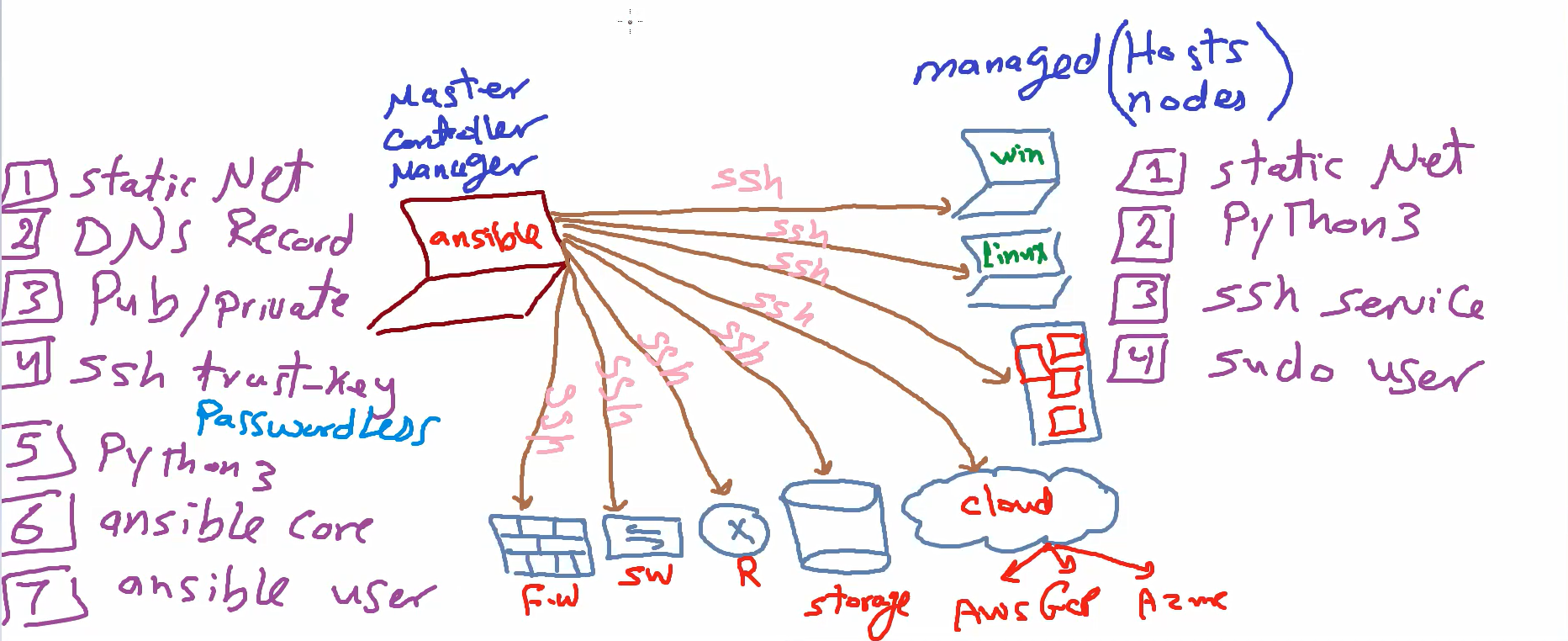
1. Create manager machine
2. Create 5 vms (db01,mc01,rmq01,app01,web01)
3. Create role for each machine to configure it



-Vagrant init

-Add the 6 machines configuration in vagrant file created after init:

A screenshot of a computer code

Description automatically generated

-Vagrant up (machines ll be created) 🡪 to check : -vagrant box list

install manager :

1-ssh trust key (to login with it not the password)

-sudo -i

-apt/yum install update

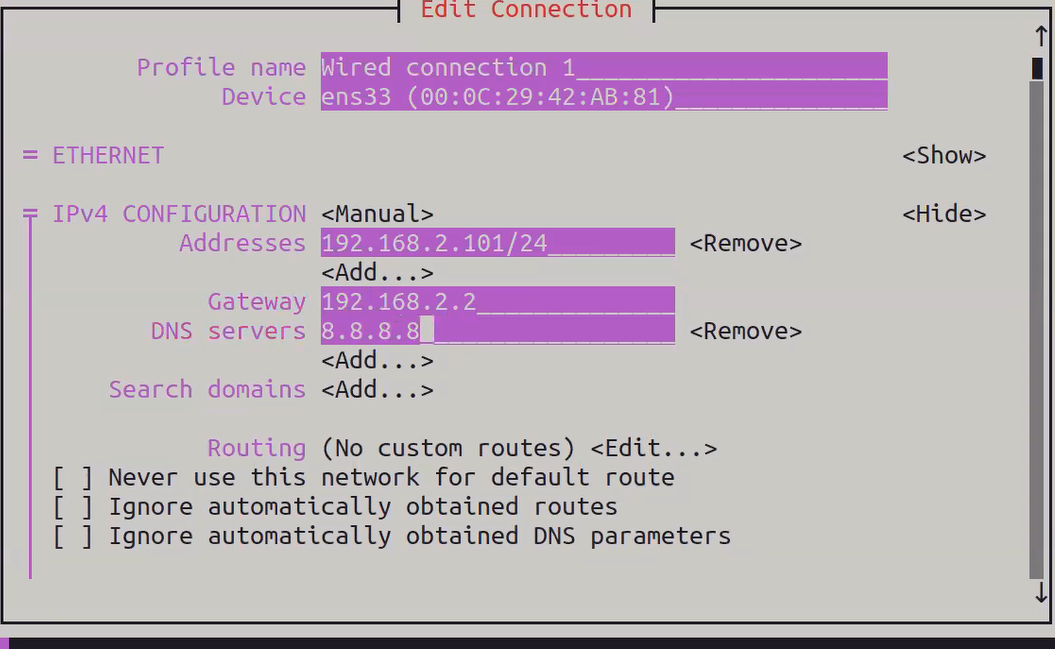
- check if SSH exist in each vm 🡪 systemctl status sshd

i find it installed in rh and centos , and not exist in ububntu 🡪 so we need to install it

-sudo apt install openssh-server

2- static network 🡪ip a (ip and hostname already defined in vagrant file)

I need to make this Ips static 🡪nmtui -> edit connection ->IPV4 make it manual 🡪 show and change the ip in the same subnet



After that deactivate and activate

A screenshot of a computer

Description automatically generated

Host name 🡪 change to mnge -> -> ok ->quit

3-DNS record🡪 Vim /etc/hosts

Insert all nodes :  
192.168.80.50 mngr

192.168.80.51 node1

4-Install python3 🡪yum install python

5- ansible user:Create ansible user first because we need it to create public and private key

- adduser ansible

-passwd ansible 🡪 add password🡪retry

-vim /etc/sudoers 🡪 ansible ALL=(ALL) NOPASSWD: ALL

-su ansible

6-public/private key:Create public and private key for user manager 🡪 -ssh-keygen

send **public key** to allow the manager login without ask for a password anymore

* -Ssh-copy-id dina@node1

7-ansible core :- sudo dnf install ansible

<if couldn’t find the repo add it in EPEL manually>

a-find the current OS name and version num 🡪 hostnamectl

Rocky version 9 🡪x86\_64

b-get the repo url (search for epel repo and get the index from search result 🡪v9🡪everything 🡪 x86\_64) copy url

A screenshot of a computer

Description automatically generated

c-create file 🡪 sudo vim /etc/yum.repos.d/epel.repo



d- add description and url of the repo

A close-up of a web page

Description automatically generated

d-install ansible 🡪 sudo dnf install ansible

get ansible ready in all machines :

-install update

-install openssh-server if not exists

-static network🡪nmtui

-Dns 🡪/etc/hosts and add all machines

-sudo user 🡪user add and add it to sudoers

-python3 install🡪apt install python3