



Red Hat Ansible Automation Platform 2.4

Getting started with automation controller

Getting started guide for automation controller

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Abstract

This guide shows how to set up a controller application, which you can then use to launch more sophisticated playbooks. The setup process typically takes less than thirty minutes.

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PREFACE

To begin, install Ansible Automation Platform and select a target system where you can deploy an initial playbook (provided by automation controller). This first playbook executes simple Ansible tasks, while teaching you how to use the controller and properly set it up. You can use any sort of system manageable by Ansible, as described in the [Managed nodes](#) section of the Ansible documentation. For further instructions, see the [Red Hat Ansible Automation Platform Installation Guide](#) .



NOTE

Ansible Automation Platform is offered on a subscription basis. These subscriptions vary in price and support-levels. For more information about subscriptions and features, see [Subscription Types](#).


PROVIDING FEEDBACK ON RED HAT DOCUMENTATION

If you have a suggestion to improve this documentation, or find an error, you can contact technical support at <https://access.redhat.com> to open a request.

CHAPTER 1. LOGGING INTO THE AUTOMATION CONTROLLER DASHBOARD AFTER INSTALLATION

After you install automation controller, you must log in to the Dashboard.

Procedure

1. With the login information provided after your installation completed, open a web browser and log in to the automation controller by navigating to its server URL at:
`https://<CONTROLLER_SERVER_NAME>/`
2. Use the credentials specified during the installation process to login:
 - The default username is **admin**.
 - The password for **admin** is the value specified.
3. Click the **More Actions** icon  next to the desired user.
4. Click **Edit**.
5. Edit the required details and click **Save**.

CHAPTER 2. MANAGING YOUR ANSIBLE AUTOMATION CONTROLLER SUBSCRIPTION

Before you can use automation controller, you must have a valid subscription, which authorizes its use.

2.1. OBTAINING AN AUTHORIZED ANSIBLE AUTOMATION CONTROLLER SUBSCRIPTION

If you already have a subscription to a Red Hat product, you can acquire an automation controller subscription through that subscription. If you do not have a subscription to Red Hat Ansible Automation Platform and Red Hat Satellite, you can request a trial subscription.

Procedure

- If you have a Red Hat Ansible Automation Platform subscription, use your Red Hat customer credentials when you launch the automation controller to access your subscription information. See [Importing a subscription](#).
- If you have a non-Ansible Red Hat or Satellite subscription, access automation controller with one of these methods:
 - Enter your username and password on the license page.
 - Obtain a subscriptions manifest from the [Subscription Allocations](#) page on the Red Hat Customer Portal. For more information, see [Obtaining a subscriptions manifest](#) in the *Automation controller User Guide*.
 - If you do not have a Red Hat Ansible Automation Platform subscription, go to [Try Red Hat Ansible Automation Platform](#) and request a trial subscription.

Additional resources

To understand what is supported with your subscription, see [Automation controller licensing, updates and support](#). * If you have issues with your subscription, contact your Sales Account Manager or Red Hat Customer Service at: <https://access.redhat.com/support/contact/customerService/>.

2.2. IMPORTING A SUBSCRIPTION

After you have obtained an authorized Ansible Automation Platform subscription, you must import it into the automation controller system before you can use automation controller.



NOTE

You are opted in for Automation Analytics by default when you activate the automation controller on first time log in. This helps Red Hat improve the product by delivering you a much better user experience. You can opt out, by doing the following:

1. From the navigation panel, select **Settings** and select the **Miscellaneous System settings** option.
2. Click **Edit**.
3. Toggle the **Gather data for Automation Analytics** switch to the off position.
4. Click **Save**.

For opt-in of Automation Analytics to be effective, your instance of automation controller must be running on Red Hat Enterprise Linux.

For more information, see the [Automation Analytics](#) section.

Prerequisites

- You have obtained a subscriptions manifest. For more information, see [Obtaining a subscriptions manifest](#).

Procedure

1. Launch automation controller for the first time. The **Subscription Management** screen displays.

2. Retrieve and import your subscription by completing either of the following steps:
 - a. If you have obtained a subscription manifest, upload it by navigating to the location where the file is saved. The subscription manifest is the complete **.zip** file, and not only its component parts.



NOTE

If the **Browse** option in the **Subscription manifest** option is disabled, clear the **username** and **password** fields to enable it.

The subscription metadata is then retrieved from the RHSM/Satellite API, or from the manifest provided. If many subscription counts were applied in a single installation, automation controller combines the counts but uses the earliest expiration date as the expiry (at which point you must refresh your subscription).

- b. If you are using your Red Hat customer credentials, enter your username and password on the license page. Use your Satellite username or password if your automation controller cluster nodes are registered to Satellite with Subscription Manager. After you enter your credentials, click **Get Subscriptions**.
Automation controller retrieves your configured subscription service. Then, it prompts you to select the subscription that you want to run and applies that metadata to automation controller. You can log in over time and retrieve new subscriptions if you have renewed.
3. Click **Next**.
4. Review and check the **I agree to the End User License Agreement** checkbox and click **Submit**. After your subscription is accepted, automation controller displays the subscription details and opens the Dashboard. To return to the Subscription settings screen from the Dashboard, select **Settings** → **Subscription settings** from the **Subscription** option in the navigation panel.
5. Optional: To return to the Subscription settings screen from the Dashboard, select **Settings** → **Subscription settings** option in the navigation panel.

Settings > Subscription

Details

Subscription Details

| | | | | | |
|------------------------|--|--------------------------------------|-------------------------------|-----------------------|---|
| Status | ✔ Compliant The number of hosts you have automated against is below your subscription count. | Hosts automated | 0 since 8/3/2022, 11:05:30 AM | Hosts imported | 1 |
| Hosts remaining | 1 | Subscription type | enterprise | Subscription | Red Hat Ansible Automation, Premium (1 Managed Nodes) |
| Trial | False | Expires on | 9/19/2023, 11:59:59 PM | Expires on UTC | 9/20/2023, 3:59:59 AM |
| Days remaining | 412 | Automation controller version | 4.2.0 | | |

If you are ready to upgrade or renew, please [contact us](#).

[Edit](#)

Troubleshooting your subscription

When your subscription expires (you can check this in the Subscription details of the Subscription settings window), you must renew it in automation controller. You can do this by either importing a new subscription, or setting up a new subscription.

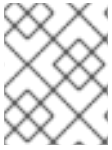
If you meet the "Error fetching licenses" message, check that you have the proper permissions required for the Satellite user. The automation controller administrator requires this to apply a subscription.

The Satellite username and password is used to query the Satellite API for existing subscriptions. From the Satellite API, the automation controller receives metadata about those subscriptions, then filters through to find valid subscriptions that you can apply. These are then displayed as valid subscription options in the UI.

The following Satellite roles grant proper access:

- Custom with **view_subscriptions** and **view_organizations** filter
- Viewer
- Administrator
- Organization Administrator
- Manager

Use the **Custom** role for your automation controller integration, as it is the most restrictive. For more information, see the [Satellite documentation](#) on managing users and roles.



NOTE

The **System Administrator** role is not equal to the **Administrator** user checkbox, and does not offer enough permissions to access the subscriptions API page.

2.3. TROUBLESHOOTING: KEEP YOUR SUBSCRIPTION IN COMPLIANCE

Your subscription has two possible statuses:

- **Compliant:** Indicates that your subscription is appropriate for the number of hosts that you have automated within your subscription count.
- **Out of compliance:** Indicates that you have exceeded the number of hosts in your subscription.

For more information, see [Troubleshooting: Keeping your subscription in compliance](#) in the *Automation controller User Guide*.

2.4. HOST METRIC UTILITIES

Automation controller provides a way to generate a CSV output of the host metric data and host metric summary through the Command Line Interface (CLI). You can also soft delete hosts in bulk through the API.

For more information, see the [Host metrics utilities](#) section of the *Automation controller User Guide*.

CHAPTER 3. USING THE AUTOMATION CONTROLLER DASHBOARD FOR IT ORCHESTRATION

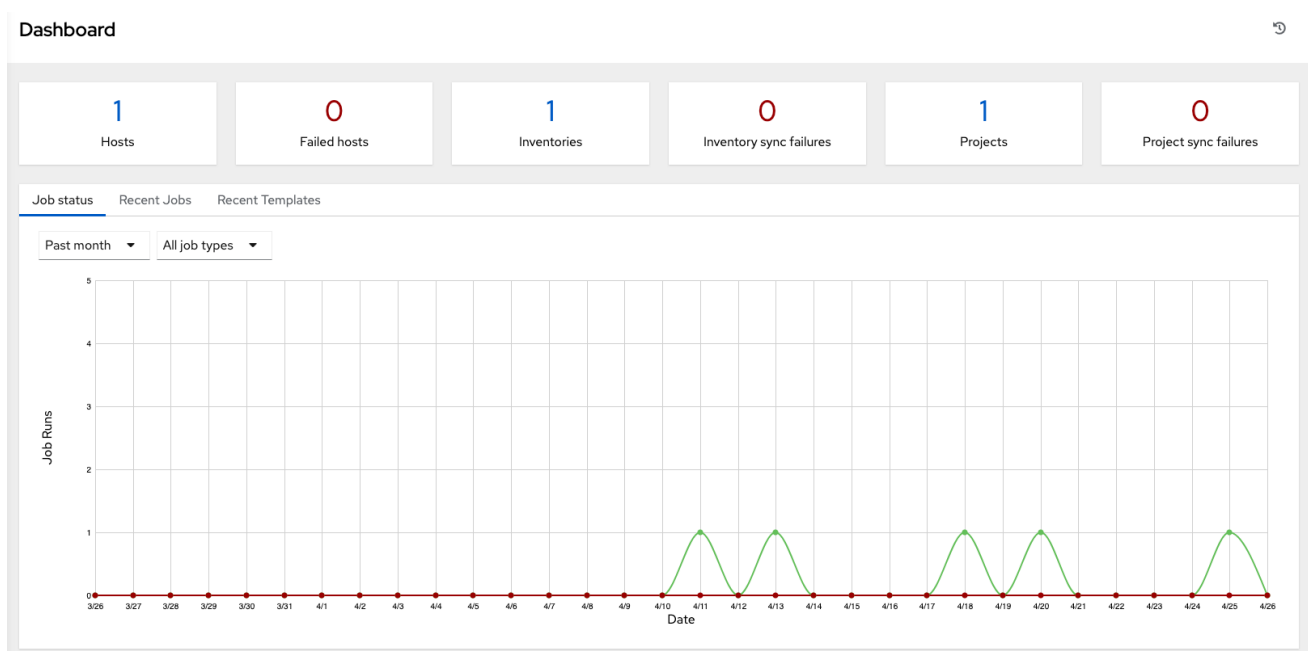
The Dashboard offers a graphical framework for your IT orchestration needs. Use the navigation menu to complete the following tasks:

- Display different views
- Go to your resources
- Grant users access
- Administer automation controller features in the UI

3.1. VIEWING THE DASHBOARD

Procedure

- Click the **Menu** icon to hide or display the navigation panel.
 - On the main dashboard, a summary appears listing your current **Job status**.
 - You can filter the job status within a period of time or by job type.
 - You can view summaries of **Recent Jobs** and **Recent Templates** in their respective tabs.



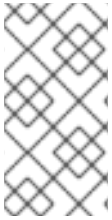
The last item in the navigation panel is **Settings**, which provides access to automation controller configuration settings.

The **Settings** page allows administrators to configure the following settings:

- Authentication
- Jobs
- System-level attributes

- Customize the UI, and product license information

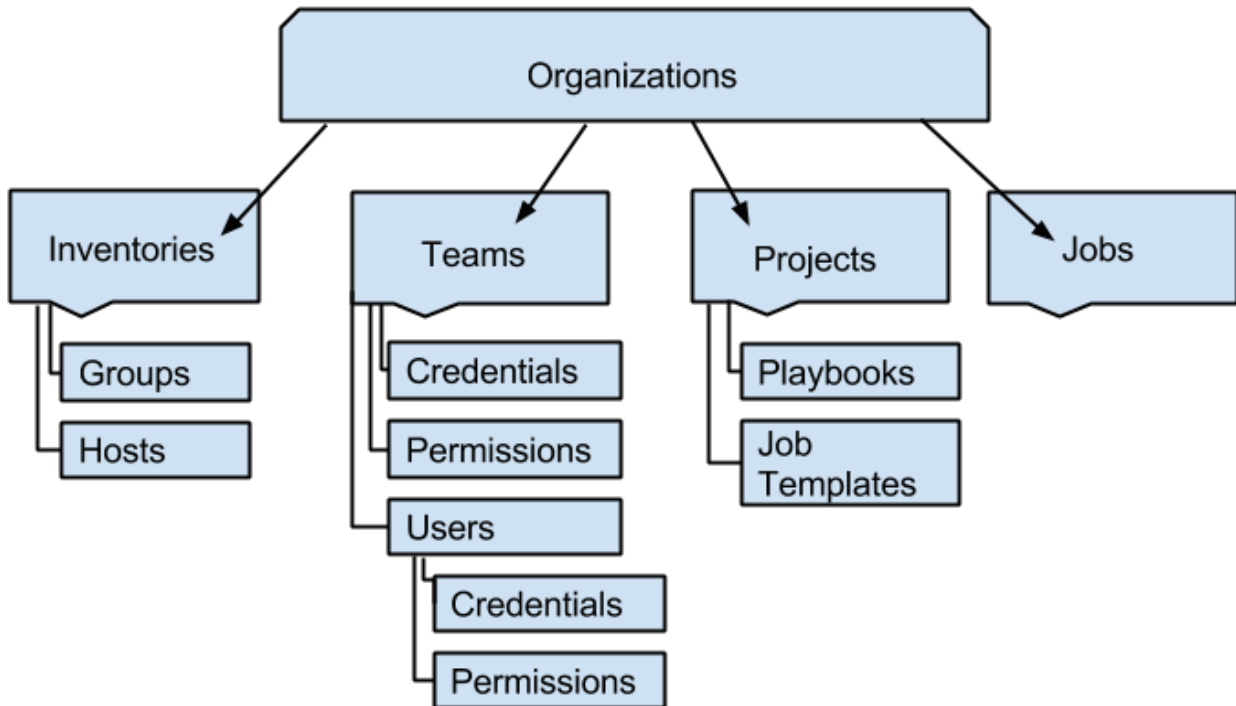
For more information, see [Automation controller Configuration](#) in the *Automation controller Administration Guide*.

**NOTE**

To launch a simple playbook, you must set up a number of configuration options. Completing the getting started configuration tasks now ensures that automation controller is configured properly and permits easier executions of more involved playbooks later on.

CHAPTER 4. MANAGING ORGANIZATIONS IN AUTOMATION CONTROLLER

An organization is a logical collection of users, teams, projects, and inventories. It is the highest level object in the controller object hierarchy. After you have created an organization, automation controller displays the organization details. You can then manage access and execution environments for the organization.



4.1. REVIEWING THE ORGANIZATION

The Organizations page displays the existing organizations for your installation.

Procedure

- From the navigation panel, select **Access** → **Organizations**.



NOTE

Automation controller automatically creates a default organization. If you have a Self-support level license, you have only the default organization available and must not delete it.

You can use the default organization as it is initially set up and edit it later.



NOTE

Only Enterprise or Premium licenses can add new organizations.

Enterprise and Premium license users who want to add a new organization should see the [Organizations](#) section in the *Automation controller User Guide*.

4.2. EDITING AN ORGANIZATION

During initial setup, you can leave the default organization as it is, but you can edit it later.

Procedure

1. Edit the organization by using one of these methods:
 - From the organizations Details page, click **Edit** next to the organization you want to modify.
 - From the navigation panel, select **Access → Organizations**. Select the organization you want to modify and edit the appropriate details.
2. Save your changes.

CHAPTER 5. USER ROLES IN AUTOMATION CONTROLLER

Users associated with an organization are shown in the **Access** tab of the organization.

A default administrator user with the role of **System Administrator** is automatically created and is available to all users of automation controller. You can use it as it is or edit it later. Other users can be added to an organization, including a **Normal User**, **System Auditor**, or **System Administrator**, but they must be created first.

For more information, see the [Users](#) section in the Automation Controller User Guide.

For the purpose of the getting started guide, leave the default user as it is.

CHAPTER 6. INVENTORIES

An inventory is a collection of hosts managed by automation controller. Organizations are assigned to inventories, while permissions to launch playbooks against inventories are controlled at the user or team level.

For more information, see the following documentation:

- [Adding and removing user permissions](#)
- [Adding or removing a user](#)
- [About the installer inventory file](#)

6.1. CREATING A NEW INVENTORY

The Inventories window displays a list of the inventories that are currently available. You can sort the inventory list by name and searched type, organization, description, owners and modifiers of the inventory, or additional criteria.

Procedure

1. To view existing inventories, select **Resources** → **Inventories** from the navigation panel.
 - Automation controller provides a demonstration inventory for you to use as you learn how the controller works. You can use it as it is or edit it later. You can create another inventory, if necessary.
2. To add another inventory, see [Add a new inventory](#) in the *Automation controller User Guide* for more information.
3. Click **Demo Inventory** to view its details.

The screenshot shows the 'Demo Inventory' details page. The breadcrumb is 'Inventories > Demo Inventory'. The page title is 'Details'. There are navigation tabs: 'Back to Inventories', 'Details' (selected), 'Access', 'Groups', 'Hosts', 'Sources', and 'Jobs'. The main content area displays the following information:

- Name:** Demo Inventory
- Type:** Inventory
- Organization:** Default
- Variables:** YAML, JSON
- Created:** 4/8/2021, 1:02:46 PM by admin
- Last Modified:** 4/8/2021, 1:02:46 PM by admin

At the bottom, there are 'Edit' and 'Delete' buttons.

As with organizations, inventories also have associated users and teams that you can view through the **Access** tab. For more information, see [Inventories](#) in the *Automation controller User Guide*.

A user with the role of **System Administrator** has been automatically populated for this.

6.2. MANAGING GROUPS AND HOSTS

Inventories are divided into groups and hosts. Groups can represent a particular environment (such as a

"Datacenter 1" or "Stage Testing"), a server type (such as "Application Servers" or "DB Servers"), or any other representation of your environment. The groups and hosts that belong to the Demo inventory are shown in the **Groups** and **Hosts** tabs.

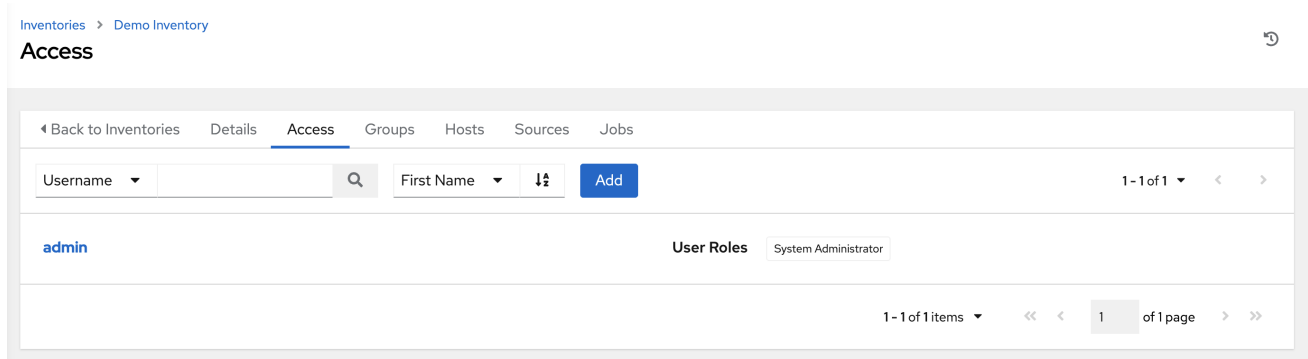
6.2.1. Adding new groups and hosts

Groups are only applicable to standard inventories and are not configurable directly through a Smart Inventory. You can associate an existing group through hosts that are used with standard inventories. For more information, see [Adding groups to inventories](#) in the *Automation controller User Guide*.

Procedure

1. From the navigation panel, select **Resources** → **Inventories**.
2. To add new groups, select the **Groups** tab and click **Add**.
3. To add new hosts to groups, select the **Hosts** tab and click **Add**.

As part of the initial setup and to test that automation controller is set up properly, a local host is added for your use.



Example

If the organization that you created has a group of web server hosts supporting a particular application, complete the following steps:

1. Create a group and add the web server hosts, to add these hosts to the inventory.
2. Click **Cancel** (if you made no changes) or use the breadcrumb navigational links at the top of the automation controller browser to return to the **Inventories** list view. Clicking **Save** does not exit the **Details** dialog.

CHAPTER 7. MANAGING CREDENTIALS

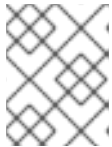
Credentials authenticate the controller user to launch Ansible playbooks. The passwords and SSH keys are used to authenticate against inventory hosts. By using the credentials feature of automation controller, you can require the automation controller user to enter a password or key phrase when a playbook launches.

7.1. CREATING NEW CREDENTIALS

As part of the initial setup, a demonstration credential and a Galaxy credential have been created for your use. Use the Galaxy credential as a template. It can be copied, but not edited. You can add more credentials as necessary.

Procedure

1. From the navigation panel, select **Resources** → **Credentials**.
2. To add a new credential, see [Creating a credential](#) in the *Automation controller User Guide*.



NOTE

When you set up additional credentials, the user you assign must have root access or be able to use SSH to connect to the host machine.

3. Click **Demo Credential** to view its details.

The screenshot shows the 'Details' page for a credential named 'Demo Credential'. The breadcrumb navigation is 'Credentials > Demo Credential'. The page title is 'Details'. There are three tabs: 'Back to Credentials', 'Details' (selected), and 'Access'. The main content area displays the following information:

| | | | | | |
|----------------|-------------------------------|------------------------|-------------------------------|-----------------|-------|
| Name | Demo Credential | Credential Type | Machine | Username | admin |
| Created | 4/8/2021, 1:02:45 PM by admin | Last Modified | 4/8/2021, 1:02:45 PM by admin | | |

At the bottom of the details section, there are two buttons: 'Edit' and 'Delete'.

7.2. EDITING A CREDENTIAL

As part of the initial setup, you can leave the default **Demo Credential** as it is, and you can edit it later.

Procedure

1. Edit the credential by using one of these methods:
 - Go to the credential Details page and click **Edit**.
 - From the navigation panel, select **Resources** → **Credentials**. Click **Edit** next to the credential name and edit the appropriate details.
2. Save your changes.

CHAPTER 8. MANAGING PROJECTS

A Project is a logical collection of Ansible playbooks, represented in automation controller. You can manage playbooks and playbook directories different ways:

- By placing them manually under the Project Base Path on your automation controller server.
- By placing your playbooks into a source code management (SCM) system supported by the automation controller. These include Git, Subversion, and Mercurial.



NOTE

This Getting Started Guide uses lightweight examples to get you up and running. But for production purposes, you must use source control to manage your playbooks. The best practice is to treat your infrastructure as code which is in line with DevOps ideals.

8.1. SETTING UP A PROJECT

Automation controller simplifies the startup process by providing you with a **Demo Project** that you can work with initially.

Procedure

1. To review existing projects, select **Resources** → **Projects** from the navigation panel.
2. Click **Demo Project** to view its details.

| ← Back to Projects | | Details | Access | Job Templates | Notifications | Schedules |
|---|---|--------------------------------|---------------------------------|---------------------------|--|------------------|
| Last Job Status | ✔ Successful | Name | Demo Project | | Organization | Default |
| Source Control Type | Git | Source Control Revision | 347e44f | Source Control URL | https://github.com/ansible/ansible-tower-samples | |
| Cache Timeout | 0 Seconds | Project Base Path | /var/lib/awx/projects | | Playbook Directory | _6__demo_project |
| Created | 5/25/2022, 10:49:44 AM by admin | Last Modified | 5/25/2022, 10:49:44 AM by admin | | | |
| Enabled Options | Update revision on job launch | | | | | |
| <input type="button" value="Edit"/> <input type="button" value="Sync"/> <input type="button" value="Delete"/> | | | | | | |

8.2. EDITING A PROJECT

As part of the initial setup you can leave the default **Demo Project** as it is. You can edit it later.

Procedure

1. Open the project to edit it by using one of these methods:
 - Go to the project Details page and click **Edit**.
 - From the navigation panel, select **Resources** → **Projects**. Click **Edit** next to the project name and edit the appropriate details.

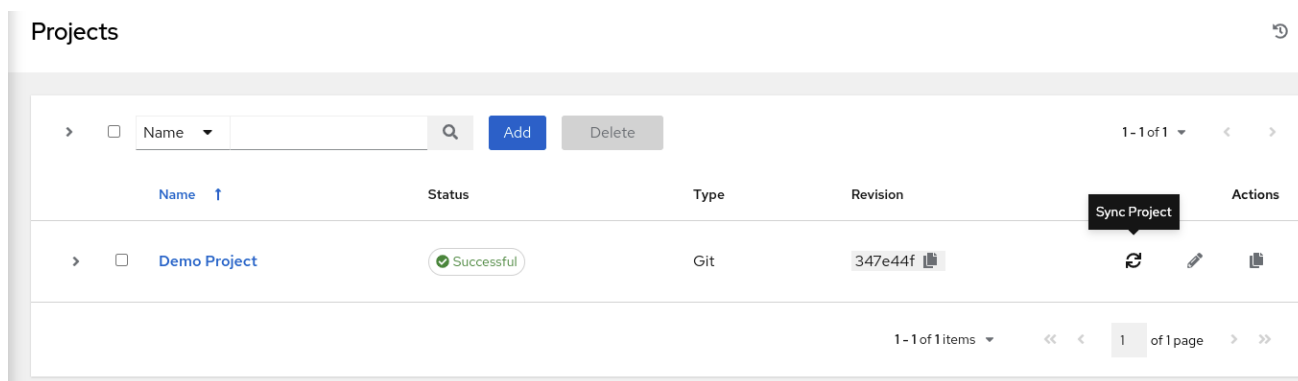
2. Save your changes

8.3. SYNCING A PROJECT

If you want to fetch the latest changes in a project, you can manually start an SCM sync for this project.

Procedure

1. Open the project to update the SCM-based demo project by using one of these methods:
 - Go to the project Details page and click **Sync**.
 - From the navigation panel, select **Resources** → **Projects** and click **Sync Project**.



The screenshot shows a table titled "Projects" with the following columns: Name, Status, Type, Revision, and Actions. The table contains one row for "Demo Project". The Status column for "Demo Project" shows a green checkmark and the word "Successful". The Revision column shows "347e44f". The Actions column has a "Sync Project" button highlighted with a black box, along with edit and delete icons. The table also includes search, add, and delete buttons at the top, and pagination controls at the bottom.



NOTE

When you add a project set up to use source control, a "sync" starts. This fetches the project details from the configured source control.

CHAPTER 9. WORKING WITH JOB TEMPLATES

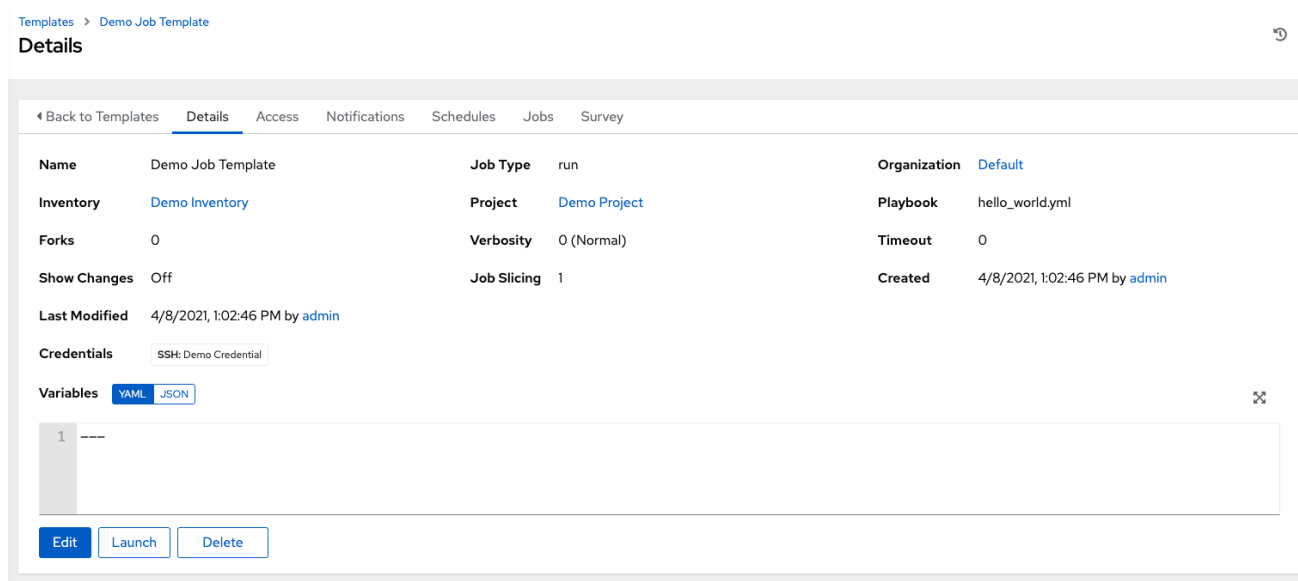
A job template combines an Ansible playbook from a project and the settings required to launch it. Job templates are useful to run the same job many times. Job templates also encourage the reuse of Ansible playbook content and collaboration between teams. For more information, see [Job Templates](#) in the *Automation controller User Guide*.

9.1. GETTING STARTED WITH JOB TEMPLATES

As part of the initial setup, a **Demo Job Template** is created for you.

Procedure

1. To review existing templates, select **Resources** → **Templates** from the navigation panel.
2. Click **Demo Job Template** to view its details.



9.2. EDITING A JOB TEMPLATE

As part of the initial setup, you can leave the default **Demo Job Template** as it is, but you can edit it later.

Procedure

1. Open the template to edit it by using one of these methods:
 - Click **Edit** in the job template Details page.
 - From the navigation panel, select **Resources** → **Templates**. Click **Edit** next to the template name and edit the appropriate details.
2. Save your changes.

Templates > Demo Job Template

Edit Details

Name *

Description

Job Type * ⓘ

Prompt on launch

Inventory * ⓘ

Project * ⓘ

Execution Environment ⓘ

Prompt on launch

Playbook * ⓘ

Credentials ⓘ

Labels ⓘ

Variables ⓘ

YAML
JSON

1 ---

2

Forks ⓘ

Limit ⓘ

Prompt on launch

Verbosity ⓘ

Prompt on launch

Job Slicing ⓘ

Timeout ⓘ

Show Changes ⓘ

 Prompt on launch

Off

Instance Groups ⓘ

Job Tags ⓘ

Skip Tags ⓘ

Options

Privilege Escalation ⓘ
 Provisioning Callbacks ⓘ
 Enable Webhook ⓘ
 Concurrent Jobs ⓘ
 Enable Fact Storage ⓘ

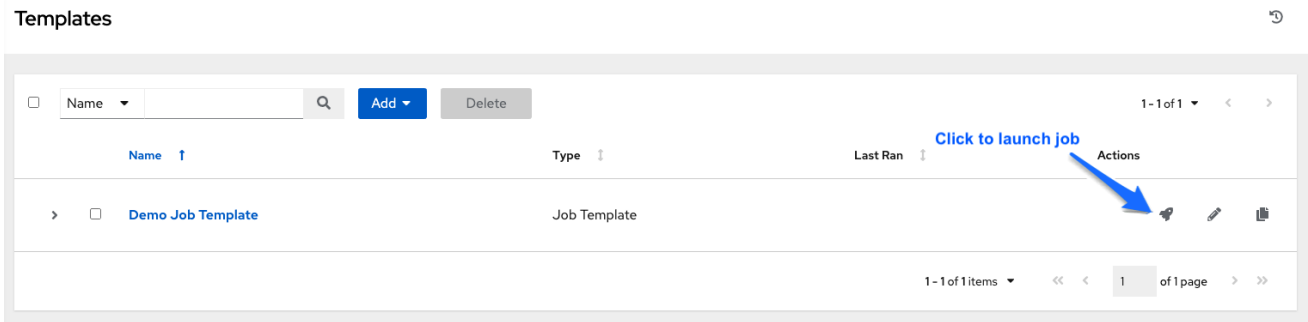
3. To exit after saving and return to the **Templates** list view, use the breadcrumb navigation links or click **Cancel**. Clicking **Save** does not exit the **Details** dialog.

9.3. RUNNING A JOB TEMPLATE

A benefit of automation controller is the push-button deployment of Ansible Playbooks. You can configure a template to store all the parameters that you would normally pass to the Ansible Playbook on the command line. In addition to the playbooks, the template passes the inventory, credentials, extra variables, and all options and settings that you can specify on the command line.

Procedure

- From the navigation panel, select **Resources** → **Templates** and click **Launch** next to the job template.



The initial job start generates a status page, which updates automatically by using automation controller's Live Event feature, until the job is complete.

For more information about the job results, see [Jobs in automation controller](#) in the *Automation controller User Guide*.

Additional resources

To learn more about these automation controller features or to learn about administration tasks and the controller API, see the following documentation sets:

- [Automation controller User Guide](#)
- [Red Hat Ansible Automation Platform Installation Guide](#)
- [Automation controller Administration Guide](#)
- [Automation Controller API Guide](#)
- [Automation controller Release Notes](#)
- [Product Documentation for Red Hat Ansible Automation Platform](#)