

Q4)Ansible

1)create inventory file

2)create playbook update_packages.yml

3)Test connection

```
master@master-vn:~$ mkdir ~/package_update
master@master-vn:~$ cd ~/package_update
master@master-vn:~/package_update$ nano inventory.ini
master@master-vn:~/package_update$ nano update_packages.yml
master@master-vn:~/package_update$ ansible -i inventory.ini all -m ping
192.168.147.129 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
192.168.147.130 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
```

4)Run the playbook

5)verifying on remote machines

```
master@master-vn:~/package_update$ ansible-playbook -i inventory.ini update_packages.yml --ask-become-pass
BECOME password:
```

```
PLAY [Update all packages on remote hosts] *****

TASK [Gathering Facts] *****
ok: [192.168.147.130]
ok: [192.168.147.129]

TASK [Update apt cache] *****
changed: [192.168.147.129]
changed: [192.168.147.130]

TASK [Upgrade all packages] *****
changed: [192.168.147.129]
changed: [192.168.147.130]

PLAY RECAP *****
192.168.147.129      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
192.168.147.130      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

master@master-vn:~/package_update$ ssh worker1@192.168.147.129
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-136-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

1 additional security update can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

New release '22.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Thu Apr 10 10:23:13 2025 from 192.168.147.128
worker1@worker1-vn:~$ sudo apt list --upgradable
[sudo] password for worker1:
Listing... Done
worker1@worker1-vn:~$
```