



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

## **PLACEMENT EMPOWERMENT PROGRAM**

### **Cloud Computing & DevOps Centre**

Create a simple Backup Script: Create a script that backs up your entire Git Repo to a local folder daily.

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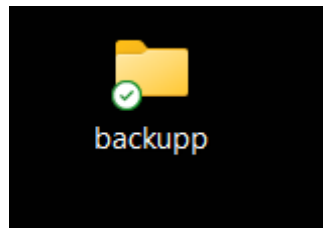
**Reg number:** 312323205172

## INTRODUCTION

In today's fast-paced development environment, ensuring that your code and version history are safely backed up is critical to avoid any loss of important work. One effective way to achieve this is by automating the process of backing up your *Git* repository to a local folder on a regular basis. By creating a simple backup script, you can ensure that your entire *Git* repository, including all branches, commits, and history, is securely copied to a backup location without any manual intervention. Automating the backup process daily not only provides peace of mind but also saves time and reduces the risk of human error. In this script, we will explore how to use basic shell scripting combined with *Git* commands to automate the backup of a *Git* repository to a local folder every day. This approach will ensure that even in the event of an unexpected system failure or data loss, you will have a secure copy of your entire repository, enabling you to restore your project with ease.

## Step-by-step process

**Step 1:** Create a folder in your desktop for backing up files.

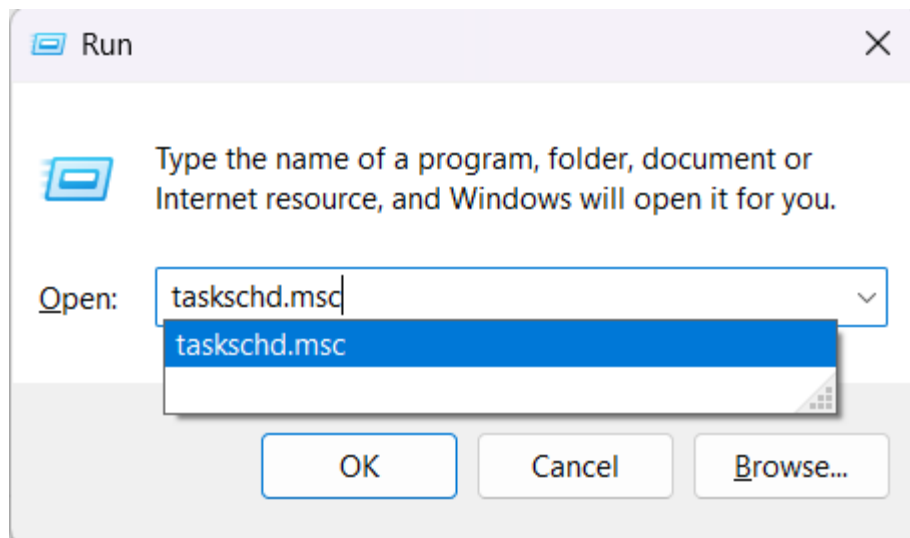


**Step 2:** Open the notepad and type this script given below.

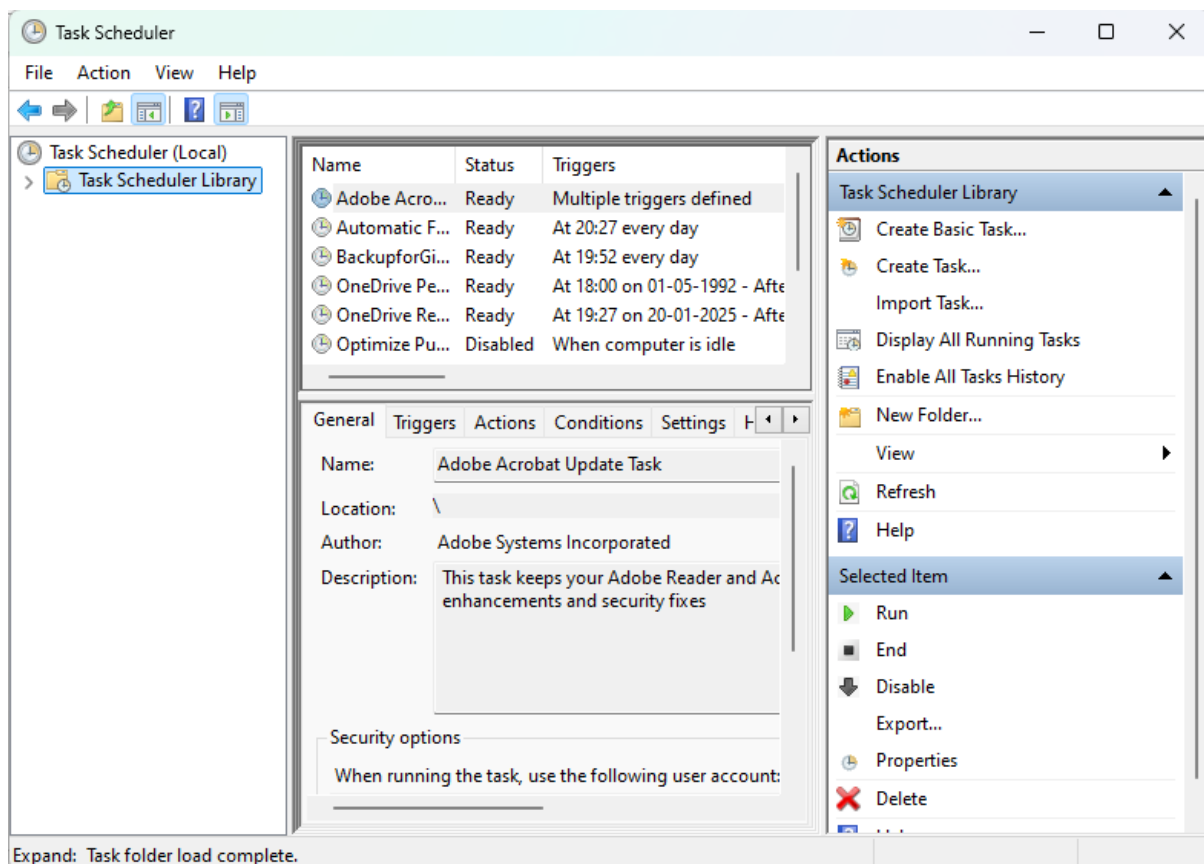
```
index
File Edit View

@echo off
:: variables
set REPO_URL=https://github.com/PrinceJaiswal022/poc-3
set BACKUP_DIR=C:\Users\EM688446\OneDrive - Everrenew Energy Private Limited\Desktop\GithubBp Backup Folder
set CURRENT_DATE=%Date:~10,45-%Date:~4,25-%Date:~7,25
:: Ensure backup directory exists
if not exist "%BACKUP_DIR%" mkdir "%BACKUP_DIR%"
:: Navigate to the backup directory
cd /d "%BACKUP_DIR%"
:: Check if the repository is already cloned
if not exist "repo" (
    echo Cloning repository for the first time...
) else(
    git clone %REPO_URL% repo
    echo Repository already exists. Pulling the latest changes...
    cd repo
    git pull
)
cd ..
:: create a timestamped backup
set BACKUP_ARCHIVE=repo-backup-%CURRENT_DATE%.zip
echo Creating a compressed backup: %BACKUP_ARCHIVE%
powershell Compress-Archive -Path repo -DestinationPath "%BACKUP_ARCHIVE%"
echo Backup complete: %BACKUP_ARCHIVE%
```

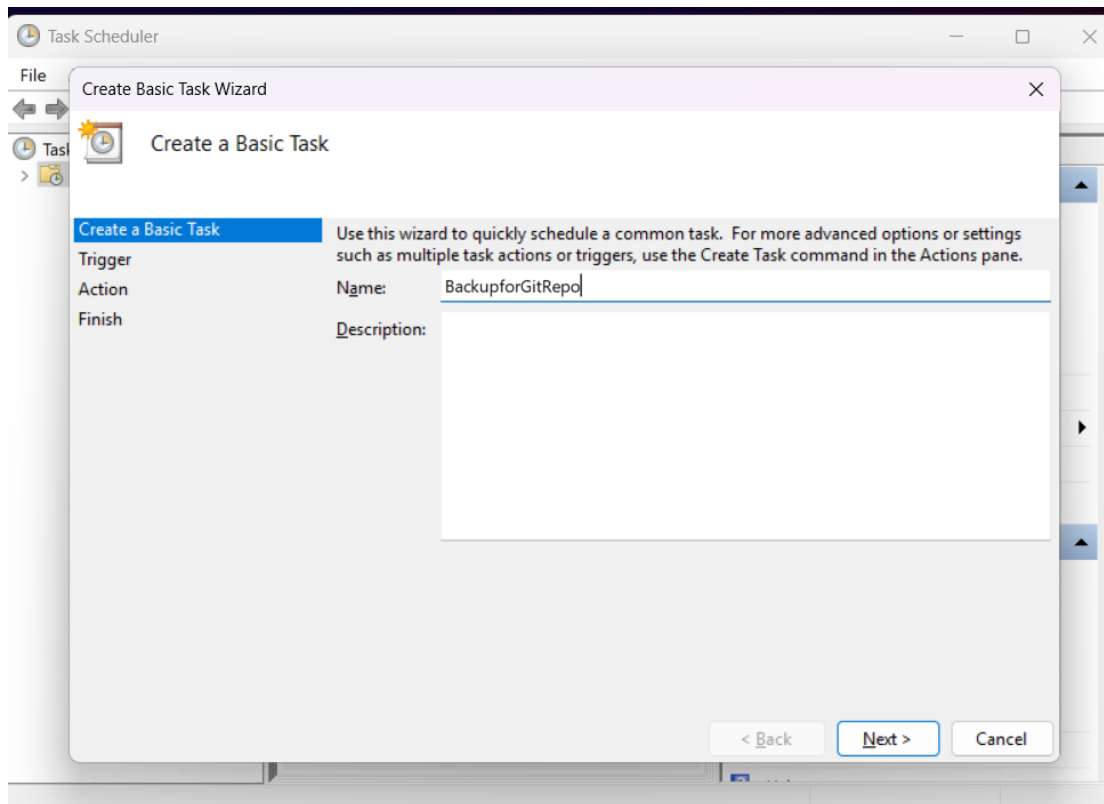
**Step 3:** Open Windows+r on. Type taskschd.msc in the run box.



## Step 4: Create a basic task in the Task Scheduler.

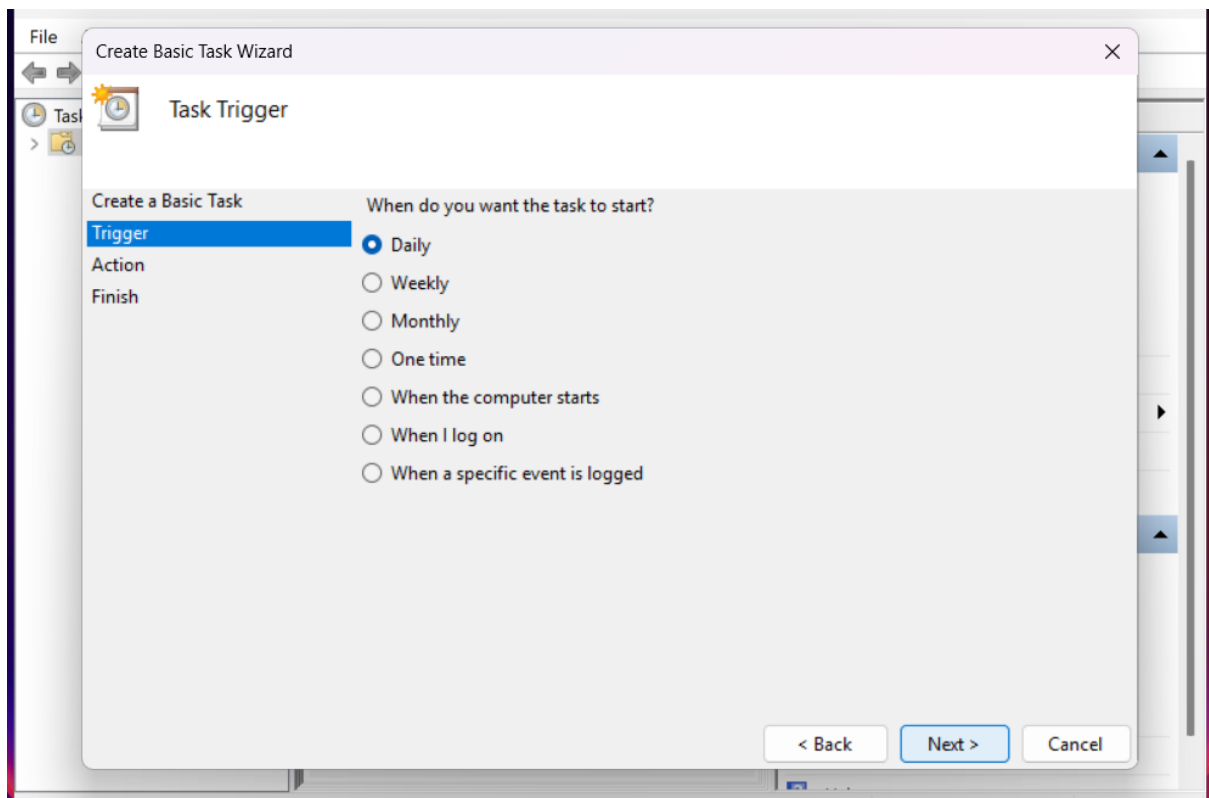
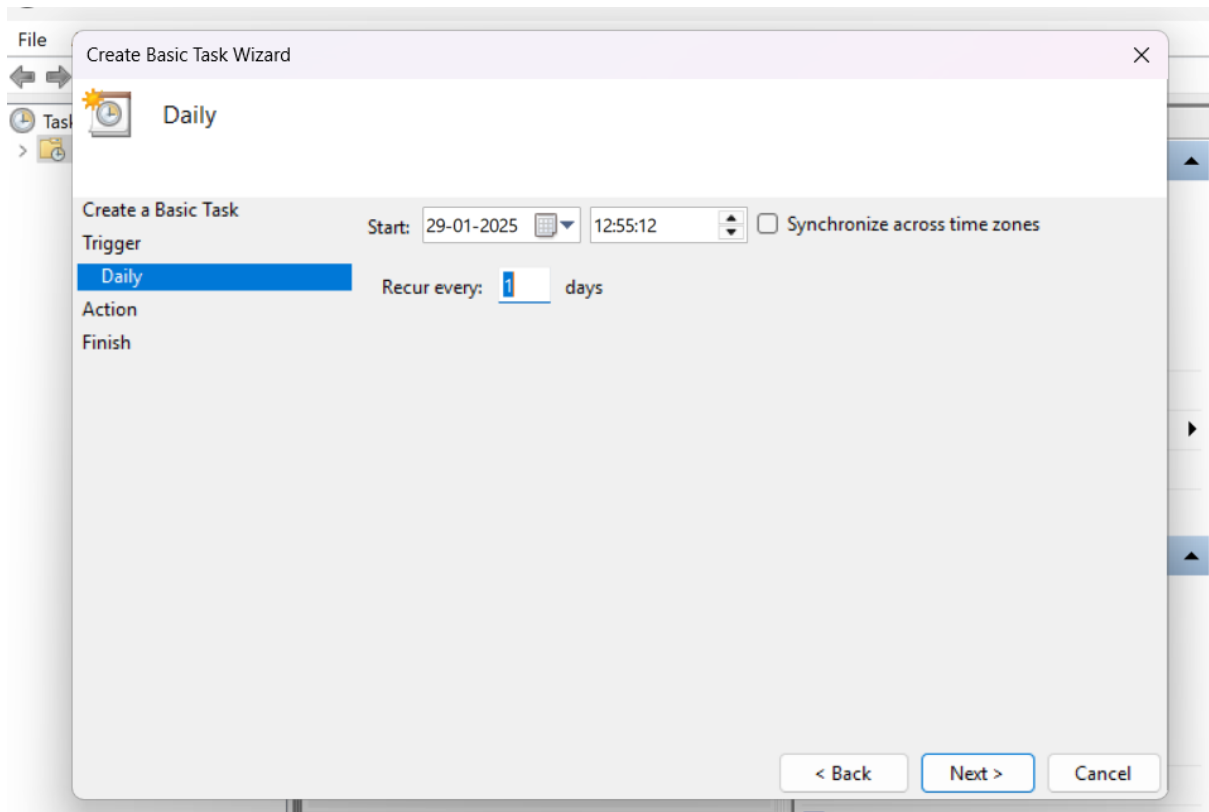


**Step 5:** Enter a name for the task you are going to perform.

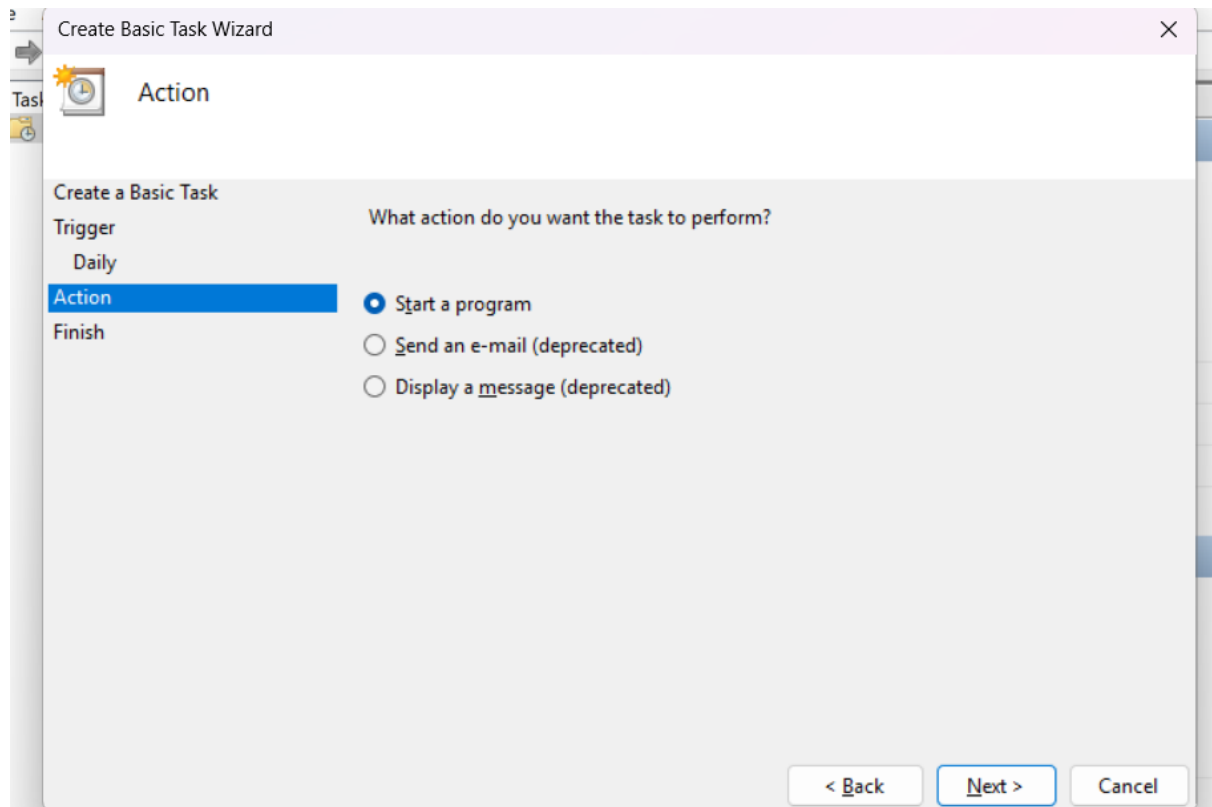


**Step 6:** Set the frequency and time, also schedule whether the backup is going to be done:

- Daily
- Weekly
- Monthly
- One time
- When the computer starts
- When I log on
- When a specific event is logged

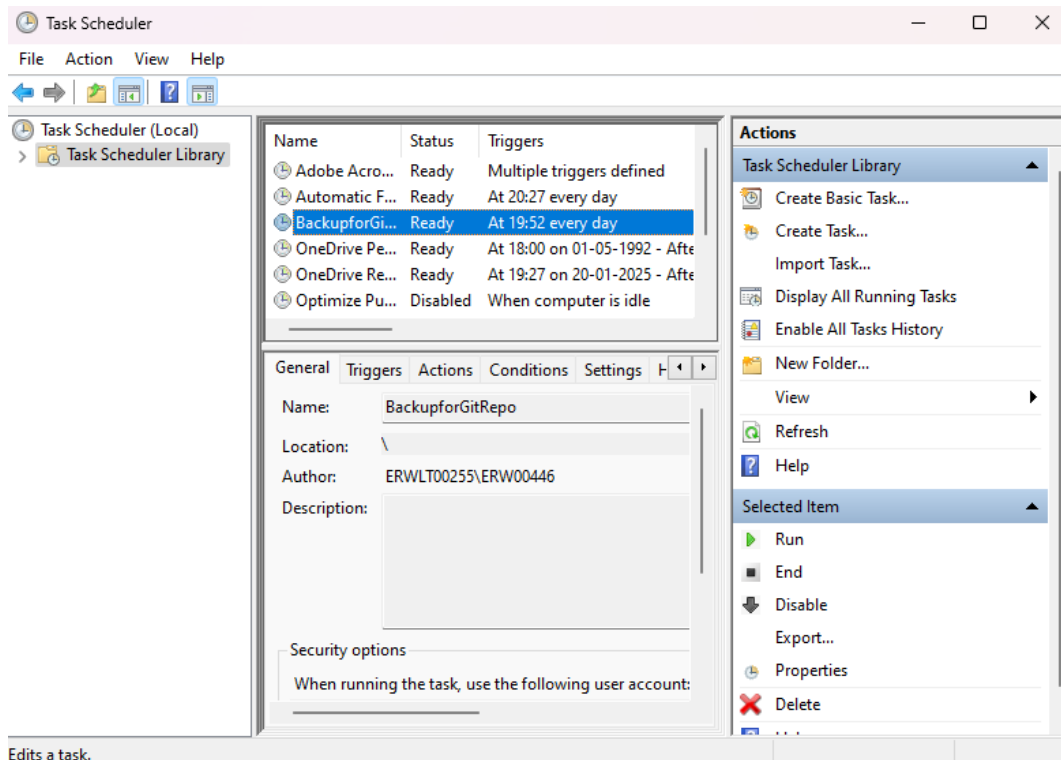


**Step 8:** Set the Action and once done select "START THE PROGRAM" as action.



**Step 9:** Browse your bat file and upload it.

**Step 10:** Once done with all click on finish. Then go to the home page and select the task that you want to run, and click on run.



**Step 11:** Once done the cmd prompt will pop up.



**Step 12:** You can go to the folder and check whether the file has been backed up or not.