

**Projects**

I

# About Projects.

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- A Project is a logical collection of Ansible playbooks.
- By default, the Project Base Path is **/var/lib/awx/projects**, but this may have been modified by the administrator.
- It is configured in `/etc/awx/conf.d/custom.py`. Use caution when editing this file, as incorrect settings can disable your installation.

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# About Projects...

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- users can expand each entry using the arrow.

## Projects

<input type="checkbox"/> Name ▾		<input type="text"/>	<input type="button" value="Add"/>	<input type="button" value="Delete"/>	1 - 2 of 2 ▾	
Name ↑		Status	Type	Revision	Actions	
▼	<input type="checkbox"/>	Demo Project	Successful	Git	347e44f	<input type="button" value="Refresh"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
Organization		Default	Last modified	7/12/2021, 11:17:46 AM	Last used	7/15/2021, 1:13:15 AM
>	<input type="checkbox"/>	Example	Successful	Git	d357156	<input type="button" value="Refresh"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
1 - 2 of 2 items ▾		1 of 1 page				

# States of Project

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- **Status** indicates the state of the project and may be one of the following (note that you can also filter your view by specific status types):
  - **Pending** - The source control update has been created but not queued or started yet. Jobs will remain pending until ready to be run by the system due to current dependencies or insufficient capacity.
  - **Waiting** - The source control update is in the queue waiting to be executed.
  - **Running** - The source control update is currently in progress.
  - **Successful** - The last source control update for this project succeeded.
  - **Failed** - The last source control update for this project failed.
  - **Error** - The last source control update job failed to run at all.

# Add a new project.

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- Click the **Add** button, which launches the **Create Project** window.

Projects

Create New Project



Name *	Description	Organization *
<input type="text"/>	<input type="text"/>	<input type="text"/>
Execution Environment ?	Source Control Type *	Content Signature Validation Credential ?
<input type="text"/>	<input type="text" value="Choose a Source Control Type"/>	<input type="text"/>
<div>Save Cancel</div>		

# Add a new project..

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- Enter the appropriate details into the following required fields:
- **Name**
- **Description**
- **Organization** - A project requires at least one organization. Create one organization now, then add additional organizations after it's created.
- **Source Control Type** - Choose an SCM type from the drop-down menu list for this project, and the options in the subsequent section will depend on your selection.
- **Content Signature Validation Credential** - The optional field allows content verification by specifying the GPG key for validating content signature during project sync.
- Click **Save** when done.

# Sources of Project

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- The following describes ways projects are sourced in AWX:
- **Manage playbooks manually**
- **Manage playbooks using source control**
  - SCM Types - Git and Subversion
  - SCM Type - Red Hat Insights
  - SCM Type - Remote Archive



# Manage playbooks manually.

- Create one or more directories to store playbooks under the Project Base Path (for example, /var/lib/awx/projects/).
- Create or copy playbook files into the playbook directory.
- Ensure that the playbook directory and files are owned by the same UNIX user and group that the AWX service runs as.
- Ensure that the permissions are appropriate for the playbook directories and files.
- If you have trouble adding a project path, check the permissions and SELinux context settings for the project directory and files.

# Manage playbooks manually..

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- If you have not added any Ansible playbook directories to the base project path, you will receive the following message:

Projects

## Create New Project

Name \*  
Project without playbook directories

Description

Organization \*  
Honey Dog, Inc.

Default Execution Environment ⓘ

Source Control Credential Type \*  
Manual

Content Signature Validation Credential ⓘ

### Type Details

**WARNING:**  
There are no available playbook directories in /var/lib/awx/projects. Either that directory is empty, or all of the contents are already assigned to other projects. Create a new directory there and make sure the playbook files can be read by the "awx" system user, or have Ansible Automation Platform directly retrieve your playbooks from source control using the Source Control Type option above.

Project Base Path ⓘ  
/var/lib/awx/projects

Playbook Directory \* ⓘ  
Choose a Playbook Directory

Save Cancel

# SCM Types - Git and Subversion.

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- Select the appropriate option (Git or Subversion) from the **SCM Type** drop-down menu list.

Projects

Create New Project

Name *	Description	Organization *
Example	Ansible example playbook	Honey Dog, Inc.
Default Execution Environment ⓘ	Source Control Credential Type *	Content Signature Validation Credential ⓘ
Q	Git	Q

Type Details

Source Control URL ⓘ	Source Control Branch/Tag/Commit ⓘ	Source Control Refspec ⓘ
https://github.com/ansible/tower-example		

Source Control Credential

Q

Options

☐ Clean ⓘ ☐ Delete ⓘ ☐ Track submodules ⓘ ☐ Update Revision on Launch ⓘ ☐ Allow Branch Override ⓘ

Save Cancel

# SCM Types - Git and Subversion..

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- Enter the appropriate details into the following fields:
  - **SCM URL**
  - **SCM Branch/Tag/Commit** - Enter SCM branch, tags, commit hashes, refs, or revision number from source control (Git or Subversion) to checkout, with default being HEAD if left blank.
  - **SCM Refspec** - The field for git source control is only accessible to advanced users who are familiar with git and can specify which references to download from the remote repository.
  - **Source Control Credential** - If authentication is required, select the appropriate source control credential
- Click **Save** to save your project.

# SCM Type - Red Hat Insights.

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- Select **Red Hat Insights** from the **SCM Type** drop-down menu list.
- Red Hat Insights requires a credential for authentication. Select from the **Credential** field the appropriate credential for use with Insights.
- In the **SCM Update Options**, optionally select the launch behavior, if applicable.
  - **Clean**
  - **Delete**
  - **Update Revision on Launch**

# SCM Type - Red Hat Insights..

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Projects

## Create New Project

Name \* Red Hat Insights Project

Description

Organization \* Honey Dog, Inc.

Execution Environment ⓘ

Source Control Type \* Red Hat Insights ▼

Content Signature Validation Credential ⓘ

**Type Details**

Insights Credential \*

Options

☐ Clean ⓘ ☐ Delete ⓘ ☐ Update Revision on Launch ⓘ

**Save** Cancel

# SCM Type - Remote Archive.

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- To configure playbooks to use a remote archive, in the Project **Details** tab:
- Select **Remote Archive** from the **SCM Type** drop-down menu list.
- Enter the appropriate details into the following fields:
  - **SCM URL**
  - **SCM Credential**
- In the SCM Update Options, optionally select the launch behavior, if applicable.
  - **Clean**
  - **Delete**
  - **Update Revision on Launch**
  - **Allow Branch Override**

# SCM Type - Remote Archive..

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Projects 🔍

## Create New Project

**Name \***  
Remote Archived Project

**Description**

**Organization \***  
🔍 Honey Dog, Inc.

**Execution Environment** ⓘ  
🔍

**Source Control Type \***  
Remote Archive ▼

**Content Signature Validation Credential** ⓘ  
🔍

**Type Details**

**Source Control URL \*** ⓘ  
https://github.com/ansible/product-docs

**Source Control Credential**  
🔍

**Options**

☐ Clean ⓘ ☐ Delete ⓘ ☐ Update Revision on Launch ⓘ ☐ Allow Branch Override ⓘ

Save

Cancel



# Updating projects from source control.

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- Update an existing SCM-based project by selecting the project and clicking the button.


Projects 🔍











<input type="checkbox"/>	Name ▾	<input type="text"/>	<input type="button" value="Add"/>	<input type="button" value="Delete"/>	1 - 2 of 2 ▾	
	Name ↑	Status	Type	Revision	Actions	
> <input type="checkbox"/>	Demo Project	✓ Successful	Git	347e44f		
> <input type="checkbox"/>	Example	✓ Successful	Git	d357156		
1 - 2 of 2 items ▾ << < 1 of 1 page > >>						

# Updating projects from source control..

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- Click on project's status under the **Status** column to get further details about the update process.

Projects 

<input type="checkbox"/>	Name <input type="text"/>	<input type="button" value="Add"/>	<input type="button" value="Delete"/>	1 - 2 of 2 <input type="button" value="Previous"/> <input type="button" value="Next"/>	
	Name <input type="text"/>	Status	Type	Revision	Actions
<input type="checkbox"/>	<a href="#">Demo Project</a>	 Successful	Git	347e44f 	  
<input type="checkbox"/>	<a href="#">Example</a>	 Successful	Git	d357156 	  
1 - 2 of 2 items <input type="button" value="Previous"/> <input type="button" value="Next"/> 1 of 1 page <input type="button" value="Previous"/> <input type="button" value="Next"/>					

# Updating projects from source control...

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Jobs > Demo Project

## Output

◀ Back to Jobs   Details   **Output**

**Demo Project**   Plays 2   Tasks 7   Hosts 1   Elapsed 00:00:04

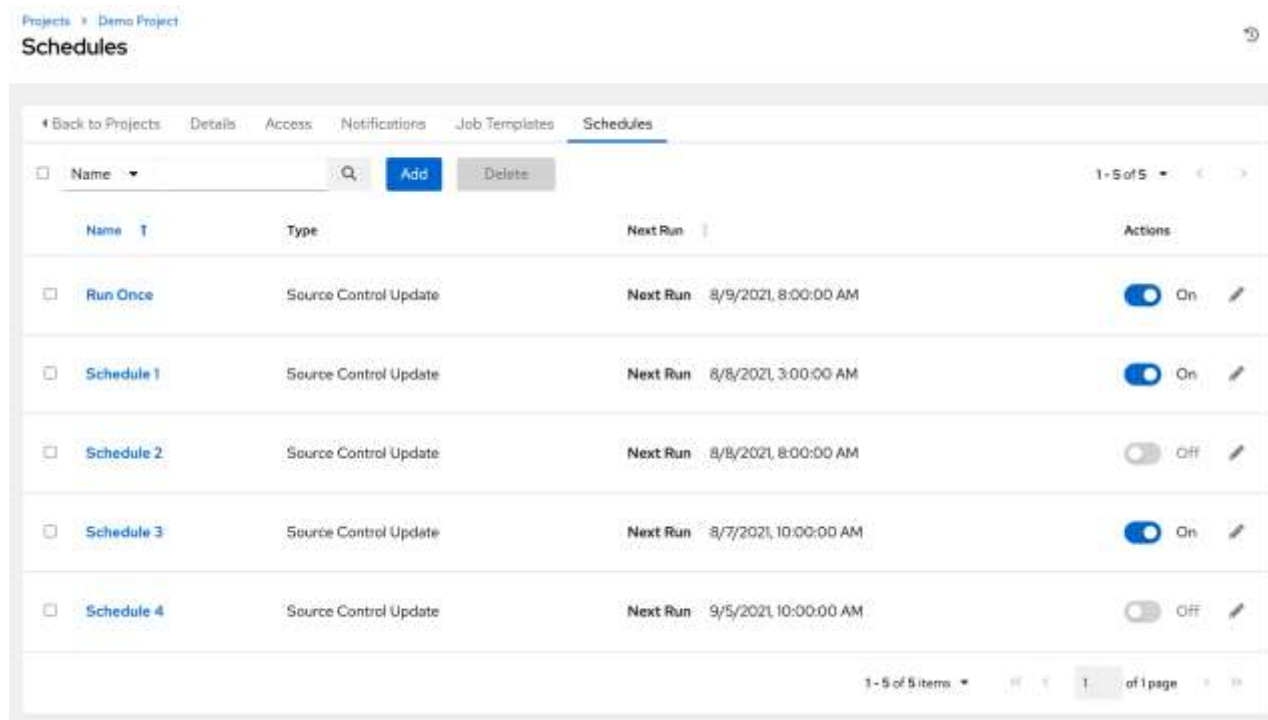
Stdout

```
0  WARN[0000] error mounting subscriptions, skipping entry in /usr/share/containers/mounts.conf: getting host subscription data failed: failed to read subscriptions from "/usr/share/rhel/secrets": open /usr/share/rhel/secrets/rhsm/syspurpose/syspurpose.json: permission denied
1
2  PLAY [Update source tree if necessary] ***** 01:13:14
3
4  TASK [update project using git] ***** 01:13:14
5  ok: [localhost]
6
7  TASK [Set the git repository version] ***** 01:13:15
8  ok: [localhost]
9
10 TASK [Repository Version] ***** 01:13:15
11 ok: [localhost] => {
```

# Work with Schedules.

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- Clicking on **Schedules** allows you to review any schedules set up for this project.



The screenshot shows the 'Schedules' page for a project named 'Demo Project'. The page has a breadcrumb trail 'Projects > Demo Project' and a title 'Schedules'. Below the title is a navigation bar with links: 'Back to Projects', 'Details', 'Access', 'Notifications', 'Job Templates', and 'Schedules' (which is highlighted). Below the navigation bar is a search bar with a dropdown menu for 'Name', a search icon, and buttons for 'Add' and 'Delete'. To the right of the search bar is a pagination indicator '1 - 5 of 5' and navigation arrows. The main content area is a table with the following columns: 'Name', 'Type', 'Next Run', and 'Actions'. The table contains five rows of schedules, all of which are 'Source Control Update' type. The first row is 'Run Once' with a next run date of '8/9/2021, 8:00:00 AM' and is currently 'On'. The second row is 'Schedule 1' with a next run date of '8/8/2021, 3:00:00 AM' and is currently 'On'. The third row is 'Schedule 2' with a next run date of '8/8/2021, 8:00:00 AM' and is currently 'Off'. The fourth row is 'Schedule 3' with a next run date of '8/7/2021, 10:00:00 AM' and is currently 'On'. The fifth row is 'Schedule 4' with a next run date of '9/5/2021, 10:00:00 AM' and is currently 'Off'. Each row has a checkbox in the 'Name' column and a pencil icon in the 'Actions' column. At the bottom of the table is a pagination bar showing '1 - 5 of 5 items' and '1 of 1 page'.

Name	Type	Next Run	Actions
<input type="checkbox"/> Run Once	Source Control Update	Next Run 8/9/2021, 8:00:00 AM	<input checked="" type="checkbox"/> On
<input type="checkbox"/> Schedule 1	Source Control Update	Next Run 8/8/2021, 3:00:00 AM	<input checked="" type="checkbox"/> On
<input type="checkbox"/> Schedule 2	Source Control Update	Next Run 8/8/2021, 8:00:00 AM	<input type="checkbox"/> Off
<input type="checkbox"/> Schedule 3	Source Control Update	Next Run 8/7/2021, 10:00:00 AM	<input checked="" type="checkbox"/> On
<input type="checkbox"/> Schedule 4	Source Control Update	Next Run 9/5/2021, 10:00:00 AM	<input type="checkbox"/> Off

# Schedule a Project.

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- To schedule a project run, click the Schedules tab.
  - If schedules are already set up; review, edit, or enable/disable your schedule preferences.
  - If schedules have not been set up