1:

workstation:

hostnamectl set-hostname workstation

bash

ip a

nmcli con mod ens160 ipv4.addresses 192.1.48.100/24 ipv4.gateway 192.1.48.2 ipv4.dns 192.1.48.2 ipv4.method manual autoconnect yes

nmcli con up ens160

ip a

agent1:

hostnamectl set-hostname agent1

bash

ip a

nmcli con mod ens160 ipv4.addresses 192.1.48.101/24 ipv4.gateway 192.1.48.2 ipv4.dns 192.1.48.2 ipv4.method manual autoconnect yes

nmcli con up ens160

ip a

agent2:

hostnamectl set-hostname agent2

bash

ip a

nmcli con mod ens160 ipv4.addresses 192.1.48.102/24 ipv4.gateway 192.1.48.2 ipv4.dns 192.1.48.2 ipv4.method manual autoconnect yes

nmcli con up ens160

ip a

2:

workstation:

mkdir /ansible

cd /ansible

vim hosts

[dbservers]

agen1

[webservers]

agent1

agent2

vim ansible.cfg

[defaults]

inventory = /ansible/hosts

roles\_path = /home/greg/ansible/roles

vim /etc/hosts

192.1.48.100 workstation

192.1.48.101 agent1

192.1.48.102 agent2

ansible -m ping all

ssh -keygen

ssh-copy-id root@agent1

ssh-copy-id root@agent2

ssh root@agent1

exit

ssh root@agent2

exit

3:

ansible}# mkdir playbooks

vim playbooks/users.yml

- hosts: agent1

tasks:

- group:

name: manager

state: present

- user:

name: ma{{item}}

home: /home/ma{{item}}

password: 123456

loop: "{{ range(1,16) | list}}"

- hosts: agent2

tasks:

- group:

name: consumer

state: present

- user:

name: con{{item}}

home: /home/con{{item}}

password: 123456

loop: "{{ range(1,13,2) | list}}"

- hosts: agent1

tasks:

- user:

name: dbtest

state: absent

remove: yes

ansible-playbook playbooks/users.yml

ansible all -a 'tail -17 /etc/passwd' 检查

4:

vim /root/hwreport.txt

HardWare details:

Memory: xxMB以 MB 表示的总内存大小

BIOS: xx 版本

Disk: sda1 xxMB, sda2 xxMB.

vim /ansible/playbooks/hwreport.yml

- hosts: all

vars:

- 1:

- 3: Memory

4: "{{ansible\_memtotal\_mb}}MB"

- 3: BIOS

4: "{{ansible\_bios\_version}}"

- 2:

- 3: sda1

4: "{{ansible\_devices.sda.partitions.sda1.size}}"

- 3: sda2

4: "{{ansible\_devices.sda.partitons.sda2.size}}"

tasks:

- copy:

src: /root/hwreport.txt

dest: /root/hwreport.txt

- replace:

path: /root/hwreport.txt

regexp: "{{item.3}}:.\*"

replace: "{{item.3}}: {{item.4}}"

loop: "{{1}}"

- replace:

path: /root/hwreport.txt

regexp: "{{item.3}} xxMB"

replace: "{{item.3}} {{item.4}}"

loop: "{{2}}"

ansible-playbook playbooks/hwreport.yml

ansible all -a 'cat /root/hwreport.txt'

5:

vim playbooks/cron.yml

- hosts: dbservers

tasks:

- cron:

name: "shell crond"

minute: "\*/2"

job: date +'%Y-%m-%d %H:%M' "ansible in progress"

- service:

name: crond

state: restarted

ansible-playbook playbook/cron.yml

6:

- hosts: webservers

tasks:

- service:

name: firewalld

state: stopped

enabled: no

- shell: 'setenforce 0'

- replace:

path: /etc/selinux/config

regexp: 'SELINUX=enforcing'

replace: 'SELINUX=disabled'

ansible-playbook playbooks/safty.yml

7:

echo 'test 7' > /opt/file.txt

vim playbooks/copyfile.yml

- hosts: webservers

gather\_facts: no

tasks:

- copy:

src: /opt/file.txt

dest: /var/file.txt

force: no

ansible-playbook playbooks/copyfile.yml

ansible all -a 'cat /var/file.txt'

8:

vim playbooks/install.yml

- hosts: webservers

gather\_facts: no

tasks:

- shell: 'cat /data/db.info'

ignore\_errors: yes

register: result

- yum:

name: mariadb

state: present

when: "'mariadb' in result.stdout"

ansible-playbook playbook/install.yml

9:

vim httpd.j2

Welcome,This is wxt's homepage!,The host is {{ansible\_hostname}}

vim playbooks/httpd.yml

- hosts: webservers

tasks:

- yum:

name: httpd

state: present

- service:

name: httpd

state: started

enabled: yes

- template:

src: /ansible/httpd.j2

dest: /var/www/html/index.html

- replace:

path: /etc/httpd/conf/httpd.conf

regexp: 'AllowOverride None'

replace: 'AllowOverride AuthConfig'

ansible-playbook playbooks/httpd.yml

curl 192.1.48.101

curl 192.1.48.102

10: 与6一样

11:

vim hosts.j2

{{ansible\_hostname}} {{ansible\_processor\_vcpus}} {{ansible\_facts.default\_ipv4.address}} {{ansible\_default\_ipv4.macaddress}}

mkdir data

vim playbooks/hosts.yml

- hosts: all

tasks:

- template:

src: /ansible/hosts.j2

dest: /var/www/html/ansible\_details.html

- fetch:

src: /var/www/html/ansible\_details.html

dest: /ansible/data/{{ansible\_hostname}}

flat: yes

ansible-playbook playbooks/hosts.yml

cat data/agent1

cat data/agent2

12:

echo 'this is my test' > /var/tmp/ans.txt

vim playbooks/ping.yml

- hosts: agent1

tasks:

- copy:

src: /var/tmp/ans.txt

dest: /var/www/html/tag1/html

- hosts:

tasks:

- copy:

src: /var/tmp/ans.txt

dest: /var/www/html/tag2.html

tags: backup

ansible-playbook playbooks/ping.yml --tags "production"

ansible-playbook playbooks/ping.yml --tags "backup"

ansible agent2 -a 'cat /var/www/html/tag2.html'

13:

vim 13node.j2

my node is also {{ansible\_hostname}}

vim playbooks/saveabort.yml

- hosts: all

tasks:

- stat:

path: /data/ansible\_abort.txt

register: result

- template:

src: /ansible/13node.j2

dest: /data/ansible\_abort.txt

when: result.stat.exists == false

ansible-playbook playbooks/saveabort.yml

ansible all -a 'cat /data/ansible\_abort.txt'

ansible-playbook playbooks/saveabort.yml

14:

vim playbooks/mariadb.yml

- hosts: agent1

tasks:

- block:

- yum:

name: mariadb,mariadb-server

state: present

register: result1

rescue:

- debug:

msg: "{{result1}}"

- debug:

msg: "Installation failed"

- block:

- service:

name: mariadb

state: started

enabled: yes

register: result2

rescue:

- debug:

msg: "{{result2}}"

- debug:

msg: "Starting failed"

ansible all -a 'mount /dev/cdrom /mnt'

ansible-playbook playbooks/mariadb.yml

ansible agent1 -a 'systemctl status mariadb'

15:

ansible-galaxy init /home/greg/ansible/roles/apache

ls /home/greg/ansible/roles/apache

cd /home/greg/ansible/roles

vim apache/templates/index.html.j2

Welcome to {{ansible\_facts.fqdn}} on {{ansible\_facts.default\_ipv4.address}}

vim apache/tasks/main.yml

- yum:

name: httpd

state: present

- service:

name: httpd

state: started

enabled: yes

- template:

src: index.html.j2

dest: /var/www/html/index.html

vim /home/greg/ansible/apache.yml

- hosts: all

roles:

- apache

cd /ansible

ansible-playbook /home/greg/ansible/apache.yml

curl agent1

curl agent2