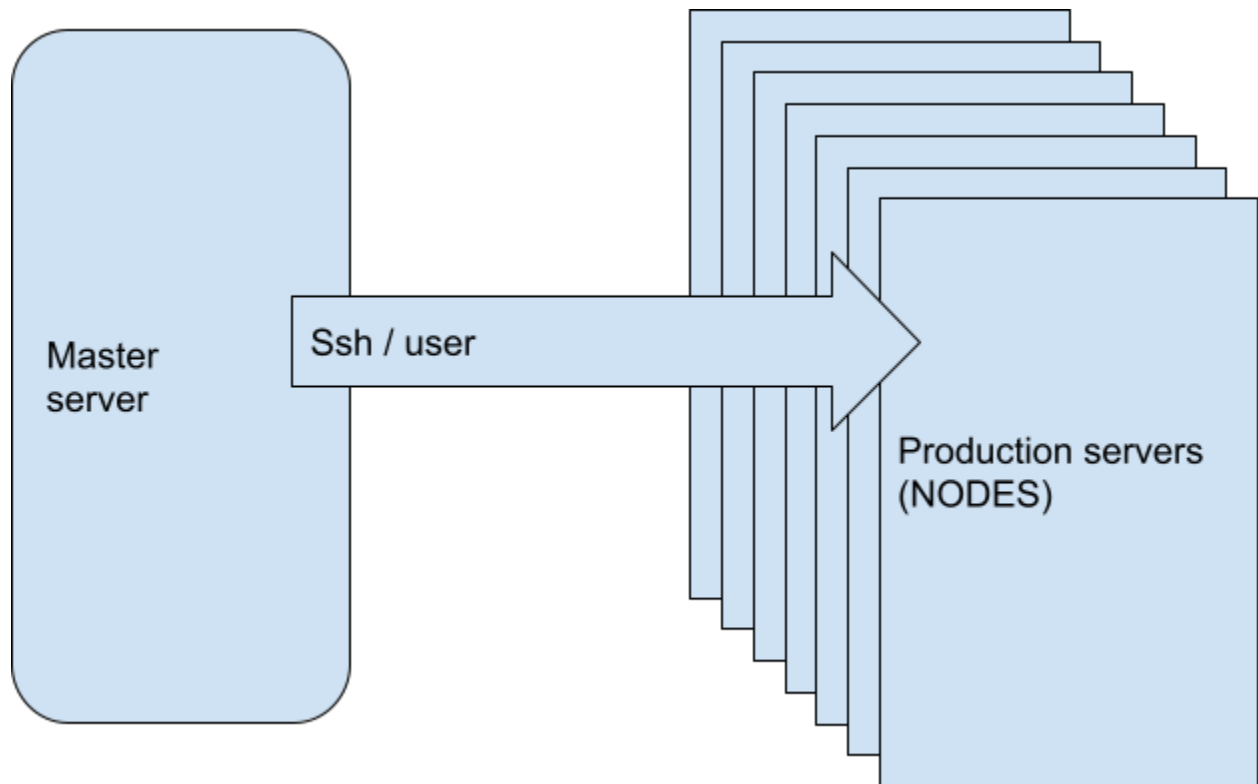


SSH passwordless Authentication :



Stage 01: Configure Master server

1. Create ubuntu 16 server with t2.micro

2. Create user (maha)

adduser maha

3. Make maha user as sudoer

visudo

maha ALL=(ALL) NOPASSWD: ALL

Ctrl+x, press y, press enter

4. Change password authentication

vi /etc/ssh/sshd_config

Password authentication yes

:wq!

5. Restart ssh service

service ssh restart

Stage 02: configure Production servers (nodes)

6. Create ubuntu 16 server with t2.micro

7. Create user (maha)

adduser maha

8. Make maha user as sudoer

visudo

maha ALL=(ALL) NOPASSWD: ALL

Ctrl+x, press y, press enter

9. Change password authentication

vi /etc/ssh/sshd_config

Password authentication yes

:wq!

10. Restart ssh service

service ssh restart

Stage 03: Connect from master to nodes without passwd and pem file

ON MASTER As MAHA user

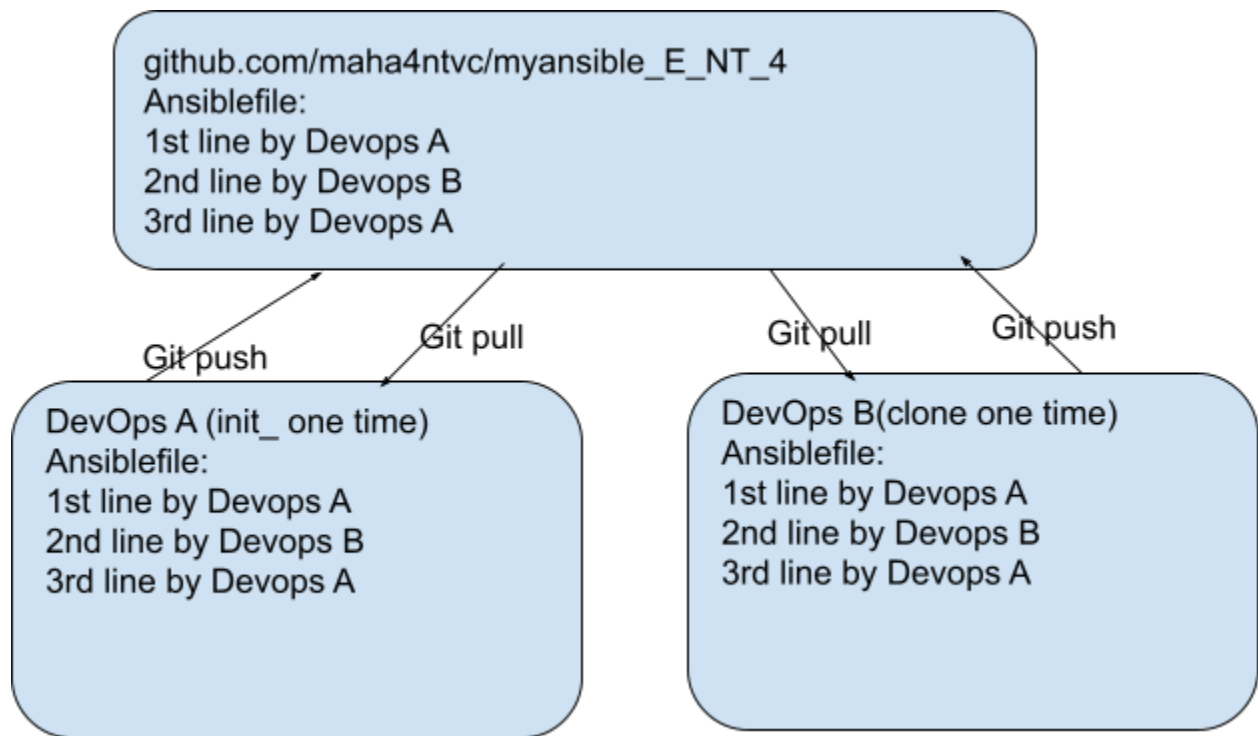
- *generate key pair on maha user*
\$ ssh-keygen
- *Copy public key into node server side*
\$ ssh-copy-id <private ip of nodes>
- *We can connect from master to nodes without passwd and with pem file*
\$ ssh <private ip of nodes>

Ansible:

- 1) How to use git***
- 2) What is CM?***
- 3) What is ansible?***
- 4) Ansible install configuration***
- 5) Ansible ART***

What is Git and use?

Git version control:



Git add -A

Git commit -m "comment"

Git push

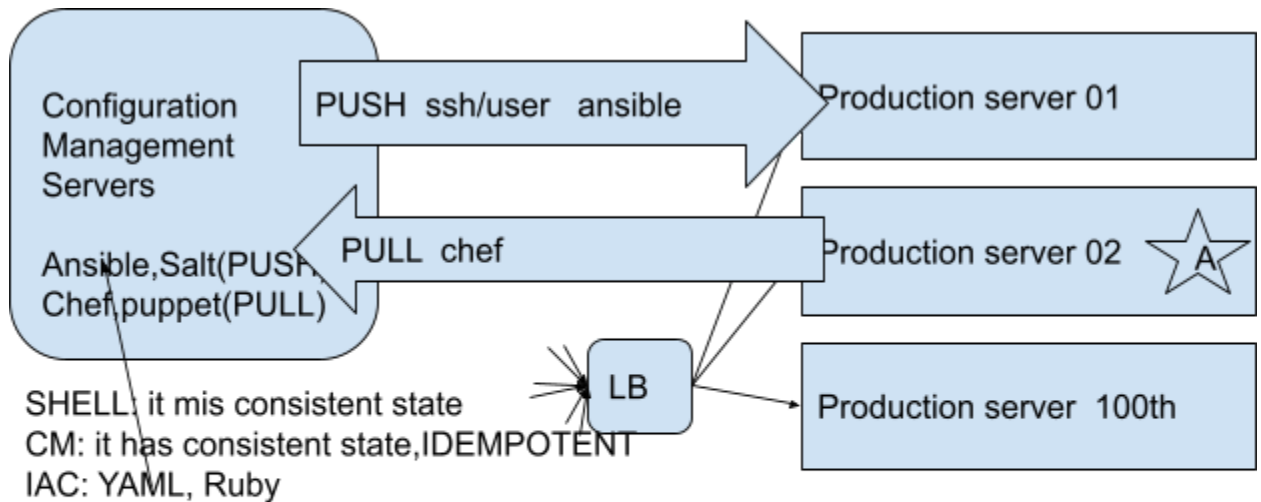
vs

Git pull

- 1) Create github account**
- 2) Sing in github.com**
- 3) Create Repo (mytestrep03dec)**
- 4) Initial repo in ur laptop**

```
echo "# -mytestrep03dec" >> README.md
git init
git add README.md
git commit -m "first commit"
git config --global user.name "maha"
git config --global user.email "maha@gamail.com"
git commit -m "first commit"
git branch -M main
git remote add origin
https://github.com/maha4ntvc/-mytestrep03dec.git
git push -u origin main
```

5) *Create a file*
git add -A
git commit -m "comment"
git push

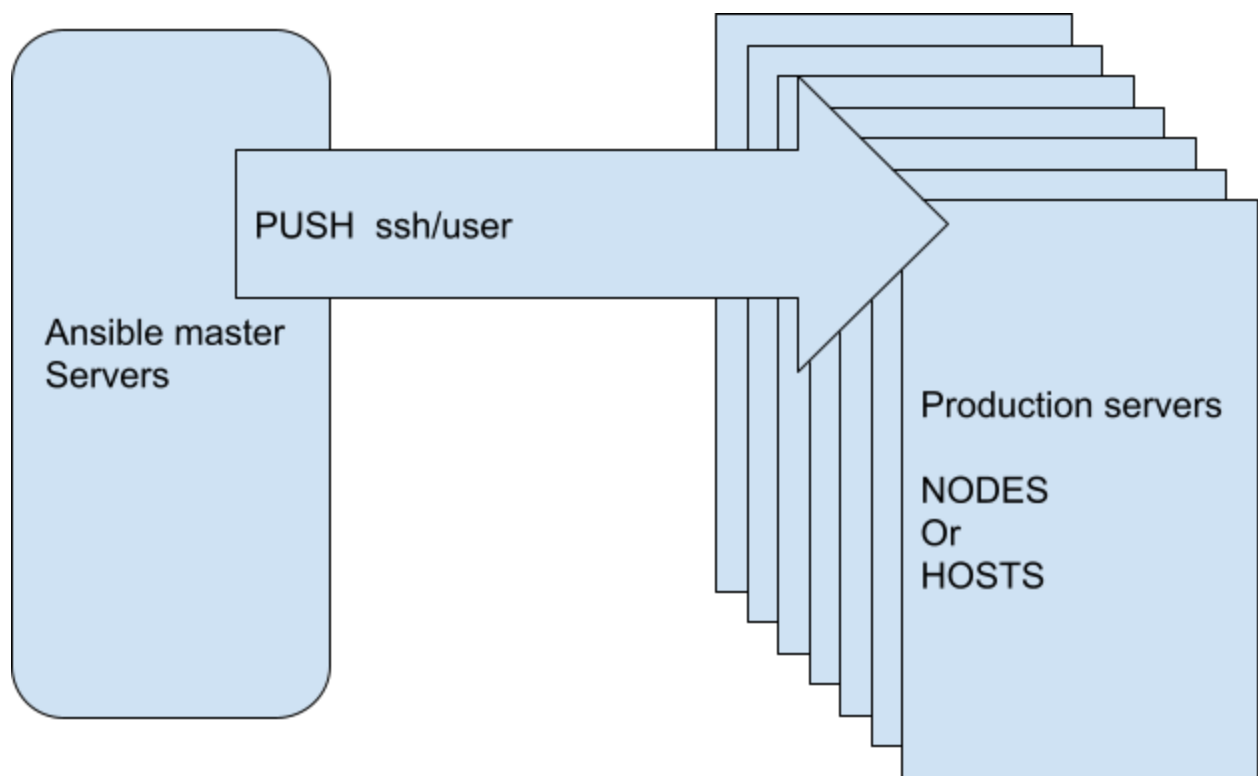


Provision: it provide suitable environment for deploying application

- 1) Install softwares
- 2) Create files and folders
- 3) Create users and groups
- 4) Change configure files
- 5) deploy applicationetc

Configuration Management : CM

PUSH : Ansible



Ansible master server install and configuration:

- 1) **Create a ec2 ubuntu 16 servers**
- 2) **Create ansible user as maha with passwd**
adduser maha
- 3) **Make ansible user as sudoer**
visudo
maha ALL=(ALL) NOPASSWD: ALL
Ctrl+x, press y, press enter
- 4) **Make password authentication yes**
vi /etc/ssh/sshd_config
Password authentication yes
:wq!
- 5) **Restart ssh service**
service ssh restart
- 6) **Install ansible**
apt-add-repository ppa:ansible/ansible
apt-get update
apt-get install ansible

Ansible NODES configuration:

- 7) Create a ec2 ubuntu 16 servers
- 8) Create ansible user as maha with passwd
adduser maha
- 9) Make ansible user as sudoer
visudo
maha ALL=(ALL) NOPASSWD: ALL
Ctr+x, press y, press enter
- 10) Make password authentication yes
vi /etc/ssh/sshd_config
Password authentication yes
:wq!
- 11) Restart ssh service
service ssh restart
- 12) Don't Install ansible
apt-add-repository ppa:ansible/ansible
apt-get update
apt-get install ansible

Ansible master server communication with ansible nodes: without password and pem file

ON ANSIBLE MASTER AS Ansible user(maha)

- 13) \$ ssh-keygen
 - 14) \$ ssh-copy-id <private ip of ansible nodes>
 - 15) \$ ssh <private ip of ansible nodes>
 - 16) We are trying to connect by ansible
 - Create hosts file
Vi myhosts
<private ip of node1>
<private ip of node2>
<private ip of noden>
:wq!
- \$ ansible all -i myhosts -m ping
Success with green colour