

# Automatic Backup of Specific Files Using Scripting and Task Scheduler

Creating an automatic backup of specific files using a shell script and Task Scheduler.

Step 1: Create the Shell Script

## Create the .sh file:

Save the following script code in a file named `backup_script.sh`:

```
SOURCE_DIR="/d/OneDrive - Olam International/Desktop/Folder Name"
```

```
BACKUP_DIR="/d/OneDrive - Olam International/Desktop/Backup"
```

```
TIMESTAMP=$(date +%Y-%m-%d_%H-%M-%S)
```

```
BACKUP_FILE="backup_${TIMESTAMP}.tar.gz"
```

## Create Directory if not exists

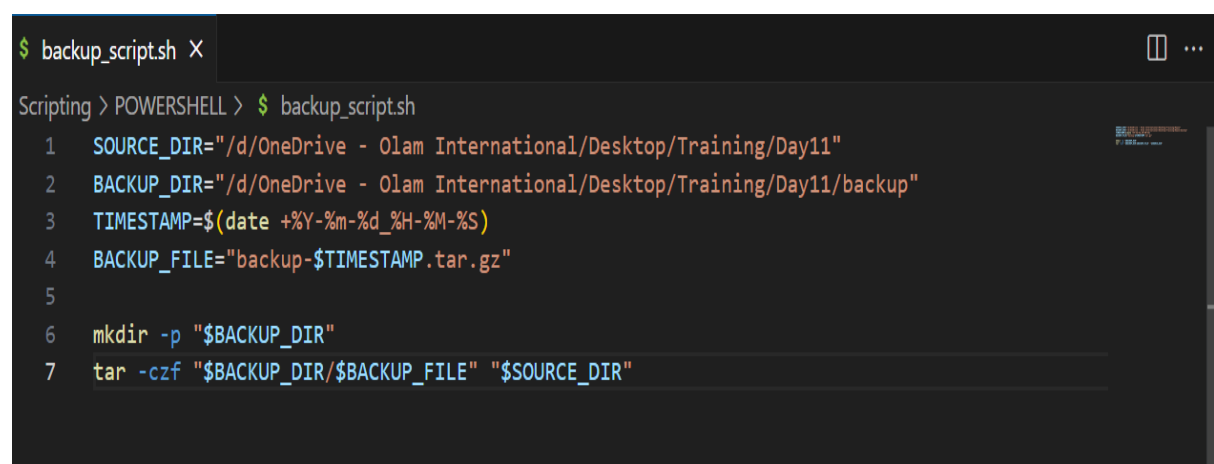
```
mkdir -p "$BACKUP_DIR"
```

## Create a compressed tar file

```
tar -czf "$BACKUP_DIR/$BACKUP_FILE" "$SOURCE_DIR"
```

```
# Create directory if not exists  
mkdir -p $BACKUP_DIR
```

```
# Create a compressed backup of the source directory  
tar -czf "$BACKUP_DIR/$BACKUP_FILE" "$SOURCE_DIR"
```



```
$ backup_script.sh X  
Scripting > POWERSHELL > $ backup_script.sh  
1 SOURCE_DIR="/d/OneDrive - Olam International/Desktop/Training/Day11"  
2 BACKUP_DIR="/d/OneDrive - Olam International/Desktop/Training/Day11/backup"  
3 TIMESTAMP=$(date +%Y-%m-%d_%H-%M-%S)  
4 BACKUP_FILE="backup-${TIMESTAMP}.tar.gz"  
5  
6 mkdir -p "$BACKUP_DIR"  
7 tar -czf "$BACKUP_DIR/$BACKUP_FILE" "$SOURCE_DIR"
```

## Run the shell script in bash:

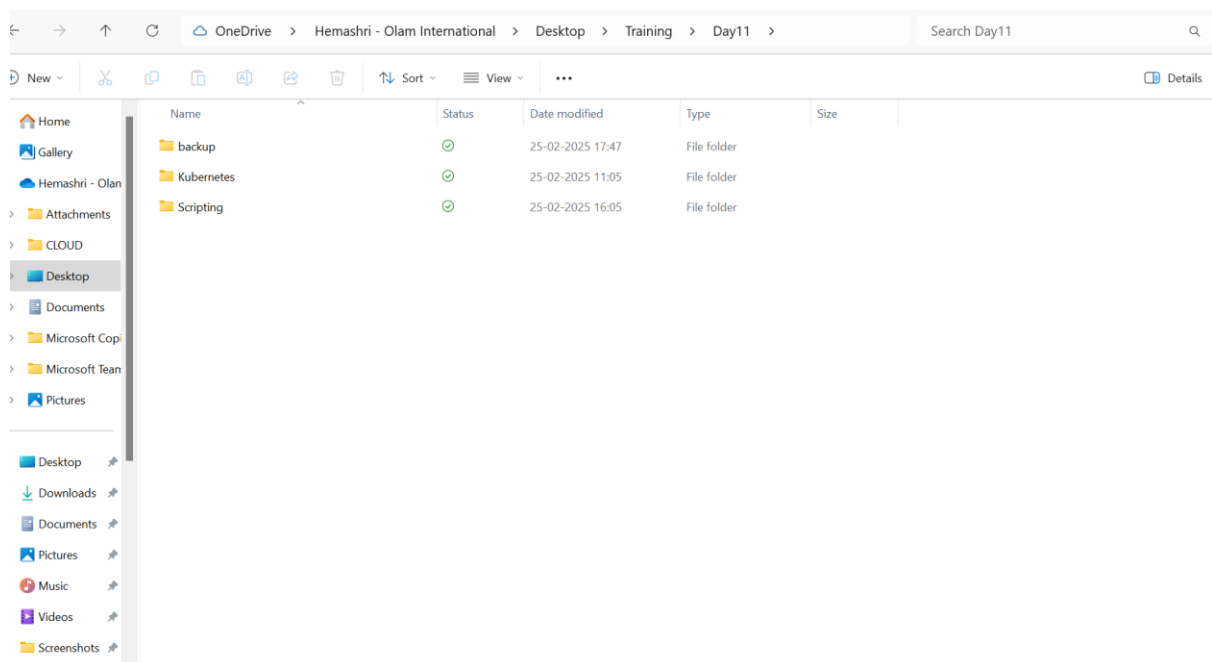
Open a terminal and navigate to the directory containing `backup.sh`.

Execute the script by running:

```
sh backup.sh
```

## Verify the backup:

A `backup` folder will be created in the script directory, containing the backup file.



## Step 2: View the Backup

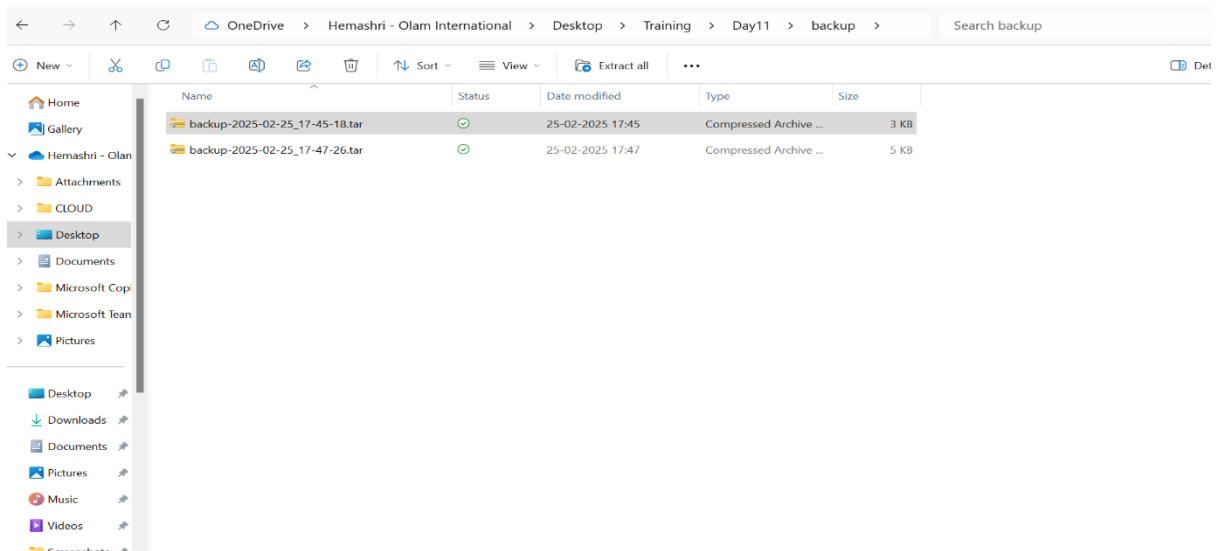
### Extract the backup file:

Navigate to the `Backup` folder and extract the `.tar.gz` file using:

```
tar -xzf backup-<TIMESTAMP>.tar.gz
```

### View the backed-up file in an IDE:

Open the extracted file in your preferred IDE to verify its contents.



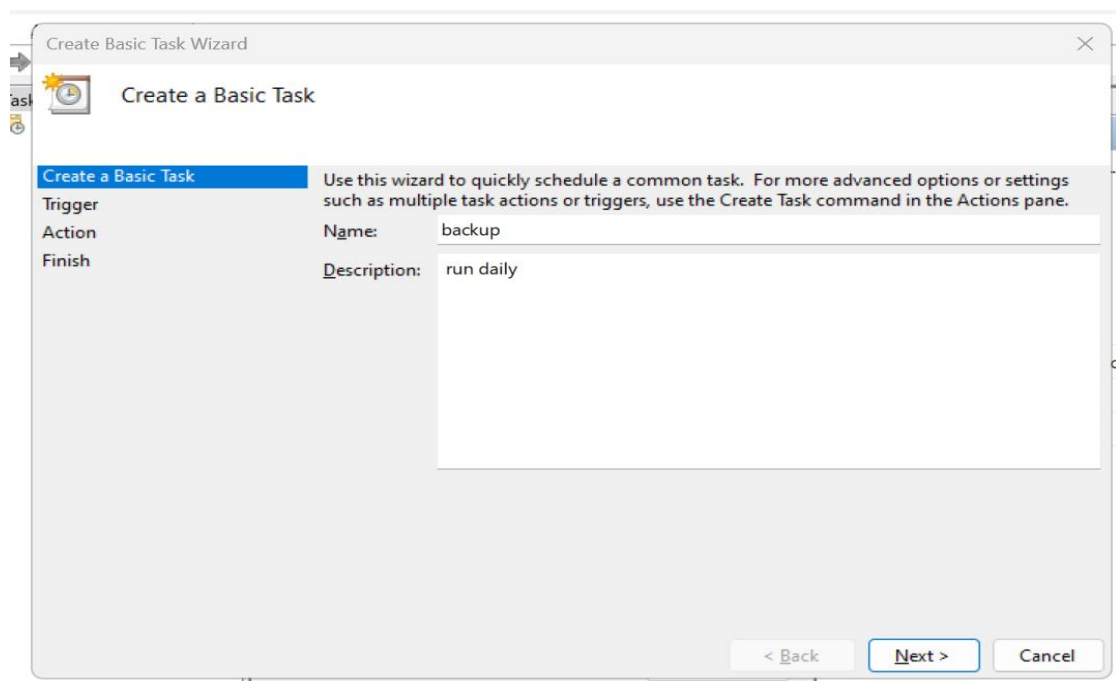
### Step 3: Automate the Backup Using Task Scheduler

#### Open Task Scheduler:

Search for "Task Scheduler" in the Start menu and open it.

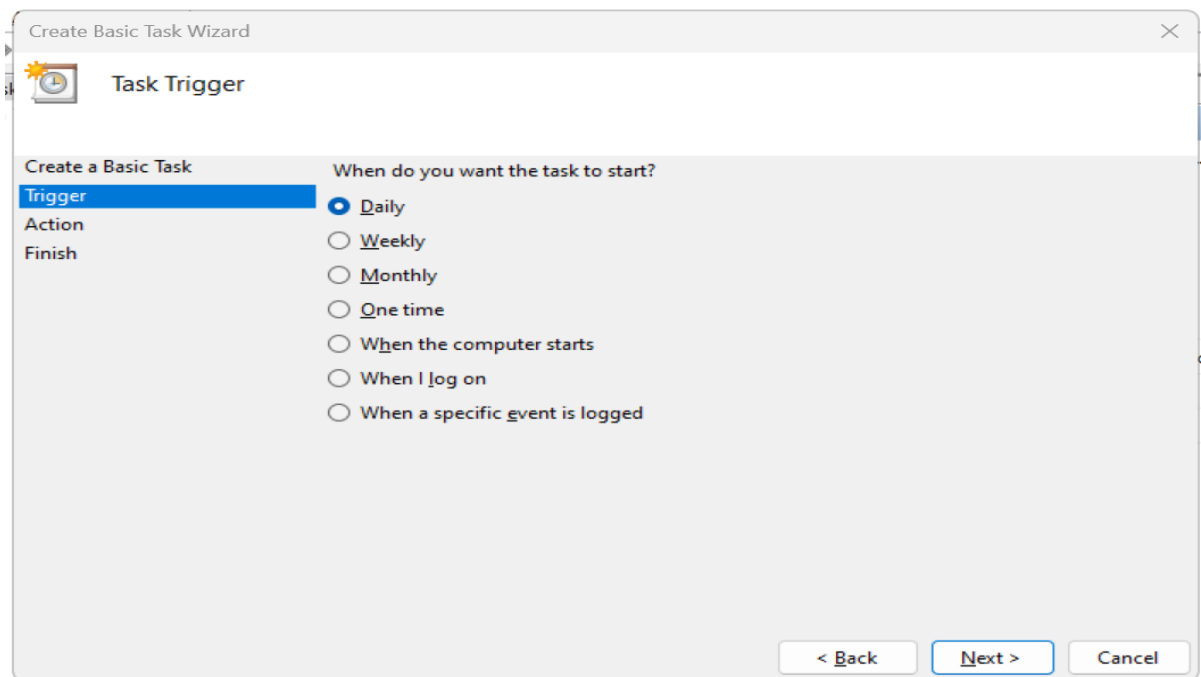
#### Create a Basic Task:

Click on "Create Basic Task" in the right-hand pane.



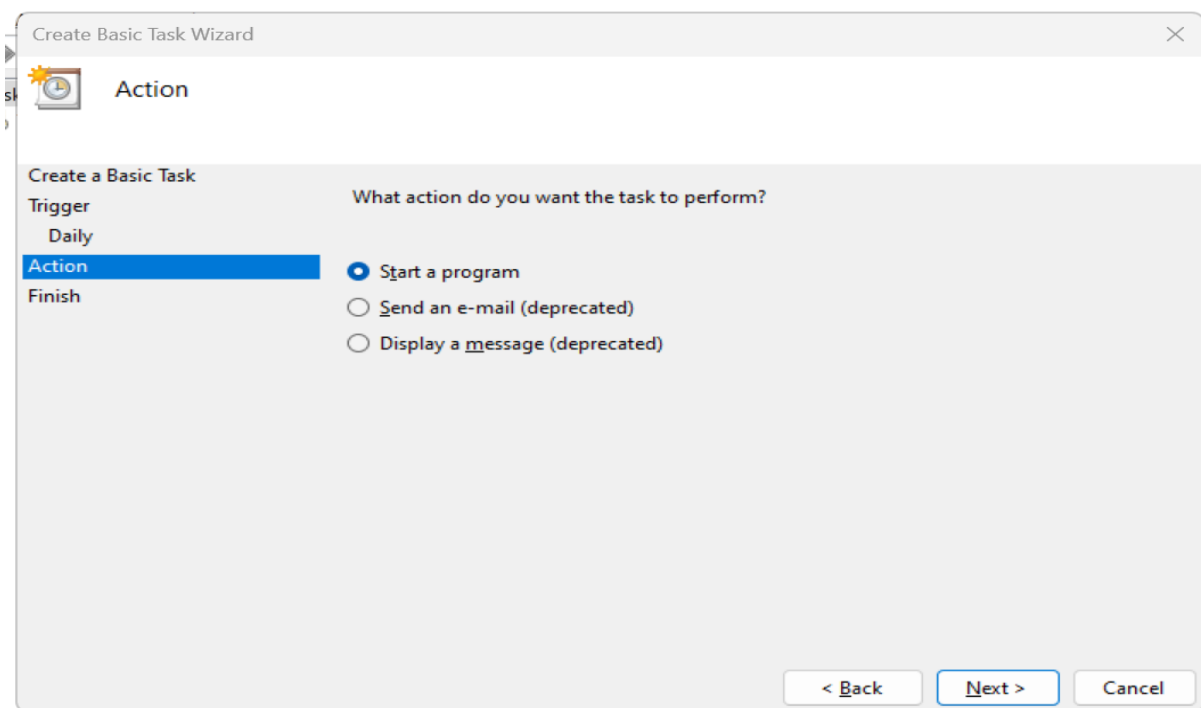
## Select a Trigger:

Choose when you want the task to run (e.g., daily, weekly).



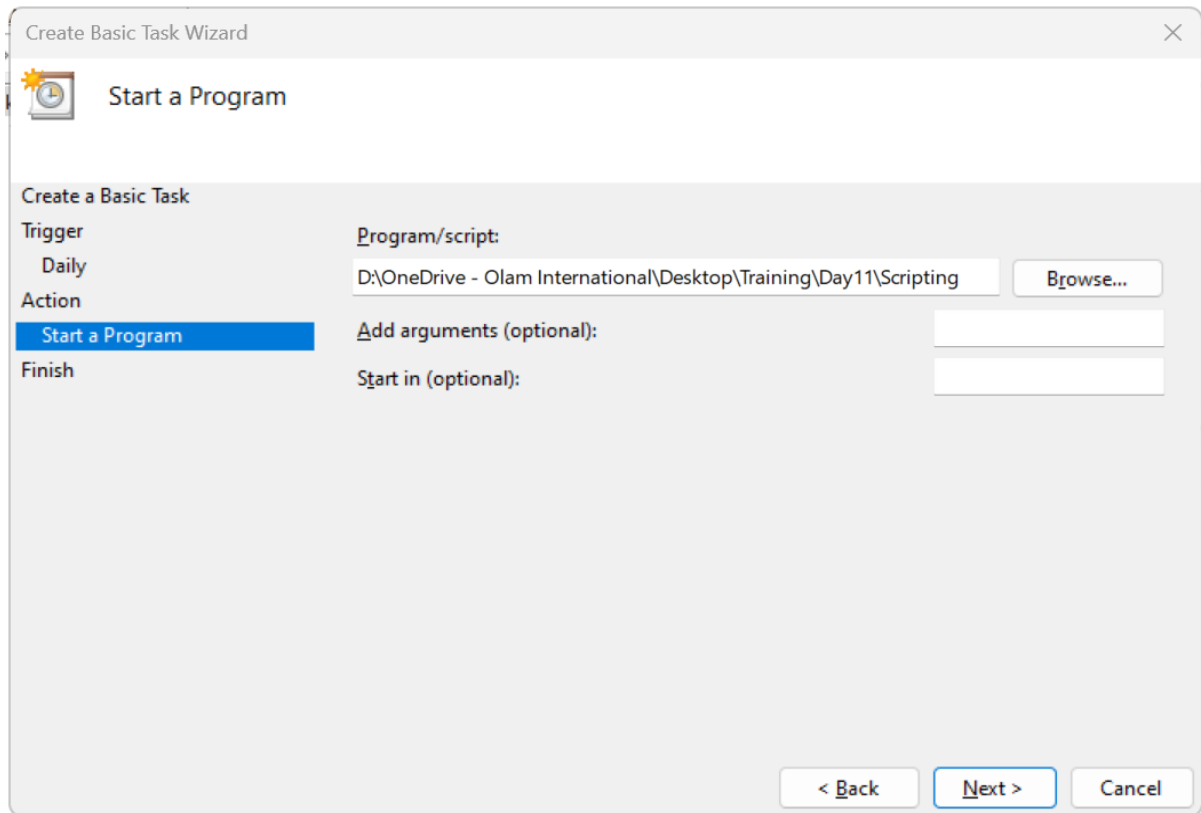
## Select an Action:

Choose "Start a Program" and browse to the location of your `backup.sh` script.



## Finish the Task Setup:

Review your settings and click "Finish".



The screenshot shows the 'Create Basic Task Wizard' window, specifically the 'Start a Program' step. The window has a title bar with the text 'Create Basic Task Wizard' and a close button. Below the title bar is a navigation pane on the left with the following items: 'Trigger', 'Daily', 'Action', 'Start a Program' (highlighted in blue), and 'Finish'. The main area of the window is titled 'Start a Program' and contains the following fields and buttons:

- Program/script:** A text box containing the path 'D:\OneDrive - Olam International\Desktop\Training\Day11\Scripting' and a 'Browse...' button to its right.
- Add arguments (optional):** An empty text box.
- Start in (optional):** An empty text box.

At the bottom right of the window are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

## Verify the Scheduled Task:

Ensure the task is listed in the Task Scheduler Library and is set to run at the specified time.