
Ansible Tower Quick Setup Guide

Release Ansible Tower 3.8.0

Red Hat, Inc.

Feb 11, 2023

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Thank you for your interest in Ansible Tower. Ansible Tower is a commercial offering that helps teams manage complex multi-tier deployments by adding control, knowledge, and delegation to Ansible-powered environments.

The *Ansible Automation Platform Quick Setup Guide* covers basic steps for using Ansible Tower and running your first playbook. This document has been updated to include information for the latest release of Ansible Tower v3.8.0.

We Need Feedback!

If you spot a typo in this documentation, or if you have thought of a way to make this manual better, we would love to hear from you! Please send an email to: docs@ansible.com

If you have a suggestion, try to be as specific as possible when describing it. If you have found an error, please include the manual's title, chapter number/section number, and some of the surrounding text so we can find it easily. We may not be able to respond to every message sent to us, but you can be sure that we will be reading them all!

Ansible Tower Version 3.8.0; November 18, 2020; <https://access.redhat.com/>

QUICK START

Welcome to the Ansible Tower Quick Start Guide. At the end of the Quick Start, you will have a functioning Tower application that you can use to launch more sophisticated playbooks. You can expect the Quick Start process to take less than thirty minutes.

To begin, you must install Ansible Automation Platform and you must choose a target system where an initial playbook can be deployed (provided by Ansible Tower). Refer to [Ansible Automation Platform Installation and Reference Guide](#) for more information.

This first playbook executes simple Ansible tasks, while teaching you how to use Tower, as well as ensuring its proper setup. This can be any sort of system manageable by Ansible, as described at: https://docs.ansible.com/ansible/latest/installation_guide/intro_installation.html#managed-node-requirements.

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, refer to [Licensing, Updates, and Support](#) in the *Ansible Automation Platform Installation and Reference Guide*.

LOGIN AS A SUPERUSER


Using the login information provided after your installation completed, open a web browser and log in to Tower by browsing to the Tower server URL at: `https://<TOWER_SERVER_NAME>/`

Refer to [Playbook setup](#) in the *Ansible Automation Platform Installation and Reference Guide* for more information.

Note: Tower installs a self-signed certificate for HTTPS communication which may require acceptance in your browser. Refer to the [General Installation Notes](#) in the *Tower Installation and Reference Guide* for help with replacing this certificate if needed.

Once the Tower UI is accessible, use the credentials specified during the installation process to login. The default username is `admin`. The password for `admin` is the value specified for `admin_password` in your inventory file.



These defaults can be changed later by clicking the Users () icon from the left navigation bar.

A screenshot of the Ansible Tower login interface. At the top left is the Ansible Tower logo, which consists of a red circle with a white 'A' inside, followed by the text 'ANSIBLE TOWER by Red Hat'. Below the logo, the text 'Welcome to Ansible Tower! Please sign in.' is displayed. Underneath, there are two input fields: 'USERNAME' with the text 'admin' entered, and 'PASSWORD' with a series of dots representing a masked password. A green 'SIGN IN' button is located at the bottom right of the form area.

 **ANSIBLE TOWER**
by Red Hat

Welcome to Ansible Tower! Please sign in.

USERNAME

admin

PASSWORD

.....

SIGN IN

IMPORT A SUBSCRIPTION

Starting with 3.8, Ansible Tower uses available subscriptions or a subscription manifest to authorize the use of Tower. Previously, Tower used a license key and a JSON dictionary of license metadata. Even if you already have valid licenses from previous versions, you must still provide your credentials or a subscriptions manifest again upon upgrading to Ansible Tower 3.8. To obtain your Tower subscription, you can either:

1. Provide your Red Hat or Satellite username and password on the license page.
2. Obtain a subscriptions manifest from your Subscription Allocations page on the customer portal. See [Obtaining a subscriptions manifest](#) for more detail.

If you **have** a Red Hat Ansible Automation Platform subscription, use your Red Hat customer credentials when you launch Tower to access your subscription information (see instructions below).

If you **do not** have a Red Hat Ansible Automation Platform subscription, you can request a trial subscription [here](#) or click **Request Subscription** and follow the instructions to request one.

Disconnected environments with Satellite will be able to use the login flow on vm-based installations if they have configured subscription manager on the Tower instance to connect to their Satellite instance. Recommended workarounds for disconnected environments **without Satellite** include [1] downloading a manifest from access.redhat.com in a connected environment, then uploading it to the disconnected Tower instance, or [2] connecting to the Internet through a proxy server.

Note: In order to use a disconnected environment, it is necessary to have a valid Ansible Tower entitlement attached to your Satellite organization's manifest. This can be confirmed by using `hammer subscription list --organization <org_name>`.

If you have issues with the subscription you have received, please contact your Sales Account Manager or Red Hat Customer Service at <https://access.redhat.com/support/contact/customerService/>.

When Tower launches for the first time, the Tower Subscription screen automatically displays.

TOWER SUBSCRIPTION

Welcome to Red Hat Ansible Automation Platform! Please complete the steps below to activate your subscription.

- If you do not have a subscription, you can visit Red Hat to obtain a trial subscription.
- Select your Ansible Automation Platform subscription to use.

Upload a Red Hat Subscription Manifest containing your subscription. To generate your subscription manifest, go to [subscription allocations](#) on the Red Hat Customer Portal.

• RED HAT SUBSCRIPTION MANIFEST

No file selected.

OR

Provide your Red Hat or Red Hat Satellite credentials below and you can choose from a list of your available subscriptions. The credentials you use will be stored for future use in retrieving renewal or expanded subscriptions.

USERNAME

PASSWORD
- Agree to the End User License Agreement, and click submit.

• END USER LICENSE AGREEMENT

ANSIBLE TOWER BY RED HAT END USER LICENSE AGREEMENT

This end user license agreement ("EULA") governs the use of the Ansible Tower software and any related updates, upgrades, versions, appearance, structure and organization (the "Ansible Tower Software"), regardless of the delivery mechanism.

1. License Grant. Subject to the terms of this EULA, Red Hat will, and its affiliates shall, license to you (the "User") a non-exclusive, non-transferable, limited license to use the Ansible Tower Software on a single system.

I agree to the End User License Agreement

TRACKING AND ANALYTICS

By default, Tower collects and transmits analytics data on Tower usage to Red Hat. There are two categories of data collected by Tower. For more information, see [this Tower documentation page](#). Uncheck the following boxes to disable this feature.

 - User analytics:** This data is used to enhance future releases of the Tower Software and help streamline customer experience and success.
 - Automation analytics:** This data is used to enhance future releases of the Tower Software and to provide Automation Analytics to Tower subscribers.

Use your Red Hat credentials (username and password) to retrieve and import your subscription, or upload a subscription manifest you generate from https://access.redhat.com/management/subscription_allocations.

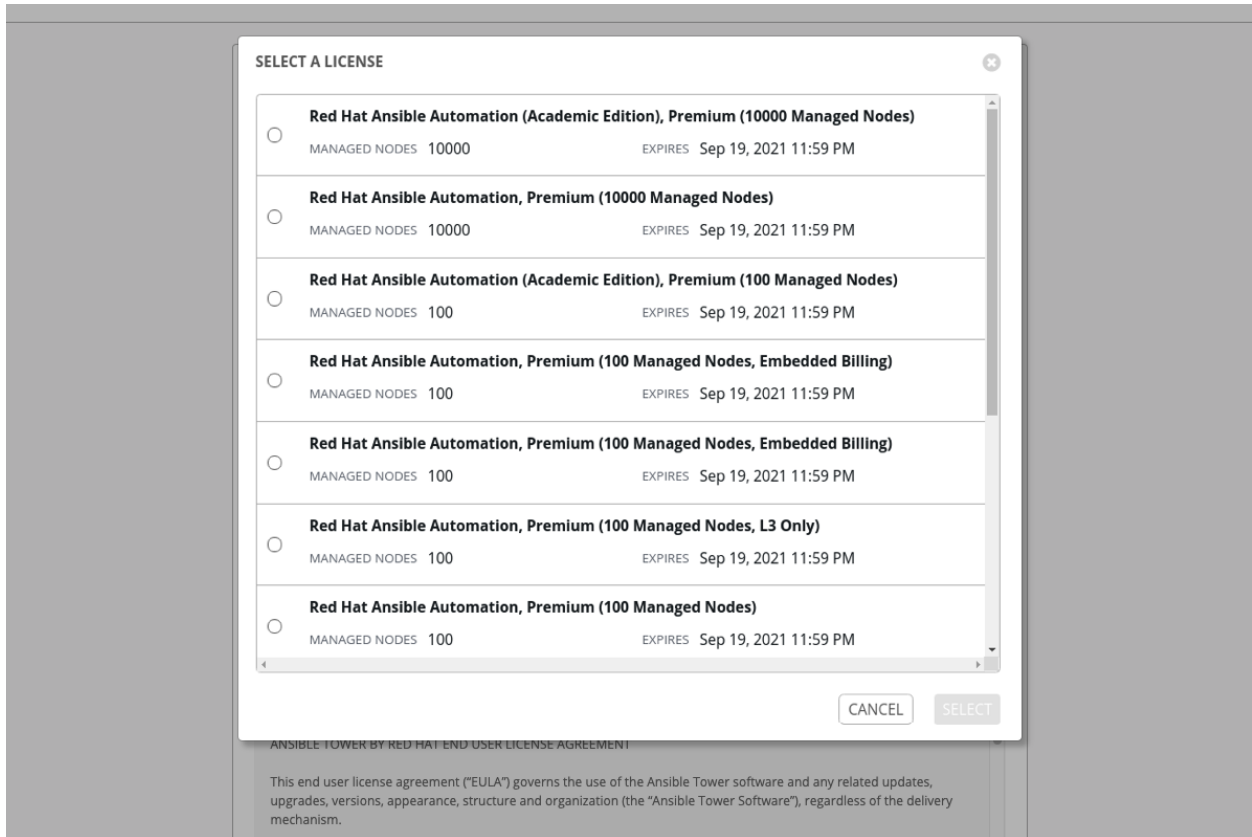
1. Enter your Red Hat customer credentials (username and password) and click **Get Subscriptions**. Use your Satellite username/password if your Tower cluster nodes are registered to Satellite via Subscription Manager. See [Installing Satellite instances on Tower](#) for more information.

Alternatively, if you have a subscriptions manifest, you can upload it by browsing to the location where the file is saved to upload it (the subscription manifest is the complete .zip file, not its component parts). See [Obtaining a subscriptions manifest](#) for more detail.

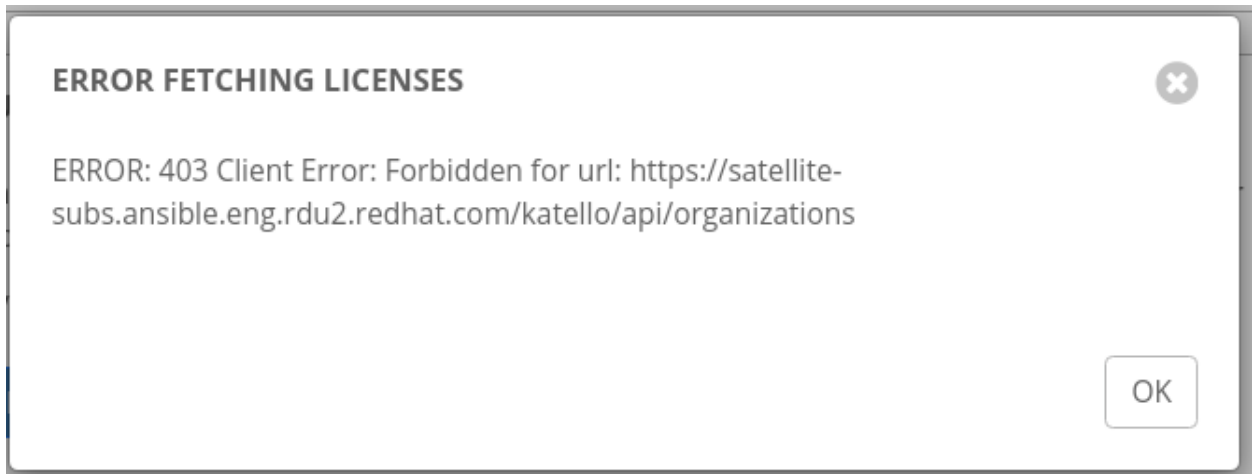
Note: If the **Browse** button is grayed-out, clear the username and password fields to enable the **Browse** button.

2. The subscription metadata is then retrieved from the RHSM/Satellite API, or from the manifest provided.
 - If it is a subscription manifest, Tower will use the first valid subscription included in your manifest file. This is why it is important to only include the subscription you want applied to the Tower installation.
 - If you entered your credential information (username/password), Tower retrieves your configured subscription service. Then it prompts you to choose the subscription you want to run (the example below shows multiple subscriptions) and entitles Tower with that metadata. You can log in over time and retrieve new subscriptions if you have renewed.

Note: When your subscription expires (you can check this on the License settings in the Configure Tower screen of the UI), you will need to renew it in Tower by one of these two methods.



If you encounter the following error message, you will need the proper permissions required for the Satellite user with which the Tower admin uses to apply a subscription.



The Satellite username/password is used to query the Satellite API for existing subscriptions. From the Satellite API, Tower gets back some metadata about those subscriptions, then filter through to find valid subscriptions that you could apply, which 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 Admin
- Manager

As the *Custom* role is the most restrictive of these, this is the recommend role to use for your Tower integration. Refer to the [Satellite documentation](#) on managing users and roles for more detail.

Note: The System Administrator role is not equivalent to the Administrator user checkbox, and will not provide sufficient permissions to access the subscriptions API page.

3. Proceed by checking the **End User License Agreement**.
4. The bottom half of the license screen involves analytics data collection. This helps Red Hat improve the product by delivering you a much better user experience. For more information about data collection, refer to [Usability Analytics and Data Collection](#). This option is checked by default, but you may opt out of any of the following:
 - **User analytics** collects data from the Tower User Interface.
 - **Automation analytics** provides a high level analysis of your automation with Ansible Tower, which is used to help you identify trends and anomalous use of Tower. For opt-in of Automation Analytics to have any effect, your instance of Ansible Tower **must** be running on Red Hat Enterprise Linux. See instructions described in the [Automation Analytics](#) section.

Note: At this time, Automation Insights is not supported when Ansible Tower is running in the OpenShift Container Platform. You may change your analytics data collection preferences at any time, as described in the [Usability Analytics and Data Collection](#) section.

5. After you have specified your tracking and analytics preferences, click **Submit**.


Once your subscription has been accepted, Tower briefly displays the license screen and navigates you to the Dashboard of the Ansible Tower interface. For later reference, you can return to the license screen by clicking the Settings




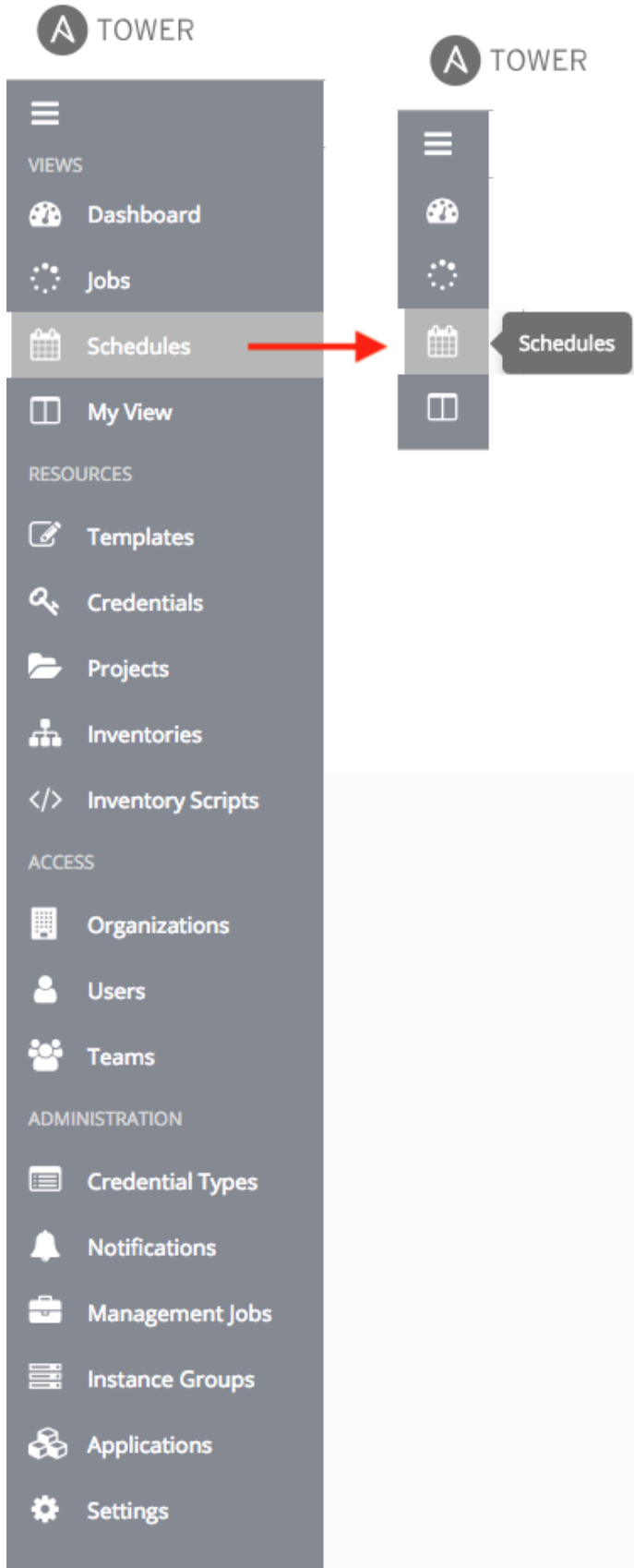
() icon from the left navigation bar and select the **License** tab from the Settings screen.

EXAMINE THE TOWER DASHBOARD

The Tower Dashboard offers a friendly graphical framework for your IT orchestration needs. Along the left side of the Tower Dashboard is the navigation menu, where you can quickly navigate to your **Projects**, **Inventories**, **Job**

Templates, and **Jobs**. Access to these elements are no longer in the settings () menu.

Click on the Menu  icon at the top of the left navigation and the navigation bar expands to show icons and labels; and collapses to show only the icons. View the labels without expanding the menu by hovering over the icons.

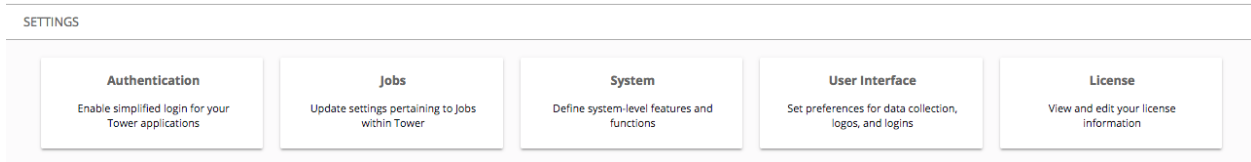




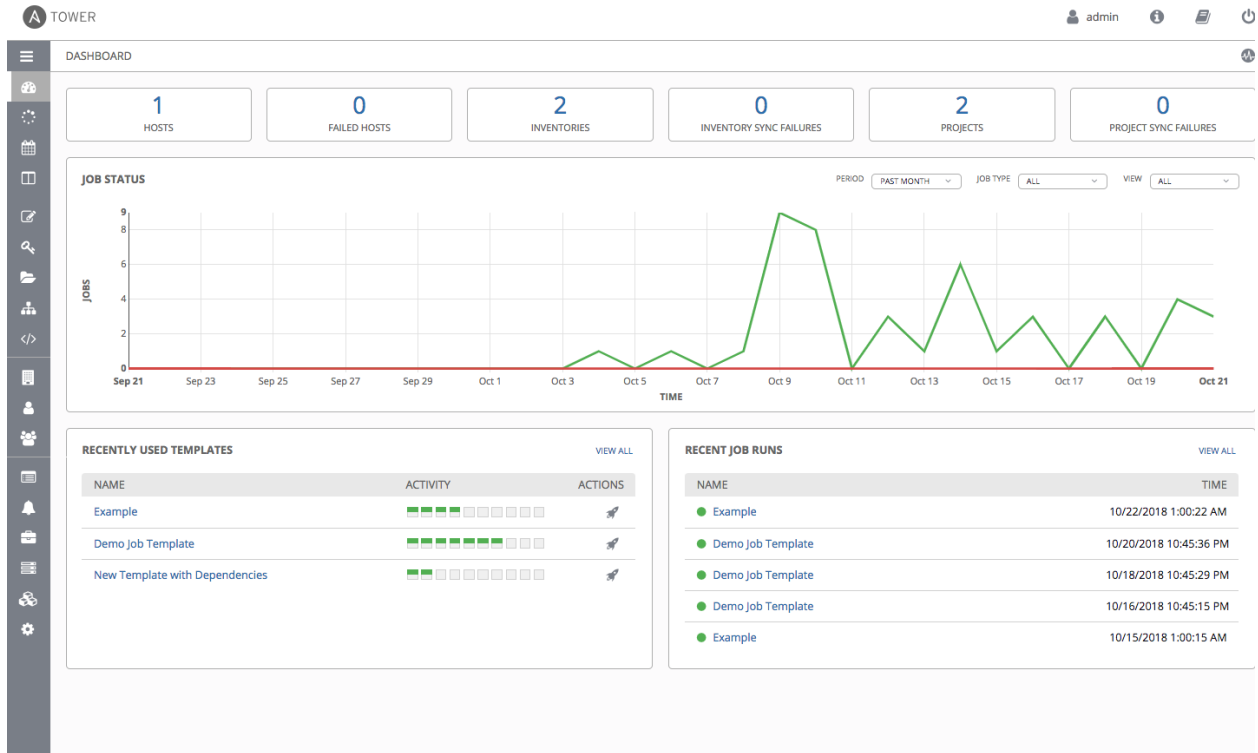
The very last item in the navigation bar is the Settings () icon, which provides access to the Tower configuration Settings.




The Settings page allows administrators to configure authentication, jobs, system-level attributes and customize the user interface. Previous versions of Ansible Tower (3.2.x and older) provide the Settings menu at the top of the interface next to the user and logout buttons. Refer to [Tower Configuration](#) section for more detail. Additionally, you can now access the product license information from this page.



On the main Tower Dashboard screen, a summary appears listing your current **Job Status**. Also available for review are summaries of **Recently Used Templates** and **Recent Job Runs**.



Regardless of the window or action you're performing, the very top of each page next to the your user icon is the About () icon, which provides you the versions of Ansible Tower and Ansible you are currently running.

Note: Keep in mind that the goal of this Quick Start is to launch a simple playbook. To do this, a number of configuration options must be setup. Completing the quick start configuration tasks now ensures that Tower is configured properly and allows for easier executions of more involved playbooks later on.

THE SETTINGS PAGE



To enter the Settings window for Ansible Tower, click the Settings icon at the bottom of the left navigation bar. This page allows you to modify your Tower's configuration, such as settings associated with authentication, jobs, system, user interface, and view or import your license.

SETTINGS


Authentication Enable simplified login for your Tower applications	Jobs Update settings pertaining to Jobs within Tower	System Define system-level features and functions	User Interface Set preferences for data collection, logos, and logins	License View and edit your license information
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For more information on configuring these settings, refer to [Tower Configuration](#) section of the *Ansible Tower Administration Guide*.

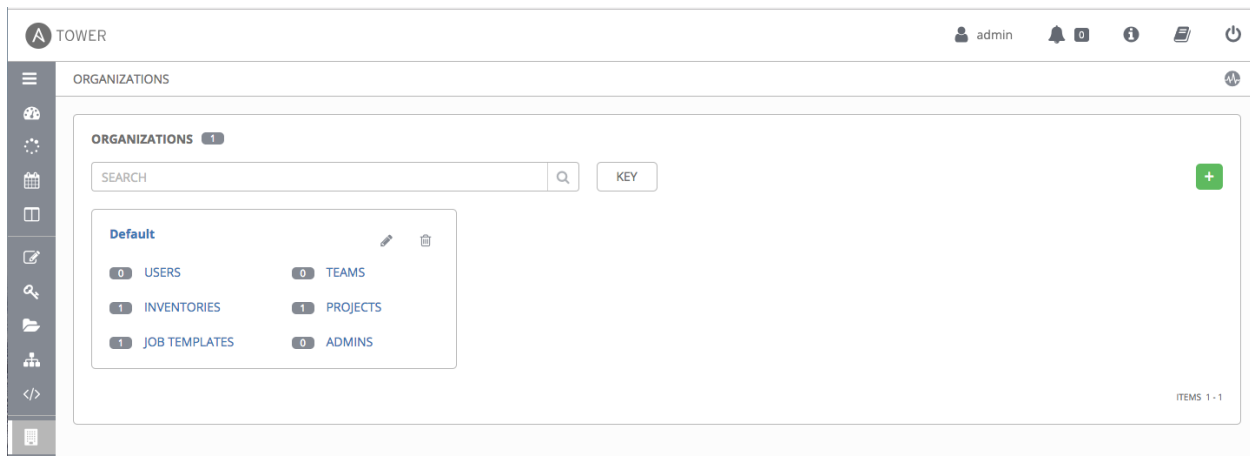
REVIEW THE ORGANIZATION

An organization is a logical collection of users, teams, projects, and inventories. It is the highest level object in the Tower object hierarchy.



From the left navigation bar, click the Organizations () icon.


Note: Ansible Tower creates a default organization automatically. Users of Tower with a Self-support level license only have the default organization available and should **not** delete it. Users of older versions of Tower (prior to 2.2) will not see this default organization.

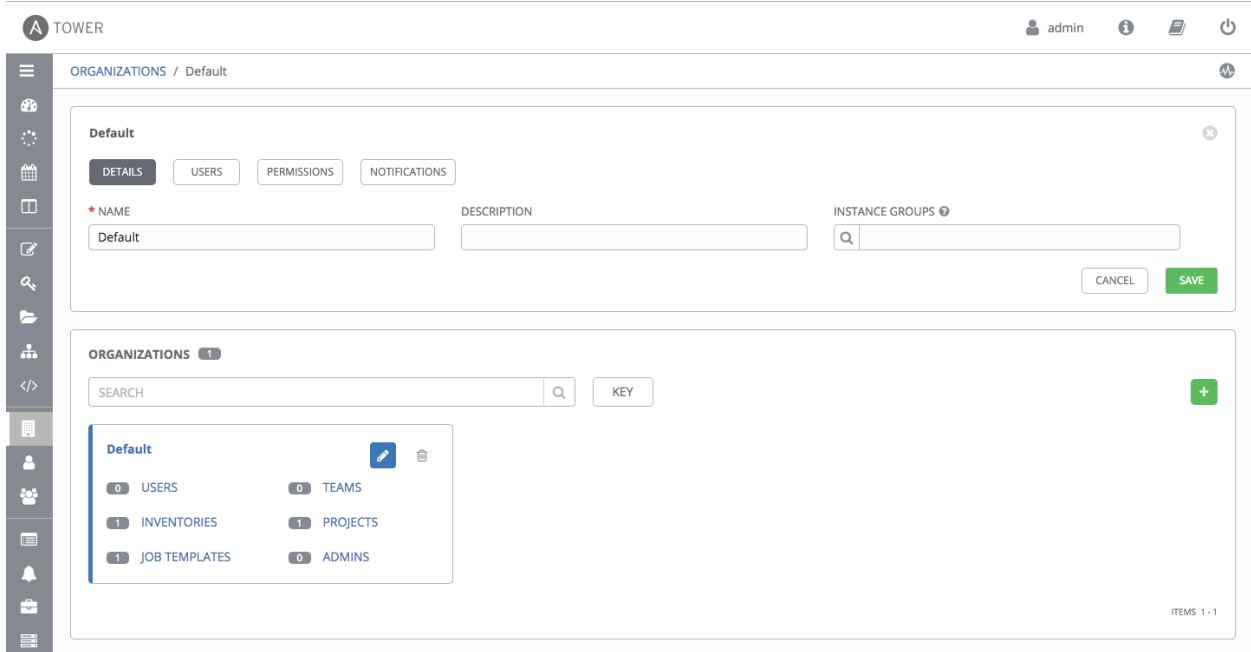


A default organization has been automatically created and is available to all users of Ansible Tower. It can be used as is or edited later as needed.

For the purpose of this Quick Start Guide, leave the default organization as is and click **Save**.

Note: If you are using Ansible Tower with a Basic license, you must use the default organization. Only Enterprise or Premium Tower licenses have the ability to add new organizations beyond the default.

To edit the default organization later, expand its 'Properties' by clicking on the Edit () button and entering the appropriate details, then save your changes.




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

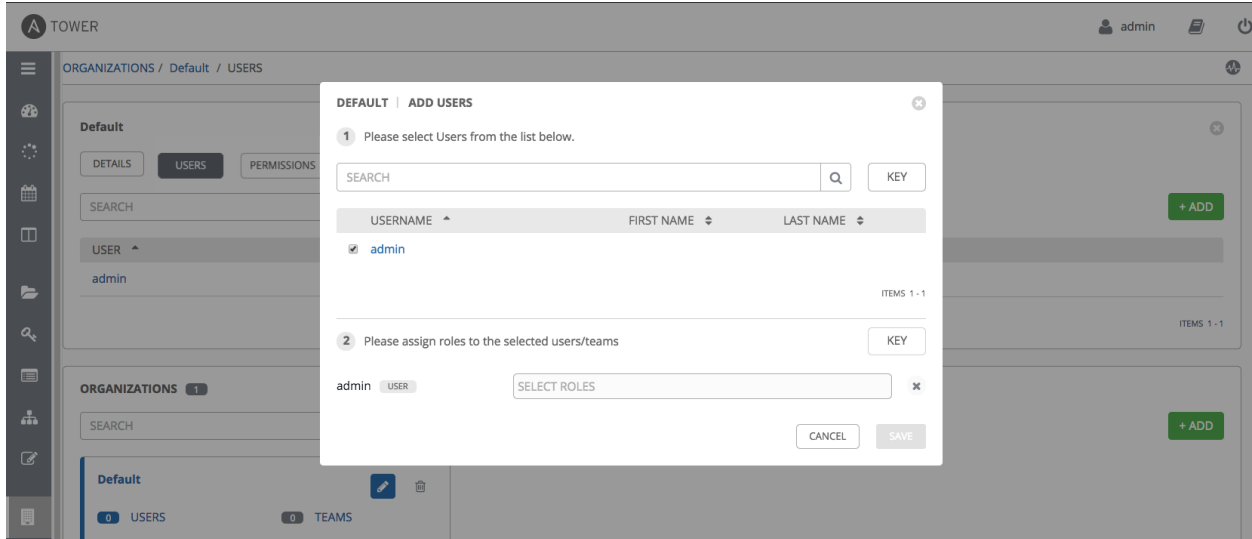
ADD A USER TO THE ORGANIZATION

Expand the Users details by clicking on the **Users** tab of the default organization you just saved (not from the left navigation bar).

The screenshot shows the Tower web interface. At the top, there's a navigation bar with 'TOWER' on the left and user 'admin' on the right. Below that, the breadcrumb 'ORGANIZATIONS / Default / USERS' is visible. The main content area is divided into two sections. The top section is for the 'Default' organization, with tabs for 'DETAILS', 'USERS', 'PERMISSIONS', and 'NOTIFICATIONS'. The 'USERS' tab is active, showing a search bar and a table with one user: 'admin' with the role 'SYSTEM ADMINISTRATOR'. A green '+ Add User' button is in the top right of this section. The bottom section is titled 'ORGANIZATIONS 1' and shows a search bar and a summary of organization statistics: 'Default' with '0' users, '0' teams, '1' inventory, '1' project, '1' job template, and '0' admins. A green '+ Add User' button is also present in the top right of this section.

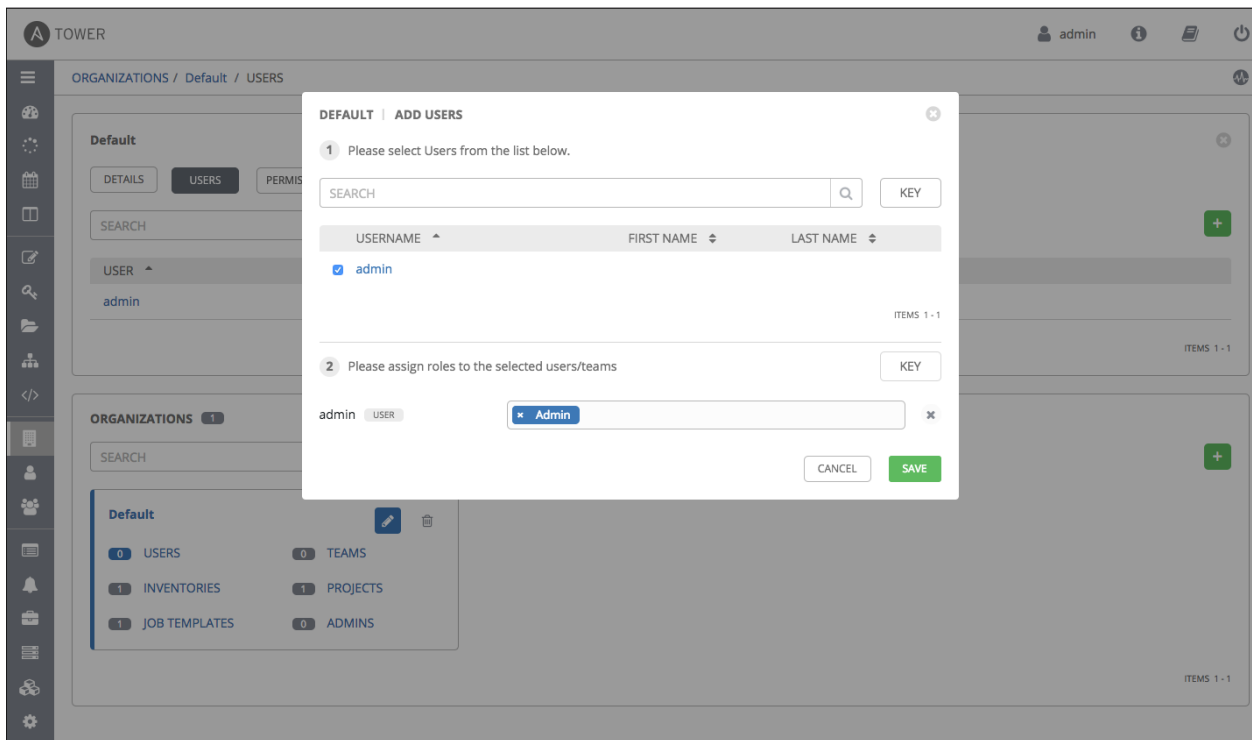


1. To add a user, click the  button.
2. Since other users have not yet been created, the “admin” user is the only user listed. Select the checkbox beside the “admin” user to select it for this organization. Doing so expands the lower part of the Wizard to assign roles to the selected user.



3. Click from the drop-down menu to select one or more roles for that user.

Note: For help on what the roles mean, click the **Key** button. For more information, refer to the [Roles](#) section of this guide.



In this example, the admin user has been selected and assigned the admin role within this organization.

4. When done, click **Save**.

After saving, the organization's user information becomes available for viewing and the new user you created appears on the list.

TOWER admin

ORGANIZATIONS / Default / USERS

Default

DETAILS **USERS** PERMISSIONS NOTIFICATIONS

SEARCH KEY +



USER	ROLE
admin	x ADMIN SYSTEM ADMINISTRATOR

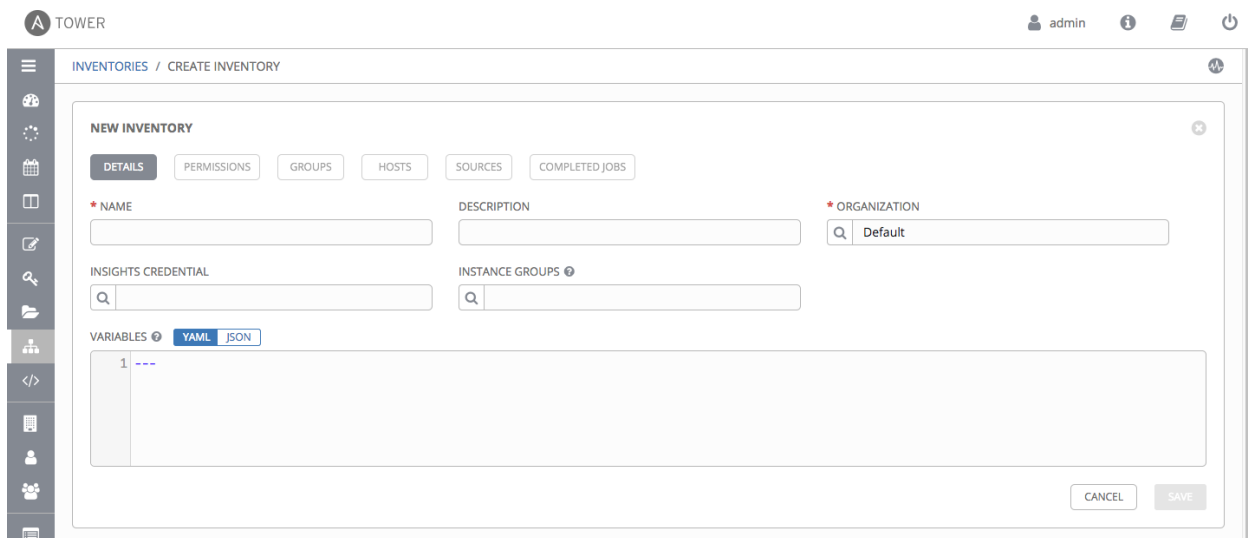
ITEMS 1 - 1

CREATE A NEW INVENTORY AND ADD IT TO THE ORGANIZATION

An inventory is a collection of hosts managed by Tower. Inventories are assigned to organizations, while permissions to launch playbooks against inventories are controlled at the user and/or team level. For more information, refer to [Inventories](#), [Users - Permissions](#), and [Teams - Permissions](#) in the *Ansible Tower User Guide*.

To review existing inventories:

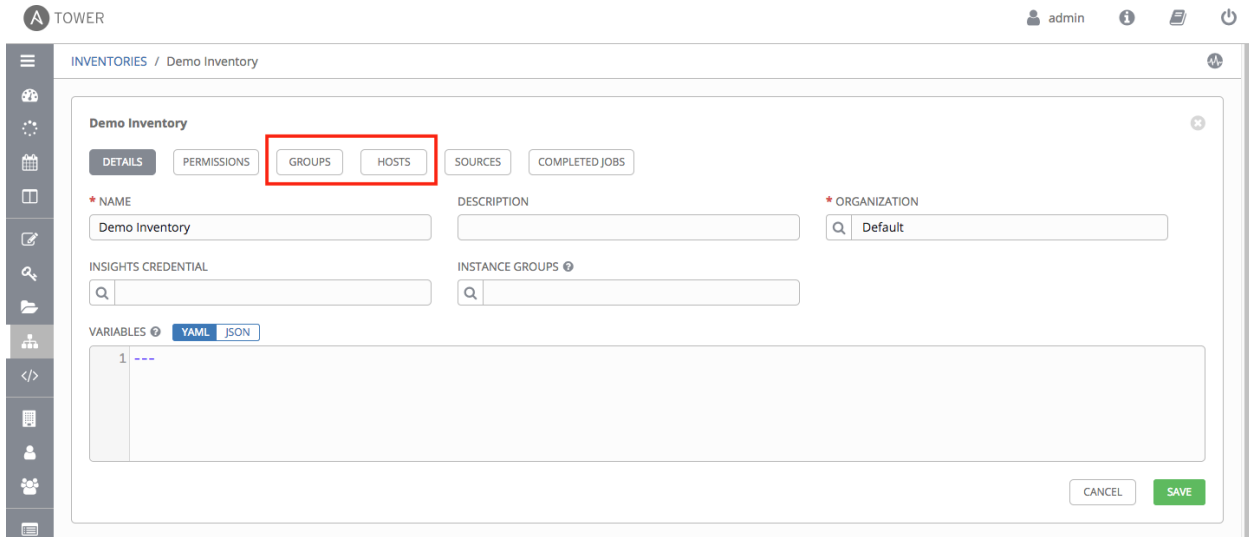
1. Click the Inventories () icon from the left navigation bar.
2. Click the  button and select **Inventory** from the drop-down menu list. Smart Inventories are described in further detail in [Smart Inventories](#).



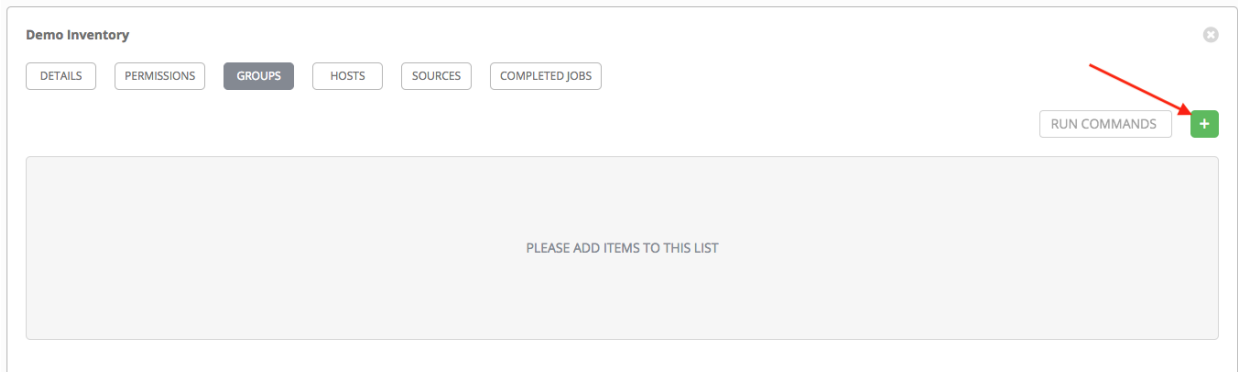
Ansible Tower provides a demo inventory for you to use as you learn how Tower works. Click on the “Demo Inventory” link for the stock inventory provided by Ansible Tower.

8.1 Groups and Hosts

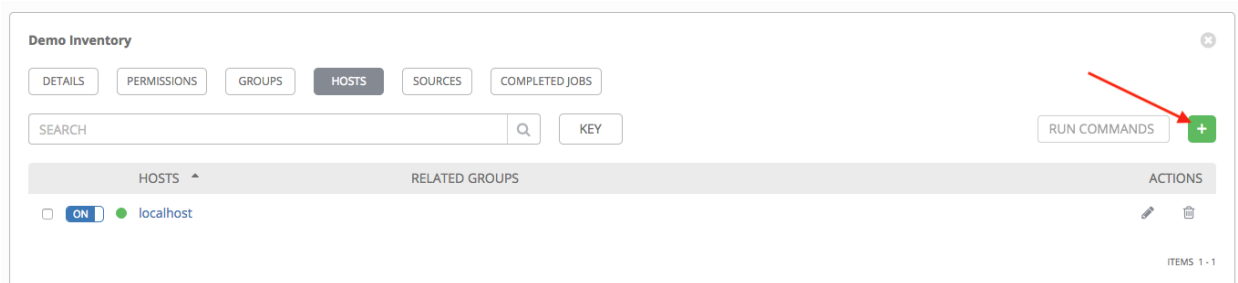
Note that inventories are divided into groups and hosts. A group might represent a particular environment (e.g. “Datacenter 1” or “Stage Testing”), a server type (e.g. “Application Servers” or “DB Servers”), or any other representation of your environment. The groups and hosts that belong to the Demo inventory are shown in the **Groups** and **Hosts** tabs, respectively.



1. In the **Groups** tab, click the  button to add groups to the inventory.



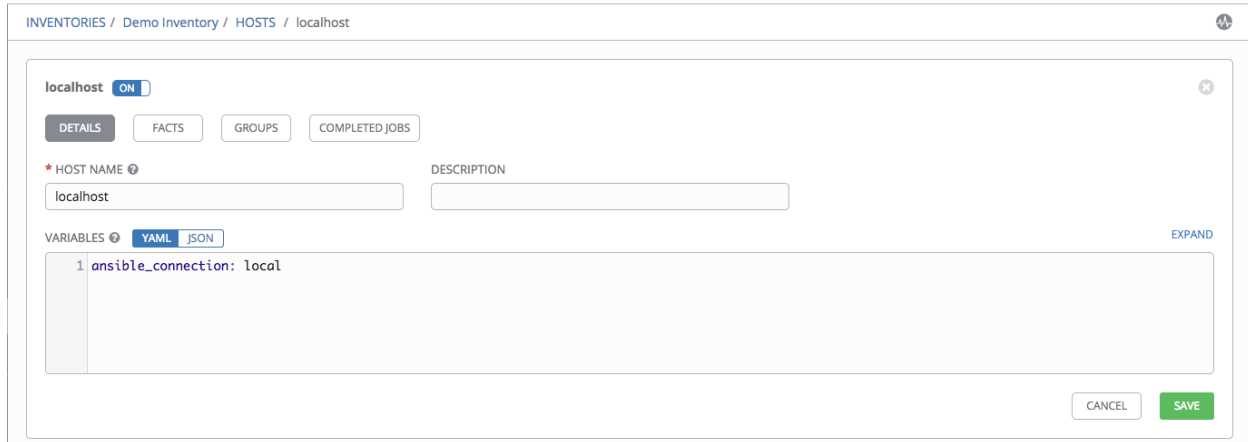
2. Similarly, in the **Hosts** tab, click the  button to add hosts to groups.



Note: Prior to Ansible Tower 2.2, hosts could not be added to the Web Servers inventory before adding a group. If you are using an older version of Tower, click the “Plus” button above the ‘Groups’ section to add a group before adding a host.

For this example, suppose that the organization you created earlier has a group of web server hosts supporting the corporate CMS application. To add these hosts to the Web Servers inventory, create a “CMS Web” group. Click the **Save** button to create the group.

For the purposes of this Quick Start and to test that Tower is setup properly, a local host has been added for your use.




The screenshot displays the Ansible Tower web interface for editing a host. The breadcrumb navigation at the top reads "INVENTORIES / Demo Inventory / HOSTS / localhost". The host name "localhost" is shown with a status indicator "ON". Below this are four tabs: "DETAILS" (selected), "FACTS", "GROUPS", and "COMPLETED JOBS". The "HOST NAME" field contains "localhost" and the "DESCRIPTION" field is empty. Under the "VARIABLES" section, the "YAML" tab is active, showing a single variable: "1 ansible_connection: local". The "JSON" tab is also visible. At the bottom right, there are "CANCEL" and "SAVE" buttons.

Click **Cancel** (if no changes were made) or use the breadcrumb navigational links at the top of the Ansible Tower browser to return to the Inventories overview screen. Clicking **Save** does not exit the edit dialog.

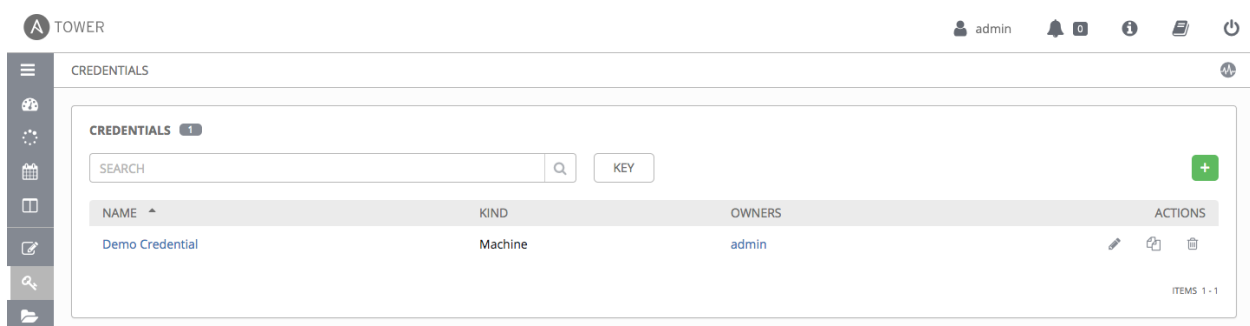
CREATE A CREDENTIAL

Credentials authenticate the Tower user to launch Ansible playbooks, which can include passwords and SSH keys, against inventory hosts. You can also require the Tower user to enter a password or key phrase when a playbook launches using the credentials feature of Tower.



Create a new credential by clicking the Credentials () icon from the left navigation bar.

Note: When setting up additional credentials, keep in mind that the user you assign must have root access or be able to use SSH to connect to the host machine.



For the purpose of this Quick Start, a demo credential has been provided for your use.

Click on the “Demo Credential” link name or the Edit () button to review or edit this credential.

Demo Credential

DETAILS | PERMISSIONS

* NAME ? DESCRIPTION ? ORGANIZATION

* CREDENTIAL TYPE ?

TYPE DETAILS

USERNAME PASSWORD Prompt on launch

SSH PRIVATE KEY HINT: Drag and drop private file on the field below.

SIGNED SSH CERTIFICATE HINT: Drag and drop private file on the field below.

PRIVATE KEY PASSPHRASE Prompt on launch PRIVILEGE ESCALATION METHOD ? PRIVILEGE ESCALATION USERNAME


PRIVILEGE ESCALATION PASSWORD Prompt on launch

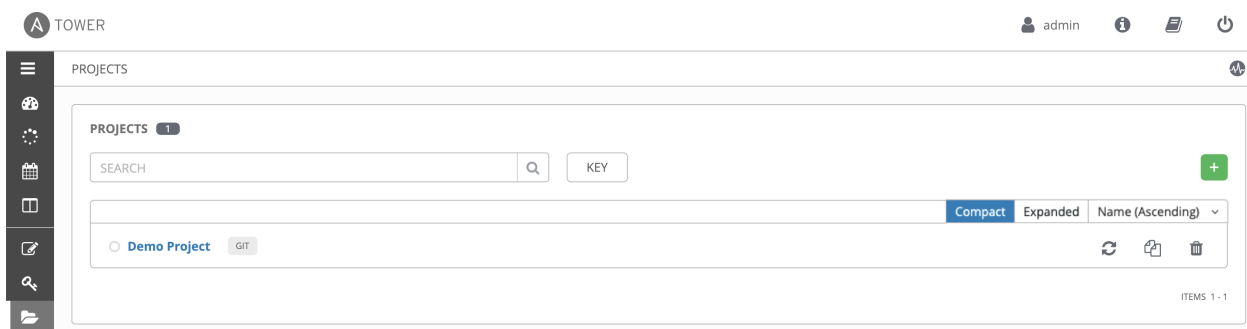
SETTING UP A PROJECT

A Project is a logical collection of Ansible playbooks, represented in Tower.


You can manage playbooks and playbook directories by either placing them manually under the Project Base Path on your Tower server, or by placing your playbooks into a source code management (SCM) system supported by Tower, including Git, Subversion, and Mercurial.

Note: It is recommended that, whenever possible, you use source control to manage your playbooks. This type of best practice provides the ability to treat your infrastructure as code and is in line with DevOps ideals. While this Quick Start Guide uses lightweight examples to get you up and running, we suggest using source control to manage playbook for production purposes.

To review existing projects or to create a new one, click the Projects () icon from the left navigation bar.



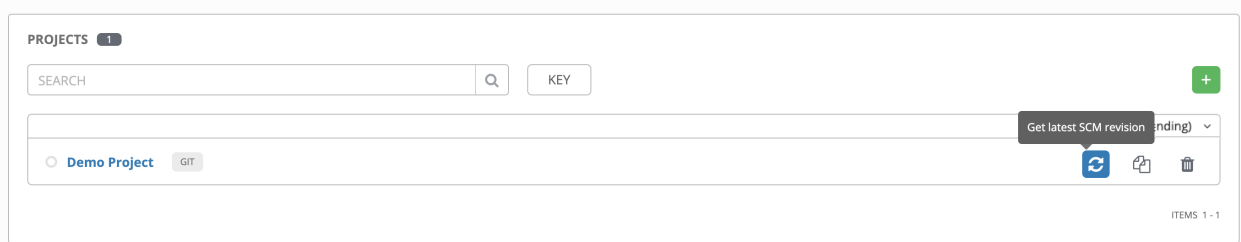
Ansible Tower simplifies the getting started process by providing you with a Demo Project to work with initially.

Click on the “Demo Project” name link or click on the Edit () button to review the stock project provided by Ansible Tower.

Click **Cancel** (if no changes were made) or use the breadcrumb navigational links at the top of the Ansible Tower browser to return to the Inventories overview screen. Clicking **Save** does not exit the edit dialog.

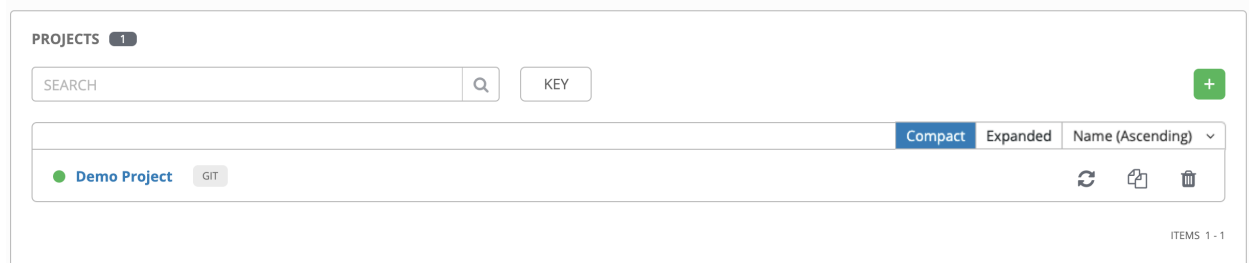
Before this project can be used in a job template, you must manually start an SCM sync for this project. Update the

SCM-based demo project by clicking the  button under the project's available Actions:




Note: Please note that immediately after adding new projects setup to use source control, a “sync” automatically starts that fetches the project details from the configured source control. Because the “Demo” project is pre-stocked, however, you must manually start the inventory sync in order for this project to be used in a job template.

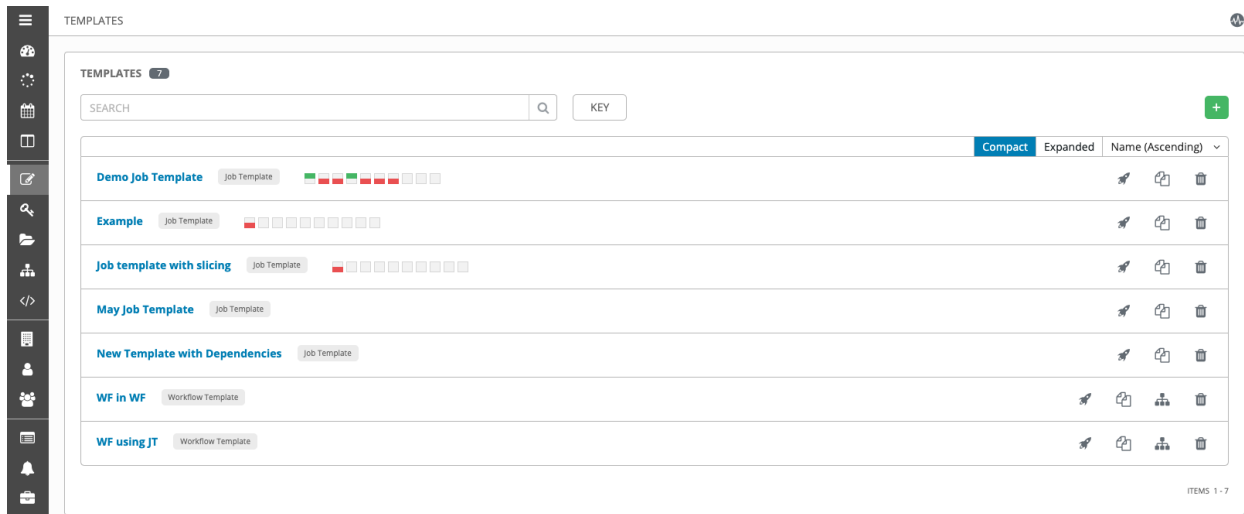
Notice that the status dot beside the name of the project, the revision, and the last run information updates once the sync has completed.




CREATE A NEW JOB TEMPLATE

A job template combines an Ansible playbook from a project and the settings required to launch it. Review existing

jobs or create a new job template by clicking the Templates () icon from the left navigation bar.




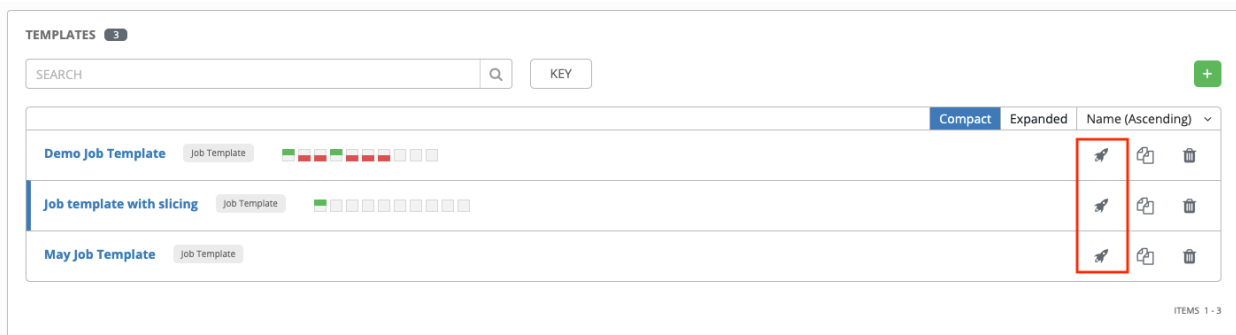
For the purpose of this Quick Start, a Demo Job Template has been created for your initial use.

Click on the “Demo Job Template” name link or click on the Edit () button to review the stock job template provided by Ansible Tower.

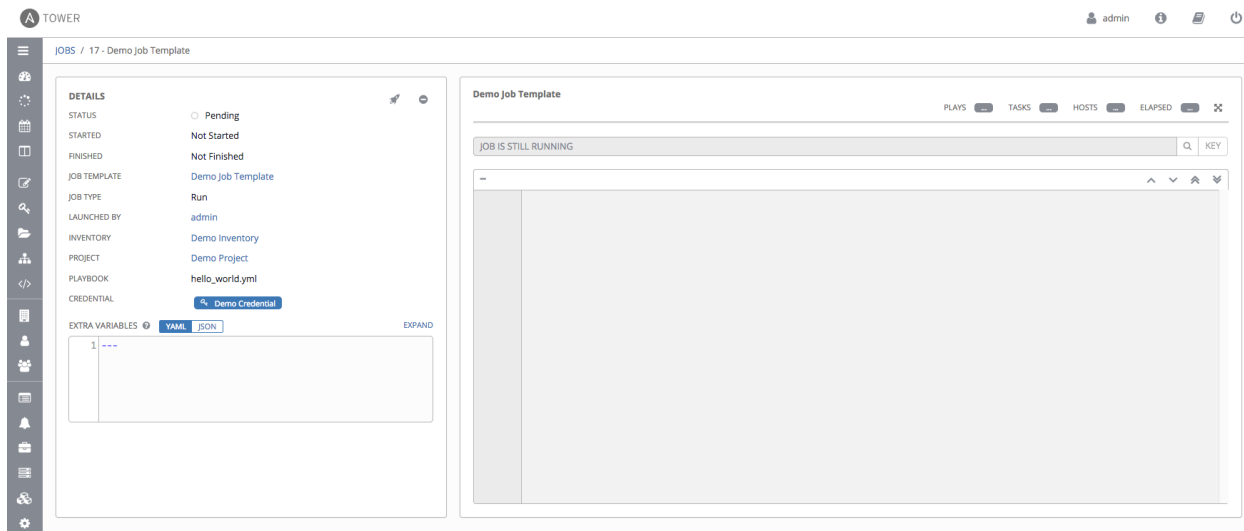
Click **Cancel** (if no changes were made) or use the breadcrumb navigational links at the top of the Ansible Tower browser to return to the Templates overview screen. Clicking **Save** does not exit the edit dialog.

LAUNCH IT!

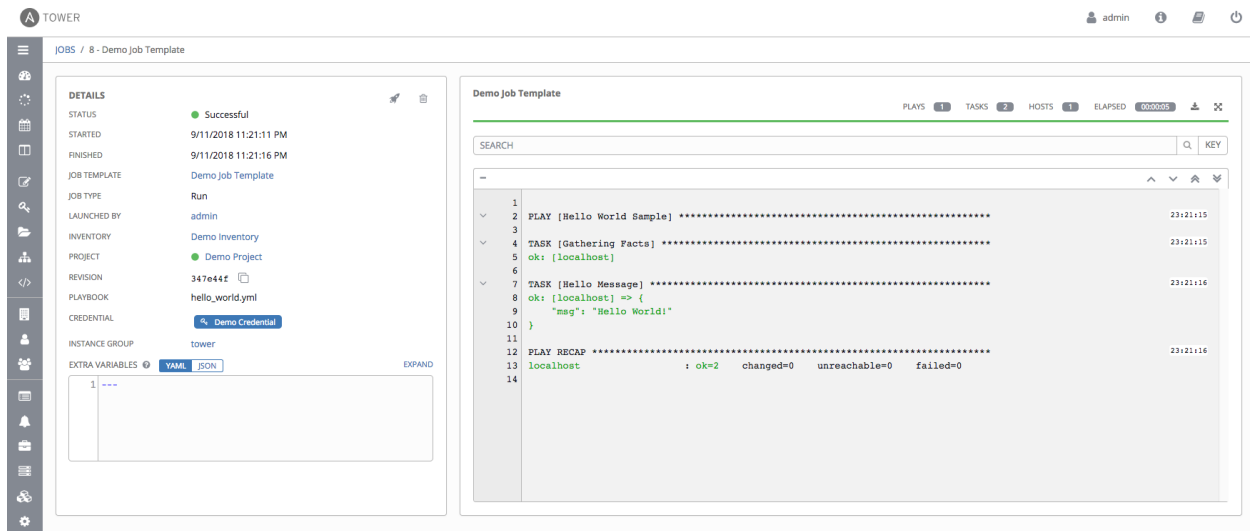
From the Job Templates overview screen, click the Launch () button to run this Job Template.



The initial job launch returns a status page which updates automatically using Tower's Live Event feature until the job is complete.



Once complete, the job results look like the following:



For more details on the job results, refer to [Jobs](#).

Congratulations! Your Tower installation is officially setup and running properly. To learn more about these Tower features or to learn about administration tasks, the Tower API, etc., refer to the following documentation sets:

- [Ansible Tower User Guide](#)
- [Ansible Tower Installation and Reference Guide](#)
- [Ansible Tower Administration Guide](#)
- [Ansible Tower API Guide](#)
- [Ansible Tower Release Notes](#)
- [Ansible Documentation](#).

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