Install VM

2. Install all updates -

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

3. Install Ansible

```
Sudo apt install ansible Ansible -version
```

4. Install SSH

```
Sudo apt install ssh
Sudo apt install sshpass
```

5. Create SSH key-value pair

Connect to SSH

```
meghana@meghana-ubuntu-VM:-$ ssh meghana@meghana-ubuntu-VM
meghana@meghana-ubuntu-vm's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-27-generic aarch64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/pro

Expanded Security Maintenance for Applications is not enabled.

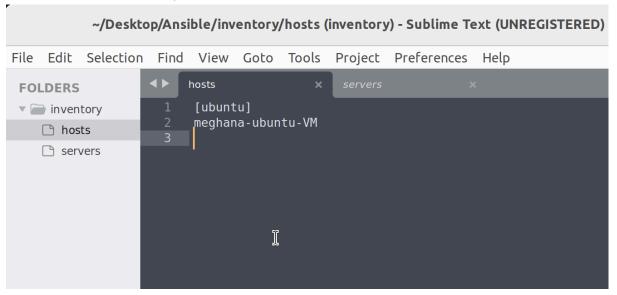
0 updates can be applied immediately.

8 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

Last login: Sat Mar 30 19:50:52 2024 from 127.0.0.1
```

```
meghana@meghana-ubuntu-VM:~/.ssh$ ssh -i ~/.ssh/id_ubuntucore meghana@meghana-ubun
The authenticity of host 'meghana-ubuntu-vm (127.0.1.1)' can't be established. ED25519 key fingerprint is SHA256:6Le57J+pxi7deTrR3eo4T6LmA3D3lS9Ndhq6PVWrGGs.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'meghana-ubuntu-vm' (ED25519) to the list of known host
meghana@meghana-ubuntu-vm's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-27-generic aarch64)
 * Documentation: https://help.ubuntu.com
                      https://landscape.can_nical.com
 * Management:
                      https://ubuntu.com/pro
 * Support:
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
8 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
meghana@meghana-ubuntu-VM:~$
```

7. Create an inventory -



8. Command with inventory -

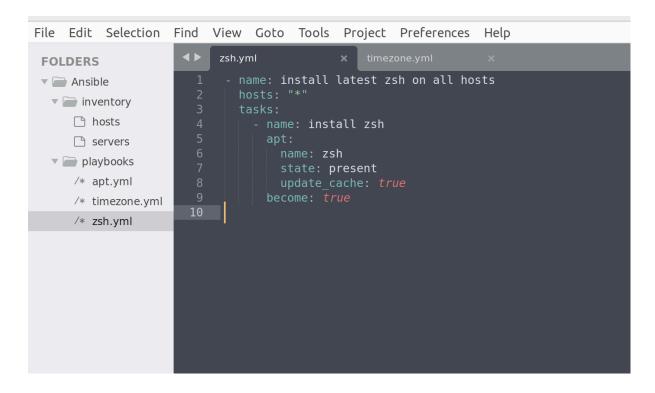
ansible -i ~/Desktop/Ansible/inventory/hosts ubuntu -m ping -user
meghana -ask-pass

```
"unreachable": true
}
meghana@meghana-ubuntu-VM:~$ ansible -i ~/Desktop/Ansible/inventory/hosts ubuntu -m ping --user m
eghana --ask-pass
SSH password:
meghana-ubuntu-VM | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
meghana@meghana-ubuntu-VM:~$
```

9. Create an APT playbook

10. Command with playbook

11. Create a playbook to install zshell on all servers



12. Command the playbook in ansible terminal

```
ansible-playbook ~/Desktop/Ansible/playbooks/zsh.yml --user
meghana --ask-pass --ask-become-pass -i
~/Desktop/Ansible/inventory/hosts
```

```
meghana@meghana-ubuntu-VM:~$ ansible-playbook ~/Desktop/Ansible/playbooks/zs
h.yml --user meghana --ask-pass --ask-become-pass -i ~/Desktop/Ansible/inven
tory/hosts
SSH password:
BECOME password[defaults to SSH password]:
ok: [meghana-ubuntu-VM]
***
changed: [meghana-ubuntu-VM]
***
meghana-ubuntu-VM
               : ok=2
                    changed=1
                           unreachable=0
                                     failed=0
 skipped=0
        rescued=0
                ignored=0
```

13. Create a playbook to change timezone of servers using ansible

```
~/Desktop/Ansible/playbooks/timezone.yml • (Ansible) - Sublime Text (UNREGISTERED)
                                                                                                                                     _ 0
File Edit Selection Find View Goto Tools Project Preferences Help
                       ▼ zsh.yml × timezone.yml
FOLDERS
                                 name: Set timezone and configure timesyncd
 ▼ 🕋 Ansible
  ▼ 🚞 inventory
     hosts
                                 name: set timezoneshell: timedatectl set-timezone America/Chicago
     servers
  ▼  playbooks
    ▼  templates
                                 systemd:
   name: systemd-timesyncd.service
   state: stopped
       timesyncd.co
      /* apt.vml
   /* timezone.yml

    name: Copy over the timesyncd config
    template: src=~/Desktop/Ansible/playbooks/templates/timesyncd.conf dest=/etc/systemd/time

      /* zsh.yml
                                 - name: Make sure timesyncd is started
                                   systemd:
  name: systemd-timesyncd.service
  state: started
```

14. Command the playbook

```
ansible-playbook ~/Desktop/Ansible/playbooks/timezone.yml
-user meghana -ask-pass -ask-become-pass -i
~/Desktop/Ansible/inventory/hosts
```

```
meghana@meghana-ubuntu-VM:-$ ansible-playbook ~/Desktop/Ansible/playbooks/timezone.yml --user meghana --ask-pass
-ask-become-pass -i ~/Desktop/Ansible/inventory/hosts
BECOME password[defaults to SSH password]:
ok: [meghana-ubuntu-VM]
                I
unreachable=0
                   failed=0
                       skipped=0
                           rescued=0
                               ignored=
```

15. Check if timezone has changed

Current time -

```
p<mark>hana-ubuntu-VM:~</mark>$ date
06:21:04 PM EDT 2024
```

After running playbook -

```
ghana-ubuntu-VM:~$ date
05:22:50 PM CDT 2024
```