

21A91A6148

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- Launching the 3 instances 1 master 2 slaves

Instances (4) Info

🔄

Connect

Instance state ▾

Actions ▾

Launch instances ▾

🔍 Find Instance by attribute or tag (case-sensitive)

< 1 > ⚙

<input type="checkbox"/>	Name ✎ ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IPv4 DNS
<input type="checkbox"/>	Bastion Host	i-099c1d6c8ebca7af8	🟢 Running 🔍 🔍	t2.micro	🟢 2/2 checks passed	No alarms +	us-east-1a	ec2-34-238-152
<input type="checkbox"/>	bangtan	i-001c69ef4fd730872	🟢 Running 🔍 🔍	t2.medium	🟢 2/2 checks passed	No alarms +	us-east-1d	ec2-3-236-179-
<input type="checkbox"/>	bangtan1	i-02bfd2c79e01adb0a	🟢 Running 🔍 🔍	t2.medium	🟢 2/2 checks passed	No alarms +	us-east-1d	ec2-3-216-134-
<input type="checkbox"/>	bangtan2	i-06cafb8765dc53c68	🟢 Running 🔍 🔍	t2.medium	🟢 2/2 checks passed	No alarms +	us-east-1d	ec2-44-202-185

MASTER:

- Updating the instance

```
ubuntu@ip-172-31-4-121:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [940 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1149 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [245 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [16.1 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1105 kB]
Get:16 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [186 kB]
Get:17 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [11.4 kB]
Get:18 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1085 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [179 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [520 B]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [999 kB]
Get:22 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [176 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [219 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [41.6 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [9768 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
```

- Installing the python3

```
ubuntu@ip-172-31-4-121:~$ sudo apt install python3
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3 is already the newest version (3.10.6-1~22.04).
python3 set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 46 not upgraded.
ubuntu@ip-172-31-4-121:~$ python3 --version
Python 3.10.12
```

- Installing some software's regarding to it

```
ubuntu@ip-172-31-4-121:~$ sudo apt-get install software-properties-common
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
software-properties-common is already the newest version (0.99.22.7).
software-properties-common set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 46 not upgraded.
ubuntu@ip-172-31-4-121:~$ sudo apt-add-repository ppa:ansible/ansible
Repository: 'deb https://ppa.launchpadcontent.net/ansible/ansible/ubuntu/ jammy main'
Description:
Ansible is a radically simple IT automation platform that makes your applications and systems easier to deploy. Avoid writing scripts or custom code to deploy
and update your applications-- automate in a language that approaches plain English, using SSH, with no agents to install on remote systems.

http://ansible.com/

If you face any issues while installing Ansible PPA, file an issue here:
https://github.com/ansible-community/ppa/issues
More info: https://launchpad.net/~ansible/+archive/ubuntu/ansible
Adding repository.
Press [ENTER] to continue or Ctrl-C to cancel.
Adding deb entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-jammy.list
Adding key to /etc/apt/trusted.gpg.d/ansible-ubuntu-ansible.gpg with fingerprint 6125E2A8C77F2818F87BD15B93C4A3FD7B89C367
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:5 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy InRelease [18.0 kB]
Get:6 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy/main amd64 Packages [1140 B]
Get:7 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy/main Translation-en [752 B]
Fetched 19.9 kB in 1s (16.6 kB/s)
Reading package lists... Done
```

- Installing ansible

```
ubuntu@ip-172-31-4-121:~$ sudo apt install ansible
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ansible-core python3-jmespath python3-kerberos python3-nacl python3-ntlm-auth python3-packaging python3-paramiko python3-requests-kerberos
python3-requests-ntlm python3-resolveLib python3-winrm python3-xlrdict sshpass
Suggested packages:
  python-nacl-doc python3-gssapi python3-invoke
The following NEW packages will be installed:
  ansible ansible-core python3-jmespath python3-kerberos python3-nacl python3-ntlm-auth python3-packaging python3-paramiko python3-requests-kerberos
python3-requests-ntlm python3-resolveLib python3-winrm python3-xlrdict sshpass
0 upgraded, 14 newly installed, 0 to remove and 46 not upgraded.
Need to get 17.8 MB of archives.
After this operation, 285 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 python3-packaging all 21.3-1 [30.7 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-resolveLib all 0.8.1-1 [23.6 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 python3-jmespath all 0.10.0-1 [21.7 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-kerberos amd64 1.1.14-3.1build5 [23.0 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 python3-nacl amd64 1.5.0-2 [63.1 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-ntlm-auth all 1.4.0-1 [20.4 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 python3-paramiko all 2.9.3-0ubuntu1 [133 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-requests-kerberos all 0.12.0-2 [11.9 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-requests-ntlm all 1.1.0-1.1 [6160 B]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-xlrdict all 0.12.0-2 [12.6 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-winrm all 0.3.0-2 [21.7 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 sshpass amd64 1.09-1 [11.7 kB]
Get:13 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy/main amd64 ansible-core all 2.15.5-1ppa~jammy [1025 kB]
Get:14 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy/main amd64 ansible all 8.5.0-1ppa~jammy [16.4 MB]
Fetched 17.8 MB in 3s (6587 kB/s)
```

- Checking weather it was installed correct or not

```
ubuntu@ip-172-31-4-121:~$ ansible --version
ansible [core 2.15.5]
  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 = 3.10.12 (main, Jun 11 2023, 05:26:28) [GCC 11.4.0] (/usr/bin/python3)
  jinja version = 3.0.3
  libyaml = True
```

- Generating key

```
ubuntu@ip-172-31-4-121:~$ cd .ssh
ubuntu@ip-172-31-4-121:~/.ssh$ ssh-keygen
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:kbflvyFwU7Y/03M0LCQqXR/NxsVwEWF2cjXb0gtFkEm ubuntu@ip-172-31-4-121
The key's randomart image is:
+----[RSA 3072]----+
  =XX|
  .  .  .  .  .  .
  o  .  o  .  o  +
  o  +  *Eo
  S  *  =  B
  .  *  *  +  +
  .  o  +  +  B.o
  .  o  o  =o
  .  o  .
+----[SHA256]----+
```

- Copy the key we created

```
ubuntu@ip-172-31-4-121:~/.ssh$ ls
authorized_keys  id_rsa  id_rsa.pub
ubuntu@ip-172-31-4-121:~/.ssh$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCzKPO0BqV1oixP0cJ9egAfrR0buGGoDyzlvgyXlZznuDfK0f1moIGMuHChZVudGFGPZfDsB1P5JFmeLL6LbFeDKMMs2BN8MghUqA2pnSveZmIpCHBkNdJn
WYWLTS0LWDy5UrKA0DbPc0FbQV0PJBDoaGEEP26XRlsNlxdV9P1jhs1UPKJH6lw5mnk/8cRaQMMXcEve52UaEhGvs1u96FIcuCcaUrTrJLQYgbxCWokzkhWF9jz7sdZVylRIMsWoZ8W8vW8MnnAb58gBAA143
pRPXYBU86yhD5vE6aVh4TXnRA/7rdjRWZuHyDe0ZiQNUkfHumL9M3yt2fVJQW+JPAoJ30aVysy6JIC8K/P0ggFmuiz1EPLQzmYkhWDkRhvQqCrqItSJcqlFrk7U8p3MDSjRULrDbTwRTSA500AvPKMrIA2vIQ
Hqj6KSfaCDG5fwububmCulbosZLRuMIS3tjL0i76xieIIsK3aZBR3MYuIQL+HSBnwRB3n2MeZq8= ubuntu@ip-172-31-4-121
ubuntu@ip-172-31-4-121:~/.ssh$
```

SLAVE:

- Do it in 2 slaves same steps update the instance

```
ubuntu@ip-172-31-12-216:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1149 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [245 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [16.1 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1105 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [179 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [520 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [999 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [219 kB]
```

- Install python3 in both slaves

```
ubuntu@ip-172-31-12-216:~$ sudo apt install python3
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3 is already the newest version (3.10.6-1~22.04).
python3 set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 46 not upgraded.
ubuntu@ip-172-31-12-216:~$ python3 --version
Python 3.10.12
```

- Add the key we generated in authorized_keys in both slaves

```
ubuntu@ip-172-31-12-216:~$ cd .ssh
ubuntu@ip-172-31-12-216:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-12-216:~/.ssh$ vi authorized_keys
```

```
ubuntu@ip-172-31-12-216:~/.ssh$ cat authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCzKPO0BqVloixPocJ9egAfrRX0buGG0DyzlvgcyXlZnuDfKoflmoigMuHChZVudGFGPZfDsB1P5JFmeLL6LbFeDKMMs2BN8MghUqA2pnSveZmIpCHBkNdJnWYw1TsQLWDy5
UrkaOdbPcOfbQvPOJBDoaGEEP2GxRLsNLxdV9P1jhs1UPkJH61w5mnk/8cRaQMMxcEVe52UaEhGvs1u96FicuCcaUrTrJLQYgbxWokzkhWF9jz7sd2Vy1RIMmsWo28W8vW8MmnAb58gBAA143pRPXYBU86yhd5vE6aVh4TNXr
A/7rDjRWZuHyDe0ZiQNUkfbHuml9M3yt2fVJQW+JPaoJ30aVysy6JIC8K/POggEmuiz1EPLQzmYkHWDkRhvQqCrgITsJCq1Frk7U8p3MDSjRU1rDbTwRTSA500AvPKMrIA2vIQHqj6KSfACDG5fwwbubmCulbosZ1RuMIS3tJL
Oi76xiefIsK3aTzBR3MYUiriQL+HSBnwRB3n2MeZq8= ubuntu@ip-172-31-4-121
```

MASTER:

- Changing the permissions of hosts inventory file for editing it for adding the ips of slaves

```
ubuntu@ip-172-31-4-121:~/.ssh$ cd /
ubuntu@ip-172-31-4-121:/$ cd etc
ubuntu@ip-172-31-4-121:/etc$ cd ansible
ubuntu@ip-172-31-4-121:/etc/ansible$ ls
ansible.cfg  hosts  roles
ubuntu@ip-172-31-4-121:/etc/ansible$ ls -al
total 20
drwxr-xr-x  3 root root 4096 Nov  7 04:46 .
drwxr-xr-x 94 root root 4096 Nov  7 04:46 ..
-rw-r--r--  1 root root  614 Oct  9 17:53 ansible.cfg
-rw-r--r--  1 root root 1175 Oct  9 17:53 hosts
drwxr-xr-x  2 root root 4096 Oct  9 17:53 roles

ubuntu@ip-172-31-4-121:/etc/ansible$ sudo chmod 777 hosts
ubuntu@ip-172-31-4-121:/etc/ansible$ ls -al
total 20
drwxr-xr-x  3 root root 4096 Nov  7 04:46 .
drwxr-xr-x 94 root root 4096 Nov  7 04:46 ..
-rw-r--r--  1 root root  614 Oct  9 17:53 ansible.cfg
-rwxrwxrwx  1 root root 1175 Oct  9 17:53 hosts
drwxr-xr-x  2 root root 4096 Oct  9 17:53 roles
```

- Editing the hosts file

```
ubuntu@ip-172-31-4-121:/etc/ansible$ vim hosts
```

- The content in the file

```
[exo]
bangtan1 ansible_ssh_host=3.216.134.153
bangtan2 ansible_ssh_host=44.202.185.228
```

- Ping the slaves now

```

ubuntu@ip-172-31-4-121:/etc/ansible$ cd /
ubuntu@ip-172-31-4-121:/# cd ~
ubuntu@ip-172-31-4-121:~$ ansible -m ping bangtan1
The authenticity of host '3.216.134.153 (3.216.134.153)' can't be established.
ED25519 key fingerprint is SHA256:UZh2JTSnbY7uUj*WYeWM40dIH0HVmpttJY40ttaB/LM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
bangtan1 | SUCCESS ==> {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-4-121:~$ ansible -m ping bangtan2
The authenticity of host '44.202.185.228 (44.202.185.228)' can't be established.
ED25519 key fingerprint is SHA256:DahKHCHAreb5Lmbbuzaf9dPe+yiUSnfJ8F80J+DlvQc.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
bangtan2 | SUCCESS ==> {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-4-121:~$

```

- Using yml file installing apache2 server in 2 slaves at a time

```
ubuntu@ip-172-31-4-121:~$ sudo vi rm.yml
```

```

- name: Install Apache HTTP Server on Ubuntu
  hosts: exo # Replace with the target host or group of hosts
  become: yes # This allows the playbook to run with sudo privileges

  tasks:
    - name: Update APT package cache
      apt:
        update_cache: yes
        when: ansible_os_family == 'Debian'

    - name: Install Apache2 HTTP Server
      apt:
        name: apache2
        state: present
        when: ansible_os_family == 'Debian'

    - name: Start and enable the Apache2 service
      service:
        name: apache2
        state: started
        enabled: yes
        when: ansible_os_family == 'Debian'

```

- Running of playbook

```

ubuntu@ip-172-31-4-121:~$ ansible-playbook rm.yml
PLAY [Install Apache HTTP Server on Ubuntu] *****
TASK [Gathering Facts] *****
ok: [bangtan1]
ok: [bangtan2]

TASK [Update APT package cache] *****
changed: [bangtan2]
changed: [bangtan1]

TASK [Install Apache2 HTTP Server] *****
changed: [bangtan1]
changed: [bangtan2]

TASK [Start and enable the Apache2 service] *****
ok: [bangtan1]
ok: [bangtan2]

PLAY RECAP *****
bangtan1 : ok=4  changed=2  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0
bangtan2 : ok=4  changed=2  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

```

SLAVE:

- It was installed in both slaves we check it /var it shows www

```

ubuntu@ip-172-31-12-216:~/.ssh$ cd /
ubuntu@ip-172-31-12-216:/# cd var
ubuntu@ip-172-31-12-216:/var$ ls
backups cache crash lib local lock log mail opt run snap spool www
ubuntu@ip-172-31-12-216:/var$

```

i-02bfd2c79e01adb0a (bangtan1)

PublicIPs: 3.216.134.153 PrivateIPs: 172.31.12.216

```

ubuntu@ip-172-31-2-242:~/.ssh$ cd /
ubuntu@ip-172-31-2-242:/# cd var
ubuntu@ip-172-31-2-242:/var$ ls
backups cache crash lib local lock log mail opt run snap spool www
ubuntu@ip-172-31-2-242:/var$

```

i-06cafb8765dc53c68 (bangtan2)

PublicIPs: 44.202.185.228 PrivateIPs: 172.31.2.242

- Removing the index files in both slaves for web hosting

```
ubuntu@ip-172-31-12-216:/var$ cd www
ubuntu@ip-172-31-12-216:/var/www$ cd html
ubuntu@ip-172-31-12-216:/var/www/html$ ls
index.html
ubuntu@ip-172-31-12-216:/var/www/html$ sudo rm -r index.html
ubuntu@ip-172-31-12-216:/var/www/html$ ls
ubuntu@ip-172-31-12-216:/var/www/html$
```

i-02bfd2c79e01adb0a (bangtan1)
PublicIPs: 3.216.134.153 PrivateIPs: 172.31.12.216

```
ubuntu@ip-172-31-2-242:/var$ cd www
ubuntu@ip-172-31-2-242:/var/www$ cd html
ubuntu@ip-172-31-2-242:/var/www/html$ ls
index.html
ubuntu@ip-172-31-2-242:/var/www/html$ sudo rm -r index.html
ubuntu@ip-172-31-2-242:/var/www/html$ ls
ubuntu@ip-172-31-2-242:/var/www/html$
```

i-06cafb8765dc53c68 (bangtan2)
PublicIPs: 44.202.185.228 PrivateIPs: 172.31.2.242

MASTER:

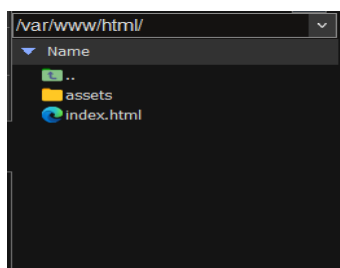
- Installing the apache2 in master for web hosting

```
ubuntu@ip-172-31-4-121:/var$ ls
backups cache crash lib local lock log mail opt run snap spool tmp
ubuntu@ip-172-31-4-121:/var$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser bzip2-doc
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
  ssl-cert
0 upgraded, 13 newly installed, 0 to remove and 46 not upgraded.
Need to get 2137 kB of archives.
After this operation, 8595 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapr1 amd64 1.7.0-8ubuntu0.22.04.1 [108 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1 amd64 1.6.1-5ubuntu4.22.04.2 [92.8 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-5ubuntu4.22.04.2 [11.3 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-ldap amd64 1.6.1-5ubuntu4.22.04.2 [9170 B]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 liblua5.3-0 amd64 5.3.6-1build1 [140 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-bin amd64 2.4.52-1ubuntu4.6 [1345 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-data all 2.4.52-1ubuntu4.6 [165 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-utils amd64 2.4.52-1ubuntu4.6 [180.1 kB]
```

```
ubuntu@ip-172-31-4-121:~$ cd /
ubuntu@ip-172-31-4-121:/ $ cd var
ubuntu@ip-172-31-4-121:/var$ ls
backups cache crash lib local lock log mail opt run snap spool tmp www
ubuntu@ip-172-31-4-121:/var$ cd www
ubuntu@ip-172-31-4-121:/var/www$ cd html
ubuntu@ip-172-31-4-121:/var/www/html$ ls
index.html
```

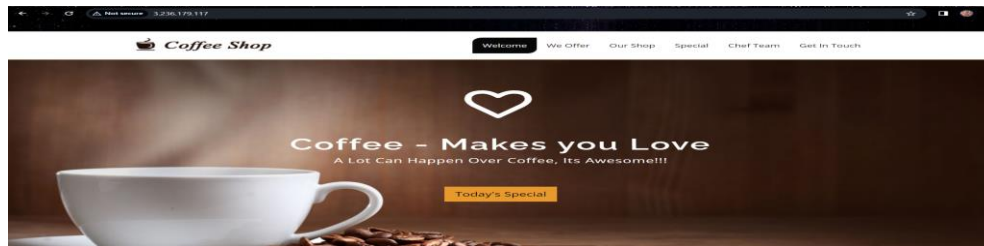
- Web hosting steps using drag & drop

```
ubuntu@ip-172-31-4-121:/var/www/html$ sudo chmod 777 /var/www/html/
```



```
ubuntu@ip-172-31-4-121:/var/www/html$ ls
assets index.html
```

- Check the web using public ip



- Web hosting in slaves also using yml & playbook

```
ubuntu@ip-172-31-4-121:~$ sudo vi hope.yml
```

```
---
- name: Install Apache HTTP Server on Ubuntu
  hosts: exo # Replace with the target host or group of hosts
  become: yes # This allows the playbook to run with sudo privileges

  tasks:
    - name: Update APT package cache
      apt:
        update_cache: yes
        when: ansible_os_family == 'Debian'

    - name: Install Apache2 HTTP Server
      apt:
        name: apache2
        state: present
        when: ansible_os_family == 'Debian'

    - name: Start and enable the Apache2 service
      service:
        name: apache2
        state: started
        enabled: yes
        when: ansible_os_family == 'Debian'

    - name: copy website file
      copy:
        src: /var/www/html/index.html
        dest: /var/www/html/
```

```
ubuntu@ip-172-31-4-121:~$ ansible-playbook hope.yml

PLAY [Install Apache HTTP Server on Ubuntu] *****
TASK [Gathering Facts] *****
ok: [bangtan2]
ok: [bangtan1]

TASK [Update APT package cache] *****
changed: [bangtan2]
changed: [bangtan1]

TASK [Install Apache2 HTTP Server] *****
ok: [bangtan2]
ok: [bangtan1]

TASK [Start and enable the Apache2 service] *****
ok: [bangtan2]
ok: [bangtan1]

TASK [copy website files] *****
changed: [bangtan2]
changed: [bangtan1]

PLAY RECAP *****
bangtan1 : ok=5  changed=2  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0
bangtan2 : ok=5  changed=2  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0
```

```
ubuntu@ip-172-31-4-121:~$ sudo vi suga.yml
```

```
---
- name: Install Apache HTTP Server on Ubuntu
  hosts: exo # Replace with the target host or group of hosts
  become: yes # This allows the playbook to run with sudo privileges

  tasks:
    - name: Update APT package cache
      apt:
        update_cache: yes
        when: ansible_os_family == 'Debian'

    - name: Install Apache2 HTTP Server
      apt:
        name: apache2
        state: present
        when: ansible_os_family == 'Debian'

    - name: Start and enable the Apache2 service
      service:
        name: apache2
        state: started
        enabled: yes
        when: ansible_os_family == 'Debian'

    - name: copy website files
      copy:
        src: /var/www/html/assets
        dest: /var/www/html/
```



```

ubuntu@ip-172-31-4-121:~$ ansible-playbook suga.yml

PLAY [Install Apache HTTP Server on Ubuntu] *****

TASK [Gathering Facts] *****
ok: [bangtan2]
ok: [bangtan1]

TASK [Update APT package cache] *****
changed: [bangtan2]
changed: [bangtan1]

TASK [Install Apache2 HTTP Server] *****
ok: [bangtan2]
ok: [bangtan1]

TASK [Start and enable the Apache2 service] *****
ok: [bangtan1]
ok: [bangtan2]

TASK [copy website files] *****
changed: [bangtan2]
changed: [bangtan1]

PLAY RECAP *****
bangtan1 : ok=5  changed=2  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0
bangtan2 : ok=5  changed=2  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

```

SLAVE:

- Checking weather the templates are there in slaves

```

ubuntu@ip-172-31-12-216:/var/www/html$ ls
assets  index.html
ubuntu@ip-172-31-12-216:/var/www/html$ 

```

i-02bfd2c79e01adb0a (bangtan1)
PublicIPs: 3.216.134.153 PrivateIPs: 172.31.12.216

```

ubuntu@ip-172-31-2-242:/var/www/html$ ls
assets  index.html
ubuntu@ip-172-31-2-242:/var/www/html$ 

```

i-06cafb8765dc53c68 (bangtan2)
PublicIPs: 44.202.185.228 PrivateIPs: 172.31.2.242

- Web Hosted in both slaves

