

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.