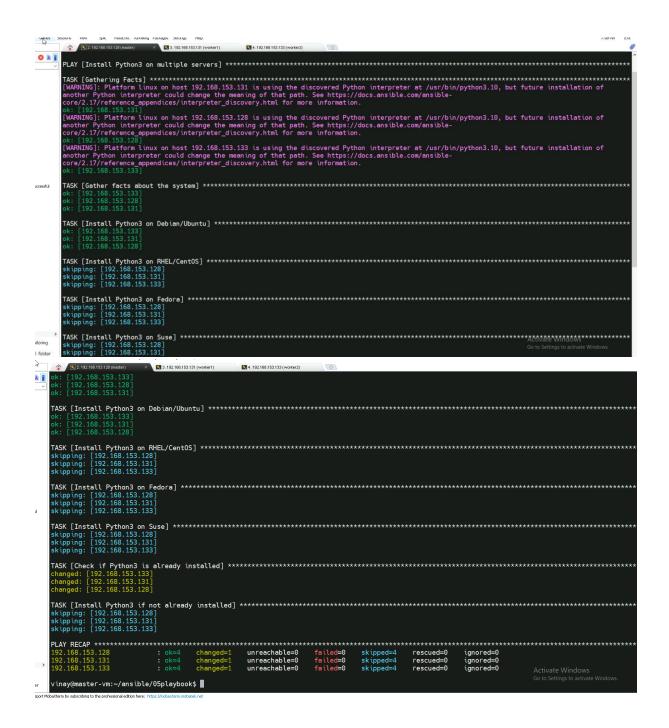
You ran an Ansible playbook to install Python3 on multiple servers, but it failed on one of the servers. The error message was:

fatal: [server2]: failed! => {""msg"": ""no package matching 'python3' found available""}

Questions:

- i. Why did this error occur?
- ii. How can you modify your playbook to handle this issue dynamically using Ansible Facts?
- iii. Write a playbook snippet that ensures Python3 gets installed correctly on any Linux distribution.



```
changed=1
    192.168.153.133
                                                                                 failed=0
                                                             unreachable=0
                                                                                               skipped=4
    vinay@master-vm:~/ansible/05playbook$ cat errpython.yaml
      name: Install Python3 on multiple servers
       hosts: all
       become: yes
       tasks:
         - name: Gather facts about the system
           ansible.builtin.setup:
         name: Install Python3 on Debian/Ubuntu ansible.builtin.apt:
             name: python3
             state: present
           when: ansible_facts['os_family'] == 'Debian'
ul
         name: Install Python3 on RHEL/CentOS ansible.builtin.yum:
             name: python3
             state: present
           when: ansible_facts['os_family'] == 'RedHat'

    name: Install Python3 on Fedora 
ansible.builtin.dnf:

             name: python3
             state: present
           when: ansible_facts['distribution'] == 'Fedora'
         name: Install Python3 on Suse
ansible.builtin.zypper:
             name: python3
           state: present
when: ansible_facts['os_family'] == 'Suse'
           name: Check if Python3 is already installed
           ansible.builtin.command:
             cmd: python3 --version
```

```
A

    name: Gather facts about the system ansible.builtin.setup:

                name: Install Python3 on Debian/Ubuntu
ansible.builtin.apt:
B
                      name: python3
      Desktop 2025-04-01 10:22 master master drwxr-xr-x when: ansible_facts['os_family'] == 'Debian'

    name: Install Python3 on RHEL/CentOS ansible.builtin.yum:

                   name: python3
  state: present
when: ansible_facts['os_family'] == 'RedHat'
                name: Install Python3 on Fedora 
ansible.builtin.dnf:
sful
                      name: python3
                   state: present
when: ansible_facts['distribution'] == 'Fedora'

    name: Install Python3 on Suse
ansible.builtin.zypper:

                   name: python3
  state: present
when: ansible_facts['os_family'] == 'Suse'

    name: Check if Python3 is already installed
ansible.builtin.command:
cmd: python3 --version
register: python_version
ignore_errors: yes

    name: Install Python3 if not already installed ansible.builtin.yum:

        name: python3
state: present
when: python_version.failed
vinay@master-vm:~/ansible/05playbook$
ng
der
support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
```