



# Red Hat Plug-ins for Backstage 2.0

## Quay plugin for Backstage

The Quay plugin for Backstage



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## Abstract

The Quay plugin displays the information about your container images within the Quay registry in your Backstage application.

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# CHAPTER 1. QUAY PLUGIN FOR BACKSTAGE

The Quay plugin displays the information about your container images within the Quay registry in your Backstage application.

## 1.1. FOR ADMINISTRATORS

### 1.1.1. Installation

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](#).

You can now install the Quay plugin using the following command:

```
yarn workspace app add @redhat/backstage-plugin-quay
```

### 1.1.2. Configuration

1. Set the proxy to the desired Quay server in the **app-config.yaml** file as follows:

```
``yaml title="app-config.yaml"
proxy:
  '/quay/api':
    target: 'https://quay.io'
    headers:
      X-Requested-With: 'XMLHttpRequest'
      # Uncomment the following line to access a private Quay Repository using a token
      # Authorization: 'Bearer <YOUR TOKEN>'
    changeOrigin: true
    # Change to "false" in case of using self hosted quay instance with a self-signed
    certificate
    secure: true

  quay:
    # The UI url for Quay, used to generate the link to Quay
    uiUrl: 'https://quay.io'
...``
```

2. Enable an additional tab on the entity view page in **packages/app/src/components/catalog/EntityPage.tsx**:

```
``tsx title="packages/app/src/components/catalog/EntityPage.tsx"
```

```

/* highlight-add-next-line */
import { isQuayAvailable, QuayPage } from '@redhat/backstage-plugin-quay';

const serviceEntityPage = (
  <EntityPageLayout>
    { /* ... */ }
    { /* highlight-add-next-line */ }
    <EntityLayout.Route if={isQuayAvailable} path="/quay" title="Quay">
      <QuayPage />
    </EntityLayout.Route>
  </EntityPageLayout>
);
...

```

3. Annotate your entity with the following annotations:

```

``yaml title="catalog-info.yaml"
metadata:
  annotations:
    'quay.io/repository-slug': `<ORGANIZATION>/<REPOSITORY>`,
...

```

## 1.2. FOR USERS

### 1.2.1. Using the Quay plugin in Backstage

Quay is a front-end plugin that enables you to view the information about the container images.

#### Prerequisites

- Your Backstage application is installed and running.
- You have installed the Quay plugin. For installation process, see [Installation](#).

#### Procedure

1. Open your Backstage application and select a component from the **Catalog** page.
2. Go to the **Image Registry** tab.  
The **Image Registry** tab in the Backstage UI contains a list of container images and related information, such as **TAG**, **LAST MODIFIED**, **SECURITY SCAN**, **SIZE**, **EXPIRES**, and **MANIFEST**.



TAG	LAST MODIFIED	SECURITY SCAN	SIZE	EXPIRES	MANIFEST
latest	May 11, 2023, 5:31 PM	Passed	247.49 MB	Never	sha256:bcc76238bc32
sha-330e344	May 11, 2023, 5:31 PM	Passed	247.49 MB	Never	sha256:bcc76238bc32
sha-2a9eald	May 11, 2023, 9:51 AM	Passed	247.49 MB	Never	sha256:ce1048b2509d
sha-294f563	May 11, 2023, 9:35 AM	Passed	247.49 MB	Never	sha256:c774a8255897
sha-00fe33e	May 11, 2023, 9:04 AM	Passed	247.49 MB	Never	sha256:0e5af3abc8ac
sha-cb6c541	May 11, 2023, 7:57 AM	Passed	247.22 MB	Never	sha256:88723bb0a0d1
sha-526b40d	May 11, 2023, 2:23 AM	Passed	247.2 MB	Never	sha256:67046e5e9b9c
sha-fad6c4a	May 10, 2023, 9:56 AM	Passed	246.35 MB	Never	sha256:5a5a74c53f88
sha-caclcb	May 10, 2023, 1:22 AM	Passed	246.35 MB	Never	sha256:4d124adc125
sha-43ea27c	May 9, 2023, 9:01 PM	Passed	246.35 MB	Never	sha256:b33c0b04cf5
sha-4298a54	May 9, 2023, 12:57 AM	Low: 6, Medium: 3	245.87 MB	Never	sha256:11c60d22fd68
sha-b9c84c7	May 8, 2023, 11:54 PM	Low: 6, Medium: 3	244.57 MB	Never	sha256:07c092face2b

- If a container image does not pass the security scan, select the security scan value of the image to check the vulnerabilities.

TAG	LAST MODIFIED	SECURITY SCAN	SIZE	EXPIRES	MANIFEST
sha-4298a54	May 9, 2023, 12:57 AM	Low: 6, Medium: 3	245.87 MB	Never	sha256:11c60d22fd68
sha-b9c84c7	May 8, 2023, 11:54 PM	Low: 6, Medium: 3	244.57 MB	Never	sha256:07c092face2b
sha-5f1b7a4	May 8, 2023, 11:31 PM	Low: 6, Medium: 3	244.57 MB	Never	sha256:55b1bd5d805b
sha-dc29fd3	May 8, 2023, 10:49 PM	Low: 6, Medium: 3	244.57 MB	Never	sha256:580bb1313b00
sha-951ef2f	May 8, 2023, 8:26 PM	Low: 6, Medium: 3	244.57 MB	Never	sha256:ad84fb91667a

The vulnerabilities page displays the associated advisory with a link, severity, package name, and current and fixed versions.

ADVISORY	SEVERITY	PACKAGE NAME	CURRENT VERSION	FIXED BY
<a href="#">RHSA-2023:2570: krb5 security, bug fix, and enhancement update (Moderate)</a>	Medium	krb5-libs	1.19.1-24.el9_1	0.120.1-8.el9
<a href="#">RHSA-2023:2478: curl security update (Low)</a>	Low	libcurl-minimal	7.76.1-19.el9_1.2	0.776.1-23.el9
<a href="#">RHSA-2023:2650: curl security update (Moderate)</a>	Medium	libcurl-minimal	7.76.1-19.el9_1.2	0.776.1-23.el9_2.1
<a href="#">RHSA-2023:2582: lua security update (Low)</a>	Low	lua-libs	5.4.4-2.el9_1	0.5.4.4-3.el9
<a href="#">RHSA-2023:2523: openssl security and bug fix update (Low)</a>	Low	openssl-libs	1.3.0.1-47.el9_1	1.3.0.7-6.el9_2

The advisory link redirects to the Red Hat Security Advisory page that contains detailed information about the advisory, including the solution.