1. Gathering Ansible facts
2. Displaying OS and IP information
3. Printing the hostname using both a script and shell command

**2. File: inventory**

[all]

localhost ansible\_connection=local

**3. File: get\_hostname.py**

#!/usr/bin/python3

import socket

print(f"Hostname is {socket.gethostname()}")

Make it executable:

chmod +x get\_hostname.py

**4. File: playbook.yaml**

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- name: Ansible facts and hostname demo

hosts: all

gather\_facts: true

tasks:

- name: Show OS distribution

debug:

msg: "Distribution is {{ ansible\_facts['distribution'] }}"

- name: Show IP address of default interface

debug:

msg: "Default IPv4 address is {{ ansible\_facts['default\_ipv4']['address'] }}"

- name: Print hostname using shell command

command: hostname

register: hostname\_result

- name: Show hostname from shell command

debug:

msg: "Hostname (shell) is {{ hostname\_result.stdout }}"

- name: Print hostname using external Python script

script: get\_hostname.py

**5. Run the playbook**

ansible-playbook -i inventory playbook.yaml