

# **Placement Empowerment Program**

## ***Cloud Computing and DevOps Centre***

### **Simple backup script**

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## Objective

Create a simple script to automatically back up important files from one folder to another, ensuring data safety and easy recovery.

## Introduction

Regular backups are essential to protect critical data from accidental deletion, corruption, or system failures. Automating the backup process reduces manual effort and ensures that files are always up-to-date. This Proof of Concept (PoC) demonstrates how to create a simple backup script using a batch file in Windows. The script copies files from a source directory to a backup location, maintaining data integrity and security.

## Overview

1. **Creating a Backup Script:** Write a batch script to automate file copying.
2. **Scheduling the Backup:** Use Windows Task Scheduler to run the script automatically.
3. **Verifying Backup Success:** Ensure files are copied correctly to the backup folder.

## Objectives

By the end of this PoC, you will:

1. Understand the importance of automated backups.
2. Create a batch script to back up files.
3. Schedule the script to run at specific intervals.
4. Verify that the backup process works correctly.

## Importance of Automating File Backup

- **Data Protection:** Safeguard important files against accidental loss.
- **Time-Saving:** Eliminate manual backups.
- **Recovery Assurance:** Ensure quick restoration of data when needed.

## Step-by-Step Guide

### Step 1: Create Source and Backup Folders

1. Create two folders:
  - C:\SourceFolder (where the original files are stored).
  - C:\BackupFolder (where the files will be backed up).

### Step 2: Write the Backup Script

1. Open Notepad and type the following batch script:
2. @echo off
3. xcopy "C:\SourceFolder\\*" "C:\BackupFolder" /E /H /C /I

echo Backup completed successfully!

4. Save the file as backup.bat.

### Step 3: Test the Script

1. Double-click backup.bat to run it.
2. Check C:\BackupFolder to confirm that files have been copied.

### Step 4: Schedule Automatic Backups

1. Press **Win + R**, type taskschd.msc, and press Enter.
2. Click **Create Basic Task**.
3. Enter a **name and description** (e.g., "Automated Backup").
4. Click **Next**.

### Step 5: Set Up Backup Frequency

1. Choose a schedule (**Daily, Weekly, One-time**, etc.).

2. Set the **start date and time**.
3. Click **Next**.

### **Step 6: Configure the Action**

1. Select **Start a Program** and click **Next**.
2. Browse and select backup.bat.
3. Click **Next**, then **Finish**.

### **Step 7: Verify Backup Process**

1. Open **Task Scheduler Library**.
2. Right-click your task and select **Run**.
3. Check C:\BackupFolder to confirm that the backup was successful.