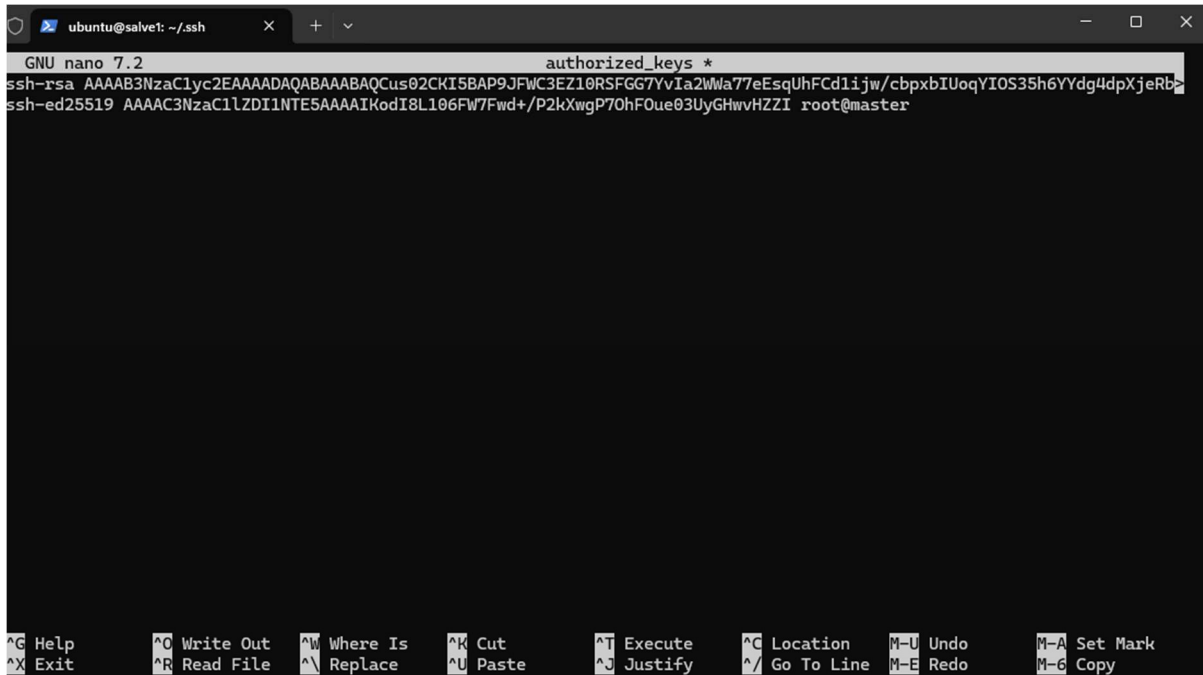


Module-6: Ansible Assignment - 1

```
Last login: Tue Feb 18 09:16:50 2025 from 152.59.241.19
ubuntu@master:~$ sudo su
root@master:/home/ubuntu# ssh-keygen
Generating public/private ed25519 key pair.
Enter file in which to save the key (/root/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_ed25519
Your public key has been saved in /root/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:kgwiSNqkHep2q3dgGTnqyINRIjUq0wFIh3QmmPj70cg root@master
The key's randomart image is:
+--[ED25519 256]--+
|BB++              |
|OBO.              |
|*=+oo             |
|B.+ = o .         |
|o* .++o+ S        |
|o.o+E ..          |
| =..o..           |
|o+....            |
|.o .              |
+----[SHA256]-----+
root@master:/home/ubuntu#
```



The screenshot shows a terminal window with a nano editor open, editing the file `authorized_keys`. The file contains two SSH keys: an RSA key and an ED25519 key. The ED25519 key is the one generated in the previous block. The terminal window title is `ubuntu@salve1: ~/.ssh`. The nano editor status bar at the bottom shows various commands like `^G Help`, `^O Write Out`, etc.

```
GNU nano 7.2 authorized_keys *
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQcus02CKI5BAP9JFWC3EZ10RSFGG7YvIa2Wwa77eEsqUhfCd1ijw/cbpxbIUoqYI0S35h6YYdg4dpXjeRb
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIKodI8L106FW7Fwd+/P2kXwgP70hFOue03UyGHwvHZZI root@master
```

```
ubuntu@slave2: ~/.ssh
GNU nano 7.2 authorized_keys *
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCuS02CKI5BAP9JFWC3EZ10RSFGG7YvIa2Wwa77eEsqUhFCd1ijw/cbpxbIUoqYIOS35h6YYdg4dpXjeRb
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIKodI8L106FW7Fwd+/P2kXwgP70hFOue03UyGHwvHZZI root@master

Save modified buffer?
Y/Yes
```

```
GNU nano 7.2 hosts *
[slave2]
172.31.94.82

[slave1]
172.31.90.160

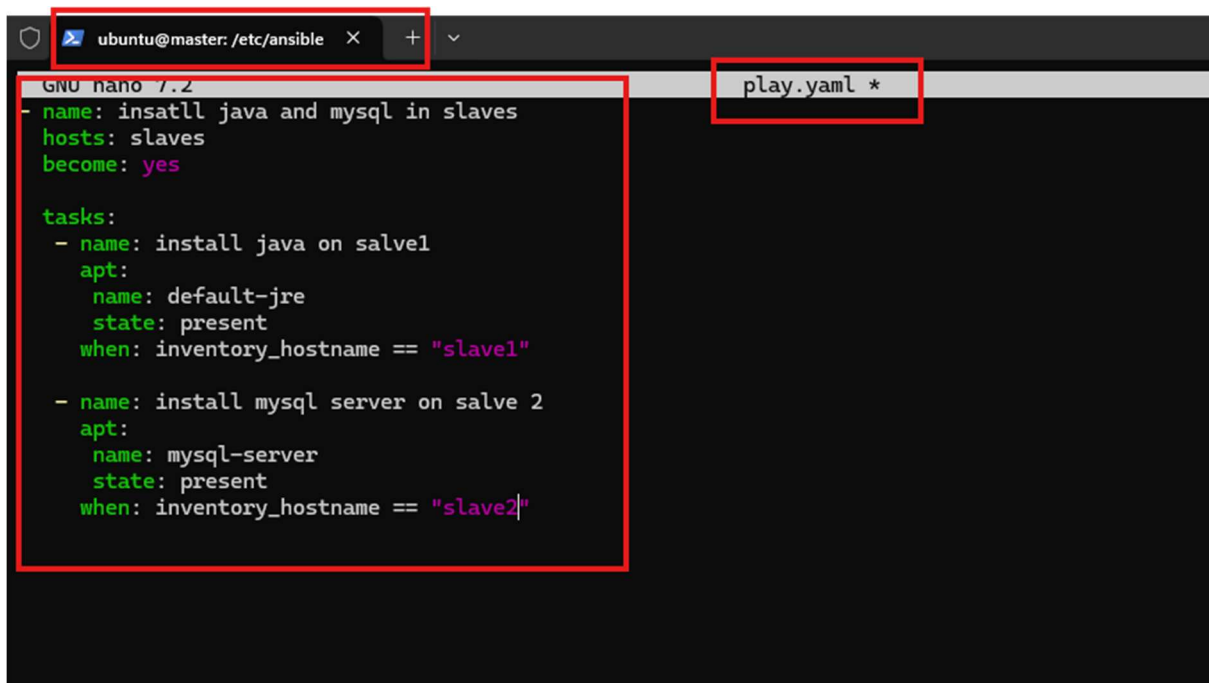
# This is the default ansible 'hosts' file.
#
# It should live in /etc/ansible/hosts
#
# - Comments begin with the '#' character
# - Blank lines are ignored
# - Groups of hosts are delimited by [header] elements
# - You can enter hostnames or ip addresses
# - A hostname/ip can be a member of multiple groups

# Ex 1: Ungrouped hosts, specify before any group headers:

## green.example.com
## blue.example.com
## 192.168.100.1
## 192.168.100.10

# Ex 2: A collection of hosts belonging to the 'webservers' group:
```

```
ubuntu@master:/etc/ansible$ ansible -i hosts slave1 -m ping
[WARNING]: Platform linux on host 172.31.90.160 is using the discovered Python interpreter at /usr/bin/python3.12, but
future installation of another Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
172.31.90.160 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.12"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@master:/etc/ansible$ ansible -i hosts slave2 -m ping
The authenticity of host '172.31.94.82 (172.31.94.82)' can't be established.
ED25519 key fingerprint is SHA256:V/YtITfsAM/vQvJdSJt8ok+ClS Ae68TD2+cJV7T3z/k.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
[WARNING]: Platform linux on host 172.31.94.82 is using the discovered Python interpreter at /usr/bin/python3.12, but
future installation of another Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
172.31.94.82 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.12"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@master:/etc/ansible$
```



The screenshot shows a terminal window with a browser-like interface. The top bar displays the terminal title 'ubuntu@master: /etc/ansible' and a tab icon. Below the title bar, the file 'play.yaml *' is open in the 'GNU nano 1.2' editor. The file content is as follows:

```
- name: install java and mysql in slaves
hosts: slaves
become: yes

tasks:
- name: install java on slave1
  apt:
    name: default-jre
    state: present
    when: inventory_hostname == "slave1"
- name: install mysql server on slave 2
  apt:
    name: mysql-server
    state: present
    when: inventory_hostname == "slave2"
```

```

ubuntu@master:/etc/ansible$ sudo nano play.yaml
ubuntu@master:/etc/ansible$ sudo nano play.yaml
ubuntu@master:/etc/ansible$ sudo nano play.yaml
ubuntu@master:/etc/ansible$ ansible-playbook -i hostname play.yaml
[WARNING]: Unable to parse /etc/ansible/hostname as an inventory source
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
[WARNING]: Could not match supplied host pattern, ignoring: slaves

PLAY [insatll java and mysql in slaves] *****
skipping: no hosts matched

PLAY RECAP *****

ubuntu@master:/etc/ansible$ ansible-playbook -i hosts play.yaml

PLAY [insatll java and mysql in slaves] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host slave2 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [slave2]
[WARNING]: Platform linux on host slave1 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [slave1]

TASK [install java on salve1] *****
skipping: [slave2]
changed: [slave1]

TASK [install mysql server on salve 2] *****
skipping: [slave1]
changed: [slave2]

PLAY RECAP *****
slave1      : ok=2    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0
slave2      : ok=2    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0

ubuntu@master:/etc/ansible$
ubuntu@master:/etc/ansible$

```

Last login: Tue Feb 18 11:19:29 2025 from 172.31.83.109

```
ubuntu@slave1:~$ java --version
```

```

openjdk 21.0.6 2025-01-21
OpenJDK Runtime Environment (build 21.0.6+7-Ubuntu-124.04.1)
OpenJDK 64-Bit Server VM (build 21.0.6+7-Ubuntu-124.04.1, mixed mode, sharing)
ubuntu@slave1:~$

```

Last login: Tue Feb 18 11:20:10 2025 from 172.31.83.109

```
ubuntu@slave2:~$ mysql --version
```

```

mysql Ver 8.0.41-0ubuntu0.24.04.1 for Linux on x86_64 ((Ubuntu))
ubuntu@slave2:~$

```