St. JOSEPH'S GROUP OF INSTITUTIONS
OMR, CHENNAI - 119

aws

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 and Overview

Automating file backups is crucial for data security and efficiency. In Windows, the xcopy command allows for quick file transfers between directories. By writing a simple batch script using xcopy, we can automate the copying of files from one folder to another. To schedule this script, we use Task Scheduler in Windows or cron in Linux/macOS for periodic execution. This ensures that critical files are regularly backed up without manual intervention.

Objective

The goal of this project is to:

1. **Automate File Backup** – Ensure important files are copied from one folder to another without manual effort.
2. **Enhance Data Security** – Maintain up-to-date backups to prevent data loss due to accidental deletion or system failures.
3. **Schedule Regular Execution** – Use Task Scheduler (Windows) or cron (Linux/macOS) to run the script at defined intervals for consistency.

Importance of Cloud CLI

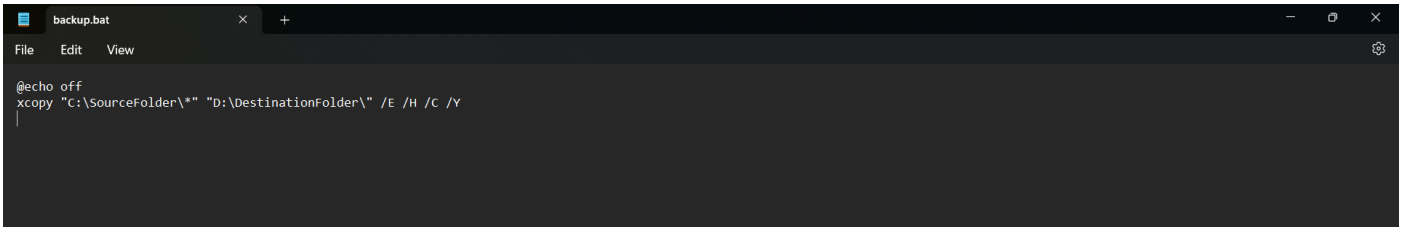
1. **Prevents Data Loss** – Ensures critical files are backed up regularly, reducing the risk of accidental deletion or system failures.
2. **Saves Time & Effort** – Automates the backup process, eliminating the need for manual copying.
3. **Ensures Consistency** – Scheduled execution guarantees that backups are performed at regular intervals without missing any files.
4. **Improves Disaster Recovery** – Provides a reliable backup solution, enabling quick file restoration in case of corruption or hardware failure.

Step-by-Step Overview

Step1: Create the Script

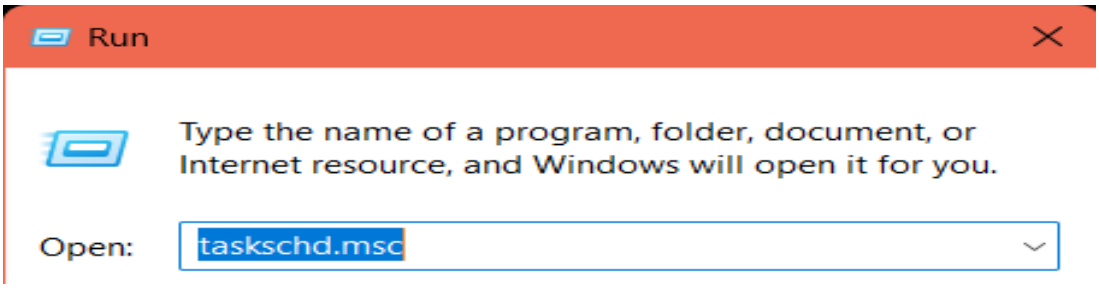
1. Open **Notepad**.
2. Copy and paste the following script:
3. @echo off

   xcopy "C:\SourceFolder*" "D:\DestinationFolder\" /E /H /C /Y
4. Click **File > Save As**.
5. Choose **All Files** as the file type.
6. Save the file as backup.bat (ensure the .bat extension is used instead of .txt).



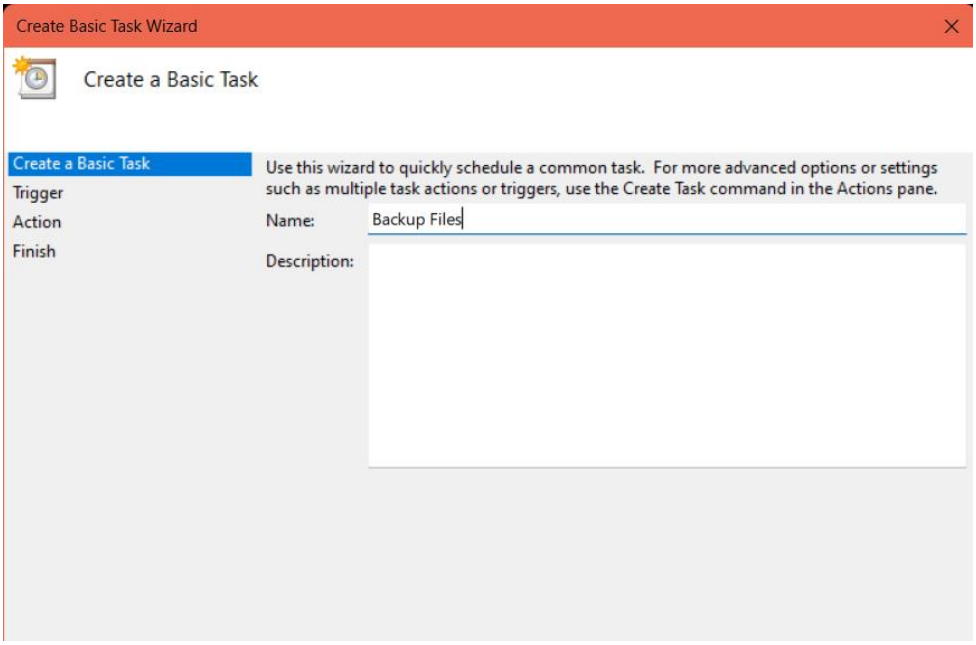
Step 2:

Press **Win + R**, type `taskschd.msc`, and press **Enter**.



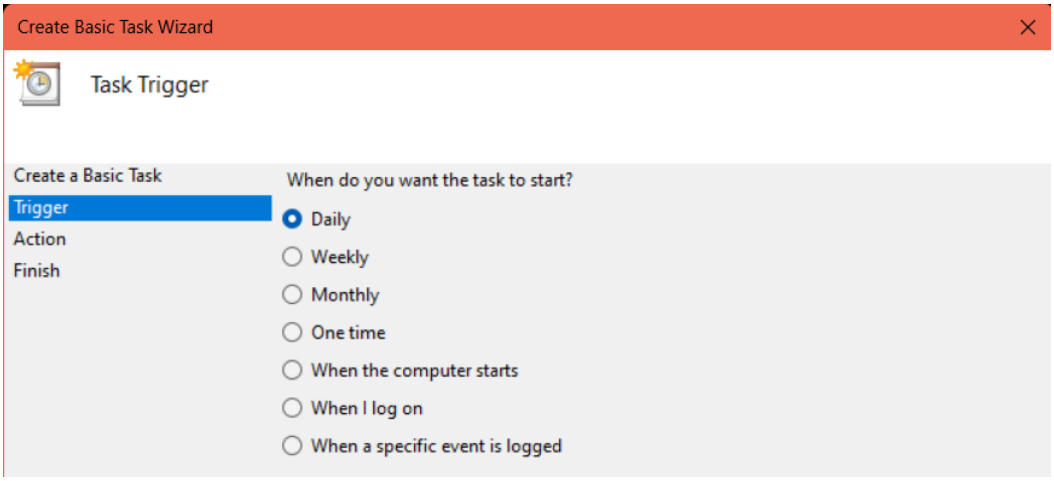
Step 3:

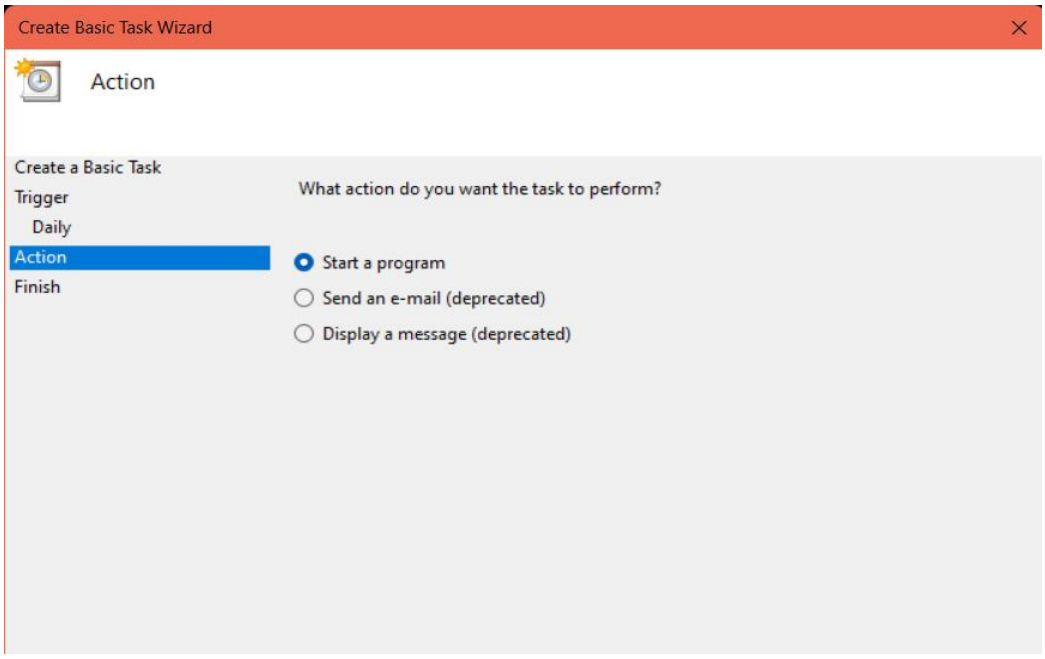
Click **Create Basic Task** in the right panel. Enter a name (e.g., "Backup Files") and click Next.



Step 4:

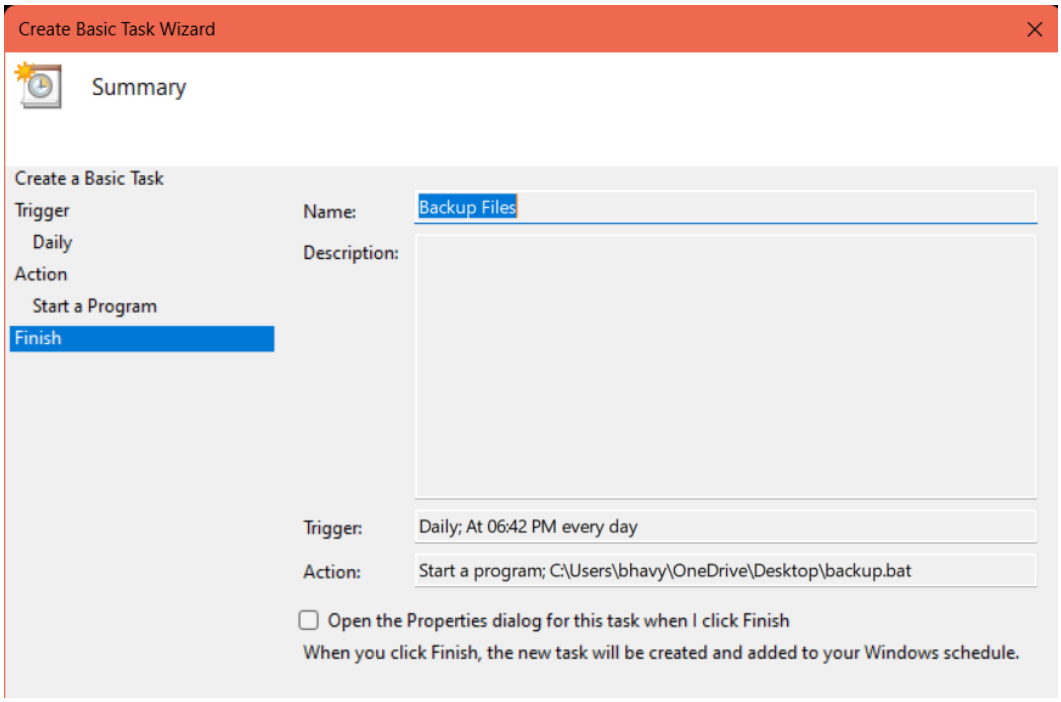
Select a trigger (e.g., Daily) and set the desired time. Click Next. Choose Start a Program and click Next.





Step 5:

Browse and select backup.bat, then click Next. Click Finish to schedule the task.



Expected Outcome

By completing this POC, you will:

1. **Automated File Backup** – The script will copy all files from the source folder to the destination folder without manual intervention.
2. **Scheduled Execution** – The backup process will run at predefined intervals using Task Scheduler (Windows) or cron (Linux/macOS).
3. **Data Integrity & Security** – Important files will be consistently backed up, reducing the risk of data loss or corruption.
4. **Improved Efficiency** – Users will save time and effort by automating the backup process, ensuring seamless and reliable data management.