ANSHIKA SRIVASTAVA
ROLL NUMBER – R2142220907
SAP ID – 500107049
LAB EXERCISE 2

Lab Exercise 02

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

i-0a0f5514cced5eedb (Ansible-server)

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

Step 2: Create a file on the host

2.1 Use the following command to list the contents of the current working directory:

ansible 172.31.23.82 -a "ls"

```
[do@ip-172-31-25-249 ~]$ ansible 172.31.23.82 -a "ls"
[WARNING]: Platform linux on host 172.31.23.82 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.23.82 | CHANGED | rc=0 >>
[do@ip-172-31-25-249 ~]$
```

i-0a0f5514cced5eedb (Ansible-server)

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

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

ansible 172.31.23.82 -a "touch file1"

```
[do@ip-172-31-25-249 ~]$ ansible 172.31.23.82 -a "touch file1"
[WARNING]: Platform linux on host 172.31.23.82 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.23.82 | CHANGED | rc=0 >>
[do@ip-172-31-25-249 ~]$
```

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PublicIPs: 16.16.184.192   PrivateIPs: 172.31.25.249

Step 3: Remove the file from the host

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

ansible 172.31.23.82 -a "rm file1"

```
[do@ip-172-31-25-249 ~]$ ansible 172.31.23.82 -a "rm file1"
[WARNING]: Platform linux on host 172.31.23.82 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.23.82 | CHANGED | rc=0 >>
[do@ip-172-31-25-249 ~]$
```

i-0a0f5514cced5eedb (Ansible-server)
PublicIPs: 16.16.184.192   PrivateIPs: 172.31.25.249

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"

```
[do@ip-172-31-25-249 ~]$ ansible dbservers -a "touch Ansible_learners"
[WARNING]: Platform linux on host 172.31.23.82 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.23.82 | CHANGED | rc=0 >>

[WARNING]: Platform linux on host 172.31.26.57 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.26.57 | CHANGED | rc=0 >>
[do@ip-172-31-25-249 ~]$
```

i-0a0f5514cced5eedb (Ansible-server)
PublicIPs: 16.16.184.192   PrivateIPs: 172.31.25.249

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

ansible dbservers -a "ls"


```
[do@ip-172-31-25-249 ~]$ ansible dbservers -a "ls"
[WARNING]: Platform linux on host 172.31.23.82 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.23.82 | CHANGED | rc=0 >>
Ansible_learners

[WARNING]: Platform linux on host 172.31.26.57 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.26.57 | CHANGED | rc=0 >>
Ansible_learners
[do@ip-172-31-25-249 ~]$
```

i-0a0f5514cced5eedb (Ansible-server)

PublicIPs: 16.16.184.192   PrivateIPs: 172.31.25.249

4.3 Run the following command to remove the file on both hosts using the group:

ansible dbservers -a "rm Ansible_learners"


```
[do@ip-172-31-25-249 ~]$ ansible dbservers -a "rm Ansible_learners"
[WARNING]: Platform linux on host 172.31.23.82 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.23.82 | CHANGED | rc=0 >>

[WARNING]: Platform linux on host 172.31.26.57 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.26.57 | CHANGED | rc=0 >>

[do@ip-172-31-25-249 ~]$
```

i-0a0f5514cced5eedb (Ansible-server)

PublicIPs: 16.16.184.192   PrivateIPs: 172.31.25.249