

Lab 9: Create Roles in Ansible

Procedure

Step 1: Connect to your AWS EC2 Instance

- i) Connect to your AWS EC2 instance via SSH. Use the ssh command with your private key file and the public IP address or hostname of your EC2 instance.
- ii) `ssh -i your-key.pem ec2-user@your-instance-ip`

Step 2: Navigate to the Ansible Directory

- i) Navigate to the directory where your Ansible playbook and roles will reside. Typically, this is the `/etc/ansible/` directory.
- ii) `cd /etc/ansible/`

Step 3: Create a New Role

- i) Use the `ansible-galaxy` command to create a new role. Replace `your-role-name` with the desired name of your role.
- ii) `ansible-galaxy init your-role-name`

Step 4: Define Tasks for the Role

- i) Navigate to the tasks directory of your role: `cd your-role-name/tasks`
- ii) Edit the `main.yml` file to define the tasks for your role using YAML syntax. These tasks will be executed when the role is applied to a target host.

Step 5: Create Playbooks to Use the Role

- i) Navigate to the directory where your playbooks are located. Create or edit a playbook to use the role you created.
- ii) `cd /etc/ansible/playbooks`
- iii) Edit a playbook (e.g., `example_playbook.yml`) and include the `your-role-name` role in it.

Step 6: Run the Playbook

- i) Run the playbook to apply the role to the target hosts: `ansible-playbook example_playbook.yml`