



System Provisioning & Configuration Management

EXPERIMENT - 04

SUBMITTED BY:-

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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

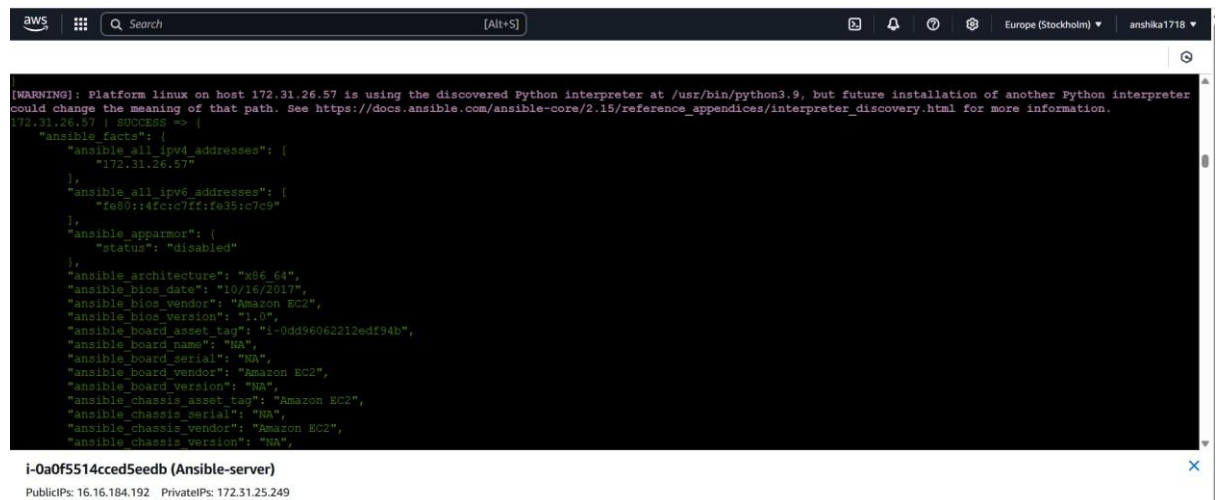
Steps to be followed:

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



```
[WARNING]: Platform linux on host 172.31.26.57 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.26.57 | SUCCESS => {
  "ansible_facts": {
    "ansible_all_ipv4_addresses": [
      "172.31.26.57"
    ],
    "ansible_all_ipv6_addresses": [
      "fe80::4fc7ff:fe35:c7c9"
    ],
    "ansible_apparmor": {
      "status": "disabled"
    },
    "ansible_architecture": "x86_64",
    "ansible_bios_date": "10/16/2017",
    "ansible_bios_vendor": "Amazon EC2",
    "ansible_bios_version": "1.0",
    "ansible_board_asset_tag": "i-0dd96062212edf94b",
    "ansible_board_name": "NA",
    "ansible_board_serial": "NA",
    "ansible_board_vendor": "Amazon EC2",
    "ansible_board_version": "NA",
    "ansible_chassis_asset_tag": "Amazon EC2",
    "ansible_chassis_serial": "NA",
    "ansible_chassis_vendor": "Amazon EC2",
    "ansible_chassis_version": "NA",
```

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

ansible dbservers -m shell -a 'hostname'

```
[do@ip-172-31-25-249 ~]$ ansible dbservers -m shell -a 'hostname'
[WARNING]: Platform linux on host 172.31.23.82 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.23.82 | CHANGED | rc=0 >>
ip-172-31-23-82.eu-north-1.compute.internal
[WARNING]: Platform linux on host 172.31.26.57 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.26.57 | CHANGED | rc=0 >>
ip-172-31-26-57.eu-north-1.compute.internal
[do@ip-172-31-25-249 ~]$
```

i-OaOf5514ccedSeedb (Ansible-server)

PublicIPs: 16.16.184.192 PrivateIPs: 172.31.25.249

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

```
[do@ip-172-31-25-249 ~]$ ansible dbservers -m yum -a 'name=git state=present' --become
[WARNING]: Platform linux on host 172.31.23.82 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.23.82 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.9"
  },
  "changed": true,
  "msg": "",
  "rc": 0,
  "results": [
    "Installed: git-core-2.47.1-1.amzn2023.0.2.x86_64",
    "Installed: perl-Error-1:0.17029-5.amzn2023.0.2.noarch",
    "Installed: perl-File-Find-1.37-477.amzn2023.0.6.noarch",
    "Installed: perl-Git-2.47.1-1.amzn2023.0.2.noarch",
    "Installed: git-core-doc-2.47.1-1.amzn2023.0.2.noarch",
    "Installed: perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64",
    "Installed: git-2.47.1-1.amzn2023.0.2.x86_64",
    "Installed: perl-lib-0.65-477.amzn2023.0.6.x86_64"
  ]
}
[WARNING]: Platform linux on host 172.31.26.57 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
172.31.26.57 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.9"
  },
  "changed": true,
  "msg": "",
  "rc": 0,
  "results": [
    "Installed: git-core-2.47.1-1.amzn2023.0.2.x86_64",
    "Installed: perl-Error-1:0.17029-5.amzn2023.0.2.noarch",
    "Installed: perl-File-Find-1.37-477.amzn2023.0.6.noarch",
    "Installed: perl-Git-2.47.1-1.amzn2023.0.2.noarch",
    "Installed: git-core-doc-2.47.1-1.amzn2023.0.2.noarch",
    "Installed: perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64",
    "Installed: git-2.47.1-1.amzn2023.0.2.x86_64",
    "Installed: perl-lib-0.65-477.amzn2023.0.6.x86_64"
  ]
}
[do@ip-172-31-25-249 ~]$
```

i-OaOf5514ccedSeedb (Ansible-server)

PublicIP: 16.16.184.192 PrivateIP: 172.31.25.249