins for Backstage 2.0

Jfrog Artifactory plugin for Backstage

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Abstract

The Jfrog Artifactory plugin displays information about your container images within the Jfrog Artifactory registry.
CHAPTER 1. JFROG ARTIFACTORY PLUGIN FOR BACKSTAGE

The Jfrog Artifactory plugin displays information about your container images within the Jfrog Artifactory registry.

1. FOR ADMINISTRATORS

1.1. Installing and configuring the Jfrog Artifactory plugin

The Red Hat Plug-ins for Backstage (RHPIB) packages are hosted in a separate NPM registry, which is maintained by Red Hat. To use these packages, you must adjust your NPM configuration to pull the @redhat scoped packages:

```
# update your .npmrc or .yarnrc file
yarn config set "@redhat:registry" https://npm.registry.redhat.com
# then pull a package
yarn add @redhat/backstage-plugin-quay
```

For more information, see npm docs.

Creating a .npmrc file ensures that all the packages are scoped under @redhat and are fetched from Red Hat’s NPM registry, while the rest dependencies remain sourced from other registry.

Procedure

1. Run the following command to install the Jfrog Artifactory plugin:

```
yarn workspace app add @redhat/backstage-plugin-jfrog-artifactory
```

2. Set the proxy to the desired Artifactory server in the app-config.yaml file as follows:

```
proxy:
  '/jfrog-artifactory/api':
    target: 'http://<hostname>:8082' # or https://<customer>.jfrog.io
    headers:
      # Authorization: 'Bearer <YOUR TOKEN>'
      # Change to "false" in case of using self hosted artifactory instance with a self-signed certificate
      secure: true
```

3. Enable the JFROG ARTIFACTORY tab on the entity view page in packages/app/src/components/catalog/EntityPage.tsx file as follows:

```
/* highlight-add-start */
import { isJfrogArtifactoryAvailable, JfrogArtifactoryPage, } from "@redhat/backstage-plugin-jfrog-artifactory";

/* highlight-add-end */

const serviceEntityPage = (      <EntityPageLayout>
Annotate your entity using the following annotations:

```plaintext
metadata:
  annotations:
    'jfrog-artifactory/image-name': '<IMAGE-NAME>'
```

### 1.2. FOR USERS

#### 1.2.1. Using the Jfrog Artifactory plugin in Backstage

Jfrog Artifactory is a front-end plugin that enables you to view the information about the container images that are available in your Jfrog Artifactory registry.

**Prerequisites**

- Your Backstage application is installed and running.
- You have installed the Jfrog Artifactory plugin. For installation and configuration steps, see Section 1.1.1, "Installing and configuring the Jfrog Artifactory plugin".

**Procedure**

1. Open your Backstage application and select a component from the **Catalog** page.
2. Go to the **JFROG ARTIFACTORY** tab.

![Jfrog Artifactory repository: janus-idp/backstage-showcase](image)

The **JFROG ARTIFACTORY** tab contains a list of container images and related information, such as **VERSION**, **REPOSITORIES**, **MANIFEST**, **MODIFIED**, and **SIZE**.