

**AWS Solutions Architect Certification Training**

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**DevOps-Module5-Ansible-Assignment-3 COMPLETED by Nagesha KS**

**Please check the following screenshots for each question.**

**Tasks To Be Performed:**

1. Create 2 Ansible roles
2. Install Apache2 on slave1 using one role and NGINX on slave2 using the other role
3. Above should be implemented using different Ansible roles

Instances | EC2 | us-east-2 | EC2 Instance Connect | us-east-2 | EC2 Instance Connect | us-east-2 | EC2 Instance Connect | us-east-2

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-08c60b2325e38641a&osUser=ubuntu&region=us-east-2&sshPort=22#/?

aws Services Search [Alt+S]

```
ubuntu@ip-172-31-38-147:~$ cd /etc/ansible/
ubuntu@ip-172-31-38-147:/etc/ansible$ ls
ansible.cfg  hosts  roles
ubuntu@ip-172-31-38-147:/etc/ansible$ cd roles/
ubuntu@ip-172-31-38-147:/etc/ansible/roles$ pwd
/etc/ansible/roles
ubuntu@ip-172-31-38-147:/etc/ansible/roles$ ls
ubuntu@ip-172-31-38-147:/etc/ansible/roles$ sudo ansible-galaxy init apache
- Role apache was created successfully
ubuntu@ip-172-31-38-147:/etc/ansible/roles$ ls
apache
ubuntu@ip-172-31-38-147:/etc/ansible/roles$ sudo ansible-galaxy init nginx
- Role nginx was created successfully
ubuntu@ip-172-31-38-147:/etc/ansible/roles$ ls
apache  nginx
ubuntu@ip-172-31-38-147:/etc/ansible/roles$
```

i-08c60b2325e38641a (Nagesha-Ansible-Master)

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06-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

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us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-08c60b2325e38641a&osUser=ubuntu&region=us-east-2&sshPort=22#/

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Nagesha K5

```
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$ ls
install.yaml  main.yaml
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$ sudo nano install.yaml
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$ ls
install.yaml  install.yaml  main.yaml
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$ cat install.yaml
---
- name: installing nginx
  apt: name=nginx state=latest
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$ sudo nano main.yaml
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$ cat main.yaml
---
# tasks file for nginx
- include_tasks: install.yaml
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$ ls
install.yaml  install.yaml  main.yaml
ubuntu@ip-172-31-38-147:/etc/ansible/roles/nginx/tasks$
```

i-08c60b2325e38641a (Nagesha-Ansible-Master)

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## Ansible Comands

```
goto master ec2 server
```

```
cd /etc/ansible/
```

```
ls
```

```
cd roles/
```

```
pwd
```

```
/etc/ansible/roles
```

```
ls
```

```
sudo ansible-galaxy init apache
```

```
ls
```

```
sudo ansible-galaxy init nginx
```

```
ls
```

```
cd apache
```

```
ls
```

```
cd tasks
```

```
ls
```

```
cat main.yml
```

```
sudo nano install.yml
```

```
---
```

```
== name: installing apache2
```

```
  apt: name=apache2 state=latest
```

```
ls
```

```
sudo main.yml
```

```
== include_tasks: install.yml
```

```
ls
```

```
cd ../..
```

```
cd nginx/
```

```
cd tasks
ls
sudo nano install.yaml
---
== name: installing nginx
  apt: name=nginx state=latest
```

```
sudo nano main.yml
== include_tasks: install.yaml
```

```
cd ../..
ls
cd
sudo nano play3.yaml
---
== name: executing apache role for slave1
  become: true
  hosts: Slave1
  roles:
    - apache
== name: executing apache role for slave2
  become: true
  hosts: Slave2
  roles:
    - nginx
```

```
#next is checking the syntax
ansible-playbook play3.yaml --syntax-check
# next is dry run
ansible-playbook play3.yaml --check
# execute this ansible playbook without flags ie., without -- check or --syntax-check etc
ansible-playbook play3.yaml
# all commands above are done in master ec2 server
```

# now check the Public IP of both slave1 and slave2 in the browser  
slave1 should show apache2  
and slave2 should show nginx