



# Placement Empowerment Program Cloud Computing and DevOps Centre

## **Create a Simple Backup Script**

Create a script that backups up your entire Git repository to a local folder daily

Name: Prince Jaiswal J

Department: IT

Reg no:312323205172



## Introduction

Automating Git repository backups helps prevent data loss by regularly saving copies of your repositories. This guide will walk you through creating a simple script using tar (Linux/macOS) or robocopy (Windows) to back up your Git repositories to a local folder daily, with automation via cron or Task Scheduler.

### **Overview**

This project involves creating an automated backup script for Git repositories using shell scripting (tar) on Linux/macOS or batch scripting (robocopy) on Windows. The script will copy repositories to a designated backup folder daily, ensuring data safety. Automation will be handled using cron jobs (Linux/macOS) or Task Scheduler (Windows), eliminating the need for manual backups.

## **Objectives**

#### **Objectives:**

- Automate daily backups of Git repositories to a local folder.
- Use shell scripting (tar) for Linux/macOS and batch scripting (robocopy) for Windows.
- Ensure data safety by maintaining up-to-date repository copies.
- Implement task automation using cron (Linux/macOS) or Task Scheduler (Windows).
- Minimize manual effort while securing repository data efficiently.

## **Step-by-Step Overview Step**

1

#### **Choose Your Backup Location**

Decide where you want to store your backup files.

• Example for **Windows**: C:\GitBackups\



## Step 2

#### **Create the Backup Script**

1. Open Notepad and paste the following script:

2. Save the file as backup\_git.bat.

3.Double-click the script to test if it runs successfully.

## Step 3

#### **Automate the Backup**

Open **Task Scheduler** (Win + R, then type taskschd.msc).

Click Create Basic Task.

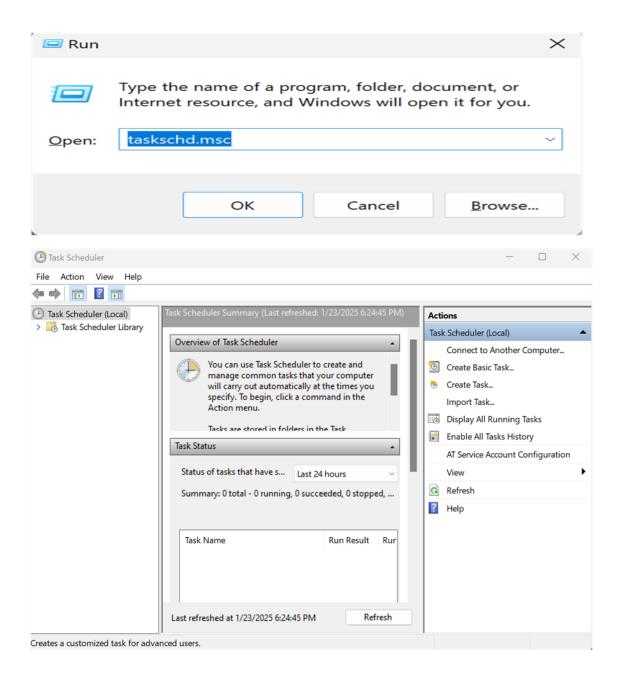
Name it Git Backup and click Next.

Choose Daily, then click Next.

Set the time you want the script to run (e.g., 2:00 AM), then click Next.

Choose **Start a Program**, then **Browse** for backup\_git.bat.

Click Finish.



## Step 4

#### **Step 4: Verify Your Backups**

- Check the **backup directory** (~/git\_backups on Linux/macOS or C:\GitBackups on Windows) to ensure backups are created.
- Open a backup file to confirm it contains your Git repository.