



Placement Empowerment Program

Cloud Computing and DevOps Centre

Automate File Copying with a Script

Create a script to copy files from one folder to another automatically.

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Introduction:

- Automating repetitive tasks like file copying can save time, reduce errors, and improve efficiency in various scenarios, such as managing backups, organizing files, or syncing data between directories.
- This POC script will demonstrate how to copy files automatically from one folder to another, using a simple yet effective approach.

Overview:

- ➤ The script automates the process of copying files from a source folder to a destination folder.
- ➤ It ensures that all files in the source directory are transferred efficiently while maintaining their integrity.
- ➤ This automation can be customized based on specific needs, such as copying files based on file type, modification date, or size.
- ➤ The script can be written using programming languages like Python, Shell scripting, or PowerShell, depending on the operating environment.

Objectives:

The key objectives of this automation task are:

- **❖ Simplify File Management**: Reduce manual effort in moving or copying files between folders.
- **❖ Improve Efficiency**: Automate the process to save time and improve productivity.
- **Ensure Data Integrity**: Accurately copy files without any corruption or loss.
- **Customizable Workflow**: Enable flexibility to meet specific requirements (e.g., filtering files by type or date).
- * Scalable Solution: Allow the script to handle a large number of files efficiently.

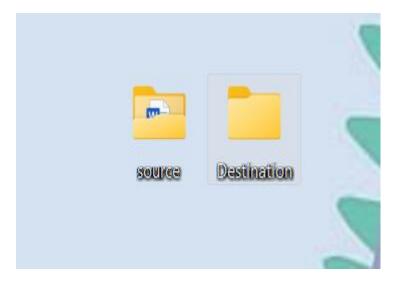
Importance:

- **1. Time-Saving**: Automating the process eliminates the need for manual intervention, saving hours of work.
- **2. Error Reduction**: Reduces human errors, such as forgetting to copy specific files or overwriting important ones.
- **3. Improved Organization**: Helps maintain a consistent structure for file storage and backups.
- **4. Useful in Various Scenarios**: This approach is valuable for IT professionals, businesses, and individuals dealing with frequent file transfers or backups.
- **5. Scalability and Reusability**: Once created, the script can be reused and scaled up to handle more complex tasks.

Step-by-Step Overview:

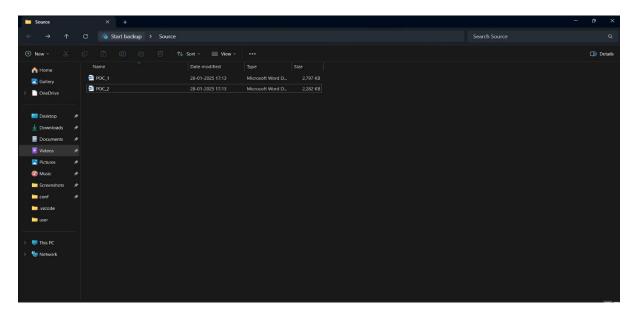
Step 1:

Create two folders named Source and Destination



Step 2:

Store some files inside the source folder to automate it



Step 3:

Open the note pad and type the code and make sure that in set SOURCE give your Source folder address and in set DESTINATION give your Destination Folder address

```
index.bat

File Edit View

@echo off

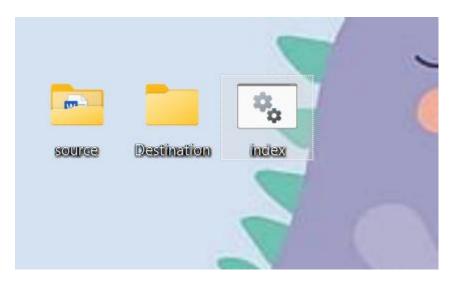
rem Define source and destination folders
set SOURCE=C:\Users\Hi\Desktop\source
set DESTINATION=C:\Users\Hi\Desktop\Destination

rem Copy files from source to destination
xcopy "%SOURCE%\*" "%DESTINATION%\" /E /Y

echo Files copied successfully!
pause
```

Step 4:

Then save the file in desktop with .bat extension (eg: index.bat) so the file looks like this



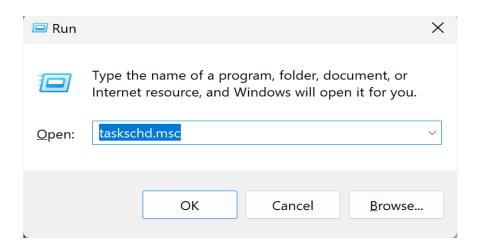
Step 5:

Press Win + R on your keyboard.

A small "Run" dialog box will pop up.

Type taskschd.msc (without quotes) in the Run box.

Press Enter or click OK. This will open the Task Scheduler window.

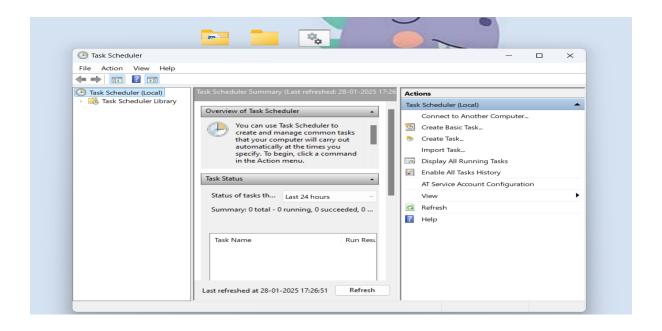


Step 6:

In the Task Scheduler window, look to the right-hand side for a button called "Create Basic Task".

Click it.

A wizard will open to guide you through the setup.



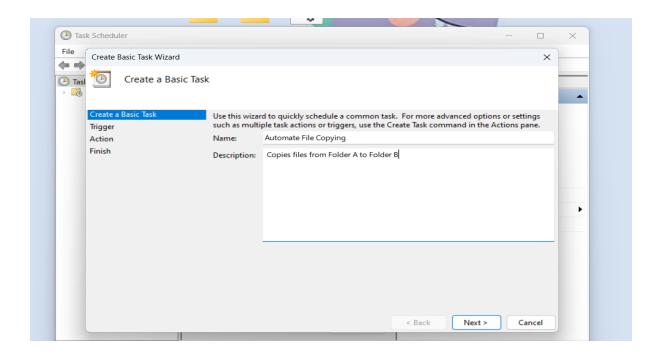
Step 7:

1. Enter a Name for the Task:

For example: "Automate File Copying".(This can be anything that helps you remember what the task does.)

Optionally, you can add a description like "Copies files from folder A to folder B".

2. Click Next to continue.



Step 8:

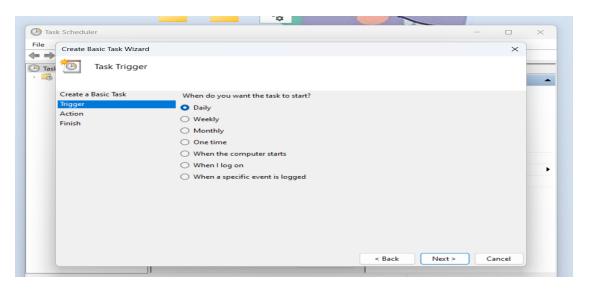
Choose a Schedule:

You will see options like:

Daily (runs every day).

Weekly (runs once a week).

One time (runs only once at a specific time).



Step 9:

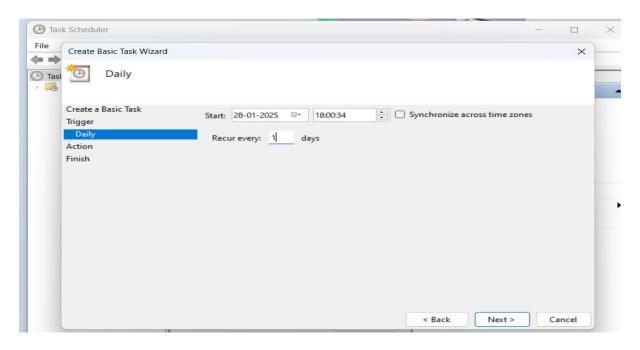
Set the Time and Frequency:

If you chose Daily, specify:

The start date (it defaults to today).

The time (e.g., 10:00 AM).

Click Next to move on.



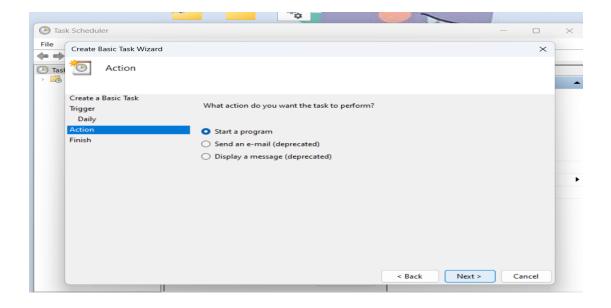
Step 10:

Set the Action

Now, we tell Task Scheduler what to do when it runs.

Select "Start a Program":

On the "Action" screen, select the option "Start a Program" and click Next.



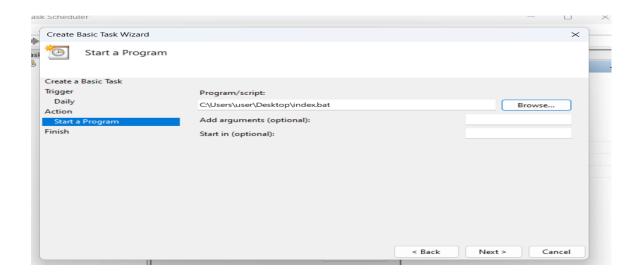
Step 11:

Point to the Program or Script:

In the Program/script field, click **Browse** and navigate to the location of your .bat file.

Example: If your script is named index.bat and saved on the desktop, navigate to that file and select it.

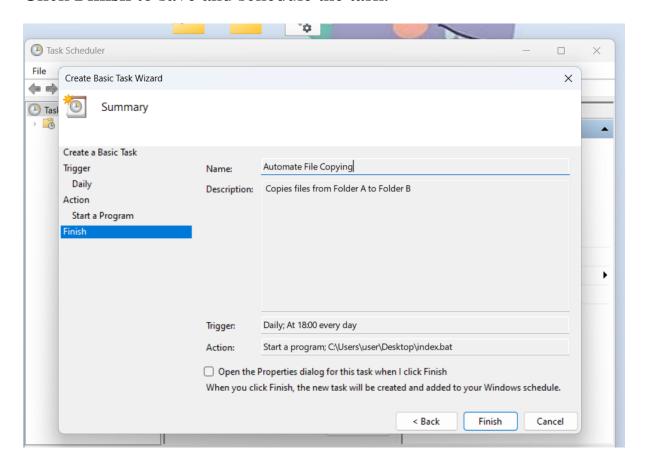
Click Next.



Step 12:

Review and Finish

Click **Finish** to save and schedule the task.



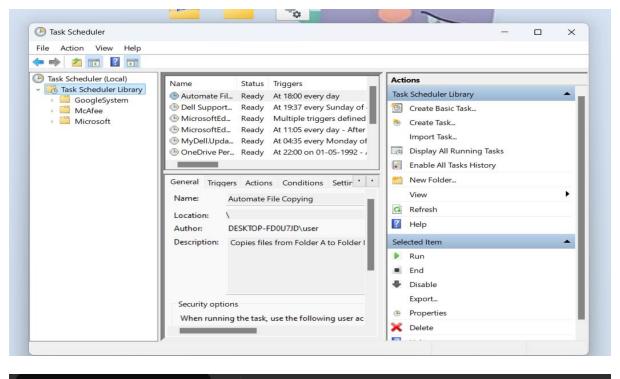
Step 13:

In Task Scheduler, go to the **Task Scheduler Library** (on the left-hand side).

Find your task (it should have the name you gave it, e.g., "Automate File Copying").

Right-click the task and select Run.

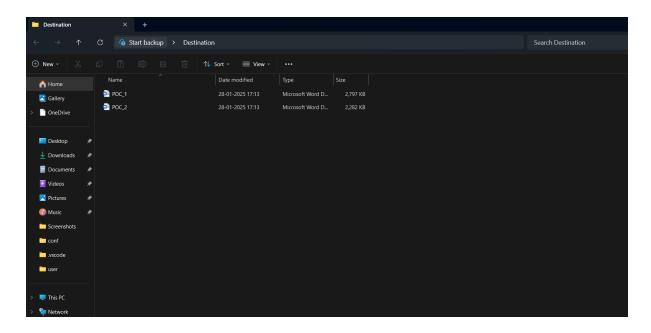
This will manually trigger the task immediately.



```
C:\Users\user\Desktop\source\POC_1.docx
C:\Users\user\Desktop\source\POC_2.docx
2 File(s) copied
Files copied successfully!
Press any key to continue . . .
```

Step 14:

If your task was set up to copy files, go to the destination folder and confirm that the files have been copied.



Outcome:

By completing this Proof of Concept (PoC) of automating a task using Task Scheduler, you will:

- 1. Successfully set up an automated task that triggers on a schedule or when manually run.
- 2. Execute a batch script to copy files from a source folder to a destination folder automatically.
- 3. Understand how to use Task Scheduler to automate repetitive tasks in Windows.
- 4. Gain familiarity with task triggers, actions, and conditions in Task Scheduler.
- 5. Save time and ensure consistent execution of file operations without manual intervention.
- 6. Optionally test the task to verify that it runs as expected and achieves the desired outcome.
- 7. Enhance your workflow automation skills with practical hands-on experience.