System Provisioning & Configuration Management

EXPERIMENT - 03

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Lab Exercise 03

Executing Ad Hoc Commands

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

4.1 Run the following command to verify connectivity to all servers listed under the **webservers** group in your Ansible hosts file:

ansible -m ping dbservers

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

4.2 Use the following command to check the number of hosts in the host file:

ansible all --list-hosts

```
[do@ip-172-31-25-249 ~]$ ansible all --list-hosts
  hosts (2):
    172.31.23.82
    172.31.26.57
[do@ip-172-31-25-249 ~]$
```

i-0a0f5514cced5eedb (Ansible-server)

PublicIPs: 16.16.184.192   PrivateIPs: 172.31.25.249

Step 2: Gather System Information Using Ad Hoc Commands

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

ansible all -m shell -a uptime

i-0a0f5514cced5eedb (Ansible-server)

PublicIPs: 16.16.184.192   PrivateIPs: 172.31.25.249

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

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

i-0a0f5514cced5eedb (Ansible-server)

PublicIPs: 16.16.184.192   PrivateIPs: 172.31.25.249

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.