Lab Exercise 03

Executing Ad Hoc Commands

By: Anurag Negi

Objective: To demonstrate ad hoc commands for quickly executing tasks on remote

servers without writing full playbooks

Tools required: Ansible, Ubuntu OS

Prerequisites: None

Steps to be followed:

1. Generate SSH key pair on the main node

- 2. Copy the SSH key on the other two nodes
- 3. Update the host file with the host IP address
- 4. Establish connectivity between specified hosts and the Ansible server
- 5. Gather System Information Using Ad-Hoc Commands

Step 1: Establish connectivity between specified hosts and the Ansible server

 Run the following command to verify connectivity to all servers listed under the webservers group in your Ansible hosts file: ansible -m ping dbservers

2. Use the following command to check the number of hosts in the host file: ansible all --list-hosts

```
[do@ip-172-31-8-236 ~]$ ansible all --list-hosts
hosts (2):
    172.31.6.104
    172.31.5.230
[do@ip-172-31-8-236 ~]$
```

Step 2: Gather System Information Using Ad Hoc Commands

1. Run the following command to obtain the uptime from all managed hosts using an ad hoc command:

ansible all -m shell -a uptime

```
[do@ip-172-31-8-236 ~]$ ansible all -m shell -a uptime
[WARNING]: Platform linux on host 172.31.6.104 is using the discovered Python interpreter at /usr/bin/python,
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.6.104 | CHANGED | rc=0 >>
17:08:15 up 46 min, 1 user, load average: 0.00, 0.00, 0.00
[WARNING]: Platform linux on host 172.31.5.230 is using the discovered Python interpreter at /usr/bin/python,
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.5.230 | CHANGED | rc=0 >>
17:08:15 up 46 min, 1 user, load average: 0.00, 0.00, 0.00
[do@ip-172-31-8-236 ~]$
```

2. Similarly, execute the below command to obtain detailed information about memory usage on all hosts:

ansible all -m shell -a "free -m"

```
[do@ip-172-31-8-236 ~]$ ansible all -m shell -a "free -m"
[WARNING]: Platform linux on host 172.31.5.230 is using the discovered Python interpreter
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for
172.31.5.230 | CHANGED
                       rc=0 >>
                                       free
                                                  shared buff/cache
              total
                           used
                                                                       available
                                        668
                                          0
[WARNING]: Platform linux on host 172.31.6.104 is using the discovered Python interpreter
ttps://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for
172.31.6.104 | CHANGED | rc=0 >>
              total
                           used
                                       free
                                                  shared
                                                          buff/cache
                                                                       available
                                                       0
                                                                             743
                952
                                        665
                                                                 213
lem:
                              0
[do@ip-172-31-8-236 ~]$
```

You will see that Ansible logs in to each machine in turn and runs the uptime command, returning the current uptime output.

By following these steps, you have successfully demonstrated how to use ad hoc commands for quickly executing tasks on remote servers without the need for full playbooks.