Red Hat AMQ 2021.Q4

Using the Skupper console

For Use with AMQ Interconnect 2.0 TECHNOLOGY PREVIEW

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Abstract

This guide describes how to monitor AMQ Interconnect sites and a service network.
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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.

IMPORTANT

AMQ Interconnect 2.0 Technology Preview features are not supported with Red Hat production service level agreements (SLAs) and might not be functionally complete. Red Hat does not recommend 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. For more information about the support scope of Red Hat Technology Preview features, see https://access.redhat.com/support/offerings/techpreview.
CHAPTER 1. USING THE AMQ INTERCONNECT CONSOLE

By default, when you create a AMQ Interconnect site, you also enable the AMQ Interconnect console. The AMQ Interconnect console URL is displayed whenever you check site status using `skupper status`.

1.1. ACCESSING THE SKUPPER CONSOLE

By default, the Skupper console is available whenever you create a service network router and is protected by credentials available in the `skupper-console-users` secret.

Procedure

1. Determine the Skupper console URL using the `skupper` CLI, for example:

   ```
   $ skupper status
   Skupper is enabled for namespace "west" in interior mode. It is not connected to any other sites. It has no exposed services.
   The site console url is: https://skupper-west.apps-crc.testing
   ```

2. Browse to the Skupper console URL. The credential prompt depends on how the site was created using `skupper init`:

   - using the `--console-auth unsecured` option, you are not prompted for credentials.
   - using the `--console-auth openshift` option, you are prompted to enter OpenShift cluster credentials.
   - using the default or `--console-user <user> --console-password <password>` options, you are prompted to enter AMQ Interconnect credentials.

3. If you created the site using default settings, that is `skupper init`, a random password is generated for the `admin` user. To retrieve the password:
   a. Retrieve the encoded password for the `admin` user:

      ```
      $ oc get secret skupper-console-users -o yaml| grep admin
      admin: Sk5aV3pNSHR5Zw==
      ```
   b. Decode the password for the `admin` user:

      ```
      $ echo -n "Sk5aV3pNSHR5Zw==" | base64 --decode
      JNZWzMHtyg
      ```

1.2. LINKING SITES USING THE AMQ INTERCONNECT CONSOLE

The AMQ Interconnect console allows you create and use claim type tokens as described in Configuring AMQ Interconnect sites using the CLI.

Prerequisites

- Two sites, each with AMQ Interconnect console enabled
PROCEDURE

Your browser may prompt you to allow using the clipboard. You must accept that prompt for this procedure.

1. Log into the console for the first site.
2. Navigate to Site in left hand menu.
3. Click Link a remote site to display the steps for linking.
4. Click Copy a token to the clipboard
5. Log into the console for the second site.
6. Navigate to Site in left hand menu.
7. Click Use a token to accept the token from the first site.
8. Verify that the sites are linked by clicking Deployments and checking that both sites are listed.

1.3. EXPLORING THE SKUPPER CONSOLE

The Skupper console provides an overview of the following:

- Services - services that are exposed on the service network, both local and remote.
- Sites - AMQ Interconnect installations on the current service network.
- Deployments - deployments relating to exposed services.

The Skupper console also provides useful networking information about the service network, for example, traffic levels between sites.
1. Perform the Creating a service network with OpenShift tutorial.

2. Navigate to the Skupper console.

3. Click the Sites menu item. Both the east and west sites should be displayed in circles.

4. Drag and drop the west circle to be on the left of the east circle.

5. Click the Table tab to display the sites as text items. This view allows you to drill down into details relating to the selected site.

6. Click the Deployments menu item. This view shows you any deployments that are exposed as services on the service network. In this case, the console displays the hello-world-backend (east) deployment.

7. Click the Services menu item to display details for all services exposed on the service network.

   **NOTE**

   Although two services are involved in the tutorial, only one service, hello-world-backend is exposed on the service network.

8. Click the Sites menu again and expand the panel on the right hand side of the console. This panel shows the traffic flows from the backend to the frontend.

*Revised on 2021-11-30 11:38:25 UTC*