ANSIBLE

Set up ansible

sudo apt-get install ansible

ansible - -version

cd /etc/ansible/

ls

cat hosts

A screenshot of a computer

Description automatically generated with medium confidence

# Ansible How to Establish ssh connection between server and Node | Devops

Create 3 ec2 linux instances

Keypair

Root code

!#/bin/bash

Sudo su

Yum update -y

Ansible server

Node1

Node2 created

Goto server

Sudo su

wget <https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm>

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yum install git python python-level python-pip openssl ansible -y

Text

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Check ansible install or not

Text

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Vi /etc/ansible/hosts (enter add node1 node 2 private ips in groups)

Text

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vi /etc/ansible/ansible.cfg

uncomment remove # for inventory and sudo\_user

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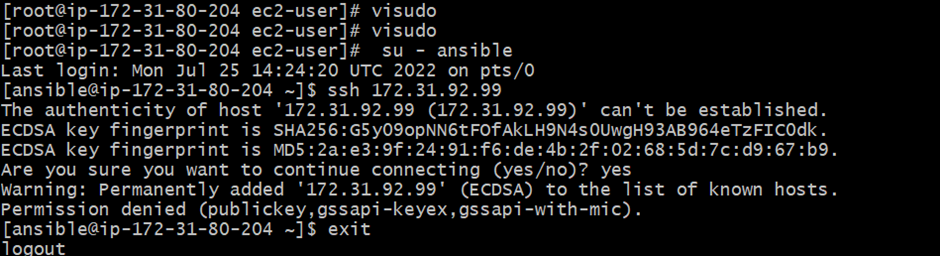
adduser ansible (#ansible user name) do on node 1, and node 2 also

Text

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su – ansible

exit

go to root

Visudo

Add oneline ansible ALL=(ALL) NOPASSWD: ALL (same will be done to node 1 and node 2)

save

Text

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Text

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vi /etc/ssh/sshd\_config (same will be done to node 1 and node 2)

remove #

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Remove # and add #to last

Now ,

service sshd restart

su – ansible

ssh (pivate ip of node 1) repeat for node2 also create file and check

create files1 2 3

logout

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Now without password we need to login so do keygen

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Ls -a

Cd .ssh/

Ls

ssh-copy-id [ansible@172.31.90.42 (private](mailto:ansible@172.31.90.42%20%20(private) ip of any node1 or node2)

Same do for another node also

Hosts patterrns

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**Playbook**

Go to Server

Vi target.yml

Text

Description automatically generated

--- #my first- playbook

- hosts: demo

user: ansible

become: yes

connection: ssh

gather\_facts: yes

~

ansible-playbook target.yml =========run this cmd

Graphical user interface, text

Description automatically generated

**Another playbook to install httpd on two nodes**

Vi task.yml

--- # myplaybook2

- hosts: demo

user: ansible

become: yes

connection: ssh

tasks:

- name: install HTTPD on centos 7

action: yum name=httpd state=installed

~

Text

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Which httpd (check if available remove)

sudo yum remove httpd -y

Graphical user interface, text

Description automatically generated

**Variables in playbook**

Vi variable.yml

Text

Description automatically generated

--- #my variable file

- hosts: demo

user: ansible

become: yes

connection: ssh

vars:

pkgname: httpd

tasks:

- name: install HTTPD server on centos 7

action: yum name='{{pkgname}}' state=installed

Text

Description automatically generated

**HANDLERS**

Ls

Remove httpd

sudo yum remove httpd -y (( on two nodes because I will install again

vi handlers

--- # playbook for handlers

- hosts: demo

user: ansible

become: yes

connection: ssh

tasks:

- name: installed httpd server for centos

action: yum name=httpd state=installed

notify: restart httpd

handlers:

- name: restart httpd

action: service name=httpd state=restarted

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Text

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Dry run



Ansible-playbook handlers.yml --check

Graphical user interface, text

Description automatically generated

**Conditions**

Vi condition.yml

--- #conditional playbook

- hosts: demo

user: ansible

become: yes

connection: ssh

tasks:

- name: install apache server for debian family

command: apt-get -y install apache2

when: ansible\_os\_family == "Debian"

- name: install apache server for redhat family

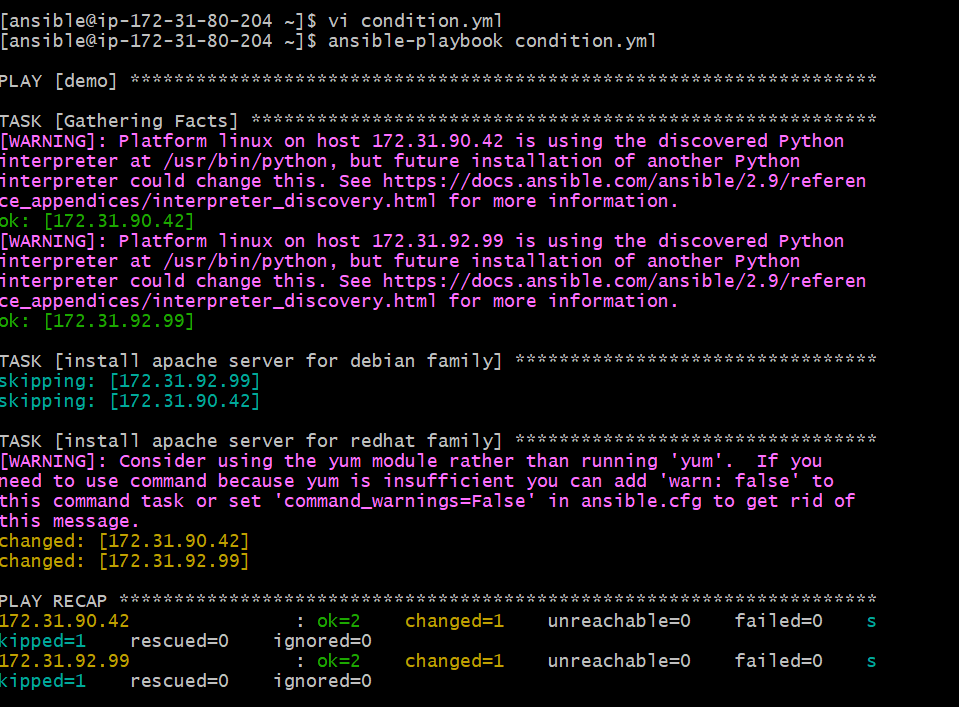
command: yum -y install httpd

when: ansible\_os\_family == "RedHat"

l

Graphical user interface, text

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~Text

Description automatically generated

**ROLES**

STEP1: INSTALL TREE

sudo yum install tree -y

tree

Text

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Step 2: mak a directory

mkdir -p playbook/roles/webserver/tasks

cd playbook/

Text

Description automatically generated

touch roles/webserver/tasks/main.yml

ls

Text

Description automatically generated

Touch master.yml

Tree

vi roles/webserver/tasks/main.yml

- name: install apache on RedHat

yum: pkg=httpd state=latest

Text

Description automatically generated

Vi master.yml

--- # master playbook for webservers

- hosts: demo

user: ansible

become: yes

connection: ssh

roles:

- webserver

Text

Description automatically generated

Graphical user interface, text, application

Description automatically generated