

System Provisioning and Configuration Management LAB

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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

```
ubuntu@ip-172-31-15-101:~$ ansible -m setup dbbservers
localhost | SUCCESS =>
"ansible_facts": {
              "ansible_all_ipv4_addresses": [
    "172.31.15.101"
             ],
"ansible_apparmor": {
                    "status": "enabled"
             },
"ansible_architecture": "x86_64",
"ansible_architecture": "x86_64",
             "ansible_bios_date": "08/24/2006",
             "ansible_bios_vendor": "Xen",
"ansible_bios_version": "4.11.amazon",
"ansible_board_asset_tag": "NA",
             "ansible_board_name": "NA"
             "ansible_board_serial": "NA",
"ansible_board_vendor": "NA",
             "ansible_board_vendor": "NA",
"ansible_board_version": "NA",
"ansible_chassis_asset_tag": "NA",
"ansible_chassis_serial": "NA",
"ansible_chassis_vendor": "Xen",
             "ansible_cmdline": {

"BOOT_IMAGE": "/vmlinuz-6.8.0-1024-aws",

"console": "ttyS0",
                     "nvme_core.io_timeout": "4294967295",
                    "ro": true,
"root": "PARTUUID=a8ef6bc6-0748-47d7-a4a8-b126c21ff84c"
             },
"ansible_date_time": {
"date": "2025-04-11",
"day": "11",
"1744375351"
                    "epoch": "1744375351",
"epoch_int": "1744375351",
```

1.2 Run the following command using the **shell** module to retrieve server hostnames: **ansible dbservers -m shell -a 'hostname'**

```
ubuntu@ip-172-31-15-101:~$ ansible dbbservers -m shell -a 'hostname'
localhost | CHANGED | rc=0 >>
ip-172-31-15-101
3.110.151.86 | CHANGED | rc=0 >>
ip-172-31-7-107
13.126.129.191 | CHANGED | rc=0 >>
ip-172-31-1-7
ubuntu@ip-172-31-15-101:~$
```

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**