

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 dbbservers -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:~$
```

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

ansible dbbservers -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 dbbservers -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:~$
```