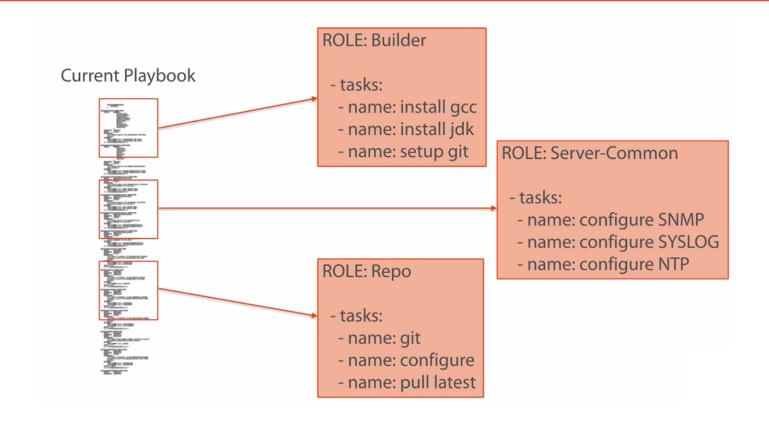


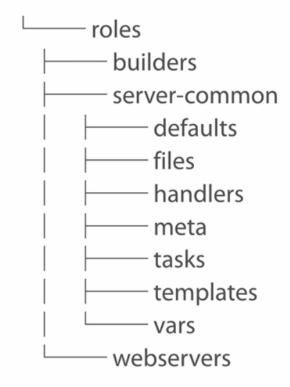
### **Ansible Roles and Galaxy**

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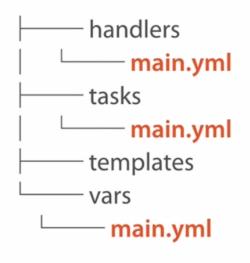
### Roles



## **Roles Directory Structure**



## **Primary file main.yaml**



main.yml

Primary file that Ansible looks for

## **Primary file main.yaml**

### tasks/main.yml

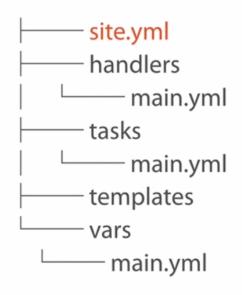
---

- include: webservers.yml

- include: dbservers.yml

Can add includes to break-up long files

## **Primary file site.yaml**



site.yml

Primary file to include entire infrastructure

## **Primary file site.yaml**

### site.yml

---

- include: webservers.yml

- include: dbservers.yml

Can add includes to break-up long files

### **Adding Roles to Playbooks**

```
- hosts: code-dev
 roles:
  - server-common
  - builders
gather_facts: no
tasks:
  # Build your extra tasks here like
  # creating users, or deploying a specific config
```

#### **Pre-tasks and Post-tasks**

#### pre\_tasks:

- Executes plays BEFORE roles
  - Use-Cases
    - Setup of maintenance windows
    - Removing servers from Loadbalancers
    - Silencing alarms

#### post\_tasks:

- Executes plays AFTER roles
  - Use-Cases
    - Clearing of maintenance windows
    - Adding servers to Loadbalancers
    - Enabling Alarms

### **Adding Pre-tasks and Post-tasks**

```
    hosts: webservers

pre_tasks:
 - # Remove from load-balancer
roles:
 - server-common
 - jboss
post_tasks:
 - # Add to load-balancer
gather_facts: no
```

### **Demonstration: Creating Roles**

Define "webserver" role

Define "dbserver" role

Define "common-server" role

Apply roles

### **Ansible Galaxy (Getting Roles)**

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# **Installing Galaxy Roles**

Use username.role

```
$ ansible-galaxy install username.role
```

### **Demonstration: Ansible Galaxy**

Browse/Search Ansible Galaxy

Find a Role and install

### **Demonstration: Creating Roles**

Define "webserver" role

Define "dbserver" role

Define "common-server" role

Apply roles

### **Demonstration: Creating Roles**

Define "webserver" role

Define "dbserver" role

Define "common-server" role

Apply roles