Ansible Task-3

2.Create a playbook named playbook.yml. Create a play named "Deploy and start Apache HTTPD service", target the host group webserver as the managed hosts, and define the following variables in its vars_files section: web_pkg: httpd , frwl_pkg: firewalld, web_svc: httpd, frwl_svc: firewalld, rule: http

cd /home/sandy/ansible
mkdir vars
vim vars/variable.txt

```
web_pkg: httpd
frwl_pkg: firewalld
web_svc: http
frwl_svc: firewalld
rule: http
```

cd /home/sandy/ansible
vim playbook.yml

```
---
- name: Deploy and start Apache HTTPD service
  hosts: webserver

  vars_files:
    - vars/variable.txt
```

3. Install apache , ensure firewalld and apche service is started and enabled , and add apache service to firewall

```
---
- name: Deploy and start Apache HTTPD service
  hosts: webserver

  vars_files:
    - vars/variable.txt

  tasks:

    - name: install apache
      yum:
        name:
          - "{{web_pkg}}"
          - "{{frwl_pkg}}"
        state: latest

    - name: ensure apache service is started and enabled
      service:
        name: "{{web_pkg}}"
        enabled: yes
        state: started

    - name: ensure firewalld service is started and enabled
      service:
        name: "{{frwl_pkg}}"
        enabled: yes
        state: started

    - name: add apache service to firewall
      ansible.posix.firewalld:
        service: "{{rule}}"
        permanent: true
        state: enabled
        immediate: true
```

```
[root@localhost ansible]# ansible-playbook playbook.yml

PLAY [Deploy and start Apache HTTPD service] ************************************

TASK [Gathering Facts] *********************************************************
ok: [192.168.1.114]

TASK [install apache] **********************************************************
ok: [192.168.1.114]

TASK [ensure apache service is started and enabled] ****************************
changed: [192.168.1.114]

TASK [ensure firewalld service is started and enabled] *************************
ok: [192.168.1.114]

TASK [add apache service to firewall] ******************************************
changed: [192.168.1.114]

PLAY RECAP *********************************************************************
192.168.1.114              : ok=5    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

1. Create vars directory in your project folder , use group_vars and host_vars example playbook

mkdir /home/sandy/ansible/vars

cd /home/sandy/ansible/vars
mkdir group_vars
vim group_vars/webserver

```
web_pkg: httpd
frwl_pkg: firewalld
rule: http
```

cd /home/sandy/ansible/vars
mkdir host_vars
vim host_vars/192.168.1.114

```
web_pkg: httpd
frwl_pkg: firewalld
rule: http
```

In playbook just type: var_files: vars/group_vars/webserver
                                    vars/host_vars/192.168.1.114

4. Use extra variables in command line

vim /home/sandy/ansible/packages.yml

```
---
- name: packages
  hosts: all
  tasks:
    - name: packages
      yum:
        name:
          - "{{packages1}}"
          - "{{packages2}}"
          - "{{packages3}}"
```

```
[root@localhost ansible]# ansible-playbook packages.yml -e "packages1=httpd packages2=mod_ssl packages3=mariadb"

PLAY [packages] ******************************************************************

TASK [Gathering Facts] **********************************************************
ok: [192.168.1.114]
ok: [192.168.1.115]
ok: [192.168.1.112]

TASK [packages] *****************************************************************
ok: [192.168.1.114]
ok: [192.168.1.115]
ok: [192.168.1.112]

PLAY RECAP **********************************************************************
192.168.1.112              : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
192.168.1.114              : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
192.168.1.115              : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```