

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: httpd
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 apache 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: firewallld
rule: http
```

```
cd /home/sandy/ansible/vars
```

```
mkdir host_vars
```

```
vim host_vars/192.168.1.114
```

```
web_pkg: httpd
frwl_pkg: firewallld
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-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
```