# SCHOOL OF COMPUTER SCIENCE

# SPCM LAB FILE

# ANSIBLE LAB

# Submitted by

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|------|---------|
| Branch | BTech CSE(DevOps)B-1(NH) |
| Semester | 6 |
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Target1.yml

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

```
[ec2-user@ip-172-31-3-184 ~]$ ansible-playbook target1.yaml

PLAY [spcm] **********************************************************************************************************************

TASK [Gathering Facts] **********************************************************************************************************
[WARNING]: Platform linux on host localhost 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: [localhost]
[WARNING]: Platform linux on host 172.31.2.18 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: [172.31.2.18]

PLAY RECAP **********************************************************************************************************************
172.31.2.18                : ok=1    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
localhost                  : ok=1    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[ec2-user@ip-172-31-3-184 ~]$
```

Target 2.yml

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

```
[ec2-user@ip-172-31-3-184 ~]$ ansible-playbook target2.yaml

PLAY [spcm] **********************************************************************************************************************

TASK [Gathering Facts] **********************************************************************************************************
[WARNING]: Platform linux on host localhost 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: [localhost]
[WARNING]: Platform linux on host 172.31.2.18 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: [172.31.2.18]

TASK [Install HTTPD] ************************************************************************************************************
ok: [172.31.2.18]
ok: [localhost]
```

Target3.yml

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

```
[ec2-user@ip-172-31-3-184 ~]$ vi target3.yaml
[ec2-user@ip-172-31-3-184 ~]$ ansible-playbook target3.yaml

PLAY [spcm] **********************************************************************************************************************

TASK [Gathering Facts] **********************************************************************************************************
[WARNING]: Platform linux on host localhost 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: [localhost]
[WARNING]: Platform linux on host 172.31.2.18 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: [172.31.2.18]

TASK [Un-Install HTTPD] *********************************************************************************************************
changed: [172.31.2.18]
changed: [localhost]

PLAY RECAP **********************************************************************************************************************
172.31.2.18                : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
localhost                  : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[ec2-user@ip-172-31-3-184 ~]$
```

Target4.yml

```
---
- 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"
```

```
[ec2-user@ip-172-31-3-184 ~]$ ansible-playbook target4.yaml

PLAY [spcm] **********************************************************************************************************************

TASK [Gathering Facts] **********************************************************************************************************
[WARNING]: Platform linux on host localhost 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: [localhost]
[WARNING]: Platform linux on host 172.31.2.18 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: [172.31.2.18]

TASK [Debian Family] ************************************************************************************************************
skipping: [172.31.2.18]
skipping: [localhost]

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: [172.31.2.18]
changed: [localhost]

PLAY RECAP **********************************************************************************************************************
172.31.2.18                : ok=2    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0
localhost                  : ok=2    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0

[ec2-user@ip-172-31-3-184 ~]$
```

Target:5

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

  tasks:
    - name: Install httpd
      yum:
        name: httpd
        state: present
    - name: start apache
      service:
        name: httpd
        state: started
~
~
~
```

```
[ec2-user@ip-172-31-3-184 ~]$ ansible-playbook target5.yaml

PLAY [spcm] ***********************************************************************************************************************

TASK [Gathering Facts] ***********************************************************************************************************
[WARNING]: Platform linux on host localhost 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: [localhost]
[WARNING]: Platform linux on host 172.31.2.18 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: [172.31.2.18]

TASK [Install httpd] *************************************************************************************************************
ok: [172.31.2.18]
ok: [localhost]

TASK [start apache] *************************************************************************************************************
changed: [localhost]
changed: [172.31.2.18]

PLAY RECAP **********************************************************************************************************************
172.31.2.18                : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
localhost                  : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[ec2-user@ip-172-31-3-184 ~]$
```

i-01aece664b34b6423 (ANSIBLE-SERVER)

PublicIPs: 13.203.77.173   PrivateIPs: 172.31.3.184