ANSIBLE ASSIGNMENT 2

Name: Vikram
Assignment: Execute a Custom Script on All Hosts Using Ansible

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Problem Statement

You are required to:

1. Create a custom script that adds the text

   "This text has been added by custom script"

   into the file /tmp/1.txt.

2. Use Ansible to run this script on all managed hosts in the Ansible inventory.

This demonstrates automation of remote script execution using Ansible Playbooks.

Environment Used

- Ansible Master Node: Ubuntu EC2 instance

- Two Managed Nodes (Slave1 & Slave2): Ubuntu EC2 instances

- SSH authentication using mykey.pem

- Inventory configured at /etc/ansible/hosts

Inventory example:

[slave1]

10.0.11.55 ansible_user=ubuntu ansible_ssh_private_key_file=/home/ubuntu/.ssh/mykey.pem

[slave2]

10.0.15.253 ansible_user=ubuntu ansible_ssh_private_key_file=/home/ubuntu/.ssh/mykey.pem

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Tasks Performed

Task 1: Create a script that adds text to /tmp/1.txt

On your Ansible Master, create a script:

nano addtext.sh

Paste this inside:

```
#!/bin/bash

echo "This text has been added by custom script" >> /tmp/1.txt
```

Save → CTRL+O → Enter → CTRL+X

```
ubuntu@ip-10-0-6-254:~$ nano addtext.sh
```

```
GNU nano 7.2
#!/bin/bash
echo "This text has been added by custom script" >> /tmp/1.txt
```

Make it executable:

chmod +x addtext.sh

```
ubuntu@ip-10-0-6-254:~$ nano addtext.sh
ubuntu@ip-10-0-6-254:~$ chmod +x addtext.sh
ubuntu@ip-10-0-6-254:~$
```

Task 2: Run this script using Ansible on ALL hosts

Create the Ansible playbook:

nano run-script.yml

Paste this:

- name: Run custom script on all hosts

  hosts: all

  become: yes

  tasks:

    - name: Copy script to remote hosts

      copy:

src: addtext.sh

      dest: /tmp/addtext.sh

      mode: '0755'

   - name: Execute the script on remote hosts

      command: bash /tmp/addtext.sh

Save → exit.

Run the playbook

ansible-playbook run-script.yml

```
ubuntu@ip-10-0-6-254:~$ nano run-script.yml
```

```
  GNU nano 7.2
---
- name: Run custom script on all hosts
  hosts: all
  become: yes

  tasks:
    - name: Copy script to remote hosts
      copy:
        src: addtext.sh
        dest: /tmp/addtext.sh
        mode: '0755'

    - name: Execute the script on remote hosts
      command: bash /tmp/addtext.sh
```

```
ubuntu@ip-10-0-6-254:~$ ansible-playbook run-script.yml

PLAY [Run custom script on all hosts] *****************************************************************************

TASK [Gathering Facts] ********************************************************************************************
The authenticity of host '10.0.15.253 (10.0.15.253)' can't be established.
ED25519 key fingerprint is SHA256:yrX9xqE2BpxZTuPVlShxyVFEiWH88qE1BJNDrvBtEzI.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
ok: [10.0.11.55]
ok: [10.0.15.253]

TASK [Copy script to remote hosts] ********************************************************************************
changed: [10.0.15.253]
changed: [10.0.11.55]

TASK [Execute the script on remote hosts] *************************************************************************
changed: [10.0.15.253]
changed: [10.0.11.55]

PLAY RECAP ********************************************************************************************************
10.0.11.55                 : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
10.0.15.253                : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

ubuntu@ip-10-0-6-254:~$
```

EXPECTED RESULT

On each host (slave1, slave2), this file should now exist:

/tmp/1.txt

Check manually on each slave:

cat /tmp/1.txt

Output should be:

This text has been added by custom script

```
ubuntu@ip-10-0-11-55:~$ cat /tmp/1.txt
This text has been added by custom script
ubuntu@ip-10-0-11-55:~$
```

i-0dde7c0f6be97fe6f (slave2)

PublicIPs: 3.80.238.215   PrivateIPs: 10.0.11.55

```
ubuntu@ip-10-0-15-253:~$ cat /tmp/1.txt
This text has been added by custom script
ubuntu@ip-10-0-15-253:~$ █
```

i-02539f23426097cd2 (slave1)

PublicIPs: 3.91.224.29   PrivateIPs: 10.0.15.253

Verification

On each remote host, the file /tmp/1.txt was checked:

cat /tmp/1.txt

Expected output:

This text has been added by custom script

Both slave nodes successfully received the file and the text.

Conclusion

Successfully created and executed a custom script on multiple hosts using Ansible.

This assignment demonstrated:

- Remote script execution
- Use of Ansible playbooks
- Automation across multiple managed nodes
- Secure SSH-based communication