Lab Exercise 04

Executing Ansible Modules

Objective: To demonstrate the use of the Ansible module for server configuration and management

Tools required: Linux terminal

Prerequisites: None

Steps to be followed:
1. Use Ansible modules for server configuration

Step 1: Use Ansible modules for server configuration

1.1 Run the following command using the **setup** module to collect and display detailed system information about the servers:

ansible -m setup dbservers

```
[devops@ip-172-31-8-163 ~]$ ansible -m setup devops
[WARNING]: Platform linux on host 172.31.15.102 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.15.102 | SUCCESS => {
    "ansible_facts": {
        "ansible_all_ipv4_addresses": [
            "172.31.15.102"
        ],
        "ansible_all_ipv6_addresses": [
            "fe80::8f8:ebff:feb3:aeab"
        ],
        "ansible_apparmor": {
            "status": "disabled"
        },
        "ansible_architecture": "x86_64",
        "ansible_bios_date": "08/24/2006",
        "ansible_bios_version": "4.11.amazon",
        "ansible_cmdline": {
            "BOOT_IMAGE": "/boot/vmlinuz-5.10.235-227.919.amzn2.x86_64",
            "biosdevname": "0",
            "console": "ttyS0,115200n8",
            "net.ifnames": "0",
            "nvme_core.io_timeout": "4294967295",
```

1.2 Run the following command using the **shell** module to retrieve server hostnames:

ansible dbservers -m shell -a 'hostname'

```
[devops@ip-172-31-8-163 ~]$ ansible devops -m shell -a 'hostname'
[WARNING]: Platform linux on host 172.31.15.102 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.15.102 | CHANGED | rc=0 >>
ip-172-31-15-102.ap-south-1.compute.internal
[WARNING]: Platform linux on host 172.31.5.145 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.5.145 | CHANGED | rc=0 >>
ip-172-31-5-145.ap-south-1.compute.internal
```

1.3 Run the following command using the **apt** module to install Git on servers:

ansible dbservers -m yum -a 'name=git state=present' - - become

```
[devops@ip-172-31-8-163 ~]$ ansible devops -m yum -a 'name=git state=present' --become
[WARNING]: Platform linux on host 172.31.15.102 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.15.102 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": true,
    "changes": {
        "installed": [
            "git"
        ]
    },
    "msg": "",
```