Ansible Project: Reboot Servers

Ansible Project:

Rebooting servers using Ansible.

Problem Statement:

-Some companies reboot all their servers once every week for good maintenance of the server. This process can be tedious doing it manually especially if you are working with a lot of servers. A company submitted a job ticket for automating the task of rebooting multiple servers using Ansible.

Solution Statement:

-For demonstration purposes, I am going to use three servers to solve the problem. The concept is the same if you are working with 3 servers or 100 servers. One of my servers will be used as the master node and the other two as the target nodes. I am going to create an Ansible playbook that will reboot the target servers from the inventory or host file.

Some of the reasons why a company would rebook their servers every week are regular restart of a server makes the environment more stable and better performing. Also, regular reboots protect the business from outages and downtime.

Creating a directory for Ansible files including the playbook

```
root@master:~/ansible-reboot

[root@master ansible_uptime_disk]# cd ~
[root@master ~]# mkdir ansible-reboot
[root@master ~]# cd ansible-reboot/
[root@master ansible-reboot]#
```

Creating an inventory file to keep track of all the hosts.

```
root@master:~/ansible-reboot

[root@master ansible-reboot]# ls
inventory.txt
[root@master ansible-reboot]# cat inventory.txt

# Target Nodes
[servers]
192.168.43.13
192.168.43.15

[root@master ansible-reboot]# |
```

Creating a configuration for ansible

Validate the inventory

```
root@master:~/ansible-reboot] # ansible-inventory --graph
@all:
    |--@servers:
    | --192.168.43.13
    | |--192.168.43.15
    |--@ungrouped:
[root@master ansible-reboot] # |
```

Checking the connectivity of all the target nodes

```
root@master:~/ansible-reboot] # ansible all -m ping

192.168.43.13 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": false,
    "ping": "pong"
}

192.168.43.15 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": false,
    "ping": "pong"
}
[root@master ansible-reboot]# |
```

Checking the playbook syntax before running it

```
root@master:~/ansible-reboot — X

[root@master ansible-reboot]# ansible-playbook reboot.yml --syntax-check

playbook: reboot.yml
[root@master ansible-reboot]# |
```

Playbook output

```
root@master:~/ansible-reboot
                                         ok: [192.168.43.13]
ok: [192.168.43.15]
changed: [192.168.43.13]
changed: [192.168.43.15]
TASK [waiting for the server to come back] ************************
  [192.168.43.15 -> localhost]
[192.168.43.13 -> localhost]
changed=1
changed=1
                             unreachable=0
192.168.43.13
               : ok=3
                                       failed=0
192.168.43.15
               : ok=3
                             unreachable=0
                                       failed=0
```

Now, we can be able to reboot the target server automatically.