# Running Python Script with GitHub Actions

GitHub Actions allows you to automate, customize, and execute your software development workflows right in your repository.   
You can set up workflows to run on specific events, including on a schedule using cron syntax.  
  
Here's a step-by-step guide on how to set up a cron job to run a Python script using GitHub Actions:  
  
1. \*\*Create a Workflow File\*\*:  
   
 In your GitHub repository, create a directory named `.github/workflows`. Inside this directory, create a new file,   
 for example, `cron\_python\_script.yml`.  
  
2. \*\*Define the Workflow\*\*:  
  
 In the `cron\_python\_script.yml` file, define your workflow. Here's an example:  
  
 ```yaml  
 name: Run Python script on schedule  
  
 on:  
 schedule:  
 # Runs every day at 4:30 UTC  
 - cron: '30 4 \* \* \*'  
  
 jobs:  
 build:  
  
 runs-on: ubuntu-latest  
  
 steps:  
 - name: Check out code  
 uses: actions/checkout@v2  
  
 - name: Set up Python  
 uses: actions/setup-python@v2  
 with:  
 python-version: '3.x'  
  
 - name: Install dependencies  
 run: |  
 python -m pip install --upgrade pip  
 pip install -r requirements.txt  
  
 - name: Run Python script  
 run: python your\_script.py  
 ```  
  
 Modify the cron schedule, Python version, and script name as necessary.  
  
3. \*\*Commit the Workflow File\*\*:  
  
 Commit the `.github/workflows/cron\_python\_script.yml` file to your repository.  
  
4. \*\*Observe the Actions Tab\*\*:  
  
 Once you've committed the workflow file, go to the "Actions" tab in your GitHub repository. You should see your   
 workflow listed there. When the cron job runs, you'll see the workflow execution logs here.  
  
5. \*\*Dependencies\*\*:  
  
 If your Python script has dependencies, make sure you have a `requirements.txt` file in your repository. The workflow   
 above assumes this and installs dependencies from it.  
  
Note: Keep in mind that GitHub Actions offers a certain number of free minutes for public repositories, but there might   
be costs associated with private repositories or extensive usage. Check GitHub's pricing documentation for details.