Google Cloud

Advanced MLOps on Google Cloud

WELCOME!

Your ASL Team

Benoit Dherin
ASL ML Engineer

Kat Manfredonia
ASL Global Operations Lead

Gosia Babińska
ASL Lead Coordinator

Loc Duong
ASL Program Coordinator

Questions or Concerns?

Reach out with any concerns or questions to
asl-operations@google.com

or

Benoit Dherin: dherin@google.com
Kathryn Manfredonia: kmanfredonia@google.com
Gosia Babinska: magorzatab@google.com
Loc Duong: loduong@google.com

Google Cloud

Let's get to know each other

Benoit Dherin

dherin@google.com

https://ie.linkedin.com/in/benoit-d-8037b247

ASL ML Engineer

- Machine Learning Engineer at the ASL focused on teaching and developing courses

- Machine learning research aiming at understanding model training, and improving reliability with DeepMind and Google Brain

- French/Swiss mathematician passionate about machine learning

Your turn!

- Name, Role

- Experience (Python, ML, Docker/K8, KubeFlow, TFX)

- Expectations for this course

Agenda for this course

Intro to MLOPs Infrastructure	Kubeflow Pipelines	TFX Pipelines	Labs/Recap	Additional Topics

Each topic above is broken up into modules (~2-3 hours) with 2 parts:

- **Module part I:** 30 mins to 1h lecture
- **Module part II:** 1 to 2h lab time with exercises on the lecture

We have individual one-on-one time during the labs for your questions. Ask in the main room chat and I'll jump in into your private room.

Let's talk about schedule now!

- 9am to 5pm PDT with ~1h for lunch around noon (?)

- ~ 2-3 modules per day of 1h lecture followed by ~2h+ lab
  - Please interact with us during the lab time! Good time to ask one-on-one questions

- 10-15 minutes break at the beginning of each lab and while model are training

- We'll send you the course slide each day before class

1) Login into console.cloud.google.com with them
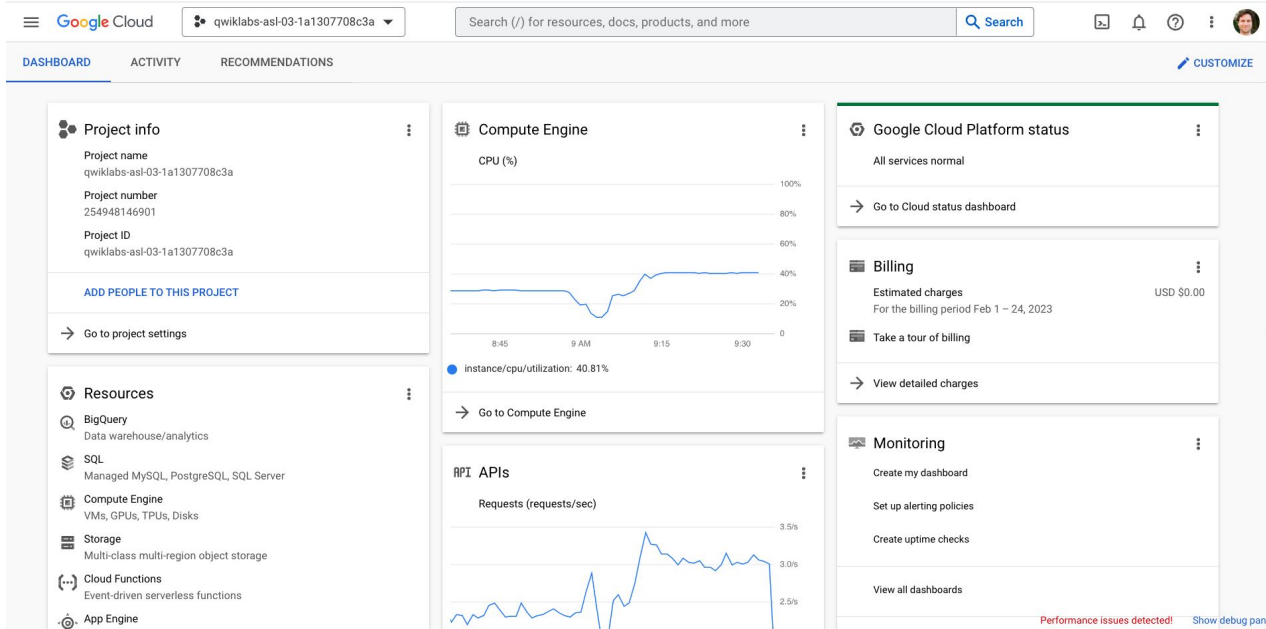
GCP Credentials

student-00-eb596f7ab534@qwiklabs.net
student-00-9db156f39557@qwiklabs.net
student-02-ea7cf55a92b1@qwiklabs.net
student-02-e3233d2620da@qwiklabs.net
student-02-14d5922afc5c@qwiklabs.net
student-02-a447e9970070@qwiklabs.net
student-02-9a5aa06da0cb@qwiklabs.net

2) Vertex AI → Workbench
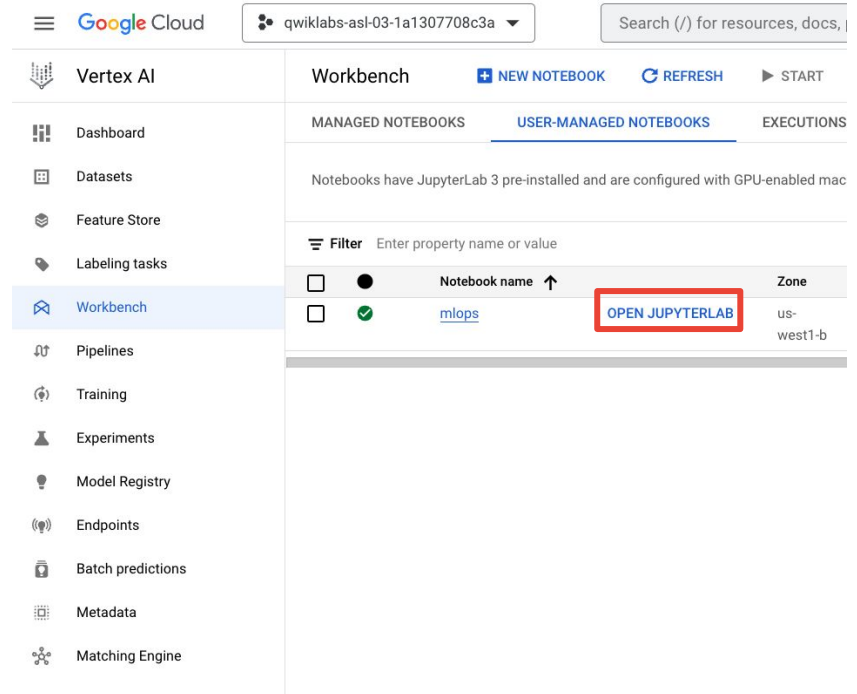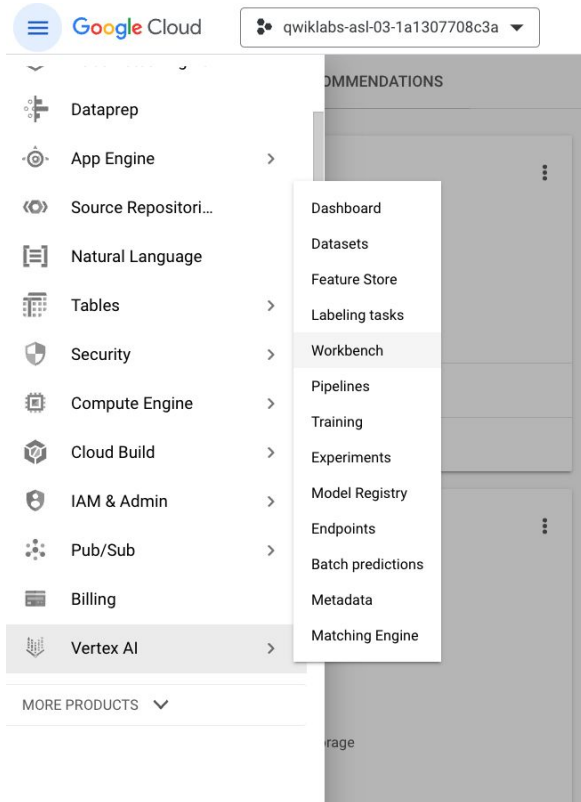
4) Navigate to asl-ml-immersion/notebooks/

Lab folder structure

Exercises and Solutions

Demo! Then do it yourself.

Navigate to
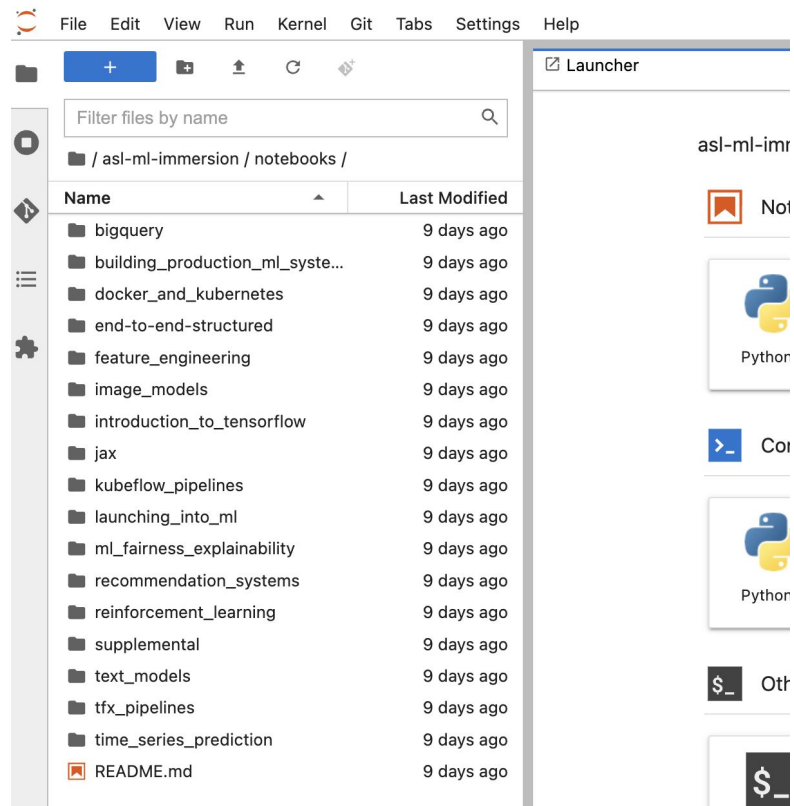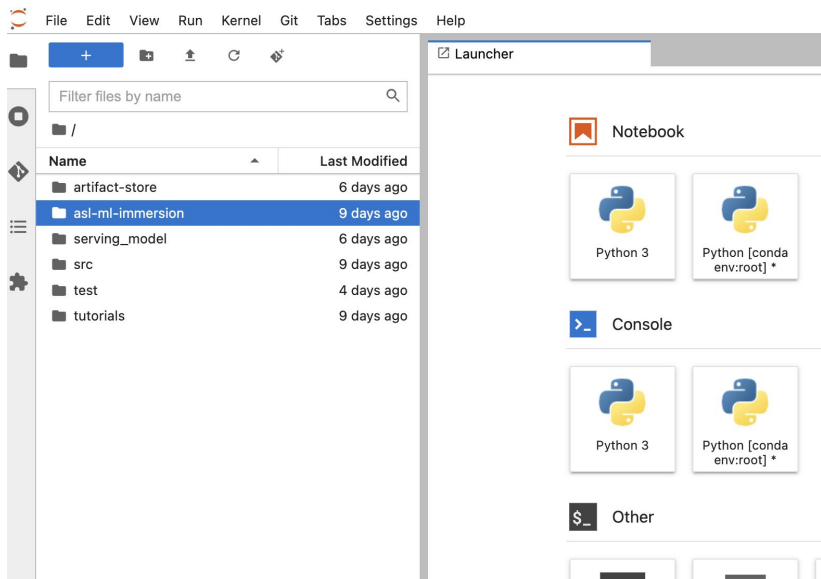
asl-ml-immersion/notebooks/docker_and_kubernetes/labs/1_intro_to_docker.ipynb