



# **System Provisioning and Configuration Management**

**Lab File (2022-2026)  
6<sup>th</sup> Semester**

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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

#### 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. Use the following command to list the hosts in your inventory file:  
**ansible all --list-hosts**

```
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:~$ █
```

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

#### Step 2: Create a file on the host

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. 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

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

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:~$
```

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:~$
```

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:~$
```