

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-172-31-9-95 ~]$ ansible -m setup devops
[WARNING]: Platform linux on host 172.31.9.135 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.
172.31.9.135 | SUCCESS => {
  "ansible_facts": {
    "ansible_all_ipv4_addresses": [
      "172.31.9.135"
    ],
    "ansible_all_ipv6_addresses": [
      "fe80::8ae:9bff:fe67:9eaf"
    ],
    "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",
```

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

ansible dbservers -m shell -a 'hostname'

```
[devops@ip-172-31-9-95 ~]$ ansible devops -m shell -a "hostname"
[WARNING]: Platform linux on host 172.31.9.135 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.
172.31.9.135 | CHANGED | rc=0 >>
ip-172-31-9-135.ap-south-1.compute.internal
[devops@ip-172-31-9-95 ~]$
```

- 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-172-31-9-95 ~]$ ansible devops -m yum -a 'name=git state=present' --become
[WARNING]: Platform linux on host 172.31.9.135 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.
172.31.9.135 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "changes": {
    "installed": [
      "git"
    ]
  },
  "msg": "",
  "rc": 0,
  "results": [
    "Loaded plugins: extras_suggestions, langpacks, priorities, update-motd\nResolving Dependencies\n--> Running transaction check\n--> Package git-
2.47.1-1.amzn2.0.2 will be installed\n--> Processing Dependency: git-core = 2.47.1-1.amzn2.0.2 for package: git-2.47.1-1.amzn2.0.2.x86_64\n--> Proces
Dependency: git-core-doc = 2.47.1-1.amzn2.0.2 for package: git-2.47.1-1.amzn2.0.2.x86_64\n--> Processing Dependency: perl-Git = 2.47.1-1.amzn2.0.2 for pa
: git-2.47.1-1.amzn2.0.2.x86_64\n--> Processing Dependency: perl(Git) for package: git-2.47.1-1.amzn2.0.2.x86_64\n--> Processing Dependency: perl(Term:R
y) for package: git-2.47.1-1.amzn2.0.2.x86_64\n--> Running transaction check\n--> Package git-core.x86_64 0:2.47.1-1.amzn2.0.2 will be installed\n--> P
e git-core-doc.noarch 0:2.47.1-1.amzn2.0.2 will be installed\n--> Package perl-Git.noarch 0:2.47.1-1.amzn2.0.2 will be installed\n--> Processing Depend

```