**ANSIBLE NOTEPAD BY GOVERDHAN**

take the 3 instances AMAZON(2 tier)

1. server

2. node 1

3. node 2

sudo -i

sudo yum update

sudo yum-config-manager --enable epel

yum repolist

yum install ansible -y

ansible --version

cd /etc/ansible/

ls -ltr

(roles,hosts,ansible,config will see)

cd roles/

ls -ltr

cd ..

vi hosts

Esc+d+G

[server]

server private ip(172.31.40.23) ansible\_user=ec2-user

example: - below the server

172.31.40.23 ansible\_user=ec2-user

[nodes]

node1 private ip(172.14.40.23) ansible\_user=ec2-user

example: -below the nodes

172.31.40.23 ansible\_user=ec2-user

172.31.45.87 ansible\_user=ec2-user

ansible -m ping all

yes 4 tmies

host key verfication failed..

vi vardhankey.pem

(what we creat an earlier in desktop that one )

go to desktop -->selecte pemkey-->R.T click

edit the notepad -->copy that key-->paste it

then

sudo chmod 600 vardhankey.pem

ansible -m ping -u ec2-user all

ansible -m ping --private-key=vardhankey.pem all

succesfully 3 serever will be connected

ansible -m ping --private-key=vardhankey.pem nodes

ansible -m ping --private-key=vardhankey.pem server

ansible -m ping --private-key=vardhankey.pem 'server:!nodes'

ansible -m ping --private-key=vardhankey.pem '!server:nodes'

ansible -m setup --private-key=vardhankey.pem all

ansible --version

ansible --private-key=vardhankey.pem -m ping all

vi govi.txt

This is vardhan devops engineer

save it

$ In server only

$ ansible nodes --private-key=vardhankey.pem -m copy -a 'src=/etc/ansible/govi.txt dest=/home/ec2-user/govi.txt'

$ go to ---> node 1 and node 2

ls -ltr

govi.txt (we will saw)

cat govi.txt

"This is goverdhan devops engineer" (we will saw)

ls -ltr

we saw the permesions

$ ansible nodes --private-key=vardhankey.pem -m copy -a 'src=/etc/ansible/govi.txt dest=/home/ec2-user/govi.txt mode=666'

ls -ltr

check the permision of the file

\*\*\*\*\*command module\*\*\*\*\*\*\* :-

ansible nodes --private-key=vardhankey.pem -m command -a 'free -h'

ansible nodes --private-key=vardhankey.pem -m command -a 'df -h'

ansible nodes --private-key=vardhankey.pem -m command -a 'free -h && df -h'

\*\*\*command moduel won't excute any special

character's like | ,&& ,$ ,",' like this \*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\***shell moduel** \*\*\*\*\*\*\*\*\*\*\*

**\*shell module excute all special characters\***

ansible nodes --private-key=vardhankey.pem -m shell -a 'df -h && free -h'

ansible nodes --private-key=vardhankey.pem -m shell -a 'cat govi.txt | grep -i "devops"'

ansible nodes --private-key=vardhankey.pem -m shell -a 'df -h && free -h && cat govi.txt | grep -i "devops"'

***\*\* file module \*\****

**\*\*create a directory with using this file module\*\***

ansible nodes --private-key=vardhankey.pem -m file -a 'dest=/home/ec2-user/govi.txt mode=642'

$ now check the permisson of file in nodes 1 & node 2

ansible nodes --private-key=vardhankey.pem -m file -a 'dest=/home/ec2-user/govitech mode=600 state=directory'

\*\*\*\*\*create a file with using of file module\*\*\*\*\*\*

ansible nodes --private-key=vardhankey.pem -m file -a 'dest=/home/ec2-user/sample.sh mode=642 state=touch'

&&&&& check it nodes &&&

ansible nodes --private-key=vardhankey.pem -m file -a 'dest=/home/ec2-user/sample.sh mode=642 state=absent'

\*\*\*\*\*go to node ckeck it out can't see the sample.sh file \*\*\*

\*\*\*\*\*\*\*\*yum module\*\*\*\*\*\*(use to create httpd )

ansible nodes -b --private-key=vardhankey.pem -m yum -a 'name=httpd state=present'

\*\*\*\*\*\* check service in node1&node2\*\*\*

sudo service httpd status

\*\*\*\*service module \*\*\*\*\*(use to start httpd )

ansible nodes -b --private-key=vardhankey.pem -m service -a 'name=httpd state=started'

\*\*\*\*\*\* check service in node1&node2\*\*\*

sudo service httpd status

go to any instaces --->go to launchwizard---->inbound--> HTTP--->80-->anywere.

Apache2 will see

then uninstall the Apache2 in server

yum install is (used to creat & stop the httpd)

ansible nodes -b --private-key=vardhankey.pem -m yum -a 'name=httpd state=absent'

\*\*\*\*Line in file (adding the line in file)\*\*\*\*

ansible nodes -b --private-key=vardhankey.pem -m lineinfile -a 'dest=/home/ec2-user/govi.txt line="echo this notes writen by vardhan"'

\*\*\*\*\*then check in node1 &2 line added or not \*\*\*\*\*

playbooks

vi create\_new\_file.yml

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---

- hosts: nodes

tasks:

- name: Ansible create file if it doesn't exist example

file:

path: "/home/ec2-user/chintu.txt"

state: touch

ansible-playbook create\_new\_file.yml --syntax-check

ansible-playbook create\_new\_file.yml --private-key=vardhankey.pem

\*\*\*\*\*\*\*\*\*then go to nodes check it out chintu file will exist \*\*\*\*\*\*\*\*

Task2 : Create a new File With Content.

vi write\_a\_content\_in\_file.yml

- hosts: nodes

tasks:

- name: Create file with content example

copy:

dest: "/home/ec2-user/chintu.txt"

content: |

vardhan Reddy

Banglore

DevOps Architech

~

~

ansible-playbook write\_a\_content\_in\_file.yml --syntax-check

ansible-playbook write\_a\_content\_in\_file.yml --private-key=vardhankey.pem

\*\*\*\*\*\*create a new file and change the permissioon\*\*\*\*\*\*\*

cp create\_new\_file.yml create\_new\_file1.yml

---

- hosts: nodes

tasks:

- name: Ansible create file if it doesn't exist example

file:

path: "/home/ec2-user/vishnuvardhan.txt"

state: touch

now change the permissions

cp create\_new\_file1.yml create\_new\_file\_permission.yml

---

- hosts: nodes

tasks:

- name: Ansible create file if it doesn't exist example

file:

path: "/home/ec2-user/vishnuvardhan.txt"

state: touch

~

ansible-playbook create\_new\_file\_permission.yml --syntax-check

ansible-playbook create\_new\_file\_permission.yml --private-key=vardhankey.pem

change the permesions

---

- hosts: nodes

tasks:

- name: Ansible create file if it doesn't exist example

file:

path: "/home/ec2-user/vishnuvardhan.txt"

state: touch

mode: 0666

~

go to node and check it

\*\*\*\*\*\*\*\*\*how to create multiple files\*\*\*\*\*\*\*\*\*

vi create\_a\_multiple\_file.yml

---

- hosts: nodes

tasks:

- name: Ansible create file if it doesn't exist example

file:

path: "{{ item }}"

state: touch

mode: 0775

with\_items:

- access.log

- system.log

- properties.txt

- nginx.conf

ansible-playbook create\_a\_multiple\_file.yml --syntax-check

ansible-playbook create\_a\_multiple\_file.yml --private-key=vardhankey.pem

go to nodes and see it 4 files created

\*\*\*with the same permissions\*\*\*

now will do \*\*\*\*\*create multiplefiles with multiple permission\*\*\*\*\*

vi create\_multiple\_files\_multiple\_permissions.yml

---

- hosts:nodes

tasks:

- name: Ansible create file if it doesn't exist example

file:

path: "{{ item.location }}"

state: touch

mode: "{{ item.mode }}"

with\_items:

- { location: 'task5\_file1.txt',mode: '0566'}

- { location: 'task5\_file2.txt',mode: '0766'}

ansible-playbook create\_multiple\_files\_multiple\_permissions.yml --syntax-check

ansible-playbook create\_multiple\_files\_multiple\_permissions.yml --private-key=keypair.pem

go to nodes :- ls -ltr

seee the permissions

ANSIBLE GIT INSTALLATION

vi install\_git.yml

---

- hosts: nodes

become:yes

gather\_facts: False

tasks:

- name: Installing git

yum:

name: git

state: present

ansible-playbook install\_git.yml --syntax-check

ansible-playbook install\_git.yml --private-key=vardhankey.pem

next \*\*\* state :absent

\*\*\*\*TAGS----- CONCEPT\*\*\*\*

vi install\_git.yml

---

- hosts: nodes

become: yes

gather\_facts: False

tasks:

- name: Installing git

yum:

name: git

state: present

tags:installgit

- name: unstalling git

yum:

name: git

state: absent

tags:uninstallgit

ansible-playbook install\_git.yml --syntax-check

ansible-playbook install\_git.yml --private-key=vardhan.pem

go to nodes:-- git --version

ansible-playbook install\_git.yml --private-key=vardhankey.pem --tags "uninstallgit"

ansible-playbook install\_git.yml --private-key=vardhankey.pem --tags "installgit"

\*\*\*\*\*\*\* ANSIBLE\_ROLE\_INSTALL \_APACHE\_TOMCAT\*\*\*\*\*\*\*

vi maven\_install.yml

---

-

become: true

hosts: nodes

tasks:

-

name: "download maven and install"

shell: |

wget http://repos.fedorapeople.org/repos/dchen/apache-maven/epel-apache-maven.repo -O /etc/yum.repos.d/epel-apache-maven.repo

sed -i s/\$releasever/6/g /etc/yum.repos.d/epel-apache-maven.repo

yum install -y apache-maven

ansible-playbook maven\_install.yml --syntax-check

ansible-playbook maven\_install.yml --private-key=vardhankey.pem

ANSIBLE GALAXY

requirements : write a playbook multiple tasks

1. install git

2. install maven

3. install apache tomcat

write a playbook install git and pull the code

---

- hosts: nodes

become: yes

roles:

- installgit

tasks

main.yml

- name : install git

yum:

name: git

state: present

ansible-galaxy tomcat\_govi init

it's a diretry

cd ---->go to this diretry

ls -ltr

yum install tree

tree

cat tasks/main.yml

cd ../ansible

ls -ltr

cd tomcat\_latest

ls -ltr

cd ..

go to github of ybmadhu

clone: the url of tomcat\_latest\_2806

cd tomcat\_latest\_2806/

ls -ltr

cat tomcat\_setup.yml

cd tomcat

tree

cat tasks/main.yml

cd ..

cat tomcat\_setup.yml

cd tomcat

ls -ltr

cd tasks

ls-ltr

cat main.yml

now start the tomcat

nohup/opt/apache-tomcat -8.5.45/bin/startup.sh

\_\_\_\_\_\_\_folder.sh

ansible-playbook tomcat-setup.yml --private-key=vardhan.pem --skip -tags "extract"

go to the security group of nodes 8080 will be allowed

public ip ---> paste in new tab

tomcat username& passwd is in our machine

cd /etc/ansible

ls -ltr

cd tomcat

cd templates/

ls -ltr

cat tomcat-user.xml

\*\*\*username admin

\*\*\*passwd admin