

Task 1

Create a file named "test" and a user named "ahmed" manually, using a Bash script, and using an Ansible playbook.

Manual

1-Create file on control node

```
[root@192 ~]#  
[root@192 ~]# touch test.manual  
[root@192 ~]#
```

```
[root@192 ~]# ll  
total 4  
-rw-----. 1 root root 983 Aug  3 13:17 anaconda-ks.cfg  
-rw-r--r--. 1 root root   0 Oct 14 23:19 test.manual  
[root@192 ~]#
```

2-Create file on managed node

```
[fouad2@client ~]$  
[fouad2@client ~]$ touch test.manual
```

```
[fouad2@client ~]$  
[fouad2@client ~]$  
[fouad2@client ~]$ ls -l test.manual  
-rw-r--r--. 1 fouad2 fouad2 0 Oct 14 23:31 test.manual  
[fouad2@client ~]$
```

Create user named "ahmed"

```
[root@192 ~]#  
[root@192 ~]# useradd ahmed1  
[root@192 ~]#  
[root@192 ~]# tail -1 /etc/passwd  
ahmed1:x:1001:1001::/home/ahmed1:/bin/bash  
[root@192 ~]#
```

Using bash script

```
[root@192 ~]#  
[root@192 ~]# vim create_user.sh
```

```
#!/bin/bash  
  
touch /home/test  
  
if id "ahmed" &>/dev/null; then  
    echo "User ahmed already exists."  
else  
    useradd ahmed  
    echo "User ahmed created successfully."  
fi
```

Change permission and run script

```
[root@192 ~]#  
[root@192 ~]# chmod +x create_user.sh  
[root@192 ~]#  
[root@192 ~]# ./create_user.sh  
User ahmed created successfully.  
[root@192 ~]#
```

Verify

```
[root@192 ~]# ls /home/test  
/home/test  
[root@192 ~]# id ahmed  
uid=1002(ahmed) gid=1002(ahmed) groups=1002(ahmed)  
[root@192 ~]#
```

Using playbook

1-generate AK

```
[root@192 ansible]# ssh-keygen
```

2- send public key to managed node

```
[root@192 ansible]# ssh-copy-id fouad2@192.168.159.129
```

3- Create an inventory file to specify the target hosts

```
vim my_invintory.ini
```

```
[fouad2]
192.168.159.129    ansible_user=fouad2
```

4- Creating a Playbook with the required tasks

```
vim my_playbook.yaml
```

```
---
- name: Create test file and user ahmed
  hosts: fouad2
  become: yes
  tasks:
    - name: Create a file named test
      file:
        path: /home/test
        state: touch

    - name: Create user ahmed
      user:
        name: ahmed
        state: present
```

Verify

```
[root@192 myproject]# ansible-playbook -i my_inventory.ini my_playbook.yaml

PLAY [Create test file and user ahmed] *****

TASK [Gathering Facts] *****
ok: [192.168.159.129]

TASK [Create a file named test] *****
changed: [192.168.159.129]

TASK [Create user ahmed] *****
changed: [192.168.159.129]

PLAY RECAP *****
192.168.159.129      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```