# Task 3

**"Create a file on the Control Node, copy it to the Managed Node, verify its content, modify the file, and sync changes"**

1. **Create the file and write content on the Control Node**

```
[root@192 ~]#
[root@192 ~]# echo "Hello from control node" > myfile.txt
[root@192 ~]#
[root@192 ~]# vim sync_playbook.yaml
[root@192 ~]#
```

**2- Creating a Playbook with the required tasks**

Copy file to dst

```yaml
- name: Sync file to managed node
  hosts: fouad2
  tasks:
    - name: create directory if not exists
      file:
        path: /home/fouad2
        state: directory
        mode: '0755'

    - name: copy file to managed node
      copy:
        src: /home/fouad/myfile.txt
        dest: /home/fouad2/myfile.txt
```

Run play book

```
[root@192 ~]# ansible-playbook sync_playbook.yaml

PLAY [Sync file to managed node] ***************************************************************

TASK [Gathering Facts] ************************************************************************
ok: [fouad2]

TASK [create directory if not exists] ********************************************************
ok: [fouad2]

TASK [copy file to managed node] ************************************************************
changed: [fouad2]

PLAY RECAP ***********************************************************************************
fouad2                     : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

3. **Display the file and its content on the Managed Node (before modification)**

```
[root@192 ~]# ansible fouad2 -m shell -a "cat /home/fouad2/myfile.txt"
fouad2 | CHANGED | rc=0 >>
Hello from control node
[root@192 ~]#
```

Edit playbook file to sync instead of copy

```
- name: Sync file to managed node using synchronize
  hosts: fouad2
  tasks:
    - name: create directory if not exists
      file:
        path: /home/fouad2
        state: directory
        mode: '0755'

    - name: synchronize file
      synchronize:
        src: /home/fouad/myfile.txt
        dest: /home/fouad2/myfile.txt
```

**4. Modify the original file on the Control Node and Perform Sync (update the file ٥.  
on the Managed Node)**

**Then Display the file and its content on the Managed Node after the update ٦.**

```
[root@192 ~]# echo "Updated content from Control Node" >> /home/fouad/myfile.txt
[root@192 ~]#
```

```
[root@192 ~]# ansible-playbook sync_playbook.yaml

PLAY [Sync file to managed node using synchronize] ******************************************************************************

TASK [Gathering Facts] *********************************************************************************************************
ok: [fouad2]

TASK [create directory if not exists] *****************************************************************************************
ok: [fouad2]

TASK [synchronize file] *******************************************************************************************************
changed: [fouad2]

PLAY RECAP ********************************************************************************************************************
fouad2                     : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[root@192 ~]# ansible fouad2 -m shell -a "cat /home/fouad2/myfile.txt"
fouad2 | CHANGED | rc=0 >>
Hello from control node
Updated content from Control Node
```