



Experiment No. 1.4

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Branch: MCA - CCD Section/Group: MCD-1/ Grp A

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Subject Name: CI/CD Pipelines Subject Code: 22CAP-781

1. Aim/Overview of the practical:

A. Create a Playbook for installing NGINX server on YOUR UID_1 node.

B. Create a Playbook for installing HTTP server on YOUR UID_2 node.

C. Check whether both are installed on the nodes or not by checking their versions..

2. Code for practical:

A)

- Open AWS account and connect to ansible_master instance.
- Create a YAML file for playbook to install NGINX on 22MCC20039_1 server.

```
- name: Install Nginx
hosts: 22MCC20039_1
become: yes
tasks:
    - name: Remove Nginx if installed
    package:
        name: nginx
        state: absent

- name: Install Nginx
    package:
        name: nginx
    state: present
```

• Run command file to install nginx.

ansible-playbook -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key filePlaybook.yml





B)

• Create a YAML file for playbook to install NGINX on 22MCC20039_2 server.

```
---
- name: Install HTTPD (Apache)
hosts: 22MCC20039_2
become: yes
tasks:
- name: Remove HTTPD if installed
package:
    name: apache2
    state: absent

- name: Install HTTPD (Apache)
package:
    name: apache2
state: present
```

• Run command file to install nginx.

ansible-playbook -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key filePlaybook.yml

C)

• Switch to server1 using command and check version

sudo ssh -I ~/.ssh.ansible_key ubuntu@<IPAddress>





ubuntu@ip-172-31-18-171:~\$ sudo ssh -i ~/.ssh/ansible_key ubuntu@51.21.150.208 The authenticity of host '51.21.150.208 (51.21.150.208)' can't be established. ED25519 key fingerprint is SHA256:UEIqlPwdqtsdErOT/pOINAchqars8WgCaQFj3su18Pk. This host key is known by the following other names/addresses: ~/.ssh/known hosts:4: [hashed name] Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '51.21.150.208' (ED25519) to the list of known hosts. Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1017-aws x86_64) * Documentation: https://help.ubuntu.com * Management: https://landscape.canonical.com * Support: https://ubuntu.com/advantage System information as of Sun Feb 4 20:22:01 UTC 2024 System load: 0.16015625 Processes: 104 Usage of /: 24.1% of 7.57GB Users logged in: 0 Memory usage: 25% IPv4 address for ens5: 172.31.21.76 Swap usage: Expanded Security Maintenance for Applications is not enabled. 0 updates can be applied immediately. Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status Last login: Sun Feb 4 19:57:24 2024 from 13.48.67.67

- Run command nginx -v
- On second server run command apache2 -v

ubuntu@ip-172-31-21-76:~\$ nginx -v nginx version: nginx/1.18.0 (Ubuntu)

ubuntu@ip-172-31-29-136:~\$ apache2 -v Server version: Apache/2.4.52 (Ubuntu) Server built: 2023-10-26T13:44:44 ubuntu@ip-172-31-29-136:~\$