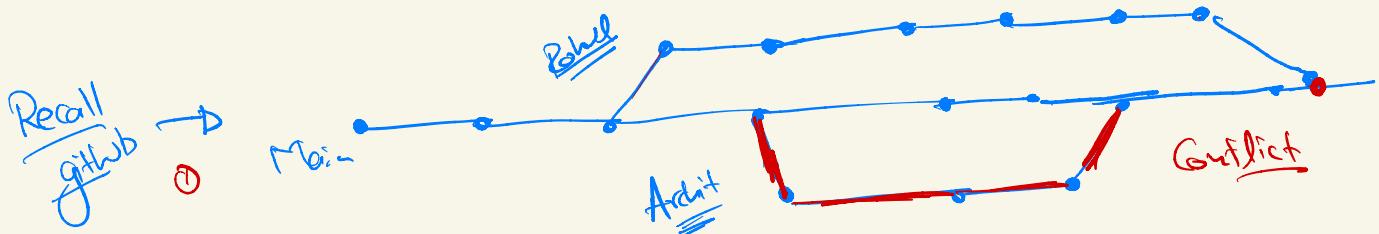
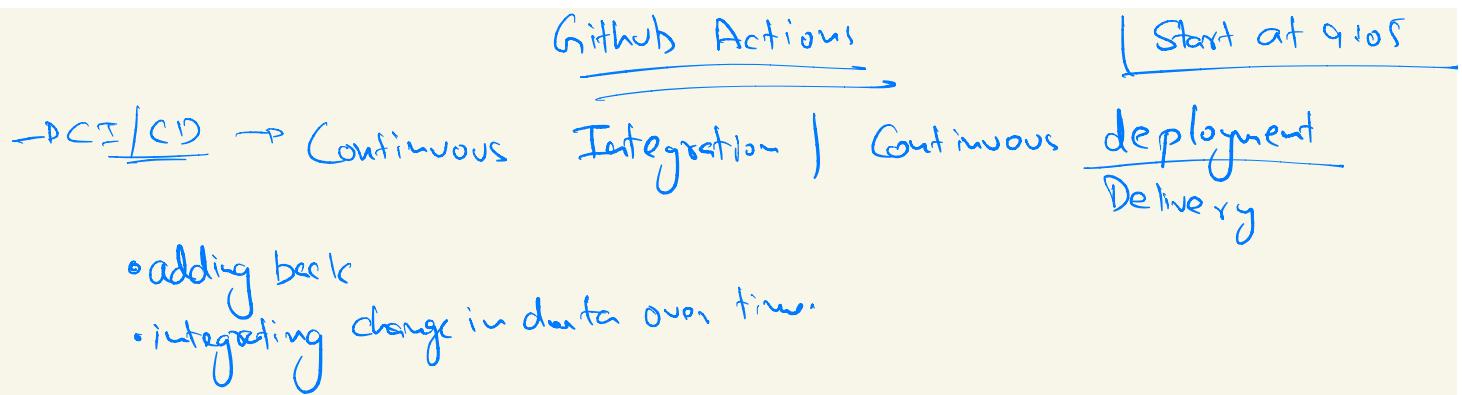
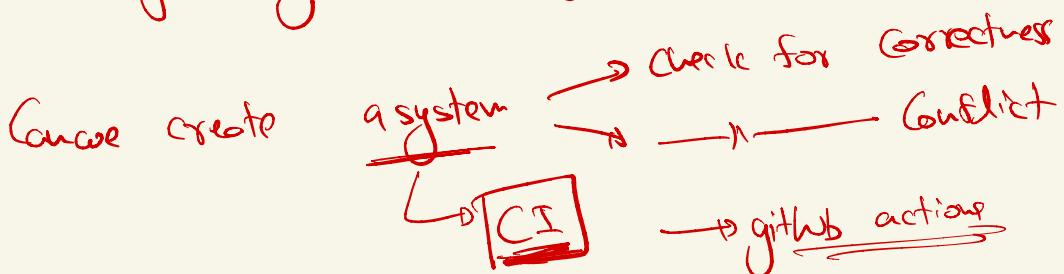



ECS deployment through GitHub actions : <https://github.com/aws-actions/amazon-ecs-deploy-task-definition>

Github link: https://github.com/architsharm/flask_demo2



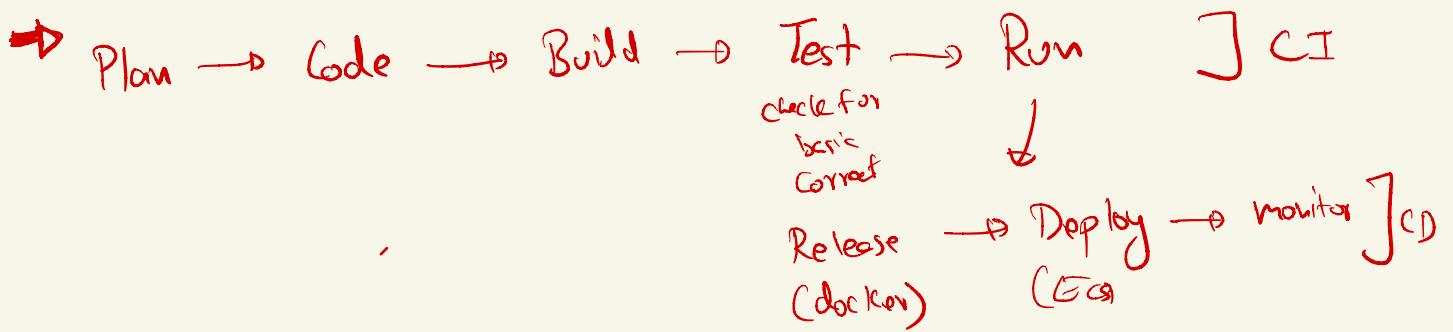
② The changes might not always be Correct



→
 $\Rightarrow \underline{CD} \rightarrow \text{Continuous Delivery} \mid \text{Deployment} \rightarrow$

→
 Lost / Clear → Created an App → Created a Docker image → Pushed into ECR → Deployed on ECS

→ after every change
 that has been
 integrated
 → redo the entire deployment
 automation → CD



→ CI/CD

→ Circle CI

- Jenkins + Argo CD
- Airflow
- Github actions → gained popularity

⇒ • Pytest → pip install pytest -

why use library

→ api →

- marital status
- income
- location

 } → products if your loan accepted or rejected

→ data-type →

→ incorrect results →

Define probable problem →

↑
How to check this

Ran your
application

Feed some Input

• Validate if the application returns the expected output

→ Square function → take an int input
returns its square

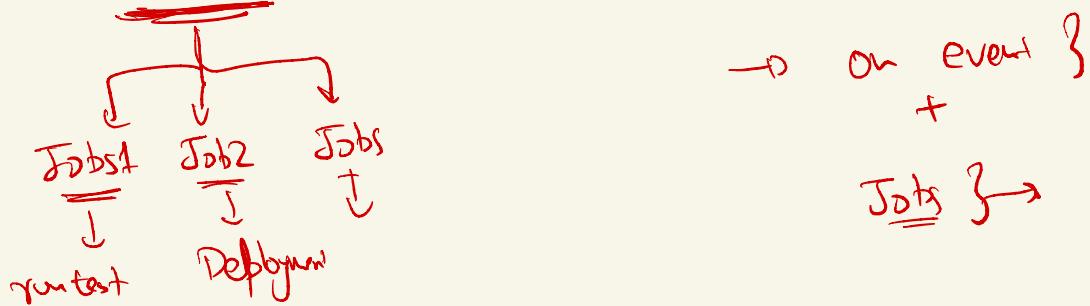
Run your application → provide an input (git) → .16 ✓ .16 ✓ .16 ✗ .64

→ GitHub actions →

- Events →
 - pushed a code -
 - Merge a branch in main
 - Commit on a branch

- Set of Instructions to run → a event happens
 - ↳ yml file

→ Workflow → Set of instructions to perform.



Each job can have multiple steps → Instru
Single shell cmd / actia

→ Test ✓ CI ✓

→ If someone makes a change in the code
!

Auto deploy on ECS

if you add a code → test fails

With
github action

Created a
Image
(docker)

Created a Repo
on ECR
+
added the Image
to Repo

Cluster +
we created
a ECS task
→ Run
the task
attached to
Image

With GHA

Upload the
code
on
github

Run test → Build the
image → Push it to
ECR → Deploy → Run
on ECS

⇒ Login credentials for
AWS ← added to github
somehow