



# **Software Provisioning and Configuration Management**

**LAB FILE SUBMITTED BY:**

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**BATCH: 1 Devops**

# 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

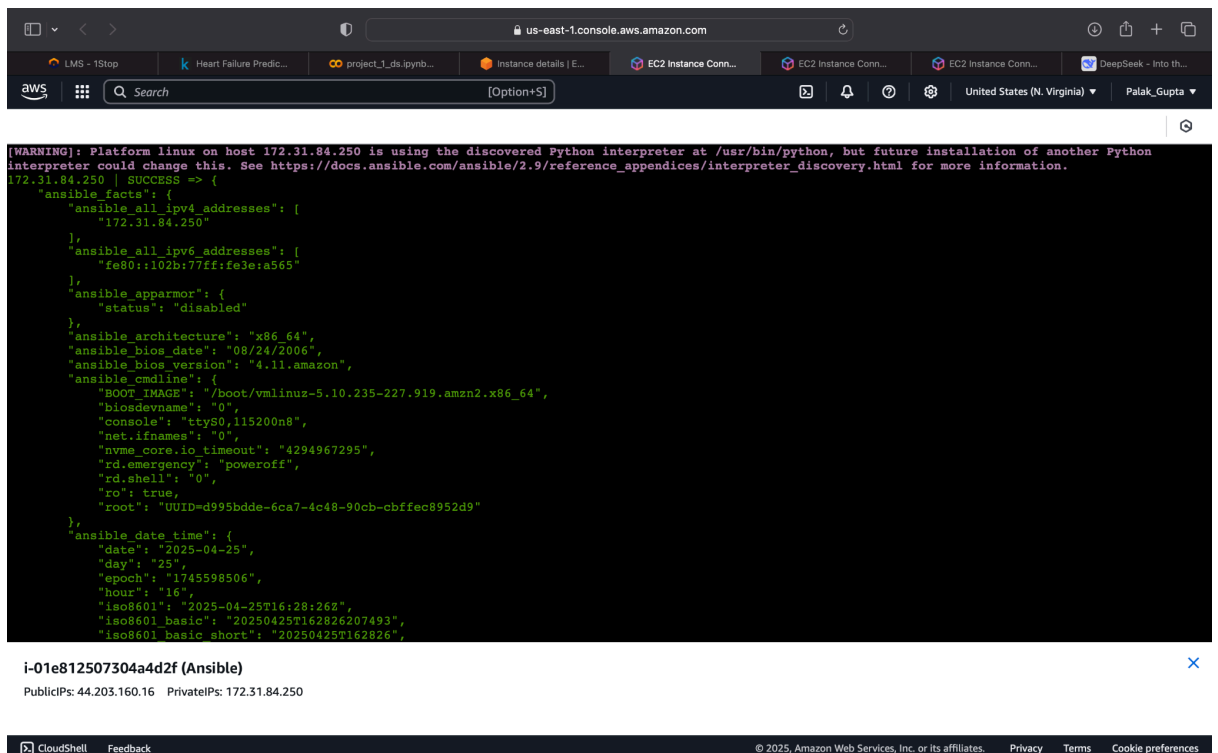
Steps to be followed:

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 172.31.84.250 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.
172.31.84.250 | SUCCESS => {
  "ansible_facts": {
    "ansible_all_ipv4_addresses": [
      "172.31.84.250"
    ],
    "ansible_all_ipv6_addresses": [
      "fe80::102b:77ff:fe3e:a565"
    ],
    "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",
      "rd.emergency": "poweroff",
      "rd.shell": "0",
      "ro": true,
      "root": "UUID=d995bdde-6ca7-4c48-90cb-cbfffec8952d9"
    },
    "ansible_date_time": {
      "date": "2025-04-25",
      "day": "25",
      "epoch": "1745598506",
      "hour": "16",
      "iso8601": "2025-04-25T16:28:26Z",
      "iso8601_basic": "20250425T162826207493",
      "iso8601_basic_short": "20250425T162826",

```

i-01e812507304a4d2f (Ansible)

PublicIPs: 44.203.160.16 PrivateIPs: 172.31.84.250

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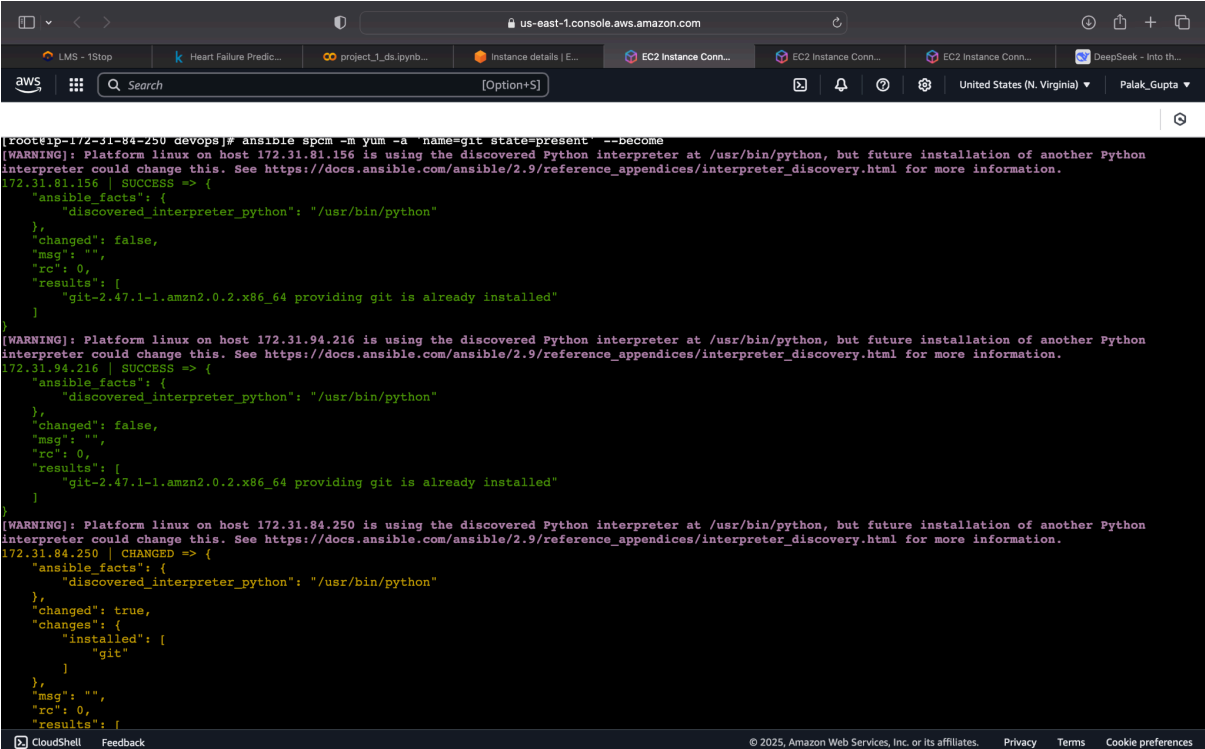
## 1.2 Run the following command using the **shell** module to retrieve server hostnames:

**ansible dbservers -m shell -a 'hostname'**

```
[root@ip-172-31-84-250 devops]# ansible spcm -m shell -a 'hostname'
[WARNING]: Platform linux on host 172.31.81.156 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.
172.31.81.156 | CHANGED | rc=0 >>
ip-172-31-81-156.ec2.internal
[WARNING]: Platform linux on host 172.31.94.216 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.
172.31.94.216 | CHANGED | rc=0 >>
ip-172-31-94-216.ec2.internal
[WARNING]: Platform linux on host 172.31.84.250 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.
172.31.84.250 | CHANGED | rc=0 >>
ip-172-31-84-250.ec2.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**



```
[root@ip-172-31-84-250 devops]# ansible spcm -m yum -a 'name=git state=present' --become
[WARNING]: Platform linux on host 172.31.81.156 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.
172.31.81.156 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "msg": "",
  "rc": 0,
  "results": [
    "git-2.47.1-1.amzn2.0.2.x86_64 providing git is already installed"
  ]
}
[WARNING]: Platform linux on host 172.31.94.216 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.
172.31.94.216 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "msg": "",
  "rc": 0,
  "results": [
    "git-2.47.1-1.amzn2.0.2.x86_64 providing git is already installed"
  ]
}
[WARNING]: Platform linux on host 172.31.84.250 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.
172.31.84.250 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "changes": {
    "installed": [
      "git"
    ]
  },
  "msg": "",
  "rc": 0,
  "results": [
    "git-2.47.1-1.amzn2.0.2.x86_64 providing git is already installed"
  ]
}
```