

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:

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

```
PLAY [Install Python3 on multiple servers] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 192.168.153.131 is using the discovered Python interpreter at /usr/bin/python3.10, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [192.168.153.131]
[WARNING]: Platform linux on host 192.168.153.128 is using the discovered Python interpreter at /usr/bin/python3.10, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [192.168.153.128]
[WARNING]: Platform linux on host 192.168.153.133 is using the discovered Python interpreter at /usr/bin/python3.10, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [192.168.153.133]

TASK [Gather facts about the system] *****
ok: [192.168.153.133]
ok: [192.168.153.128]
ok: [192.168.153.131]

TASK [Install Python3 on Debian/Ubuntu] *****
ok: [192.168.153.133]
ok: [192.168.153.131]
ok: [192.168.153.128]

TASK [Install Python3 on RHEL/CentOS] *****
skipping: [192.168.153.128]
skipping: [192.168.153.131]
skipping: [192.168.153.133]

TASK [Install Python3 on Fedora] *****
skipping: [192.168.153.128]
skipping: [192.168.153.131]
skipping: [192.168.153.133]

TASK [Install Python3 on Suse] *****
skipping: [192.168.153.128]
skipping: [192.168.153.131]
skipping: [192.168.153.133]

TASK [Install Python3 on Debian/Ubuntu] *****
ok: [192.168.153.133]
ok: [192.168.153.131]
ok: [192.168.153.128]

TASK [Install Python3 on RHEL/CentOS] *****
skipping: [192.168.153.128]
skipping: [192.168.153.131]
skipping: [192.168.153.133]

TASK [Install Python3 on Fedora] *****
skipping: [192.168.153.128]
skipping: [192.168.153.131]
skipping: [192.168.153.133]

TASK [Install Python3 on Suse] *****
skipping: [192.168.153.128]
skipping: [192.168.153.131]
skipping: [192.168.153.133]

TASK [Check if Python3 is already installed] *****
changed: [192.168.153.133]
changed: [192.168.153.131]
changed: [192.168.153.128]

TASK [Install Python3 if not already installed] *****
skipping: [192.168.153.128]
skipping: [192.168.153.131]
skipping: [192.168.153.133]

PLAY RECAP *****
192.168.153.128      : ok=4    changed=1    unreachable=0    failed=0    skipped=4    rescued=0    ignored=0
192.168.153.131      : ok=4    changed=1    unreachable=0    failed=0    skipped=4    rescued=0    ignored=0
192.168.153.133      : ok=4    changed=1    unreachable=0    failed=0    skipped=4    rescued=0    ignored=0

viny@master-vm:~/ansible/05playbook$
```

```
192.168.153.131 : ok=4 changed=1 unreachable=0 failed=0 skipped=4 re
192.168.153.133 : ok=4 changed=1 unreachable=0 failed=0 skipped=4 re

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'

    - 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
```

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

- name: Install Python3 on Debian/Ubuntu
  ansible.builtin.apt:
    name: python3
  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:
    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$
```

Desktop 2025-04-01 10:22 master master drwxr-xr-x

sfu

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