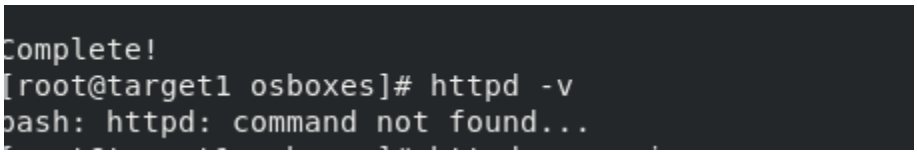
Ansible Assignment 1

1. Write ansible playbook for

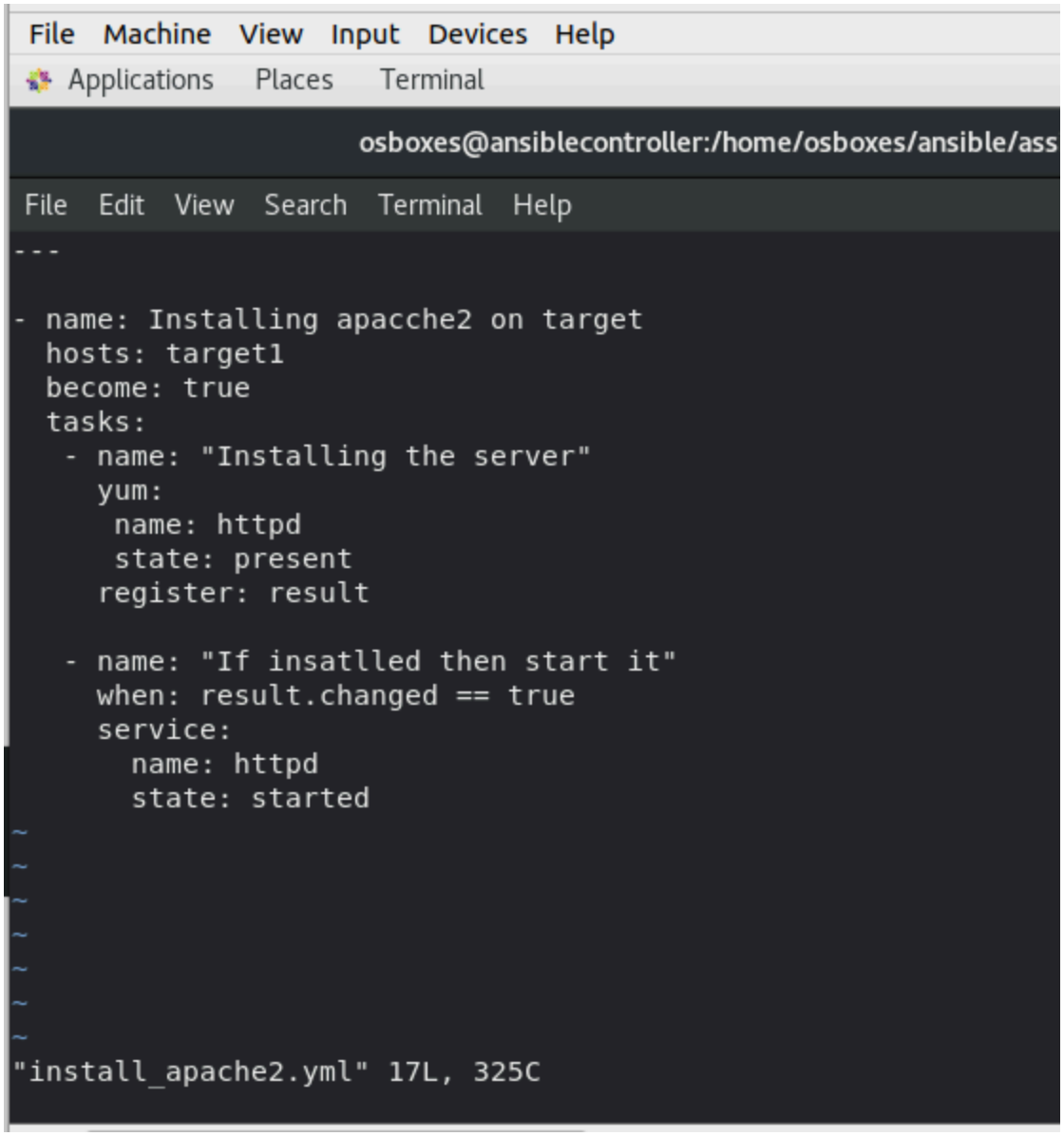
   - installing and configuring apache

Soln:

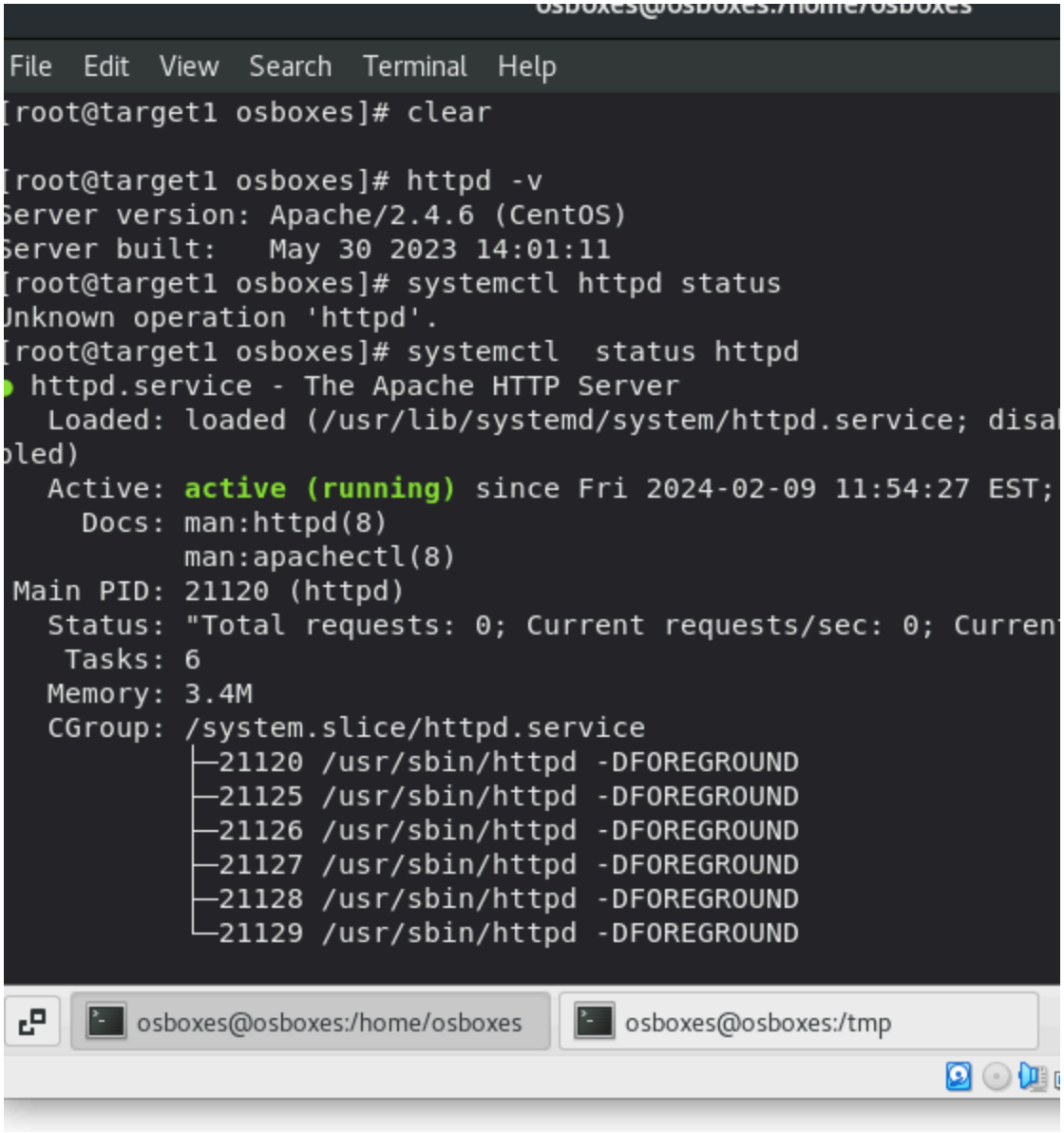
A. Check for apache2 in target



B. Install apache 2 on target



C. Check httpd version on target

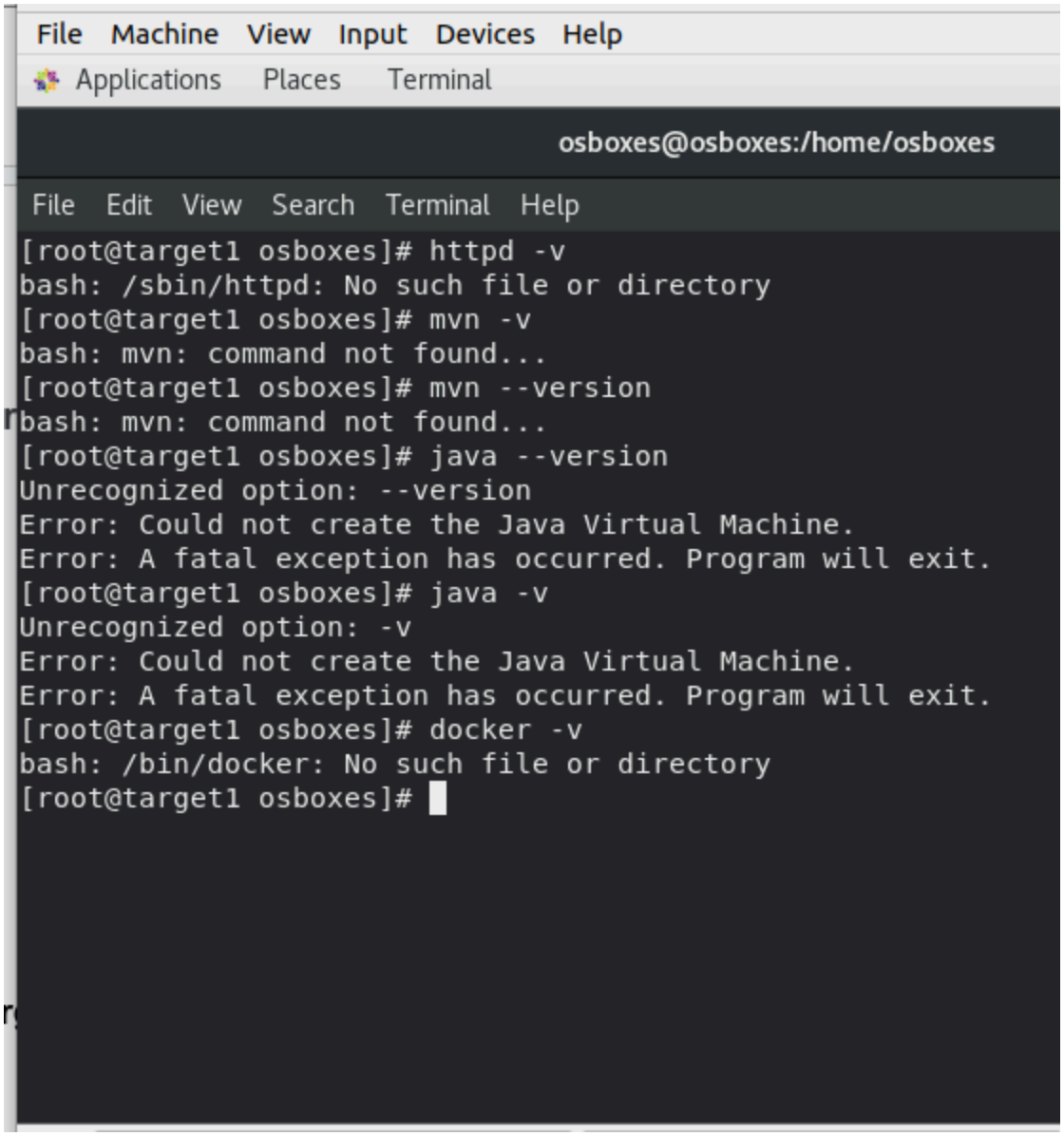

File Edit View Search Terminal Help
[root@target1 osboxes]# clear
[root@target1 osboxes]# httpd -v
Server version: Apache/2.4.6 (CentOS)
Server built: May 30 2023 14:01:11
[root@target1 osboxes]# systemctl httpd status
Unknown operation 'httpd'.
[root@target1 osboxes]# systemctl status httpd
httpd.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disa
bled)
Active: active (running) since Fri 2024-02-09 11:54:27 EST;
Docs: man:httpd(8)
man:apachectl(8)
Main PID: 21120 (httpd)
Status: "Total requests: 0; Current requests/sec: 0; Curren
Tasks: 6
Memory: 3.4M
CGroup: /system.slice/httpd.service
├─21120 /usr/sbin/httpd -DFOREGROUND
├─21125 /usr/sbin/httpd -DFOREGROUND
├─21126 /usr/sbin/httpd -DFOREGROUND
├─21127 /usr/sbin/httpd -DFOREGROUND
├─21128 /usr/sbin/httpd -DFOREGROUND
└─21129 /usr/sbin/httpd -DFOREGROUND
osboxes@osboxes:/home/osboxes
osboxes@osboxes:/tmp

2. **Write ansible playbook for installing the following services using loops in ansible**

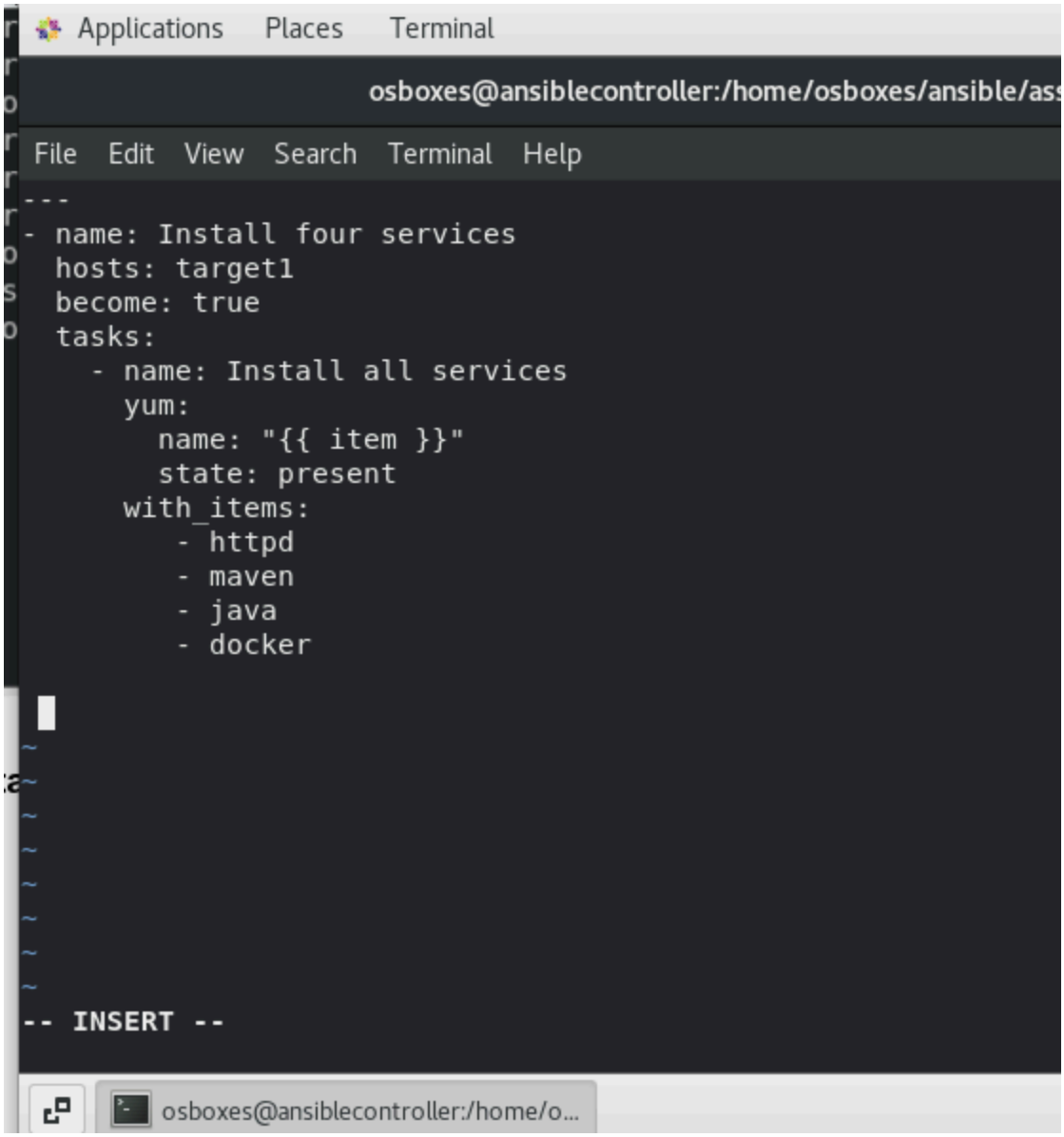
- httpd
- maven
- java
- docker

Soln:

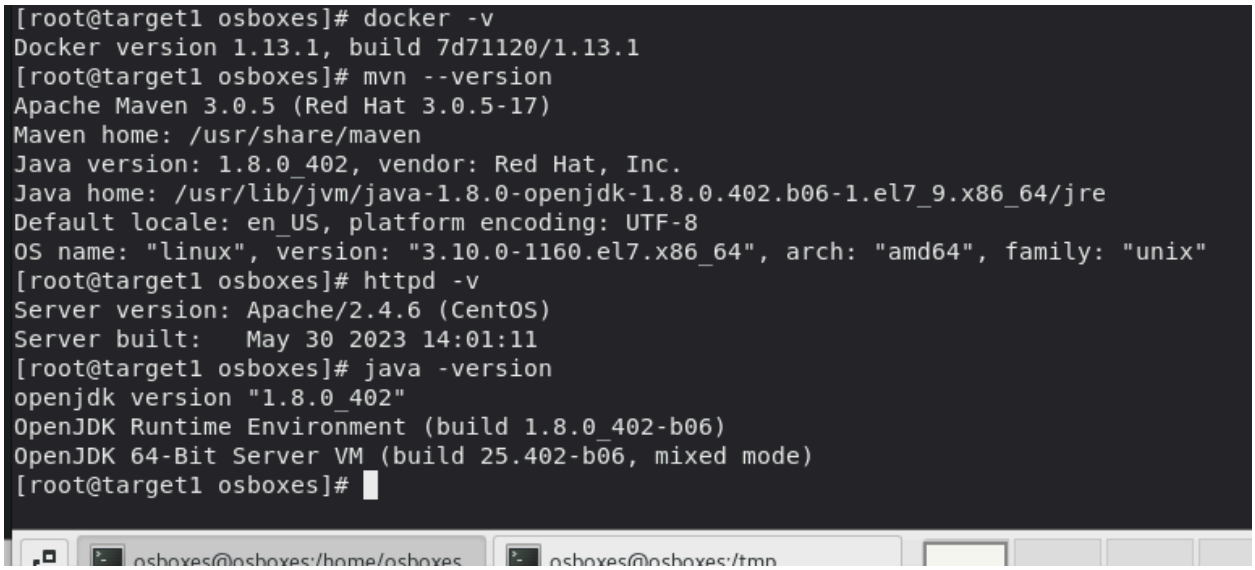
A. **Checking whether thy are installed previously on target or not**



B. Installing all service in loop



C. Verifying in target machine



Ansible Assignment 2

1. Understand how ansible roles work.

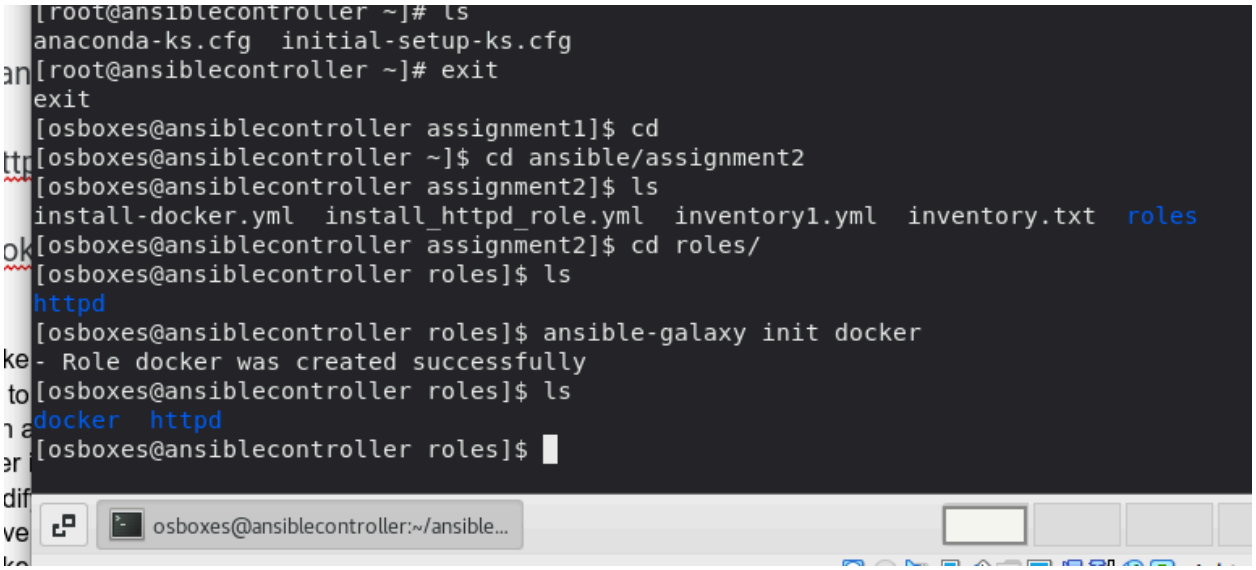
2. Write ansible roles for installing

    - httpd

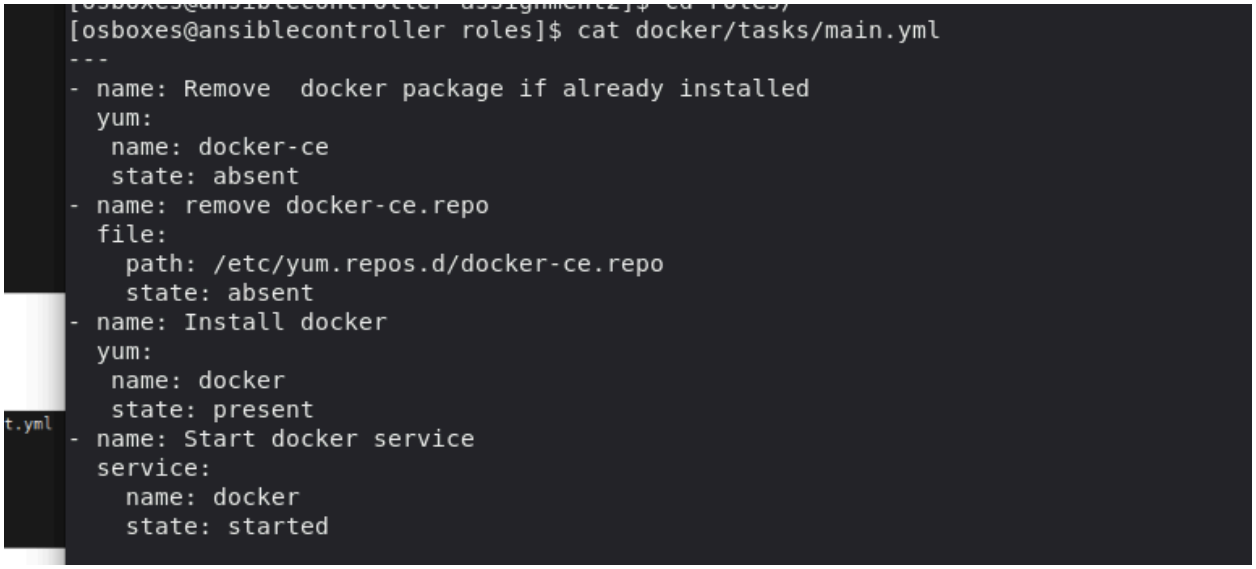
    - dokcer

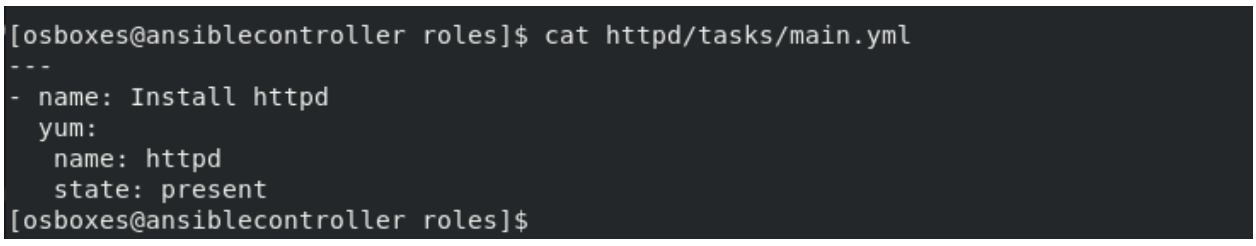
Soln:

A. Make one roles folder
B. Go to that folder
C. Run ansible-galaxy init httpd/docker
D. After installing the package go to tasks folder of the package
E. Modify the tasks folder as per need
F. Move out from roles folder
G. Make one playbook and use roles: to give the name of the role to download it to a target



Modifying the tasks for each service





Playbook to run both at a time

```
---
- name: Play to install docker and httpd through roles
  hosts: target1
  become: true
  roles:
    - docker
    - httpd
~
~
~
```

Logs on Controller machine

```
BECOME password:

PLAY [Play to install docker and httpd through roles] ********************************

TASK [Gathering Facts] ***************************************************************
ok: [target1]

TASK [Remove  docker package if already installed] ***********************************
ok: [target1]

TASK [remove docker-ce.repo] *********************************************************
changed: [target1]

TASK [Install docker] ****************************************************************
ok: [target1]

TASK [Start docker service] **********************************************************
ok: [target1]

TASK [Install httpd] *****************************************************************
changed: [target1]

PLAY RECAP ***************************************************************************
target1                    : ok=6    changed=2    unreachable=0    failed=0    skipped=
0    rescued=0    ignored=0
```

osboxes@ansiblecontroller:~/ansible...

Verification on target machine

```
  httpd.x86_64 0:2.4.6-99.el7.centos.1

Complete!
[root@target1 osboxes]# httpd -v
Server version: Apache/2.4.6 (CentOS)
Server built:   May 30 2023 14:01:11
[root@target1 osboxes]# docker -v
Docker version 1.13.1, build 7d71120/1.13.1
[root@target1 osboxes]#
```