

Lesson 06 Demo 04

Using Ansible Modules

Objective: To demonstrate the use of Ansible modules to automate tasks on remote hosts.

Tools required: Ansible

Prerequisites: You need to have Ansible installed in order to proceed with this demo. If you do not have it installed, refer to Demo 01 of Lesson 07.

Steps to be followed:

1. Execute an Ansible module on a local server

Step 1: Execute an Ansible module on a local server

- 1.1 Execute the command below to utilize Ansible's setup module for collecting localhost facts:

ansible -m setup webserver

```
labsuser@ip-172-31-32-128:~$ ansible -m setup webserver
```

```
    "ids": [],
    "labels": [],
    "masters": [],
    "uuids": []
  },
  "model": null,
  "partitions": {},
  "removable": "0",
  "rotational": "0",
  "sas_address": null,
  "sas_device_handle": null,
  "scheduler_mode": "none",
  "sectors": "151784",
  "sectorsize": "512",
  "size": "74.11 MB",
  "support_discard": "4096",
  "vendor": null,
  "virtual": 1
},
"loop6": {
  "holders": [],
  "host": "",
  "links": {
    "ids": [],
    "labels": [],
    "masters": [],
    "uuids": []
  },
  "model": null,
  "partitions": {},
  "removable": "0",
```

- 1.2 Execute the below command to run the **hostname** command on the hosts in the **webservers** group:

ansible webservers -m shell -a 'hostname'

```
labuser@ip-172-31-32-128:~$ ansible webservers -m shell -a 'hostname'
localhost | CHANGED | rc=0 >>
ip-172-31-32-128
labuser@ip-172-31-32-128:~$
```

- 1.3 Execute the below command to ensure that the **git** package is installed on the hosts in the **webservers** group:

ansible webservers -m apt -a 'name=git state=present' --become

```
labuser@ip-172-31-32-128:~$ ansible webservers -m apt -a 'name=git state=present' --become
localhost | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "cache_update_time": 1707805255,
  "cache_updated": false,
  "changed": false
}
labuser@ip-172-31-32-128:~$
```

- 1.4 Execute the following command to create a file named **sample.txt** in the **/root** directory on the hosts in the **webservers** group:

ansible webservers -m file -a 'dest=/root/sample.txt state=touch mode=600 owner=root group=root' --become

```
labuser@ip-172-31-32-128:~$ ansible webservers -m file -a 'dest=/root/sample.txt state=touch mode=600 owner=root group=root' --become
localhost | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": true,
  "dest": "/root/sample.txt",
  "gid": 0,
  "group": "root",
  "mode": "0600",
  "owner": "root",
  "size": 0,
  "state": "file",
  "uid": 0
}
labuser@ip-172-31-32-128:~$
```

By following these steps, you have successfully learned how to use Ansible modules to automate tasks on remote hosts.