



Red Hat Ansible Automation Platform 2.3

Getting started with automation hub

Configuring Red Hat automation hub as your default server for Ansible collections content

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Abstract

This guide walks you through the initial steps required to use Red Hat automation hub as the default source for certified Ansible collections content. Providing Feedback: If you have a suggestion to improve this documentation, or find an error, please contact technical support at to create an issue on the Ansible Automation Platform Jira project using the Docs component.

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PREFACE

Red Hat Ansible automation hub provides a place for Red Hat subscribers to quickly find and use content that is supported by Red Hat and our technology partners to deliver additional reassurance for the most demanding environments.

The Ansible Galaxy client, **ansible-galaxy**, manages roles and collections from the command line. To ensure that the **ansible-galaxy** client uses certified, supported Ansible collections whenever possible, update your **ansible.cfg** file to use Red Hat automation hub as your primary source of Ansible collections.

This guide walks you through the steps required to configure your **ansible.cfg** file to use Red Hat automation hub as the default source for certified Ansible collections content.

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. CREATING THE RED HAT AUTOMATION HUB API TOKEN

Before you can interact with automation hub by uploading or downloading collections, you must create an API token. The automation hub API token authenticates your **ansible-galaxy** client to the Red Hat automation hub server.

You can create an API token by using **Token management** in automation hub or **API Token Management** in private automation hub (PAH).

1.1. CREATING THE RED HAT AUTOMATION HUB API TOKEN

Before you can interact with automation hub by uploading or downloading collections, you need to create an API token. The automation hub API token authenticates your **ansible-galaxy** client to the Red Hat automation hub server.

You can create an API token using automation hub **Token management**.

Prerequisites

- Valid subscription credentials for Red Hat Ansible Automation Platform.

Procedure

1. Navigate to <https://cloud.redhat.com/ansible/automation-hub/token/>.
2. Click **Load Token**.
3. Click **copy** icon to copy the API token to the clipboard.
4. Paste the API token into a file and store in a secure location.



IMPORTANT

The API token is a secret token used to protect your content. Store your API token in a secure location.

The API token is now available for configuring automation hub as your default collections server or uploading collections using the **ansible-galaxy** command line tool.

1.2. CREATING THE API TOKEN IN PRIVATE AUTOMATION HUB

You can create an API token by using **API Token Management** in private automation hub.

Prerequisites

- Valid subscription credentials for Red Hat Ansible Automation Platform.

Procedure

1. Navigate to your PAH.
2. From the sidebar, navigate to **Collections** → **API Token Management**

3. Click **Load Token**.
4. Click the **copy** icon to copy the API token to the clipboard.
5. Paste the API token into a file and store in a secure location.



IMPORTANT

The API token is a secret token used to protect your content. Store your API token in a secure location.

The API token is now available for configuring automation hub as your default collections server or uploading collections using the **ansible-galaxy** command line tool.

1.3. KEEPING YOUR OFFLINE TOKEN ACTIVE

Keeping an offline token active is useful when an application needs to perform action on behalf of the user, even when the user is offline. For example, a routine data backup.

Offline tokens expire after 30 days of inactivity. You can keep your offline token from expiring by periodically refreshing your offline token.



NOTE

Once your offline token expires, you must request a new one.

Run the following command periodically to prevent your token from expiring:

```
curl https://sso.redhat.com/auth/realms/redhat-external/protocol/openid-connect/token -d grant_type=refresh_token -d client_id="cloud-services" -d refresh_token="{{ user_token }}" --fail --silent --show-error --output /dev/null
```

CHAPTER 2. CONFIGURING RED HAT AUTOMATION HUB AS THE PRIMARY SOURCE FOR CONTENT

Configure Red Hat automation hub as your primary source of content to access Ansible Certified Content Collections. You can configure automation hub in the command-line interface (CLI) or the web console.

2.1. CONFIGURING RED HAT AUTOMATION HUB AS THE PRIMARY SOURCE FOR CONTENT USING THE CLI

Configure Red Hat automation hub as your primary source of content by using the CLI. To configure automation hub, you must modify the **ansible.cfg** configuration file. With automation hub, you have access to certified, supported collections.

Prerequisites

- You have obtained the API token for the automation hub server. See [Creating the Red Hat automation hub API token](#) for more information.

Creating a new token revokes any previous tokens generated for {PrivateHubName}. Ensure that you update any Controller or scripts that you created with the previous token.

Procedure

- Add the **server_list** option under the **[galaxy]** section and provide one or more server names.
- Create a new section for each server name:

```
[galaxy_server.<server_name>_]
```

- Set the **url** option for each server name. You must include the **api/galaxy/** subdirectory in the server URL:

```
https://<server_fully_qualified_domain_name>/api/galaxy/
```

- Optional: Set the **auth_url** option. The community Ansible Galaxy does not require an **auth_url**.
- Set the API token for the automation hub server.

The following **ansible.cfg** configuration file example shows how to configure multiple servers in prioritized order, with automation hub configured as your primary source and an Ansible Galaxy server as a secondary source:

ansible.cfg

```
[galaxy]
server_list = automation_hub, my_org_hub

[galaxy_server.automation_hub]
url=https://cloud.redhat.com/api/automation-hub/api/galaxy/ 1 2
auth_url=https://sso.redhat.com/auth/realms/redhat-external/protocol/openid-connect/token
```

```
token=my_ah_token

[galaxy_server.my_org_hub]
url=https://automation.my_org/api/galaxy/ 3
username=my_user
password=my_pass
```

- 1 Include a trailing slash / after the server URL.
- 2 Include the **/api/galaxy/** subdirectory in the Ansible Galaxy server URL.
- 3 Include the **/api/galaxy/** subdirectory in the automation hub server URL.



NOTE

All API URLs must end with a trailing slash / to prevent receiving a 301 redirect.

You have now configured automation hub as your primary server using CLI, and can proceed to download and install supported collections.

Additional resources

For more information about server list configuration options and using Ansible Galaxy as an Ansible content source, see the [Ansible Galaxy User Guide](#).

2.2. CONFIGURING RED HAT AUTOMATION HUB AS THE PRIMARY SOURCE FOR CONTENT USING THE WEB CONSOLE

Configure Red Hat automation hub as your primary source of content by using the web console. To configure automation hub, you must create a credential and add it to the Organization's Galaxy Credentials field. With automation hub, you have access to certified, supported collections.

Prerequisites

- You have obtained the API token for the automation hub server. See [Creating the Red Hat automation hub API token](#) for more information.

Creating a new token revokes any previous tokens generated for {PrivateHubName}. Ensure that you update any Controller or scripts that you created with the previous token.

Procedure

1. Go to your automation controller.
2. Create a new credential.
 - a. Click **Add** from the **Credentials** screen.
 - b. Enter the name for your new credential in the **Name** field.

- c. Optional: Enter a description and enter or select the name of the organization with which the credential is associated.
 - d. Under **Organization**, select the organization that you would like to use the credential for.
 - e. Select **Ansible Galaxy/Automation Hub API Token** as the credential type.
 - f. Under **Type Details**, enter the **Galaxy Server URL**, **Authentication Server URL**, and **API Token** created in the Prerequisite.
 - g. Click **Save**.
3. Select the credential you created from the Organization's **Galaxy Credentials** field.
 - a. Navigate to **Access** → **Organizations**.
 - b. Select the organization where you'd like to add your Galaxy credentials.
 - c. Click **Edit**.
 - d. Under Galaxy Credentials, click the **Search** icon.
 - e. Select the credential you created for automation hub, and place it at the beginning of the list.
 - f. Optional: If you have a secondary source of content, such as Ansible Galaxy, place this credential after the credential you created for automation hub.
 - g. Click **Select**.
 - h. Click **Save**.

Verification

To validate the credential, update an existing source control management (SCM)-based project by selecting the project and clicking the **Refresh** icon.

1. Navigate to your project repository.
2. Select a project that uses a **collections/requirements.yml** file.
3. Update the project by clicking the refresh icon [refresh icon].

If the status of the project is **Successful**, then the credential is valid.

You have now configured automation hub as your primary server using the web console, and you can proceed to download and install supported collections.

Additional resources

1. For more information about server list configuration options and using Ansible Galaxy as an Ansible content source, see the [Ansible Galaxy User Guide](#).
2. For more information about creating and using credentials, see the [Credentials](#) section of automation controller User Guide v4.2.1.

