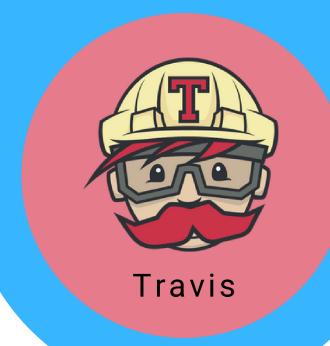


# Github Action Go + Postgres

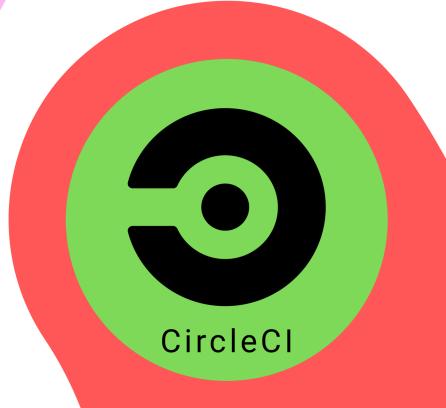
BACKEND MASTER CLASS LECTURE 10

# Github Action











### Workflow

- IS AN AUTOMATED PROCEDURE
- MADE UP OF 1+ JOBS
- TRIGGERED BY EVENTS, SCHEDULED, OR MANUALLY
- ADD .YML FILE TO REPOSITORY

```
.github > workflows > ! ci.yml

1    name: build-and-test
2
3    on:
4    push:
5    branches: [ master ]
6    schedule:
7    - cron: '*/15 * * * *'
8
9    jobs:
10    build:
11    runs-on: ubuntu-latest
```







#### WORKFLOW

JOB 1

JOB 2

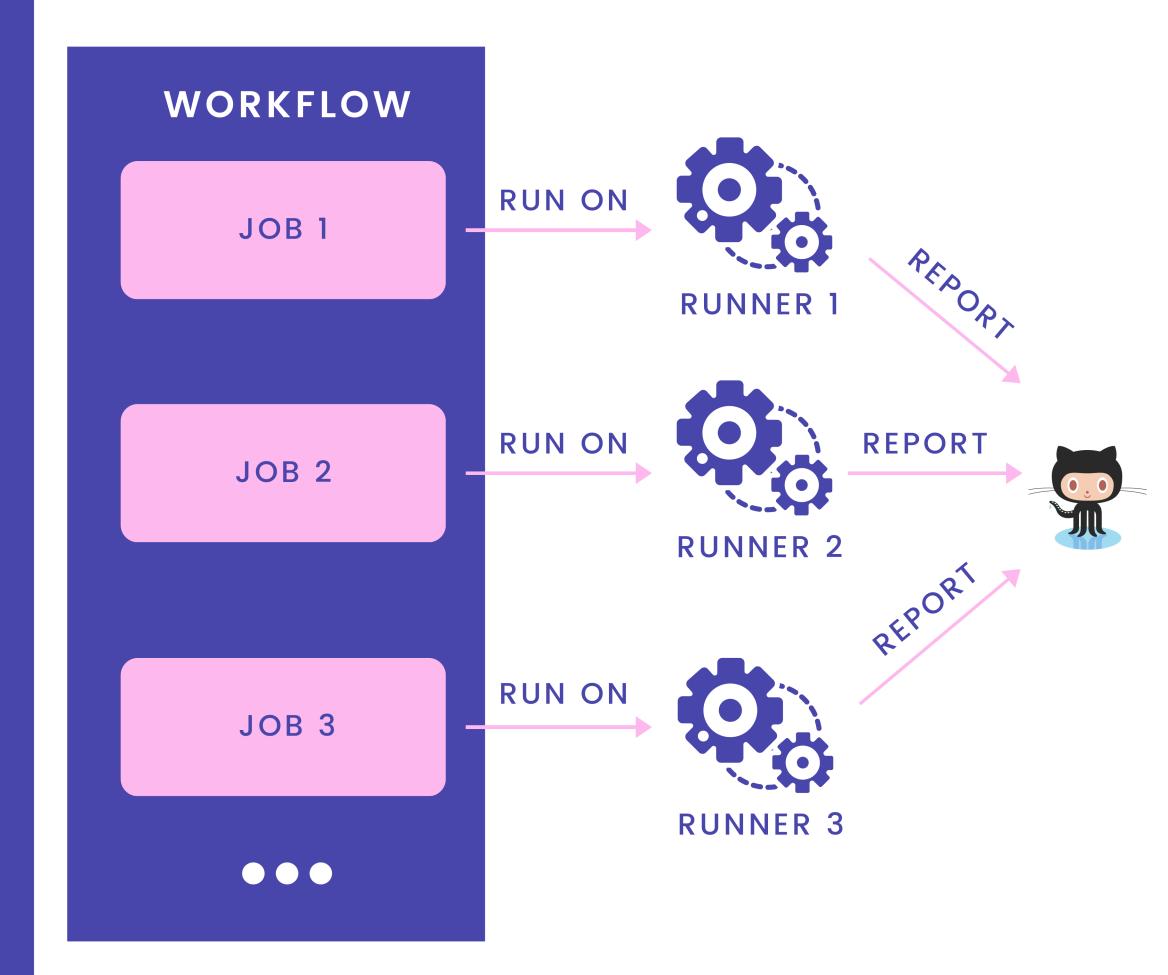
JOB 3



#### Runner

- IS A SERVER TO RUN THE JOBS
- RUN 1 JOB AT A TIME
- GITHUB HOSTED OR SELF HOSTED
- REPORT PROGRESS, LOGS & RESULT TO GITHUB

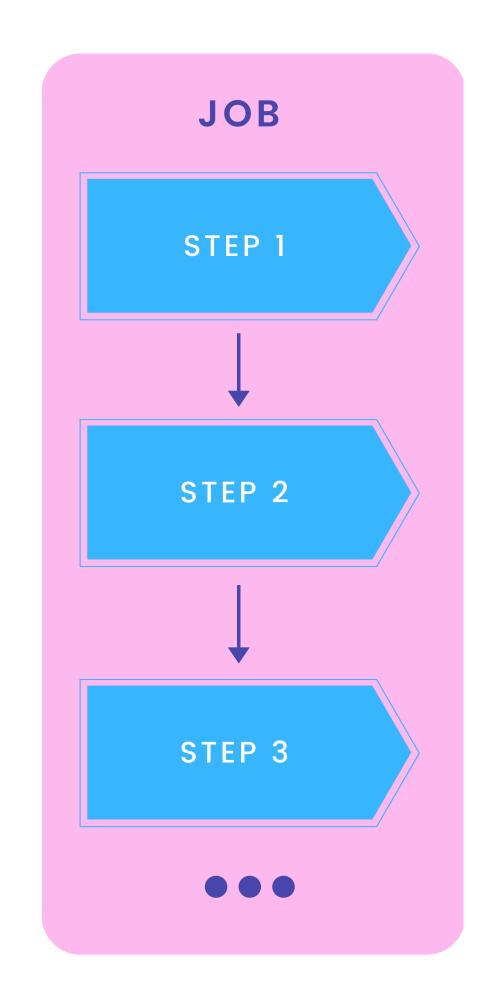
9	jobs:
10	build:
11	runs-on: ubuntu-latest
12	steps:
13	<pre>- name: Check out code</pre>
14	<pre>uses: actions/checkout@v2</pre>
15	<pre>- name: Build server</pre>
16	run: ./build_server.sh
17	test:
18	needs: build
19	runs-on: ubuntu-latest
20	steps:
21	- run: ./test_server.sh

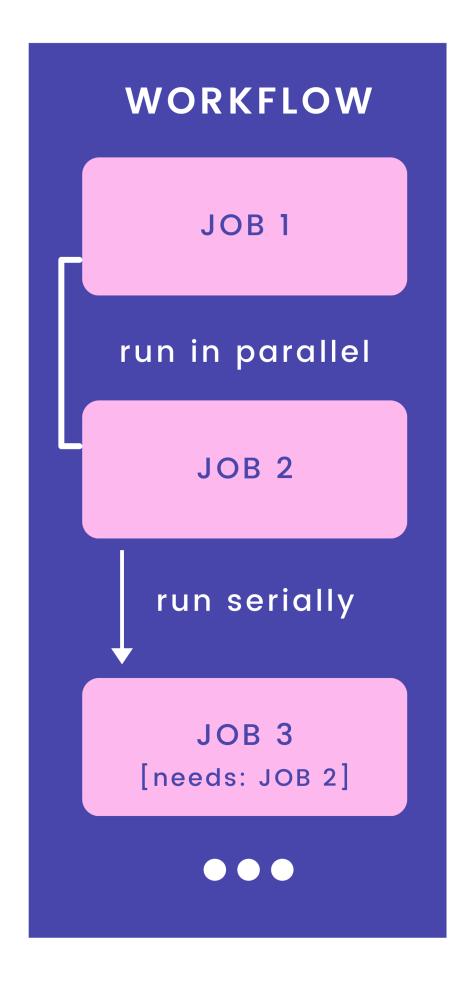


#### Job

- IS A SET OF STEPS EXECUTE ON THE SAME RUNNER
- NORMAL JOBS RUN IN PARALLEL
- DEPENDENT JOBS RUN SERIALLY







# Step

- IS AN INDIVIDUAL TASK
- RUN SERIALLY WITHIN A JOB
- CONTAIN 1+ ACTIONS

## Action

- IS A STANDALONE COMMAND
- RUN SERIALLY WITHIN A STEP
- CAN BE REUSED

9	jobs:
10	build:
11	runs-on: ubuntu-latest
12	steps:
13	- name: Check out code
14	<pre>uses: actions/checkout@v2</pre>
15	- name: Build server
16	run: ./build_server.sh

