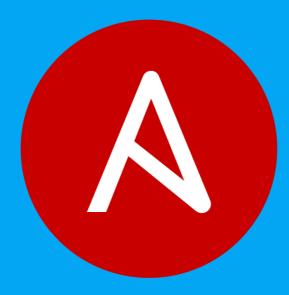
Ansible Workshop - Exercises

Automation Platform

Learn to manage and run your Ansible content in AAP.



5 - Role-based access control

Objective

You have already learned how Ansible automation controller separates credentials from users. Another advantage of Ansible automation controller is the user and group rights management. This exercise demonstrates Role Based Access Control (RBAC)

Guide

Ansible automation controller users

There are three types of automation controller users:

- **Normal User**: Have read and write access limited to the inventory and projects for which that user has been granted the appropriate roles and privileges.
- **System Auditor**: Auditors implicitly inherit the read-only capability for all objects within the automation controller environment.
- System Administrator: Has admin, read, and write privileges over the entire automation controller installation.

Let's create a user:

- In the automation controller menu under Access click Users
- Click the Add button
- Fill in the values for the new user:

Value
wweb
wweb@example.com
ansible
ansible
Werner
Web
Default

• Click Save

Ansible automation controller teams

A Team is a subdivision of an organization with associated users, projects, credentials, and permissions. Teams provide a means to implement role-based access control schemes and delegate responsibilities across organizations. For instance, permissions may be granted to a whole Team rather than each user on the Team.

Create a Team:

- In the menu go to Access → Teams
- Click the Add button and create a team named Web Content within the Default Organization.
- Click Save

Add a user to the team:

- Click on the team Web Content and click the Access tab and click Add.
- Within the Select a Resource Type window, click on the Users resource type and click Next.
- Within the Select Items from List, select the checkbox next to the wweb user and click Next.
- Within the Select Roles to Apply, select Member as the role to apply to the wweb user.

Click Save.

Permissions allow to read, modify, and administer projects, inventories, and other automation controller elements. Permissions can be set for different resources.

Granting permissions

To allow users or teams to actually do something, you have to set permissions. The user **wweb** should only be allowed to modify content of the assigned webserver.

Add the permission to use the Create index.html template:

- Within Resources -> Templates, select Create index.html.
- Select Access tab from the menu and click Add.
- Within the Select a Resource Type window, click on the Users resource type and click Next.
- Within the Select Items from List, select the checkbox next to the wweb user and click Next.
- Within the Select Roles to Apply, select Read and Execute as the roles to apply to the wweb user.
- Click Save

Test permissions

Now log out of automation controller's web UI and in again as the wweb user.

- Go to the Templates view, you should notice for wweb only the Create
 index.html template is listed. He is allowed to view and launch, but not to edit the Template (no Edit button available).
- Run the Job Template by clicking the rocket icon. Enter the values for the survey questions and launch the job.
- In the following Jobs view have a good look around, note that there where changes to the host (as expected).

Check the result: execute curl again on the control host to pull the content of the webserver on node1 (you could of course check node2 and node3, too):

[student@ansible-1 ~]\$ curl http://node1

Just recall what you have just done: You enabled a restricted user to run an Ansible playbook

- Without having access to the credentials
- Without being able to change the playbook itself
- But with the ability to change variables you predefined!

Effectively you provided the power to execute automation to another user without handing out your credentials or giving the user the ability to change the automation code. And yet, at the same time the user can still modify things based on the surveys you created.

This capability is one of the main strengths of Ansible automation controller!

© Tim Grützmacher 2025