

ANSIBLE - Roles



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What is Ansible Roles

- Ansible role are similar Modules in puppet and cook book in chef
- Roles are used to group multiple tasks together with clean directory structure
- Roles are re-useable.

How to create Ansible roles

Ansible-galaxy is the command to be used to re-define the Ansible roles

```
# ansible-galaxy init /etc/ansible/roles/apache --offline
```

```
[root@ansible-con ~]# ansible-galaxy init /etc/ansible/roles/tomcat --offline  
- /etc/ansible/roles/tomcat was created successfully  
[root@ansible-con ~]#
```

Directory structure of Ansible Roles

```
[root@ansible-con ~]# tree /etc/ansible/roles/tomcat/  
/etc/ansible/roles/tomcat/  
├── defaults  
│   └── main.yml  
├── files  
├── handlers  
│   └── main.yml  
├── meta  
│   └── main.yml  
├── README.md  
├── tasks  
│   └── main.yml  
├── templates  
├── tests  
│   ├── inventory  
│   └── test.yml  
└── vars  
    └── main.yml
```

What does Roles contain?

- **default** → default variables for the role
- **vars** → Can define variables for roles and has the higher priority than defaults
- **Files** → Contains files required to transfer to the target machine
- **handlers** → which may be used by this role or even anywhere outside this role

What does Roles contain?

- **meta** → Defines data/info about the role(author, dependency, versions, examples, etc)
- **tasks** → contains the main list of tasks to be executed by the role.
- **templates** → Templates which can be deployed via the role

Modules Documentation

[**http://docs.ansible.com/**](http://docs.ansible.com/)