



Software Provisioning and Configuration Management

NAME: Palak Gupta

SAP ID: 500109569

Roll no: R2142221387

BATCH: 1 Devops

Traget1.yml

```
---
- hosts: gfg
  user: gfg
  become: yes
  connection: ssh
  gather_facts: yes
```

```
---
- hosts: spcm
  user: devops
  become: yes
  connection: ssh
  gather_facts: yes
```

```
[root@ip-172-31-84-250 devops]# ansible-playbook target1.yml

PLAY [spcm] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 172.31.94.216 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.94.216]
[WARNING]: Platform linux on host 172.31.81.156 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.81.156]
[WARNING]: Platform linux on host 172.31.84.250 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.84.250]

PLAY RECAP *****
172.31.81.156      : ok=1    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.84.250     : ok=1    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.94.216     : ok=1    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Target 2.yml

```
---
- hosts: gfg
  user: gfg
  become: yes
  connection: ssh
  tasks:
    - name: Install HTTPD
      action: yum name=httpd state=present
    - name: Install NGINX
      action: yum name=nginx state=present
```

```

---
- hosts: spcm
  user: devops
  become: yes
  connection: ssh
  tasks:
    - name: Install HTTPD
      action: yum name=httpd state=present
    - name: Install NGINX
      action: yum name=nginx state=present

```

```

[root@ip-172-31-84-250 devops]# ansible-playbook target2.yml
PLAY [spcm] *****
TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 172.31.81.156 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.81.156]
[WARNING]: Platform linux on host 172.31.94.216 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.94.216]
[WARNING]: Platform linux on host 172.31.84.250 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.84.250]
TASK [Install HTTPD (already working)] *****
ok: [172.31.94.216]
ok: [172.31.81.156]
ok: [172.31.84.250]

```

Target3.yml

```

---
- hosts: gfg
  user: gfg
  become: yes
  connection: ssh
  vars:
    pkgname: httpd
    currstatus: absent
  tasks:
    - name: Un-Install HTTPD
      action: yum name='{{pkgname}}' state='{{currstatus}}'

```

```

---
- hosts: spcm
  user: devops
  become: yes
  connection: ssh
  vars:
    pkgname: httpd
    currstatus: absent
  tasks:
    - name: Un-Install HTTPD
      action: yum name='{{pkgname}}' state='{{currstatus}}'

```

```
[root@ip-172-31-84-250 devops]# vi target3.yml
[root@ip-172-31-84-250 devops]# ansible-playbook target3.yml

PLAY [spcm] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 172.31.94.216 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.94.216]
[WARNING]: Platform linux on host 172.31.81.156 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.81.156]
[WARNING]: Platform linux on host 172.31.84.250 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.84.250]

TASK [Un-Install HTTPD] *****
changed: [172.31.94.216]
changed: [172.31.81.156]
changed: [172.31.84.250]

PLAY RECAP *****
172.31.81.156      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.84.250      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.94.216      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[root@ip-172-31-84-250 devops]#
```

Traget4.yml

```
---
- hosts: gfg
  user: gfg
  become: yes
  connection: ssh
  tasks:
    - name: Debian Family
      command: apt-get install apache2 -y
      when: ansible_os_family == "Debian"
    - name: RedHat Family
      command: yum install httpd -y
      when: ansible_os_family == "RedHat"
```

```
---
- hosts: spcm
  user: devops
  become: yes
  connection: ssh
  tasks:
    - name: Debian Family
      command: apt-get install apache2 -y
      when: ansible_os_family == "Debian"
    - name: RedHat Family
      command: yum install httpd -y
      when: ansible_os_family == "RedHat"
```

```
[root@ip-172-31-84-250 devops]# vi target4.yml
[root@ip-172-31-84-250 devops]# ansible-playbook target4.yml

PLAY [spcm] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 172.31.81.156 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.81.156]
[WARNING]: Platform linux on host 172.31.94.216 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.94.216]
[WARNING]: Platform linux on host 172.31.84.250 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.84.250]

TASK [Debian Family] *****
skipping: [172.31.84.250]
skipping: [172.31.81.156]
skipping: [172.31.94.216]

TASK [RedHat Family] *****
[WARNING]: Consider using the yum module rather than running 'yum'. If you need to use command because yum is insufficient you can add 'warn: false' to this command task or set 'command_warnings=False' in ansible.cfg to get rid of this message.
changed: [172.31.94.216]
changed: [172.31.81.156]
changed: [172.31.84.250]

PLAY RECAP *****
172.31.81.156      : ok=2    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0
172.31.84.250     : ok=2    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0
172.31.94.216     : ok=2    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0

[root@ip-172-31-84-250 devops]#
```

Traget5.yml

```
---
- hosts: spcm
  user: devops
  become: yes
  connection: ssh
  vars:
    currstate: present
  tasks:

    - name: Installation HTTPD
      action: yum name=httpd state='{{currstate}}'

    - name: Install Git
      action: yum name=git state='{{currstate}}'
```

```
---
- hosts: spcm
  user: devops
  become: yes
  connection: ssh
  vars:
    currstate: present
  tasks:

    - name: Installation HTTPD
      action: yum name=httpd state='{{currstate}}'
    - name: Install Git
      action: yum name=git state='{{currstate}}'
```

```
[root@ip-172-31-84-250 devops]# su - devops
Last login: Fri Apr 25 09:30:22 UTC 2025 on pts/0
[devops@ip-172-31-84-250 ~]$ vi target.yaml
[devops@ip-172-31-84-250 ~]$ ansible-playbook target.yaml

PLAY [spcm] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 172.31.94.216 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.94.216]
[WARNING]: Platform linux on host 172.31.81.156 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.81.156]

TASK [Installation HTTPD] *****
changed: [172.31.81.156]
changed: [172.31.94.216]

TASK [Install Git] *****
changed: [172.31.81.156]
changed: [172.31.94.216]

PLAY RECAP *****
172.31.81.156      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.94.216      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[devops@ip-172-31-84-250 ~]$ exit
logout
[root@ip-172-31-84-250 devops]# sudo du
16      ./ssh
0       ./ansible/tmp
0       ./ansible/cp
0       ./ansible
40      .
```

i-01e812507304a4d2f (Ansible)

PublicIPs: 54.205.32.40 PrivateIPs: 172.31.84.250