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OMR, CHENNAI - 119

PLACEMENT EMPOWERMENT PROGRAM

Cloud Computing & DevOps Center

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

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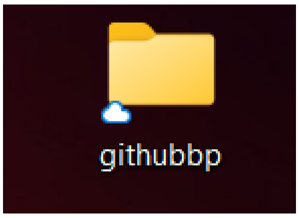
INTRODUCTION

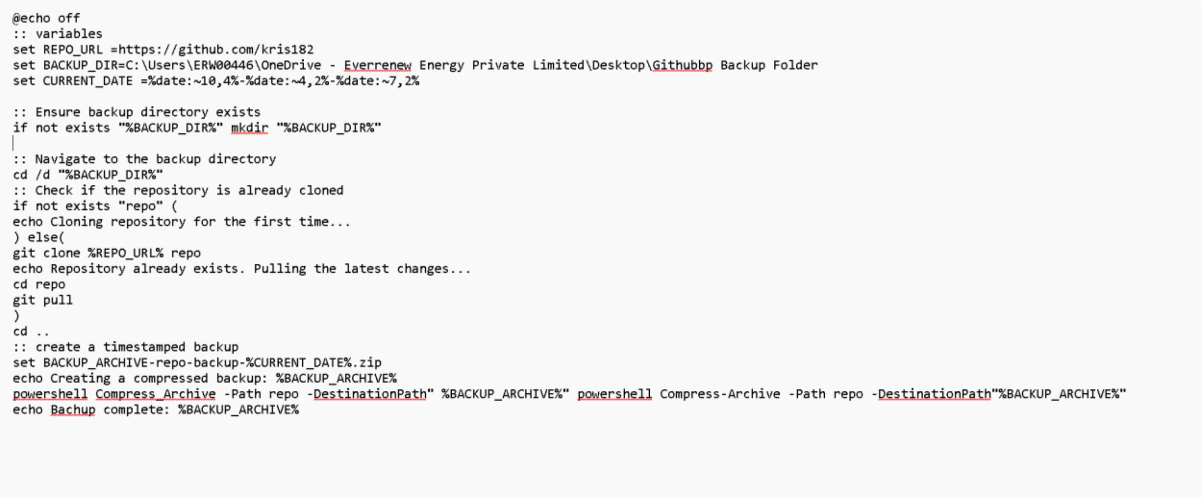
In today's fast-paced development environment, ensuring that your code and version history are safely backed up is critical to avoid any loss of important work. One effective way to achieve this is by automating the process of backing up your Git repository to a local folder on a regular basis. By creating 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.

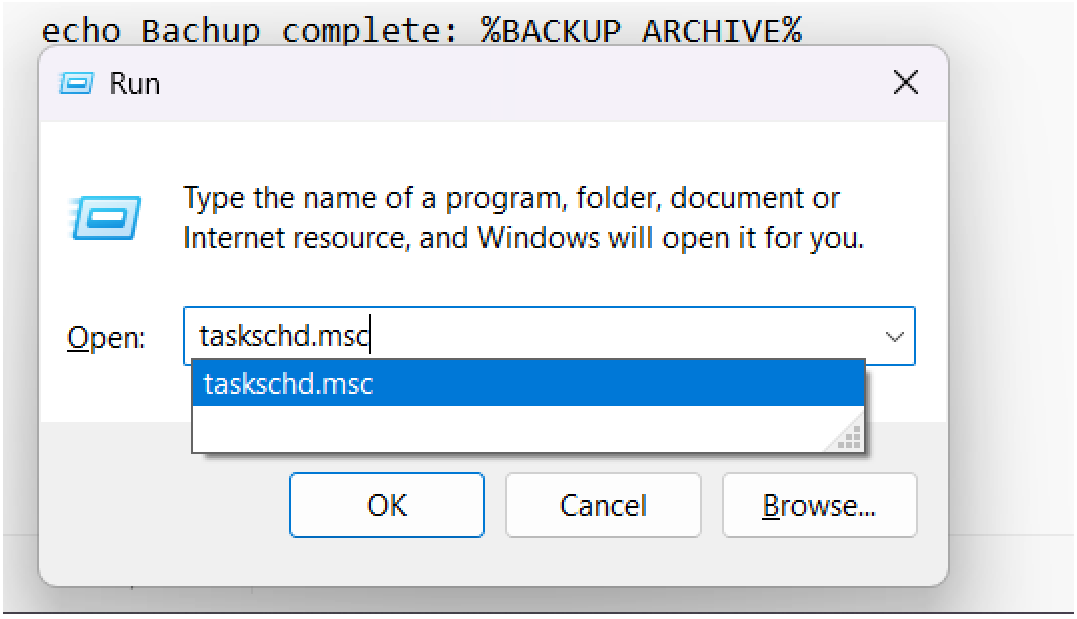


```
@echo off
:: variables
set REPO_URL =https://github.com/kris182
set BACKUP_DIR=C:\Users\ERW00446\OneDrive - Everrenew Energy Private Limited\Desktop\Githubbp Backup Folder
set CURRENT_DATE =%date:~10,4%-%date:~4,2%-%date:~7,2%

:: Ensure backup directory exists
if not exists "%BACKUP_DIR%" mkdir "%BACKUP_DIR%"

:: Navigate to the backup directory
cd /d "%BACKUP_DIR%"
:: Check if the repository is already cloned
if not exists "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%" powershell Compress-Archive -Path repo -DestinationPath"%BACKUP_ARCHIVE%"
echo Bachup complete: %BACKUP_ARCHIVE%
```

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

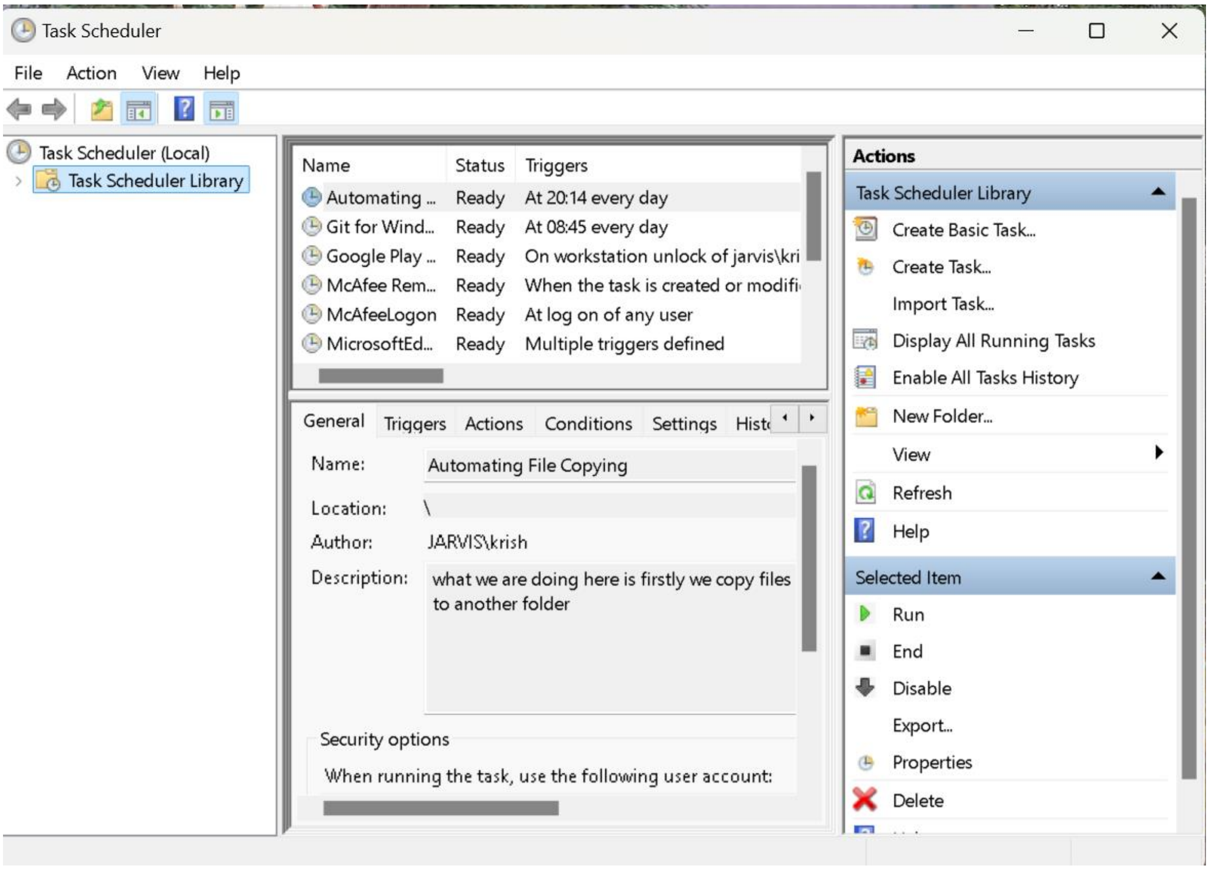


```
echo Bachup complete: %BACKUP ARCHIVE%
```

Type the name of a program, folder, document or Internet resource, and Windows will open it for you.

Open: taskschd.msc

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



Name	Status	Triggers
Automating ...	Ready	At 20:14 every day
Git for Wind...	Ready	At 08:45 every day
Google Play ...	Ready	On workstation unlock of jarvis\kri
McAfee Rem...	Ready	When the task is created or modifi
McAfeeLogon	Ready	At log on of any user
MicrosoftEd...	Ready	Multiple triggers defined

Name: Automating File Copying

Location: \

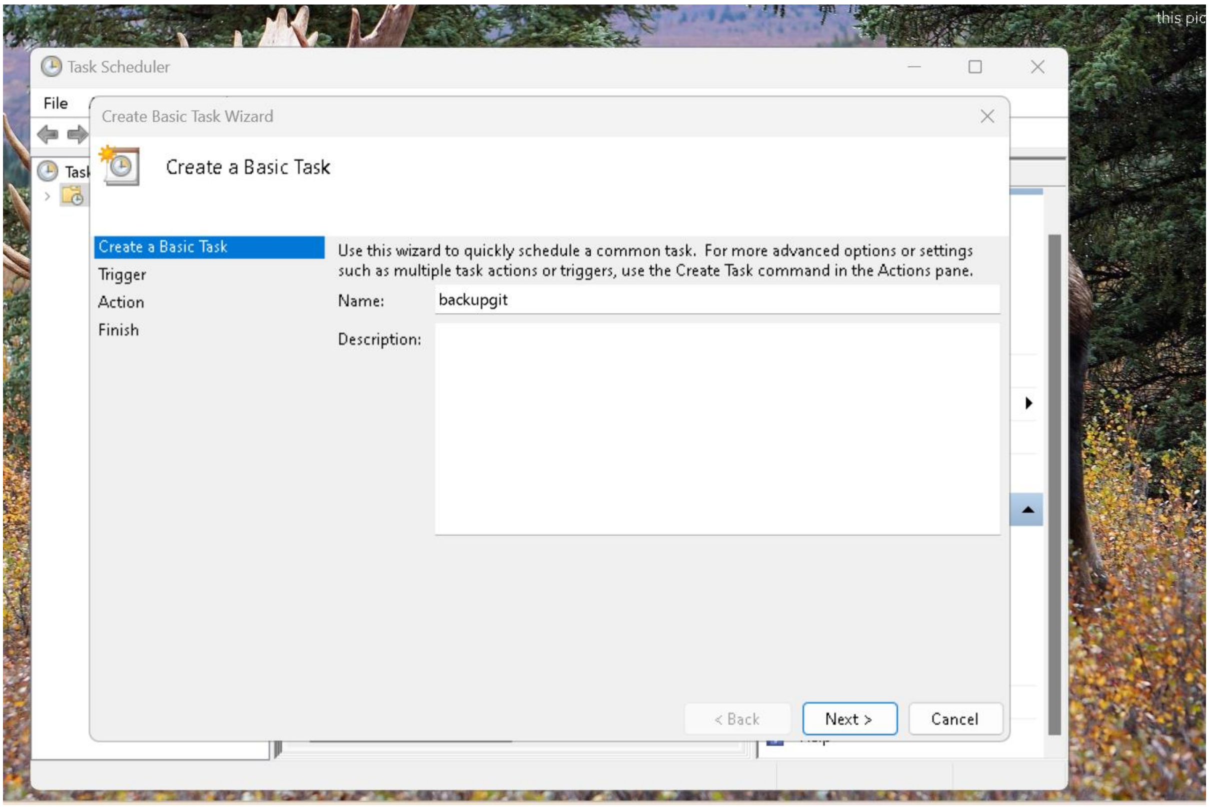
Author: JARVIS\krish

Description: what we are doing here is firstly we copy files to another folder

Security options

When running the task, use the following user account:

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



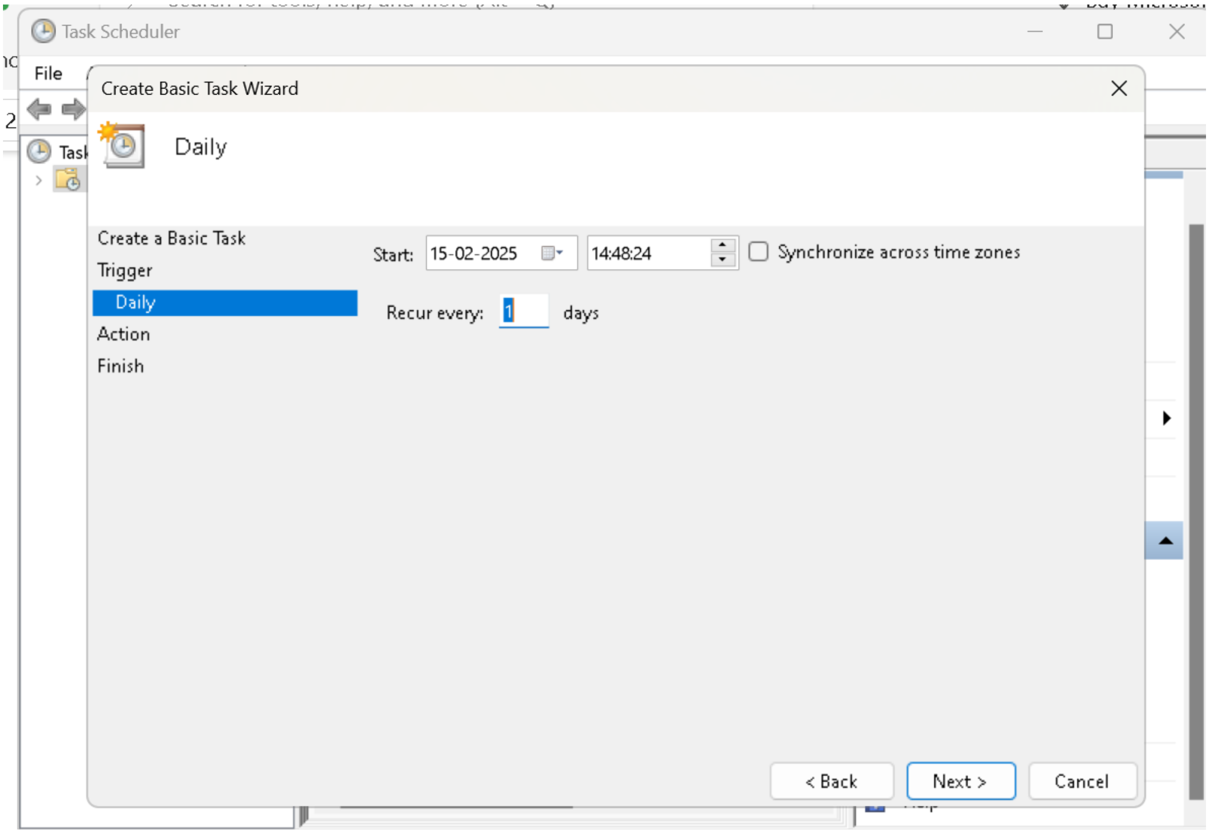
Use this wizard to quickly schedule a common task. For more advanced options or settings such as multiple task actions or triggers, use the Create Task command in the Actions pane.

Name: backupgit

Description:

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

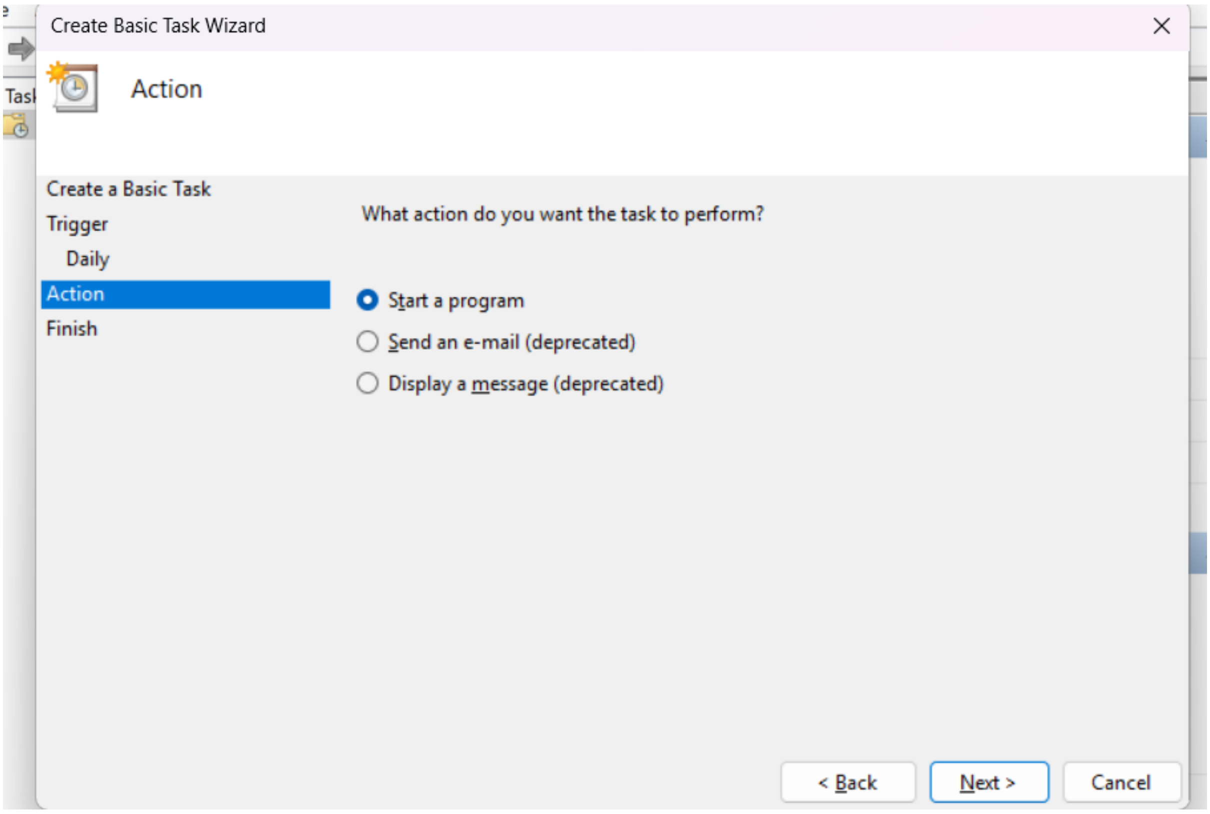
- Daily
- Weekly
- Monthly
- One time
- When the computer starts
- When I log on
- When a specific event is logged



Start: 15-02-2025 14:48:24 ☐ Synchronize across time zones

Recur every: 1 days

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



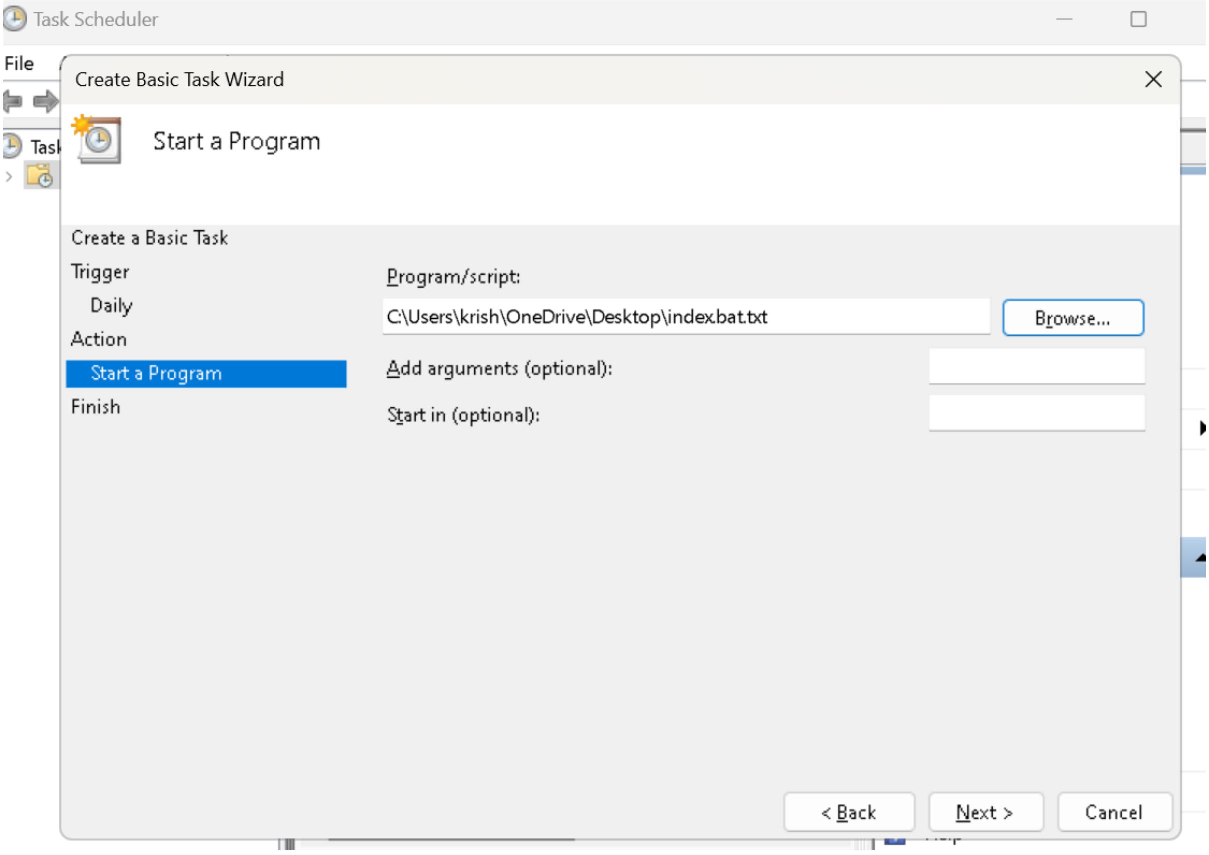
What action do you want the task to perform?

● Start a program

○ Send an e-mail (deprecated)

○ Display a message (deprecated)

Step 9: Browse your bat file and upload it.

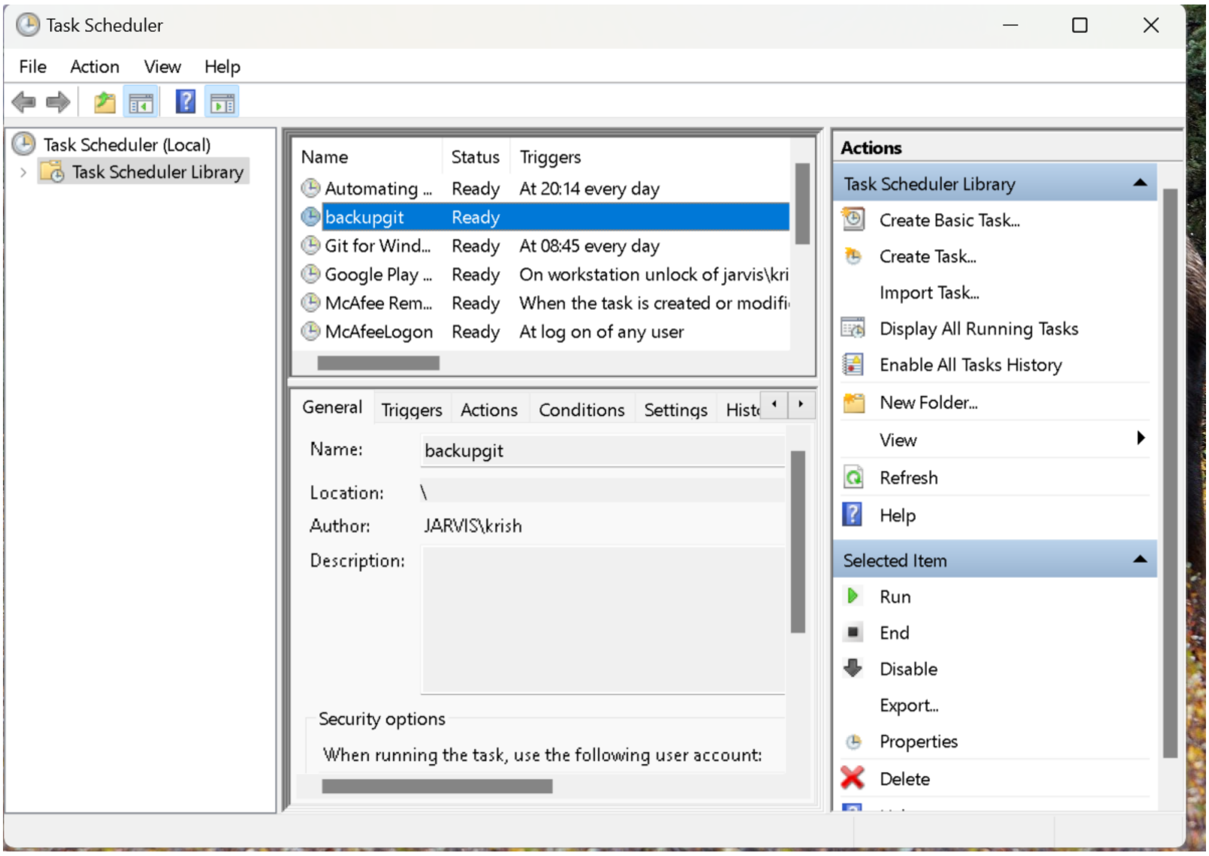


Program/script: C:\Users\krish\OneDrive\Desktop\index.bat.txt

Add arguments (optional):

Start in (optional):

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.



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McAfeeLogon	Ready	At log on of any user

Name: backupgit

Location: \

Author: JARVIS\krish

Description:

Security options

When running the task, use the following user account:

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.