16/9/24

Ansible :-

↳ Yml → yet another markup language.

↳ remote Host → machine which operated by Ansible machine

↳ ~~An~~ controller → machine who has Ansible in it.

↳ ssh must be available in every machine.

ip add
hostname
/etc/host

created Three instance
Manager } m1
mangere } me
Ansible controller } AC

↳ hostname

↳ ip a s

↳ Vim /etc/hosts } ⟵ Save
All three
instance privater
ip with Hostname

In All
3
machine
m1, m2
AC

↳ vim /etc/ssh/sshd_config

(permit root login yes
pass Authentication yy)

↳ systemctl restart sshd

↳ ... ─── enable ...

m1} passwd root
m2} passwd root

___/___/___

AC }
    ssh - keygen
    cd .. ssh   M1 IP
    set ssh - copy - id   root@172.31.88.39

google } install ansible

AC } └ yum install ansible* -y

     └ ansible --version
     └ cd /etc/ansible
     └ ansible --version
     └ vim ansible.cfg   (copy code from sanjay's
     └ ansible --version.   repo
                                 ansible.cfg
                                 from ansible-code

     └ ll
     └ vim hosts } [us-server]
                     (M1-IP)

                   [india-server]
                   (m2-IP)
     └ cd

AWS } sg } Add rule } Icmp-IPv4 → Anywhere

AC } └ ping (172.m1.Ip)
      └ ansible all --list-hosts

AC {
~~cd /etc/ansible/~~
~~vim ansible.cfg~~
~~(hostname inventory file groupname ay tagk)~~

↳ ansible all -m ping
↳ ansible all -m ping -a "data=hello"

---

adhoc → one by one task perform
playbook

ansible-doc -l } list all modules in ansible

AC { ansible all -m File -a 'dest = /tmp/
vivek.txt
state = touch'
= absent
↓
To delete
File

m1 }
m2 } cd /tmp

||

_____/__/___

To create directory   dest

└ ansible all —m file —a ' ~~dest~~ = /tmp/dra
                                              a-
                                              one
                                    State = directory'

To create user

A C { └ ansible all —m user —a 'name = vivek
     uid = 1100   home = /dracula   state = present'
                                    To delete { = absent
                                    user

M1 { cat   /etc/paywd | grep —i vivek
fme { cd   ~~fuome~~ /
        ||

_____

                                              fstab
ansible all —m copy —a 'src = /etc/ ~~paytab~~
              dest = /tmp'

To { ansible all —m yum —a 'name = httpd
install   State = ~~present~~'
httpd   present
in all Dn2

ansible all —m systemd —a 'name = httpd
                                    State = started
                                    enabled = true'

        use group   shopped
        or specific
        ip

How to write playbook :-
    target section
    variable section
    task section

In ~~id/ansible~~ (cd `/etc/ansible`)
    vim my-first-playbook.yml

```
---

  - name : creating some user and group
    hosts : all

    tasks:
            - name : create a group
            group :
                name : devops
                state : present


            - name: create an user thor
            user :

                name : thor
                uid  : 1200
                shell : /bin/bash
                home :  /home/india
                state : present
```

```
-name: install smb pkg
yum:
        name: cifs-utils
        state: present
```

↳ ansible-playbook my-First.playbook.yml   -syntax-check

↳ ansible-playbook   - ..   ——   -c

↳ ansible-playbook   my-First-playbook.yml

configure web-server
using Ansible playbook! -   (cat > index.html)

        ↳ cd /ansible
        ↳ vim configure-web-server.yml

        -name: configure apache server
        hosts: all

        tasks:
                -name: installed httpd pkg
                dnf:
                        name: httpd
                        state: latest
                -name: copy index.html file
```

```yaml
    copy
        src : index.html
        dest : /var/www/html/index.html
  - name : Started apache
    systemd :
        name : httpd
        state : started
        enabled : true
```

___/___/___

Ansible (Handler)

ansible   vim   configure-apache.yml

```
---
-name : configure apache With Handler
hosts: all
tasks :

        -name: installed httpd
         dnf:
                name : httpd
                state: latest
```

```
yum install httpd  -y
vim    /etc/httpd /conf/ httpd.config
```

```
vim   configure-apah.yml
-name: copied httpd.conf File on target
                machine
copy:
        src: httpd.conf
        dest: /etc/httpd/conf/httpd.conf
```

    ↳   cat   >   index.html
         Hello   greeting   from   Vivek

```
vim    configure-ache.yml
-name : copeid index.html
copy :
        src : index.html
        dest .   /var/www/ html/index.html
```

```yaml
- name : restart the httpd service
  systemd :
      name: httpd
      state : restarted
      enabled : true
  notify : restart_httpd

- name : configure firewalld
  firewalld :
      service : httpd
      permanent: yy
      state : enabled
      immediate : true

- name : installed firewalld
  dnf :
      name : firewalled
      state : present

- name : allow port in firewall
  firewalld :
      port : 81/tcp
      permanent : yy
      state : enabled
      immediate : true
```

Re notify &
Handler
parameter
should be same

handlers
    name: restarb-httpd
    state: restorted
    enabled: yy