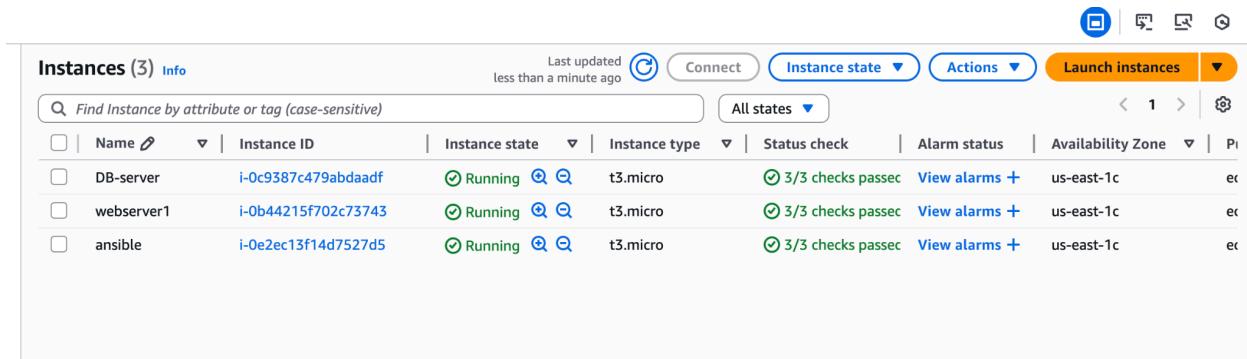


Create 3 EC2 instance



Instances (3) Info							Last updated less than a minute ago	Connect	Instance state ▾	Actions ▾	Launch instances ▾
							All states ▾				
	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾				
<input type="checkbox"/>	DB-server	i-0c9387c479abdaadf	Running Q Q	t3.micro	3/3 checks passed View alarms +	us-east-1c	ec2-172-31-20-25.us-east-1.compute.amazonaws.com				
<input type="checkbox"/>	webserver1	i-0b44215f702c73743	Running Q Q	t3.micro	3/3 checks passed View alarms +	us-east-1c	ec2-172-31-20-25.us-east-1.compute.amazonaws.com				
<input type="checkbox"/>	ansible	i-0e2ec13f14d7527d5	Running Q Q	t3.micro	3/3 checks passed View alarms +	us-east-1c	ec2-172-31-20-25.us-east-1.compute.amazonaws.com				

Login to ansible and install ansible

```
sudo apt install software-properties-common
```

```
sudo add-apt-repository --yes --update ppa:ansible/ansible
```

```
sudo apt install ansible
```

```
No containers need to be restarted.  
No user sessions are running outdated binaries.  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
[ubuntu@ip-172-31-20-25:~$ ansible --version  
ansible [core 2.20.2]  
  config file = /etc/ansible/ansible.cfg  
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']  
  ansible python module location = /usr/lib/python3/dist-packages/ansible  
  ansible collection location = /home/ubuntu/.ansible/collections:/usr/share/ansible/collections  
  executable location = /usr/bin/ansible  
  python version = 3.12.3 (main, Nov  6 2025, 13:44:16) [GCC 13.3.0] (/usr/bin/python3)  
  jinja version = 3.1.2  
  pyyaml version = 6.0.1 (with libyaml v0.2.5)  
ubuntu@ip-172-31-20-25:~$ ]
```

Generate ssh key-pair

```
ssh-keygen -t rsa -b 4096
```

```
[ubuntu@ip-172-31-20-25:~$ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
[Enter file in which to save the key (/home/ubuntu/.ssh/id_rsa):
[Enter passphrase (empty for no passphrase):
[Enter same passphrase again:
Your identification has been saved in /home/ubuntu/.ssh/id_rsa
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:S3f/2RJcCrcUQ0kZKSQORRyLMUqS3NWF4NqFFwTWKb8 ubuntu@ip-172-31-20-25
The key's randomart image is:
+---[RSA 4096]----+
| ..0..0XB*oo+= |
| oo.+.B**+. *
| . +o= . o |
| o o. . o . |
| . S ...= +
| . oE. .= |
| . . ..
| ..o |
| oo|
+---[SHA256]----+
ubuntu@ip-172-31-20-25:~$ ]
```

Copy rsa.pub to webserver and DB Server under authorized keys. Don't delete previous key

Ansible VM

```
[ubuntu@ip-172-31-20-25:~$ cd .ssh
[ubuntu@ip-172-31-20-25:~/ssh]$ ls
authorized_keys  id_rsa  id_rsa.pub
[ubuntu@ip-172-31-20-25:~/ssh]$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQACQCIkeyMo4MRHu/0xdL2NwYVpdIg9bpze6P05hT07bAjq733HcAfLi0PeV18L10Tb5Bl885KUuk6hVTP9fvz8px822UQ1/hqK6153dr+Z+jUtOsJN1b9RRw4coPb1/SddFME3X/Bg76SInehQbSi8v8SGbSDHsPs7vTL
XqTebyJRssKmIPNMwBneI8ni/1QfVht9Cj+/0DtN20NUzW+k73q15bQawVajoPS9ygm16gQYFo/3yd/c/jthU21dbev3HcwczL2MwqoL8h/+JNxKmp0pGtV/8gf+ZP9taXnKWTCVAmr4KrvyzH1c7UdpPRRizpK/D6YNc3ShLhrJSx2P9yHQD07h3Ujy8wxHim
JBETfJjM07aZpC4vHZOxa5PazOL/3g1o931r6Kd0auv7IxXkpW1Lw+PB8+7+N0gwlXODWAh5KVLEhzq5CJ1YibjmxygUS01xyzG52e2p0ilur6Mw2mgoxjVJsm0x1knaZ0+Cz+ek5po4Azsv/1PVixNItAf8VecEo4v5NViouqmgnr1bLsfrWcTHv0C+bUr/yhab0tT
ZsBQr5GDb4YpuCtbZwi1OXLU83+HqQuxpTNQ19rd6TYLATWmp2G814w0xQSS2FgQYe6wqun88HRijwUojoAuQqyL3PuNnhT1619BJJ0id088ATk5RD9w== ubuntu@ip-172-31-20-25:~/ssh$ ]
```

Webserver VM and DB Server VM (For Both Server)

```
[ubuntu@ip-172-31-31-166:~$ cd .ssh
[ubuntu@ip-172-31-31-166:~/ssh$ vi authorized_keys
ubuntu@ip-172-31-31-166:~/ssh$ ~
~
~
~
```

ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQDIAz7dAyga6qQggT8E1TBeK/1judsgCRj196wtZzLuBaS7iYU8/3ZEzd70vJk5AGbTo9zY6Hgjjw6/KnBloPmmhCSDZZT+pD21Hc7owpNhaSoQyu39F5qhZxUR2boBAiHgRRu3jaSDjWrzJNpA82EW90jcRsmBtZs0hAuGHJdwnie1FM6eDv3bFdEyG4Cpj0gTX8ok1YrcHzSMSMDraqsTwZdqgWB5R9hDwkKyDn4OZiYprBC02Dr0NI/A/Qd2jfYAEHMPVcDC6pyA4AI+3kPzTX2VNE9mSFaT86gHaE6BtdyHs38X0NQ+9vmz6rhULEYRUigEYNfo3GhR1PDah GopiPersonal

ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQACQC1IkeymM04MRHu/0xdL2NWYPdIg9bopze6P05hT07bAJq733HCaFLi0PeV18L1QTb5Bla85KUuk6hVTP9fvZ8px822UQI/hqK6l53dr+Z+jUtOsJN1b9RRw4oqPb1/SddFME3X/Bg7GSInehQbSI8v8SGbSDHsPs7yTLXqTEbyJRssKmIPNMWwBneI8ni/1QfVht9Cj+/ODtN2GNUzW+kt3q15bQawVajoPS9ygm16gQYFo/3yd+c/jthU21dbev3HcwczL2MQwoql8h/+JNxKMp1pGPtV/0gf+ZP9taXnKWVTCVAmVr4KRvyzHuIc7UdpPRRRizPk/D6YNc3ShLhrJXS2P9yHQD07h3Yujiy8wxHimJ0EfjJM07aZpc4vHZQxa5Pazol/3g1o931rGKd0auv7IxWxpWllwP+BV8+7+NGgW1XODWAH5KVLEHzq5CJYvibjmxgUS0iXzycGS2e2p0iLur6Mw2mgoxjvJsm0x1knaZG+CZ+ek5po4AZsv/1PVixNITAf0VecEo4v5NViouqmgNr1bLsfRwWcTHv0C+bUF/yhab0tdTZsBQr5GDb4YpuCtBZwi10XLUB3+HqQuxpTNQi9rd6TYLATWmp2G814W0xQSS2FgQYe6wqun80HRIjwUaojAuQqyL3PuNnHT16I9BJJ0id08BATk5RD9w== ubuntu@ip-172-31-20-25

Check with ssh and public IP if you are able to login to VM from ansible VM

Ssh -i id_rsa ubuntu@Public_IP

```
Connection to 98.94.19.103 closed.  
[ubuntu@ip-172-31-20-25:~/ssh$ ssh -i id_rsa ubuntu@54.196.250.164  
The authenticity of host '54.196.250.164 (54.196.250.164)' can't be established.  
ED25519 key fingerprint is SHA256:u4Z13y/I8VuHErc++wn/JukYMTxO20+IlauRYave3gs.  
This key is not known by any other names.  
[Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '54.196.250.164' (ED25519) to the list of known hosts.  
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1018-aws x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:       https://ubuntu.com/pro  
  
System information as of Thu Feb 19 10:14:17 UTC 2026  
  
 System load: 0.0          Temperature:      -273.1 C  
 Usage of /:   26.4% of 6.71GB Processes:        114  
 Memory usage: 25%          Users logged in:   1  
 Swap usage:   0%          IPv4 address for ens5: 172.31.22.99  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
Last login: Thu Feb 19 10:10:43 2026 from 27.7.178.178  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-22-99:~$
```

Create Inventory File

nano hosts

```
[webservers]
98.94.19.183

[dbservers]
54.196.250.164
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
^
```

Test Connectivity

ansible -i hosts all -m ping

Ansible -i hosts all -m ping

```
[ubuntu@ip-172-31-20-25: ~]$ ansible -i hosts all -m ping
[WARNING]: Host '54.196.250.164' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.28/reference_appendices/interpreter_discovery.html for more information.
54.196.250.164 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3.12"
    },
    "changed": false,
    "ping": "pong"
}
[WARNING]: Host '98.94.19.103' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.28/reference_appendices/interpreter_discovery.html for more information.
98.94.19.103 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3.12"
    },
    "changed": false,
    "ping": "pong"
}
ubuntu@ip-172-31-20-25: ~]
```

Create web.yaml

```
[ubuntu@ip-172-31-20-25: ~]$ nano hosts
ubuntu@ip-172-31-20-25: ~$ ansible -i hosts all -m ping
[WARNING]: Host '54.196.250.164' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.28/reference_appendices/interpreter_discovery.html for more information.
54.196.250.164 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3.12"
    },
    "changed": false,
    "ping": "pong"
}
[WARNING]: Host '98.94.19.103' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.28/reference_appendices/interpreter_discovery.html for more information.
98.94.19.103 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3.12"
    },
    "changed": false,
    "ping": "pong"
}
ubuntu@ip-172-31-20-25: ~$ vi web.yaml
```

Location -

https://github.com/Gopi1892/Devops-Learning-Material/blob/main/Ansible/Ansible_Plabook_YAMLFILE

Web.yaml

- ```

- name: Configure Web Servers
 hosts: webservers
```

```
become: yes
```

```
tasks:
```

- name: Install Apache
  - apt:
    - name: apache2
    - state: present
    - update\_cache: yes
  - name: Start Apache
    - service:
      - name: apache2
      - state: started
      - enabled: yes
  - name: Create index file
    - copy:
      - content: "Hello from {{ inventory\_hostname }}"
      - dest: /var/www/html/index.html

```
Db.yml
```

```

```

- name: Configure DB Server
  - hosts: dbservers
  - become: yes

```
tasks:
```

- name: Install MySQL

```

apt:
 name: mysql-server
 state: present
 update_cache: yes

```

```

- name: Start MySQL
 service:
 name: mysql
 state: started
 enabled: yes

```

```

[ubuntu@ip-172-31-20-25:~$ ansible-playbook -i hosts web.yaml
PLAY [Configure Web Servers] ****
TASK [Gathering Facts] ****
[WARNING]: Host '98.94.19.103' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.20/reference_appendices/interpreter_discovery.html for more information.
ok: [98.94.19.103]
TASK [Install Apache] ****
[ubuntu@ip-172-31-20-25:~$ nano hosts
[ubuntu@ip-172-31-20-25:~$ ansible-playbook -i hosts web.yaml
PLAY [Configure Web Servers] ****
TASK [Gathering Facts] ****
[WARNING]: Host '98.94.19.103' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.20/reference_appendices/interpreter_discovery.html for more information.
ok: [98.94.19.103]
TASK [Install Apache] ****
changed: [98.94.19.103]
TASK [Start Apache] ****
ok: [98.94.19.103]
TASK [Create index file] ****
changed: [98.94.19.103]
PLAY RECAP ****
98.94.19.103 : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
ubuntu@ip-172-31-20-25:~$

```

Go to webserver you can see installation



## Similar install on db server

```
ubuntu@ip-172-31-28-25:~$ ansible-playbook -i hosts db.yaml
PLAY [Configure DB Server] *****
TASK [Gathering Facts] *****
[WARNING]: Host '54.196.258.164' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.20/reference_appendices/interpreter_discovery.html for more information.
ok: [54.196.258.164]

TASK [Install MySQL] *****
|
```

# Let see practical of ansible galaxy

## Check ansible galaxy version

```
[ubuntu@ip-172-31-20-25:~$ vi hosts
[ubuntu@ip-172-31-20-25:~$ ansible-playbook -i hosts db.yaml
PLAY [Configure DB Server] ****
TASK [Gathering Facts] ****
[WARNING]: Host '54.196.258.164' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.20/reference_appendices/interpreter_discovery.html for more information.
ok: [54.196.258.164]

TASK [Install MySQL] ****
changed: [54.196.258.164]

TASK [Start MySQL] ****
ok: [54.196.258.164]

PLAY RECAP ****
54.196.258.164 : ok=3 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

ubuntu@ip-172-31-20-25:~$ ansible-galaxy --version
ansible-galaxy [core 2.28.2]
 config file = /etc/ansible/ansible.cfg
 configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
 ansible python module location = /usr/lib/python3/dist-packages/ansible
 executable location = /home/ubuntu/.ansible/collections/usr/share/ansible/collections
 python version = 3.12.3 (main, Nov 6 2025, 13:44:16) [GCC 13.3.0] (/usr/bin/python3)
 jinja version = 3.1.2
 pyyaml version = 6.0.1 (with libyaml v0.2.5)
ubuntu@ip-172-31-20-25:~$
```

## Lets search for apache role

ansible-galaxy search apache

```

PLAYBOOK VERSION = 0.9.1 (WALL TIME 00:00:00)
ubuntu@ip-172-31-20-25:~$ ansible-galaxy search apache
Found 584 roles matching your search:

Name Description
aaronpederson.apache An open-source HTTP server for modern operating systems
abbasi23km.myapache.ansibleroles your role description
abdu239.apache._role Linux Systems Admin
acandid.apache Install and configuring the Apache SSL on RHEL/CentOS, Debian 9,10 and Ubuntu 20.04
acandid.apache_fallover Create web service Failover. Install and configuring the Apache, keepalived and lsyncd on RHEL/CentOS, Debian 10, Ubuntu 20.04
acandid.apache_tomcat Install and Configure apache tomcat9 Redhat/CentOS 7 and Debian 10
acandid.mysql56_apache_wordpress Install and Configure MariaDB, Apache and WordPress
infoton.apache Install apache package
adminimod.apache Apache
adminis-sygroup.apache Install and manage apache
agsqd.ansible_apache DevOps Engineer
ajgarlag.apache2 Ansible role to install and configure apache2
ajiraju.apache2 Apache2 demo
ajitesh17.apache Installing apache2
akman.apache._role Will add role to can install httpd and automatically configure it
Akman.apache_certificates Upload virtual host certificate files defined for geerlingguy.apache role on Linux
akthodu.apache-kafka Apache Kafka broker and zookeeper cluster install
alikins.apache Apache 2.x for Linux.
alikins.apache_php_fpm Apache 2.4+ PHP-FPM support for Linux.
allanroque.apache Install apache and configure virtualhost
amgdark1.apache2 Instala apache2 solo para versiones Debian
amtega.apache Install and configure a basic httpd server with ssl support.
amtega2.apache Configure apache server virtual hosts
amtega22.apache_vhosts your description
anselgutierrez.apache_webserver_role ansible galaxy role to install deb.sury.org php and apache
andreljohmann.apache_php installs apacheds
andrewrothstein.apacheds andyceo.apache
andyscoo.apache anone8675309.ansible_apache2
anone8675309.infra_apache anone8675309.infra_apache
ansiblegeorge.infra_apache ansibleguy.infra_django_apache
apham001.apache apolloclark.apache_mod_security
apolloclark.apache_mod_security Install and configure Apache mod_security2 module
anslro.apache-php This Ansible Simple Role install Apache and PHP. It also allow install php packages and apache modules.
augustohp.apache Apache 2.x for Redhat/CentOS/Debian/Ubuntu.
awasiliyev.apache_container Ansible Container role that adds an apache service.
awcrossor.apache_php_fpm_ok Apache 2.4+ PHP-FPM support for Linux.
awsome.apache Apache2
azavea.apache2 An Ansible role for installing the Apache web server.
Azulinho.azulinho-apache Ansible role for deploying apache
bessonovygen.apache_1c betheoutlier.ansible-role-apache
Bhadra09.ansible-galaxy-ec2-apache Role for setup Apache for ic publication and publicate list of bases
bilalcaliskan.apache_ignite Apache 2.x for Linux.
bogdanovs.apache_vhosts Launch AWS Ec2 instance with Apache and deploy page form GIT
bpresles.apache Apache Ignite Cluster Setup Role
buluma.apache Add apache2 to hosts with Ansible
buluma.ansible-role-apache-php-fpm Apache 2.x for Linux.
buluma.apache Apache 2.4+ PHP-FPM support for Linux.
chaitanyaaprata19.apache Apache 2.x for Linux.
chaitanyaaprata19.apache1 your role description
chaitanyaaprata19.apache2 your role description
chauhanhtuand1.apache your role description
chilcano.apache-minifi Apache 2.x for Linux.
An Ansible Role that installs and runs Apache MiNiFi.

```

## Popular Role = geerlingguy.apache

This is maintained by Jeff Geerling (widely used).

Let install the role

`ansible-galaxy install geerlingguy.apache`

```

ubuntu@ip-172-31-20-25:~$
ubuntu@ip-172-31-20-25:~$ ansible-galaxy install geerlingguy.apache
Starting galaxy role install process
- downloading role 'apache', owned by geerlingguy
- downloading role from https://github.com/geerlingguy/ansible-role-apache/archive/4.2.0.tar.gz
- extracting geerlingguy.apache to /home/ubuntu/.ansible/roles/geerlingguy.apache
- geerlingguy.apache (4.2.0) was installed successfully
ubuntu@ip-172-31-20-25:~$

```

It installs into:  
`~/.ansible/roles/`

## Lets check

```
ubuntu@ip-172-31-20-25:~$ ansible-galaxy install gearlingguy.apache
Starting galaxy role install process
- downloading role 'apache', owned by gearlingguy
- downloading role from https://github.com/gearlingguy/ansible-role-apache/archive/4.2.0.tar.gz
- extracting gearlingguy.apache to /home/ubuntu/.ansible/roles/gearlingguy.apache
- gearlingguy.apache (4.2.0) was installed successfully
ubuntu@ip-172-31-20-25:~$ ls ~/.ansible/roles/
gearlingguy.apache
ubuntu@ip-172-31-20-25:~$
```

## Create Project Directory

```
mkdir galaxy-project
cd galaxy-project
```

```
ubuntu@ip-172-31-20-25:~$ ansible-galaxy install gearlingguy.apache
Starting galaxy role install process
- downloading role 'apache', owned by gearlingguy
- downloading role from https://github.com/gearlingguy/ansible-role-apache/archive/4.2.0.tar.gz
- extracting gearlingguy.apache to /home/ubuntu/.ansible/roles/gearlingguy.apache
- gearlingguy.apache (4.2.0) was installed successfully
ubuntu@ip-172-31-20-25:~$ ls ~/.ansible/roles/
gearlingguy.apache
ubuntu@ip-172-31-20-25:~$ mkdir galaxy-project
cd galaxy-project
ubuntu@ip-172-31-20-25:~/galaxy-project$
```

## Create Structure

```
mkdir roles
```

```
Christoph-D.apache Apache 2.x for Linux.
ubuntu@ip-172-31-20-25:~$ ansible-galaxy install gearlingguy.apache
Starting galaxy role install process
- downloading role 'apache', owned by gearlingguy
- downloading role from https://github.com/gearlingguy/ansible-role-apache/archive/4.2.0.tar.gz
- extracting gearlingguy.apache to /home/ubuntu/.ansible/roles/gearlingguy.apache
- gearlingguy.apache (4.2.0) was installed successfully
ubuntu@ip-172-31-20-25:~$ ls ~/.ansible/roles/
gearlingguy.apache
ubuntu@ip-172-31-20-25:~$ mkdir galaxy-project
cd galaxy-project
ubuntu@ip-172-31-20-25:~/galaxy-project$ mkdir roles
ubuntu@ip-172-31-20-25:~/galaxy-project$
```

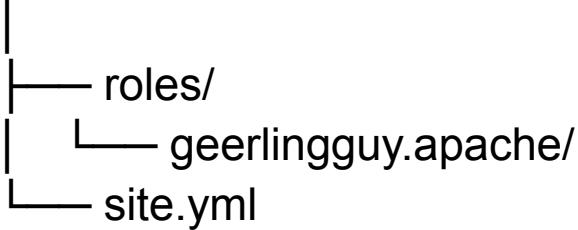
## Move role locally

```
ansible-galaxy install gearlingguy.apache -p roles/
```

```
cd galaxy-project
ubuntu@ip-172-31-20-25:~/galaxy-project$ mkdir roles
ubuntu@ip-172-31-20-25:~/galaxy-project$ ansible-galaxy install gearlingguy.apache -p roles/
Starting galaxy role install process
- downloading role 'apache', owned by gearlingguy
- downloading role from https://github.com/gearlingguy/ansible-role-apache/archive/4.2.0.tar.gz
- extracting gearlingguy.apache to /home/ubuntu/galaxy-project/roles/gearlingguy.apache
- gearlingguy.apache (4.2.0) was installed successfully
ubuntu@ip-172-31-20-25:~/galaxy-project$
```

## Current Structure

galaxy-project/



## Create hosts file

## Vi hosts

```
[webservers]
98.94.19.183

[dbservers]
54.196.250.164
```

# Create site.yml

- 3 -

```
- name: Install Apache using Galaxy Role
hosts: webservers
become: yes
```

roles:

- geerlingguy.apache

## Run playbook

```
ansible-playbook -i hosts site.yml
```

```

ubuntu@ip-172-31-20-25:~/galaxy-project$ ansible-playbook -i hosts site.yml
PLAY [Install Apache using Galaxy Role] ****
TASK [Gathering Facts] ****
[WARNING]: Host '98.94.19.103' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.20/reference_appendices/interpreter_discovery.html for more information.
ok: [98.94.19.103]

TASK [geerlingguy.apache : Include OS-specific variables.] ****
[WARNING]: Deprecation warnings can be disabled by setting 'deprecation_warnings=False' in ansible.cfg.
[DEPRECATION WARNING]: INJECT_FACTS_AS_VARS default to 'True' is deprecated; top-level facts will not be auto injected after the change. This feature will be removed from ansible-core version 2.24.
Origin: /home/ubuntu/galaxy-project/roles/geerlingguy.apache/tasks/main.yml:4:17

2 # Include variables and define needed variables.
3 - name: Include OS-specific variables.
4 include_vars: "{{ ansible_os_family }}.yml"
 ^ column 17
Use 'ansible_facts["fact_name"]' (no 'ansible_-' prefix) instead.
ok: [98.94.19.103]

TASK [geerlingguy.apache : Include variables for Amazon Linux.] ****
[DEPRECATION WARNING]: INJECT_FACTS_AS_VARS default to 'True' is deprecated; top-level facts will not be auto injected after the change. This feature will be removed from ansible-core version 2.24.
Origin: /home/ubuntu/galaxy-project/roles/geerlingguy.apache/tasks/main.yml:9:7

7 include_vars: "AmazonLinux.yml"
8 when:
9 - ansible_distribution == "Amazon"
 ^ column 7
Use 'ansible_facts["fact_name"]' (no 'ansible_-' prefix) instead.
skipping: [98.94.19.103]

TASK [geerlingguy.apache : Define apache_packages.] ****
ok: [98.94.19.103]

TASK [geerlingguy.apache : include_tasks] ****
included: /home/ubuntu/galaxy-project/roles/geerlingguy.apache/tasks/setup-Debian.yml for 98.94.19.103

TASK [geerlingguy.apache : Update apt cache.] ****
ok: [98.94.19.103]

TASK [geerlingguy.apache : Ensure Apache is installed on Debian.] ****
ok: [98.94.19.103]

TASK [geerlingguy.apache : Get installed version of Apache.] ****
ok: [98.94.19.103]

```

It will run apache on both the nodes