

Including and Importing Files (Playbooks and Task files)

Import: Go and find the required file and check and add to the
playbook before running the playbook

Include: Start running the playbook immediately and when called
for, go and find the tasks file and check it

```
---
- name: Using Task Files
  hosts: all
  gather_facts: false
  tasks:
    - name: Install a package
      dnf:
        name: nginx
        state: present

    - include_tasks: tasks.yml

    - name: Copy a file
      copy:
        src: content.txt
        dest: /etc/

    - import_tasks: tasks2.yml

- name: Importing playbook
  import_playbook: play9.yml
~
~
~
```

ANSIBLE ROLES

To create a custom role:

`ansible-galaxy init <role_name>`

```
.
├── defaults
│   └── main.yml
├── files
├── handlers
│   └── main.yml
├── meta
│   └── main.yml
├── README.md
├── tasks
│   └── main.yml
├── templates
├── tests
│   ├── inventory
│   └── test.yml
├── vars
│   └── main.yml
```

Defaults -- main.yml
This file is used to store all the default variable values across your role.
Writing low priority variables

Files
To store all the files related to this role.

handlers -- main.yml
This is the file to write down all the handlers.

Meta -- main.yml
This file is to store all the metadata related to this role.

README.md
This is the readme file for this role, and is recommended
that you read it before using this role.

Tasks -- main.yml
We will write down all the tasks over here.

Templates
To store all the templates of this role.

Tests -- inventory -- test.yml
For testing your role before implementing it.

Vars -- main.yml
Used to store all the variable files.

The whole custom role that we created is
available on GitHub as "ansible_roles.tar"

Playbook to run a role

```
---
- name: Running a custom role
  hosts: all
  vars:
    package_name: httpd
  roles:
    - project
~
~
```

Automation Controller (previously known as Ansible Tower)

Centralised Hub

Features:

1. WebGUI (Visual Dashboard)
2. RBAC (Role Based Access Control)
3. Centralised Logging and Auditing
4. Security
5. Git
6. Notifications
7. Scheduling
8. And more

RHCE
(Red Hat Certified Engineer)
RH294

Red Hat Enterprise Linux Automation with Ansible

4 Hour
300 Marks -- 210 Marks
70%