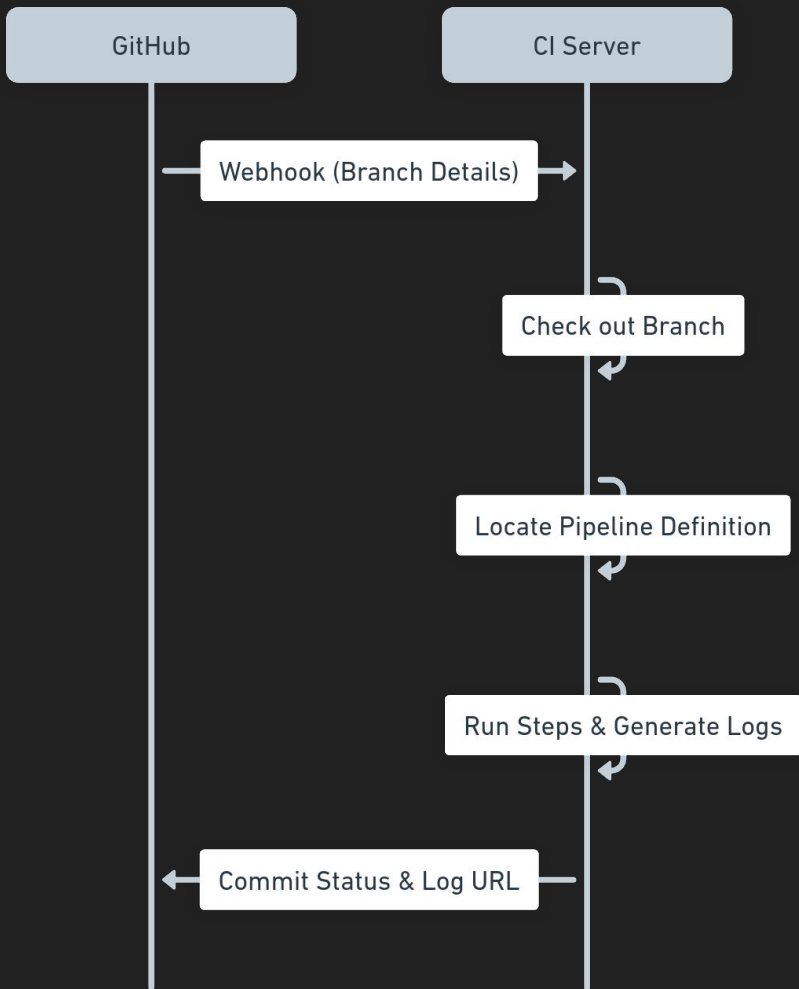


Unboxing CI Systems

Best Olunusi, Software Engineer @ DRW



pipeline definition

```
1  name: CI
2  env:
3    GLOBAL_ENV1: value1
4    GLOBAL_ENV2: value2
5  steps:
6    - name: Install Python and pip
7      command: |
8        if ! command -v python3 &> /dev/null; then
9          apt-get update && apt-get install -y python3 python3-venv
10         fi
11    - name: Set up virtual environment
12      command: python3 -m venv venv
13    - name: Install dependencies
14      command: venv/bin/pip install -r requirements.txt
15    - name: Run tests
16      command: venv/bin/python -m unittest discover -s tests
17    - name: Inspect Env Vars
18      env:
19        STEP_ENV: value3
20      command: echo $GLOBAL_ENV1 $GLOBAL_ENV2 $STEP_ENV
21
```

Demo

Productionizing

- Triggers
 - Polling (customizable frequency)
 - Webhooks - done
- Runners (Isolation)
 - Build Agents/Hosts (e.g., cloud VMs, on-prem servers)
 - Containers: Docker, k8s
- Logs
 - persistent logs
- Monitoring

Questions