



Red Hat Developer Hub 0.2

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

3. 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.