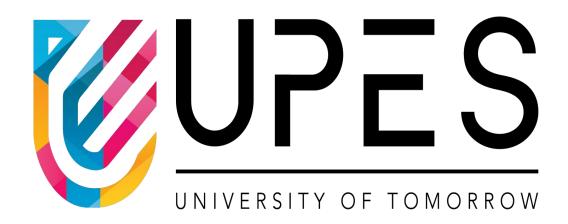
School of Computer Science University of Petroleum and Energy Studies



System Provisioning & Configuration Management

Lab File (6th Sem)

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EXPERIMENT 2

Lab Exercise: Working With Hosts and Groups

Objective: To work with hosts both individually and in groups for streamlined management and deployment across your network infrastructure

Tools required: Ubuntu OS

Prerequisites: You need to have Ansible, and the nodes connected with it installed to proceed with this demo. Refer Demo 1 of Lesson 3.

Steps to be followed:

- 1. List the hosts present in your host file
- 2. Create a file on the host
- 3. Remove the file from the host
- 4. Create and remove the file on the hosts using the group
- 5. Update the hosts using the group

Step 1: List the hosts present in your host file

1.1 Use the following command to list the hosts in your inventory file: ansible all --list-hosts

Note: The host list might change as per your system.

```
ubuntu@ip-172-31-15-101:~$ ansible all --list-hosts
hosts (3):
    13.126.129.191
    3.110.151.86
    localhost
ubuntu@ip-172-31-15-101:~$ ■
```

Step 2: Create a file on the host

2.1 Use the following command to list the contents of the current working directory: ansible 172.31.44.85 -a "ls"

```
ubuntu@ip-172-31-15-101:~$ ansible 13.126.129.191 -a "ls"
13.126.129.191 | CHANGED | rc=0 >>
hosts.ini
ubuntu@ip-172-31-15-101:~$
```

2.2 Use the following command to create a file named **file1** on the host:

```
ansible 13.126.129.191 -a "touch file1"
```

Note: You can create the file on any other host as per your host list.

```
ubuntu@ip-172-31-15-101:~$ ansible 13.126.129.191 -a "touch file1"
13.126.129.191 | CHANGED | rc=0 >>

ubuntu@ip-172-31-15-101:~$ ansible 13.126.129.191 -a "ls"
13.126.129.191 | CHANGED | rc=0 >>
file1
hosts.ini
ubuntu@ip-172-31-15-101:~$
```

Step 3: Remove the file from the host

3.1 Now, run the following command to remove the file from the host:

```
ansible 13.126.129.191 -a "rm file1"

ubuntu@ip-172-31-15-101:~$ ansible 13.126.129.191 -a "rm file1"

13.126.129.191 | CHANGED | rc=0 >>

ubuntu@ip-172-31-15-101:~$ ansible 13.126.129.191 -a "ls"

13.126.129.191 | CHANGED | rc=0 >> hosts.ini
ubuntu@ip-172-31-15-101:~$
```

Step 4: Create and remove the file on the hosts using the group

4.1 Run the following command to create a new file on both the hosts using the group: ansible dbservers -a "touch Ansible_learners"

```
ubuntu@ip-172-31-15-101:~$ ansible dbbservers -a "touch Ansible_learners"
localhost | CHANGED | rc=0 >>

13.126.129.191 | CHANGED | rc=0 >>

3.110.151.86 | CHANGED | rc=0 >>

ubuntu@ip-172-31-15-101:~$
```

4.2Use the following command to list the contents of the current working directory of all the hosts present in the group:

ansible dbservers -a "ls"

```
ubuntu@ip-172-31-15-101:~$ ansible dbbservers -a "ls"
localhost | CHANGED | rc=0 >>
Ansible_learners
ansible.cfg
master_key.pem
13.126.129.191 | CHANGED | rc=0 >>
Ansible_learners
hosts.ini
3.110.151.86 | CHANGED | rc=0 >>
Ansible_learners
ubuntu@ip-172-31-15-101:~$
```

4.3 Run the following command to remove the file on both hosts using the group: ansible dbservers -a "rm Ansible learners"

```
ubuntu@ip-172-31-15-101:~$ ansible dbbservers -a "rm Ansible_learners"
localhost | CHANGED | rc=0 >>
3.110.151.86 | CHANGED | rc=0 >>
13.126.129.191 | CHANGED | rc=0 >>
ubuntu@ip-172-31-15-101:~$
```