Ansible Installation :

Installing Ansible on Linux/Ubuntu

Setting up SSH Keys between controller and managed nodes

Configuring Ansible hosts/inventory file

High level hands on :

1. Login to aws

2. Create 3 instance

3. Instance 1 ---> install ansible

4. Open hostfile in instance1 -- /etc/ansible/hosts (enter the private ip of node instances)

Note : 5,6,7,8 has to be done in both master and node

5. Create a user --- name : sree   (adduser sree)

6. Make sree user sudoer

7. Establish ssh connection and restart ssh service

8. password ---> create a trust relationship

Set up is complete

Hands on :

---> Aws --- launch instance --- ubuntu 24.04 --- n/w

setting : http , https --- no of instance : 3 --- launch

rename it as : controller, node 1 ,node 2

---> **Connect to Controller server**

sudo hostname controller

sudo su

---> Connect to node1 and node2

    sudo hostname node-1

    sudo hostname node-2

    sudo su

---> navigate to controller CLI:

    (---> open google browser --- ansible ubuntu install ---
        open ansible documentation)

        sudo apt update

    sudo apt install software-properties-common

    sudo add-apt-repository --yes --update ppa:ansible/ansible

    sudo apt install ansible -y

    ansible --version

---> edit inventory/hosts file :

    sudo nano   /etc/ansible/hosts

        [webserver]

        private-ip-node1

        [dbserver]

        private-ip-node2

---> create user sree and make it sudo user in all instances i.e master and nodes

---> adduser sree

    su - sree

    exit

---> make user sudoers :

    visudo

sree   ALL=(ALL:ALL)   NOPASSWD: ALL

su - sree

[just to check the sudo permission execute the below command]

sudo -i

below given blue lines of command should be executed in both node and controller simultaneously:

got to root   --- sudo -i

vi   /etc/ssh/sshd_config   (uncomment)

PermitRootLogin   yes

PubkeyAuthentication yes

PasswordAuthentication yes

sudo service ssh restart

cd   /etc/ssh

cd   sshd_config.d

ls

copy the name of file present i.e   60-cloudimg-settings.conf

sudo vi   60-cloudimg-settings.conf

PasswordAuthentication   yes

service ssh restart

su - sree

---> navigate to controller cli :

---> ssh private-ip-of-node1

---> type yes

---> enter password --- check the ip u can c node1 connected

---> touch file1

go to node1 instance CLI and go to sree user and ls

---> exit

      from node1 from controller

Create trust relationship with node:

exit from node1 machine connected and go to cli of controller machine

Controller machine cli:

---> ssh-keygen

---> ls -a

---> cd   .ssh

---> ls

---> ssh-copy-id   sree@private-ip-node1

enter password of node1 sree

---> ssh   sree@private-ip-node1

Check wether configuration is all good :

---> su   - sree

---> ansible   all   -a "touch file1"

      here -a stands for argument

Set up is success

----------xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx-------------------------