ANSIBLE- https://docs.ansible.com/

Change the name of you host to recognise on which server we are working Sudo vim /etc/hostname

Remove everything & add ansible controller

ansible_controlle<mark>r</mark> ~

sudo reboot

Now edit hosts name file to add target servers ip and name on ansible_controller & on targets as well. Sudo vim /etc/hosts

127.0.0.1 ansible_controller 3.89.101.117 ansible_controller 3.91.100.124 target1

Now to enable ssh access from ansible controller to target machines, we need to generate ssh keys for controller server and then to add the same generated key to authorized keys of target hosts.

Ansible_controller server ssh-keygen

copy id_rsa.pub to target server authorized_keys and confirm ssh access from ansible controller ssh ubuntu@<target ip address>

Ansible Installation on ansible controller server:-

https://docs.ansible.com/ansible/latest/installation_guide/intro_installation.html#installing-ansible-on-ubuntu
sudo apt update -y
sudo apt install software-properties-common -y
sudo add-apt-repository --yes --update ppa:ansible/ansible
sudo apt install ansible -y
ansible --version

Ansible ssh and password connection method:-

https://docs.ansible.com/ansible/latest/user_guide/connection_details.html

Ansible Adding Hosts in inventory file:-

https://www.bogotobogo.com/DevOps/Ansible/Ansible-SSH-Connection-Setup-Run-Command.php

create inventory list in ansible_controller mkdir project cd project

EXAMPLE 1:-

sudo vim inventory2.txt #add below in inventory2.txt file

[prod] 3.91.100.124 ansible ssh private key file=/home/ubuntu/.ssh/controller ansible connection=ssh #ansible connection method #which key to be used to ssh #IP of target [dev] 4.91.100.1 ansible connection=ssh ansible ssh private key file=/home/ubuntu/.ssh/controller 4.91.101.2 ansible connection=ssh ansible ssh private key file=/home/ubuntu/.ssh/controller #ansible connection method #which key to be used to ssh **#IP** of target

ansible -i inventory2.txt -m ping prod # this command will ping the server under prod in the inventory2 file.

```
ubuntu@ansible_controller:~/.ssh/project$ ansible -i inventory2.txt -m ping prod
3.91.100.124 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
```

ansible -i inventory2.txt -m ping dev # this command will ping the server under dev in the inventory2 file.

ansible -i inventory2.txt -m ping all # this command will ping all the servers under prod & dev inventory2.

EXAMPLE 2:-

sudo vim inventory.txt #add below in inventory.txt file

host1 ansible_host=3.91.100.124 ansible_connection=ssh ansible_ssh_private_key_file=/home/ubuntu/.ssh/controller ansible -i inventory.txt -m ping host1 # this command will ping the server under prod in the inventory file.

```
ubuntu@ansible_controller:~/.ssh/project$ cat inventory.txt
host1 ansible_host=3.91.100.124 ansible_connection=ssh ansible_ssh_private_key_file=/home/
ubuntu/.ssh/controller
ubuntu@ansible_controller:~/.ssh/project$ ansible -i inventory.txt -m ping host1
host1 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
     },
     "changed": false,
     "ping": "pong"
}
```

EXAMPLE 3:-

sudo vim inventory3.txt #add below in inventory3.txt file

3.91.100.124 ansible_connection=ssh ansible_ssh_private_key_file=/home/ubuntu/.ssh/controller

EXAMPLE 4:- IF ssh is setup with username and password

sudo vim inventory4.txt #add below in inventory4.txt file

host1 ansible_host=3.91.100.124 ansible_ssh_pass=<password> ansible_user=<username>

By default, Ansible uses username of ansible controller in our case its **ubuntu**# Like if we ssh to a new instance it ask for to add key fingerprint, to disable it we need to below changes:sudo vim /etc/ansible/ansible.conf

```
# uncomment this to disable SSH key host checking
#host_key_checking = False
```

It will be under the [Default] Section Just uncomment it and save the file.

ANSIBLE ROLES

https://galaxy.ansible.com/search?deprecated=false&tags=database&keywords=mysql&order_by=-relevance&page=1





Roles path can be checked in ansible.conf

cat /etc/ansible/ansible.conf

Path:-

/etc/ansible/roles/

