## Lab Exercise 03

## **Executing Ad Hoc Commands**

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**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

```
> ansible all --list-hosts
hosts (3):
    172.31.6.104
    172.31.5.230
    localhost
```

**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 >>
              total
                           used
                                       free
                                                  shared
                                                          buff/cache
                                                                       available
                             74
                                                                 209
                952
                                        668
                                                                             743
1em:
[WARNING]: Platform linux on host 172.31.6.104 is using the discovered Python interpreter
https://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
                952
                                         665
                                                                             743
                                          0
                  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.