

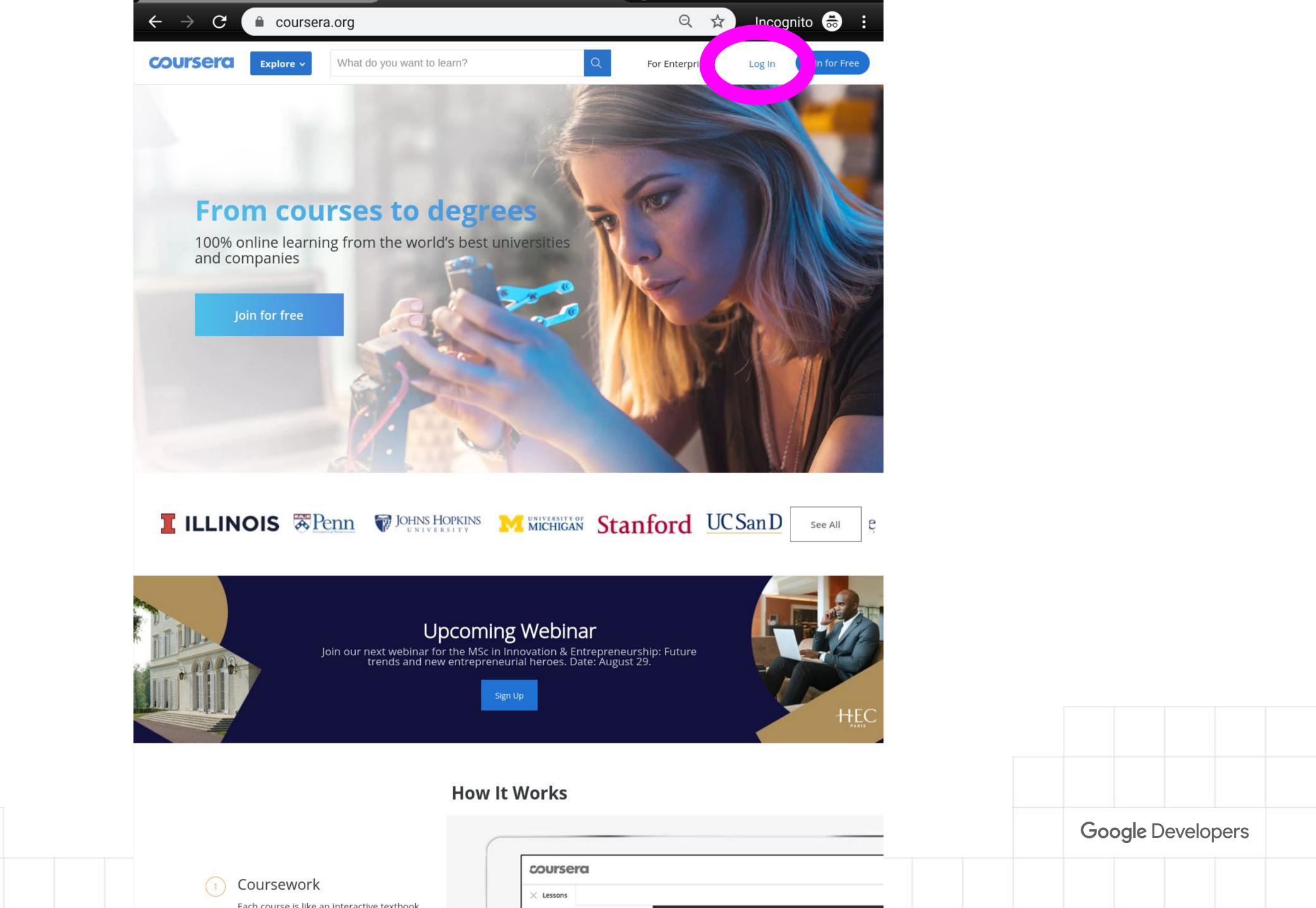
Online Training

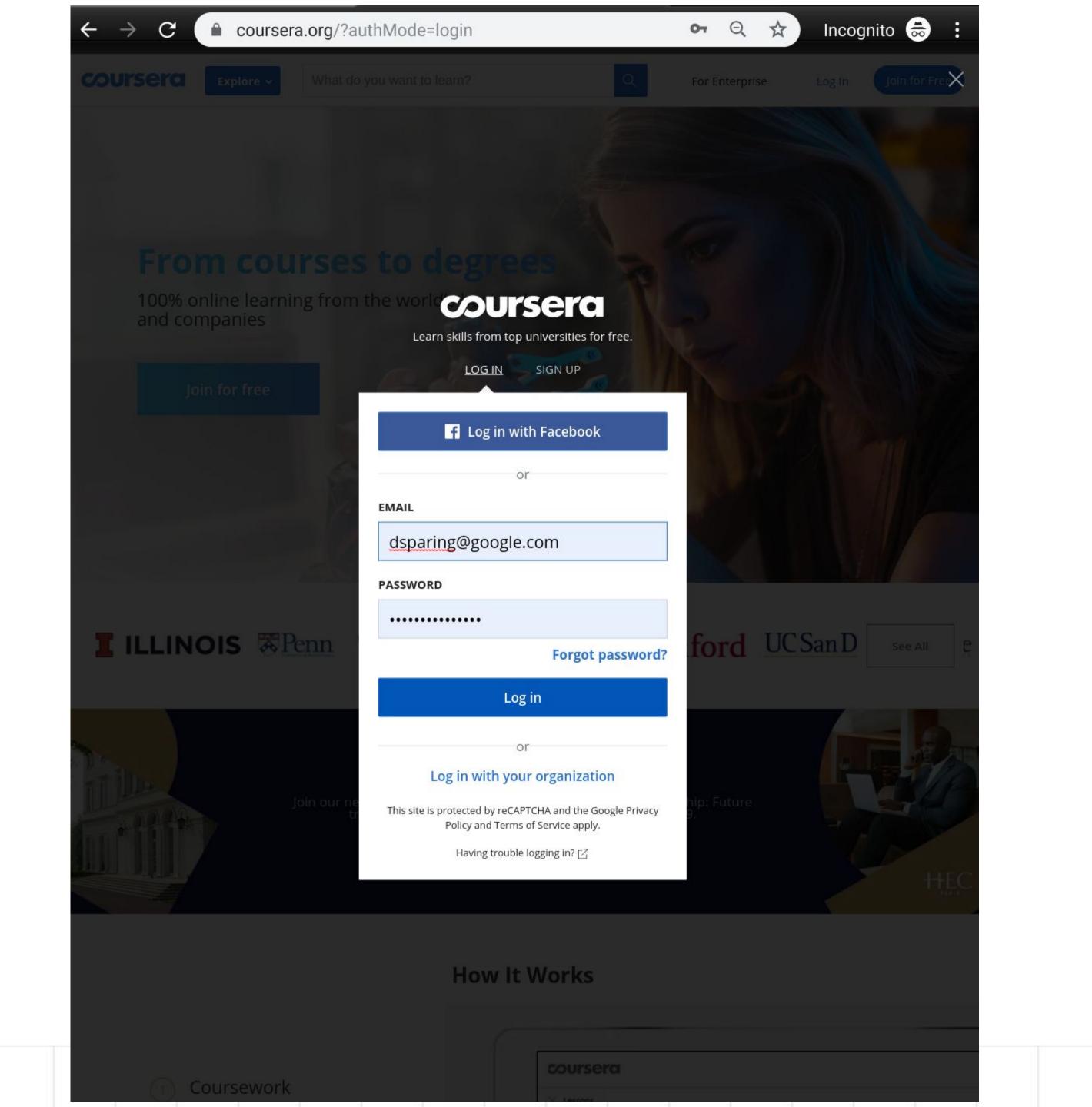


Coursera

- Coursera is a MOOC platform co-founded by Xoogler and ML superhero
 Andrew Ng, who also teaches the course *Machine Learning* as well as the set of courses *deeplearning.ai*
- Coursera is the main MOOC partner of Google Cloud
 - (some other Google-flavored courses, such as TensorFlow, are available on other platforms such as *Udacity* and *Fast.ai*)
- Sign-up is required (Google Account SSO is not supported), many GCP courses are free (in Audit Mode), some GCP courses are only available for paid accounts.





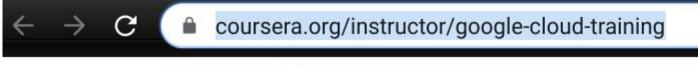


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GCP courses are under

https://coursera.org/instructor/google-cloud-training

(there is also a google.com hosted training catalog with this and more content at cloud.google.com/training)



What do you want to learn?



Incognito 🚓

Daniel Sparing ~





For Enterprise





Google Cloud Training Google Cloud

- https://cloud.google.com/training/
- ff googlecloud
- y googlecloud

Bio

coursera

The Google Cloud Training team is responsible for developing, delivering and evaluating training that enables our enterprise customers and partners to use our products and solution offerings in an effective and impactful way. Google Cloud helps millions of organizations empower their employees, serve their customers, and build what's next for their businesses with innovative technology created in—and for—the cloud. Our products are engineered for security, reliability, and scalability, running the full stack from infrastructure to applications to devices and hardware. Our teams are dedicated to helping customers apply our technologies to create success.

Courses



Getting Started Wit...



Sequence Models fo...



API Security on Google Cloud's Apigee AP...



Leveraging Unstructure...





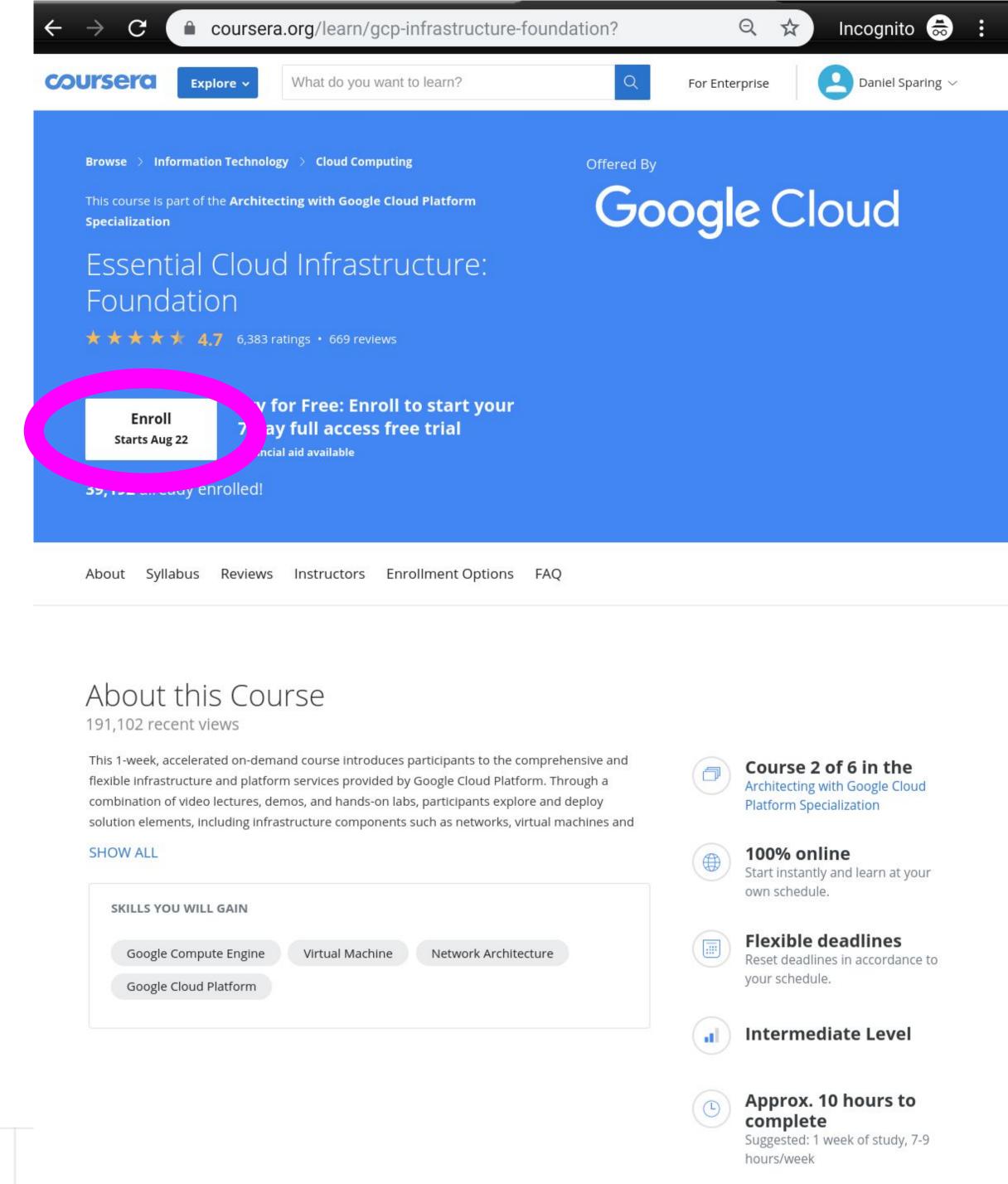






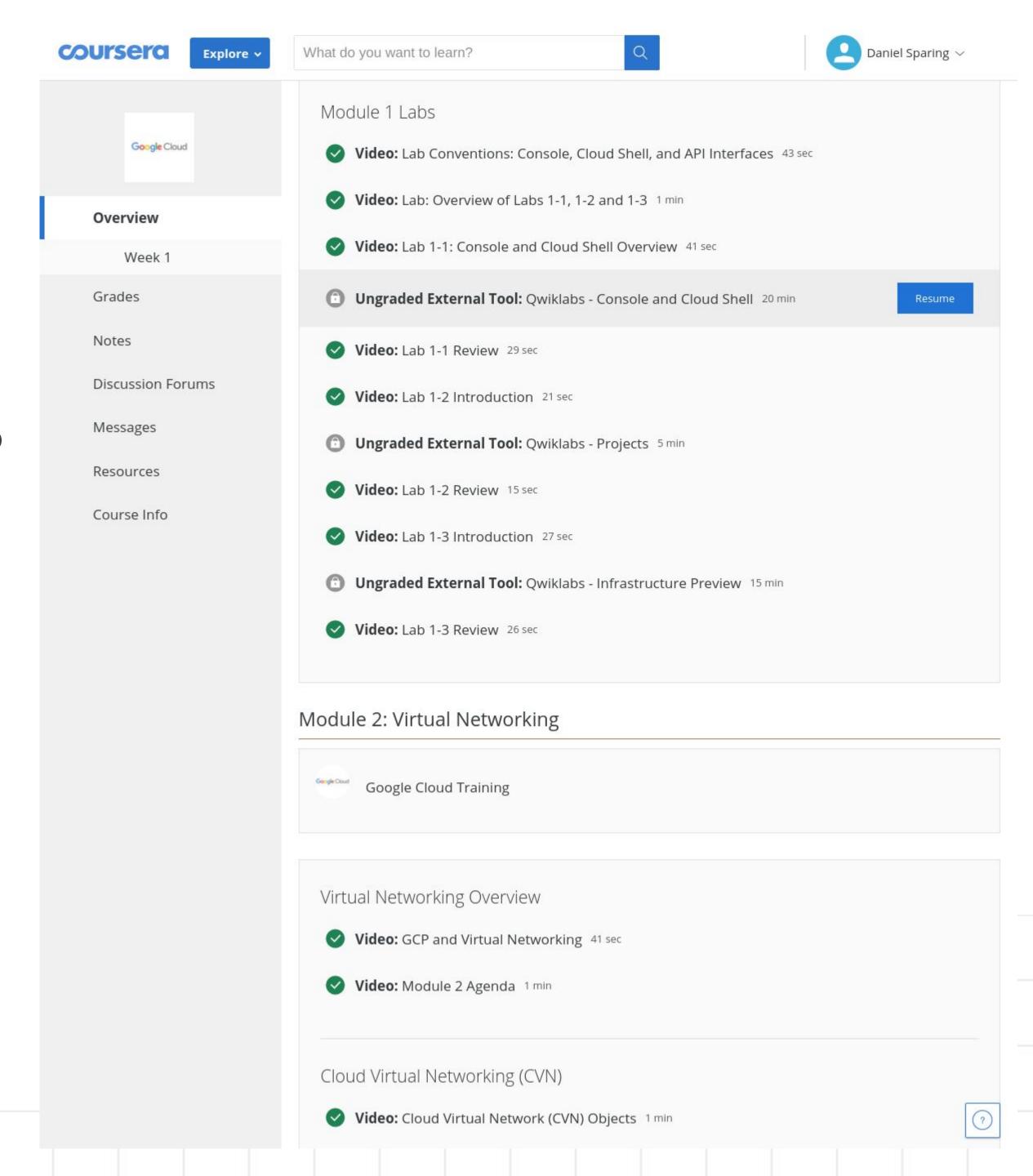
Many GCP courses are free (in Audit Mode), some GCP courses are only available for paid accounts:

- Some courses you can 'audit' (without receiving a certificate) for free.
- Some other courses require a paid account (even though trial offers are available)
 - Your organization might already have a Coursera institutional account, or reach out to Google Cloud Training.



- The courses typically contain:
 - Self-containing videos

- There is also a Coursera mobile app allowing you to view the videos on mobile
- Labs, externally hosted on Google Codelabs or Qwiklabs
 - (some Qwiklabs are in fact invisible from the Qwiklabs catalog except via the deep link from Coursera)



• (coursera live walkthough)



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How to teach with Coursera

Coursera is a self-containing course environment, not an auxiliary tool. Hence choose:

- 1) Use specific small components of Coursera courses live on your class, or
- 2) Ask your class weeks in advance to complete a course, and use a live workshop as a study group to walk through hands-on labs and address questions



Hands-on Labs

Qwiklabs

- Qwiklabs is a multi-cloud hands-on lab (sandbox environment) platform aquired by Google and part of Google Cloud
- Qwiklabs is the main hands-on lab environment of GCP. Related alternatives are:
 - Google Colaboratory (runs on GCP but it is an almost GCP-agnostic Notebook environment)
 - Codelabs (part of the Google Developers portal, not providing sandbox GCP environments, but useful with one's own GCP account and often in parallel with Qwiklabs labs)
- Sign-up is required (Google Account SSO is supported but not required), your Googler contact may be able to provide you with vouchers that allows you to access labs at no cost.



- While the created GCP environment is ephemeral, the running browser needs to be compatible, so latest Chrome browser or other modern browser preferred, and firewalls should allow access to console.cloud.google.com.
 - In particular, the Cloud Shell is known to stall at load time if a (corporate) firewall is too restrictive. Sometimes the workaround is to ask (non-Googler) participants to use personal laptops as opposed to restricted corporate devices (but the network can restrict too).

 A whole classroom accessing GCP and possibly transferring files uses considerable bandwith and number of devices, so a wifi connection barely enough to check emails / social media is not sufficient for a decent sized class. If available, a Google office is preferred to a venue with unknown wifi capacity/reliability.



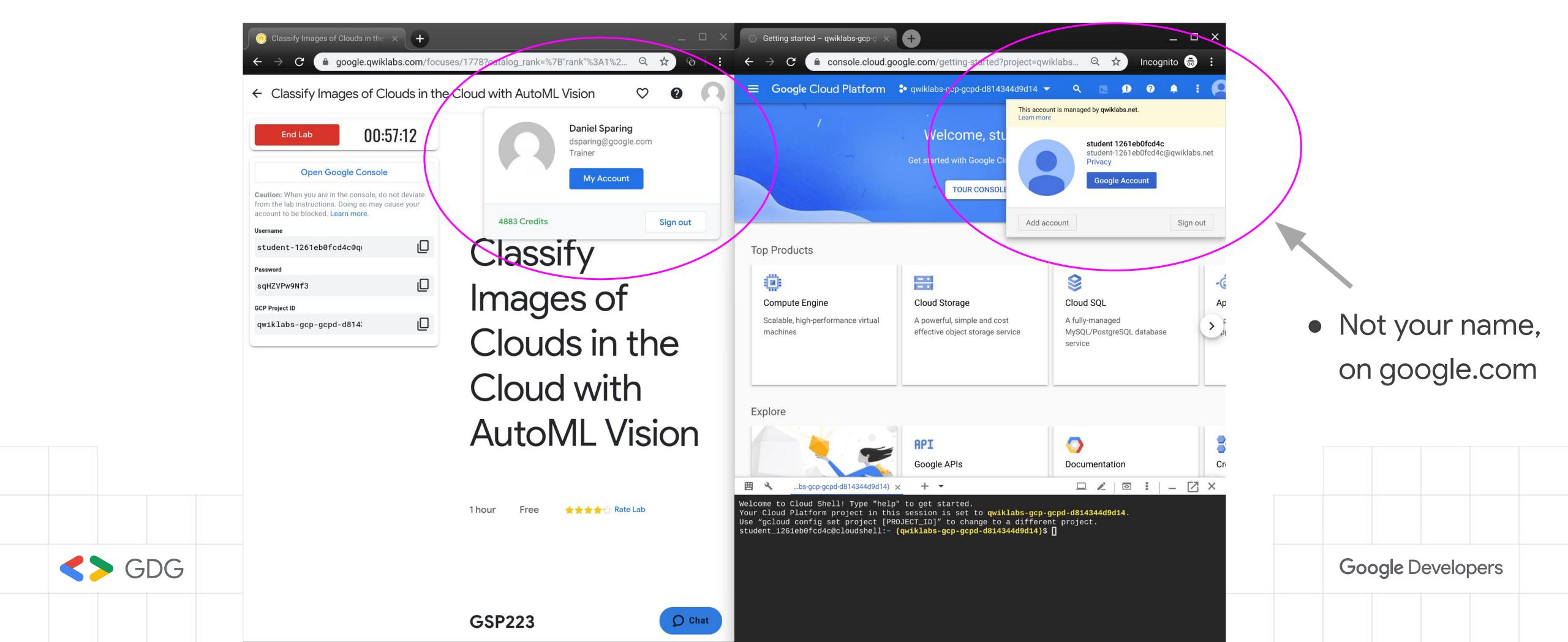
• Sometimes during the ephemeral Google Account sign-on process, for anti-fraud purposes a valid phone number is requested. Unfortunately I am unaware of a workaround without providing a phone number. This can still be the same as one linked to a real Google Account though. Alternatively reach out to the Qwiklabs Support Hangouts group.

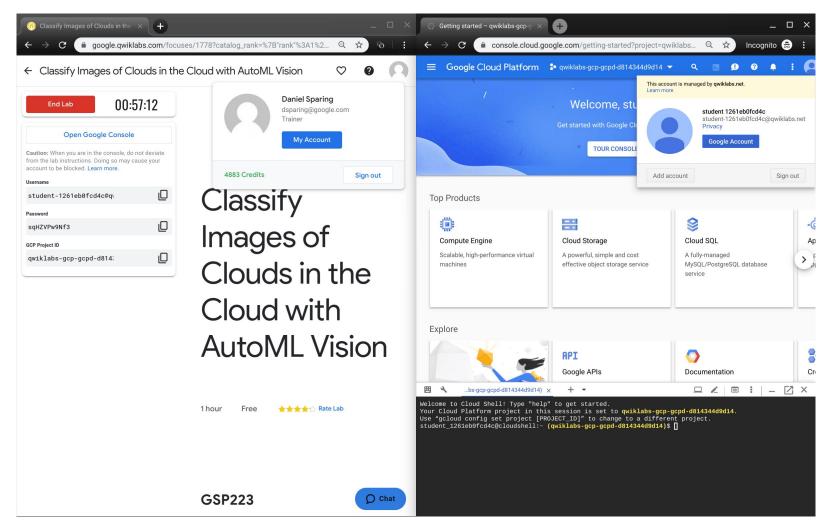


- There is a large number of accounts:
 - Your pre-existing Google Accounts, do not use them on the GCP console
 - Your (new) Qwiklabs account (You can use Google SSO)
 - Ephemeral Google Account (and password), <u>student-xxxxxxx@qwiklabs.net</u>. This is what you should use within the GCP console.



• So to summarize, you should have qwiklabs.com open, logged in with a qwiklabs account on your name, and console.cloud.google.com open, logged in with a sandbox account, not on your name.

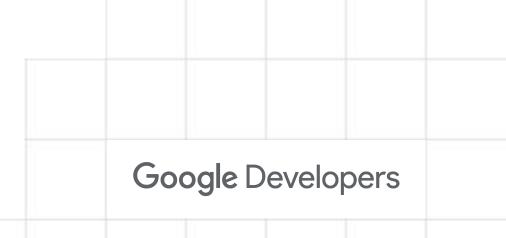




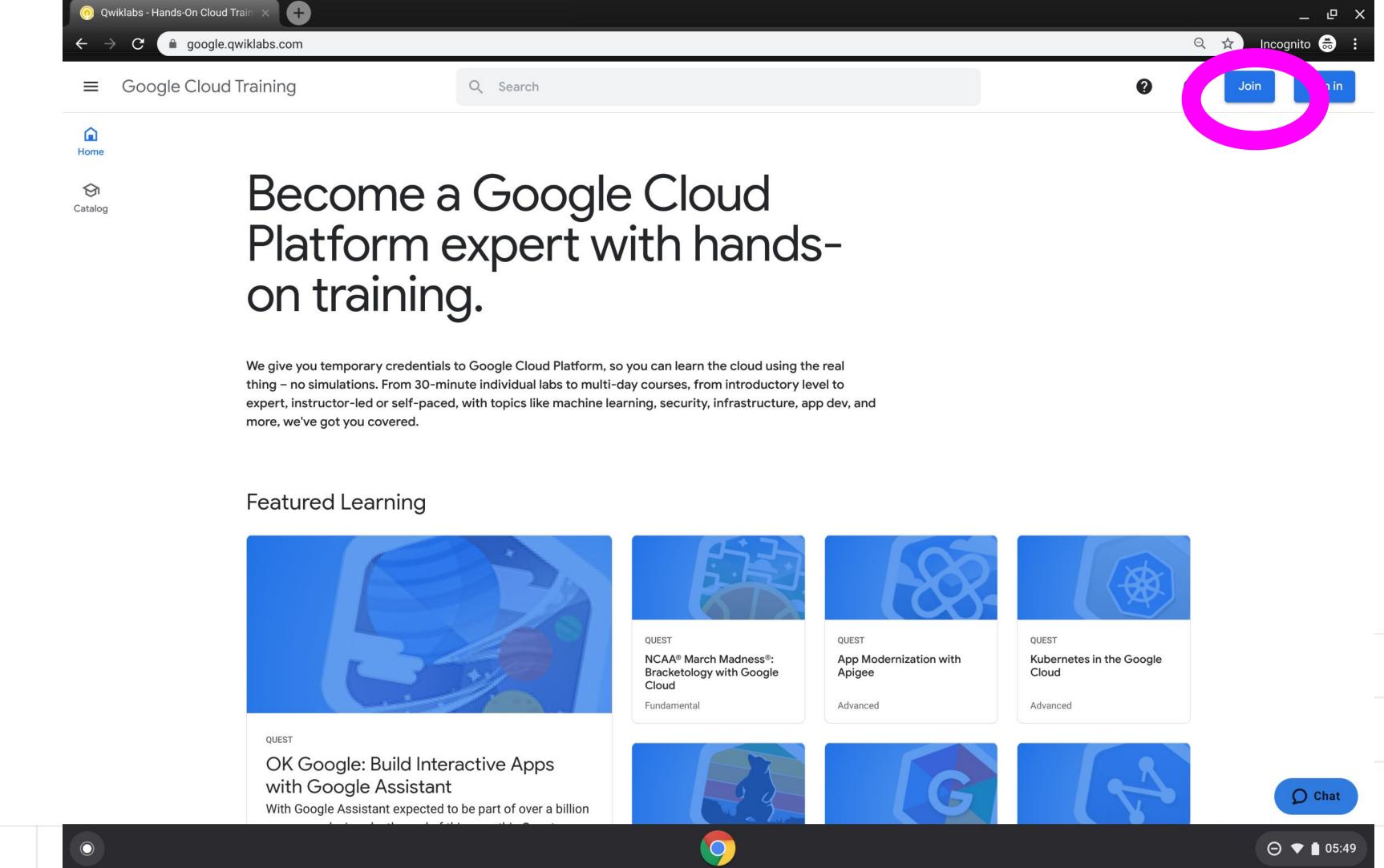
Consider using Incognito/private mode for the GCP console

Consider using a second display if available

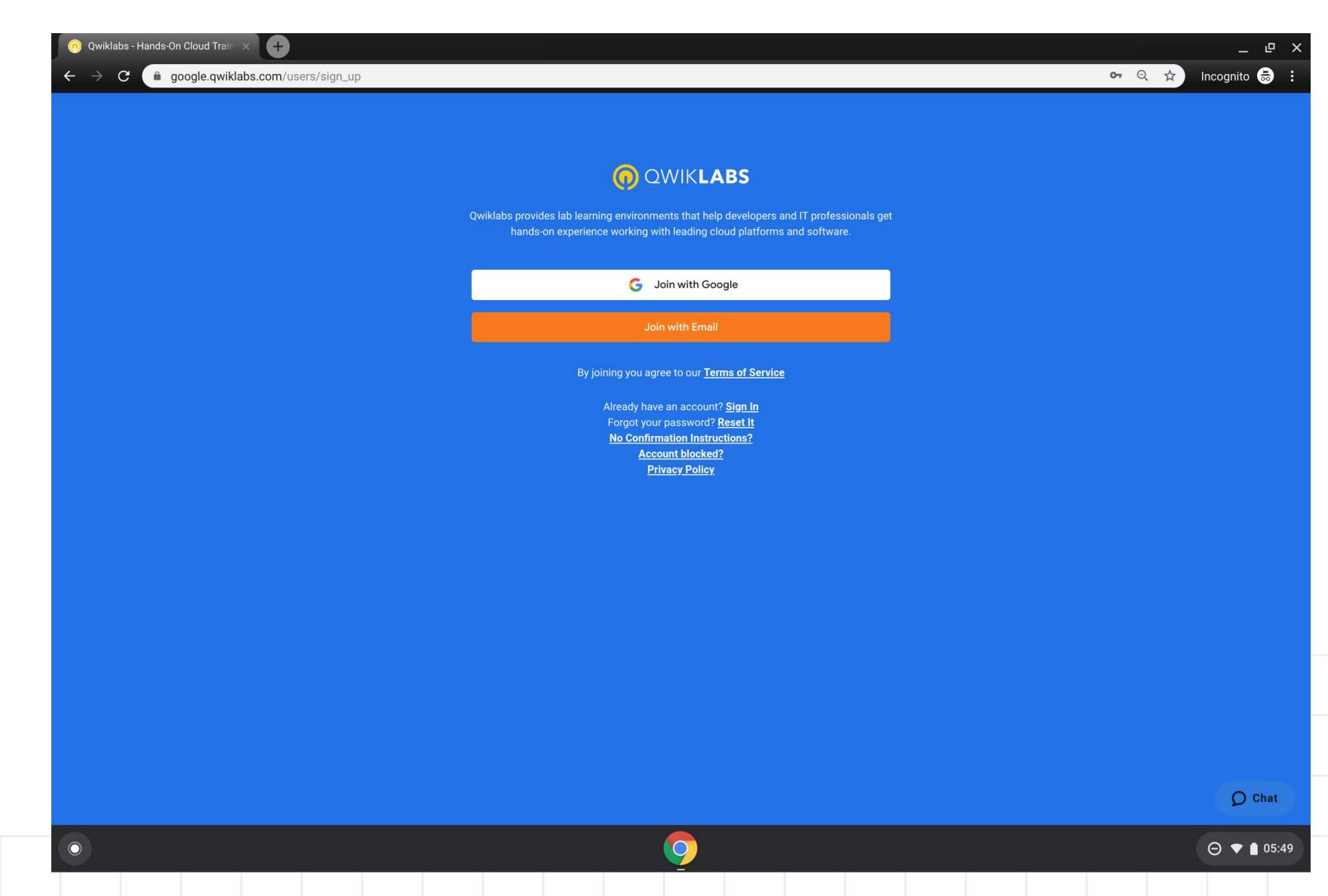




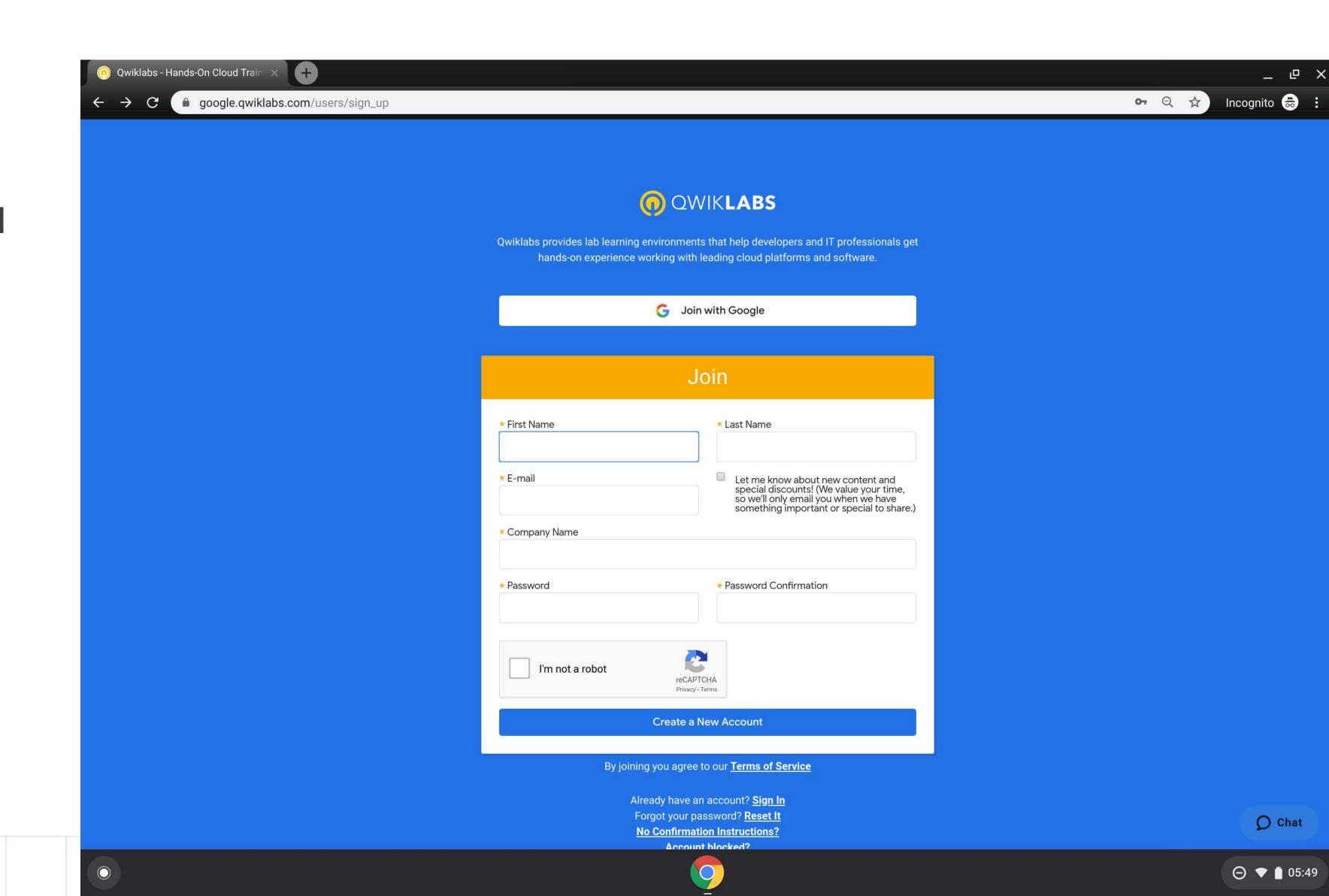
google.qwiklabs.com

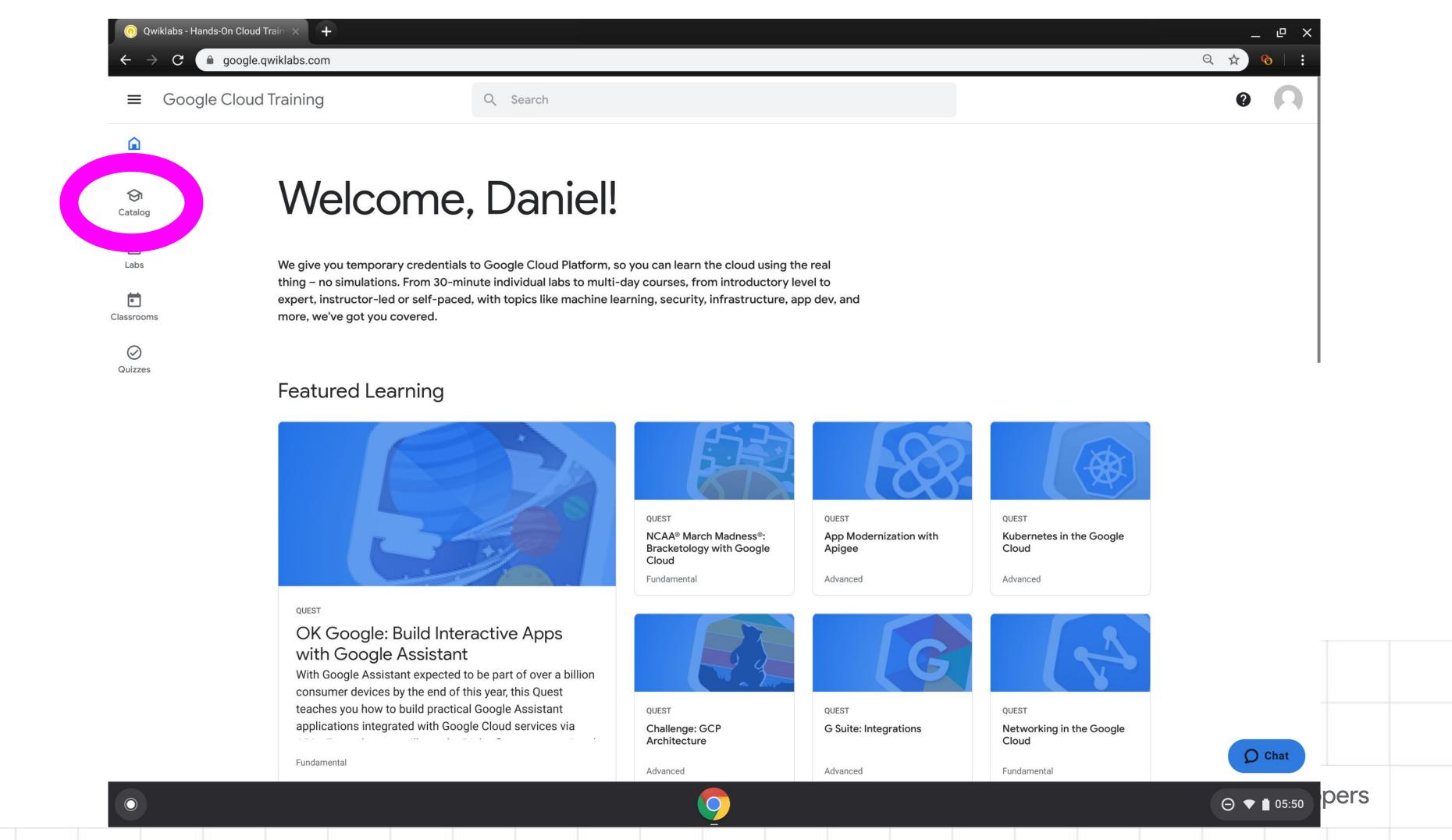


- You can but you do not have to use a Google Account on your name to join and later sign in (gmail or organizational GSuite)
- Alternatively you can also join with an email address and password



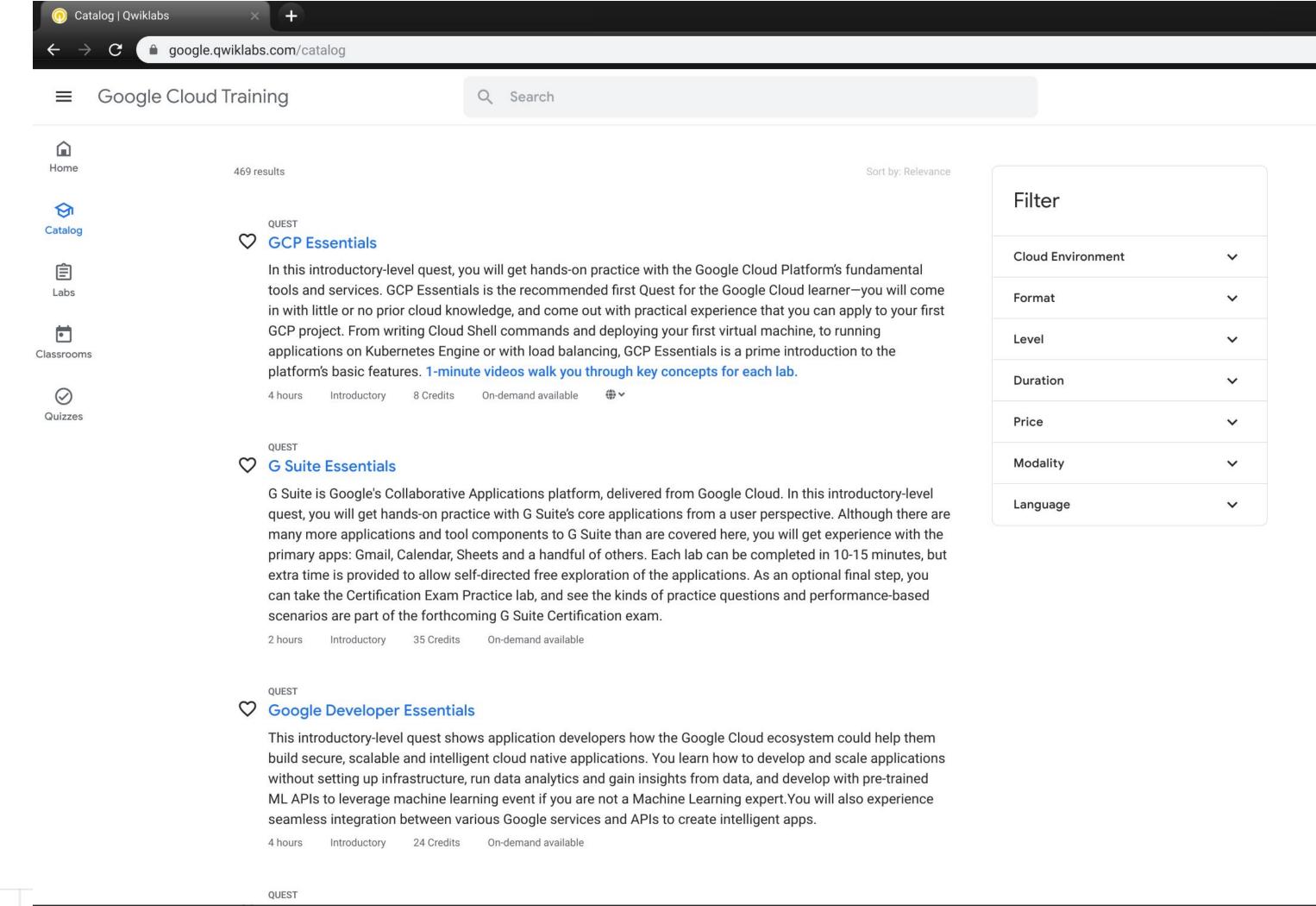
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Just search for labs of your interest in the catalog

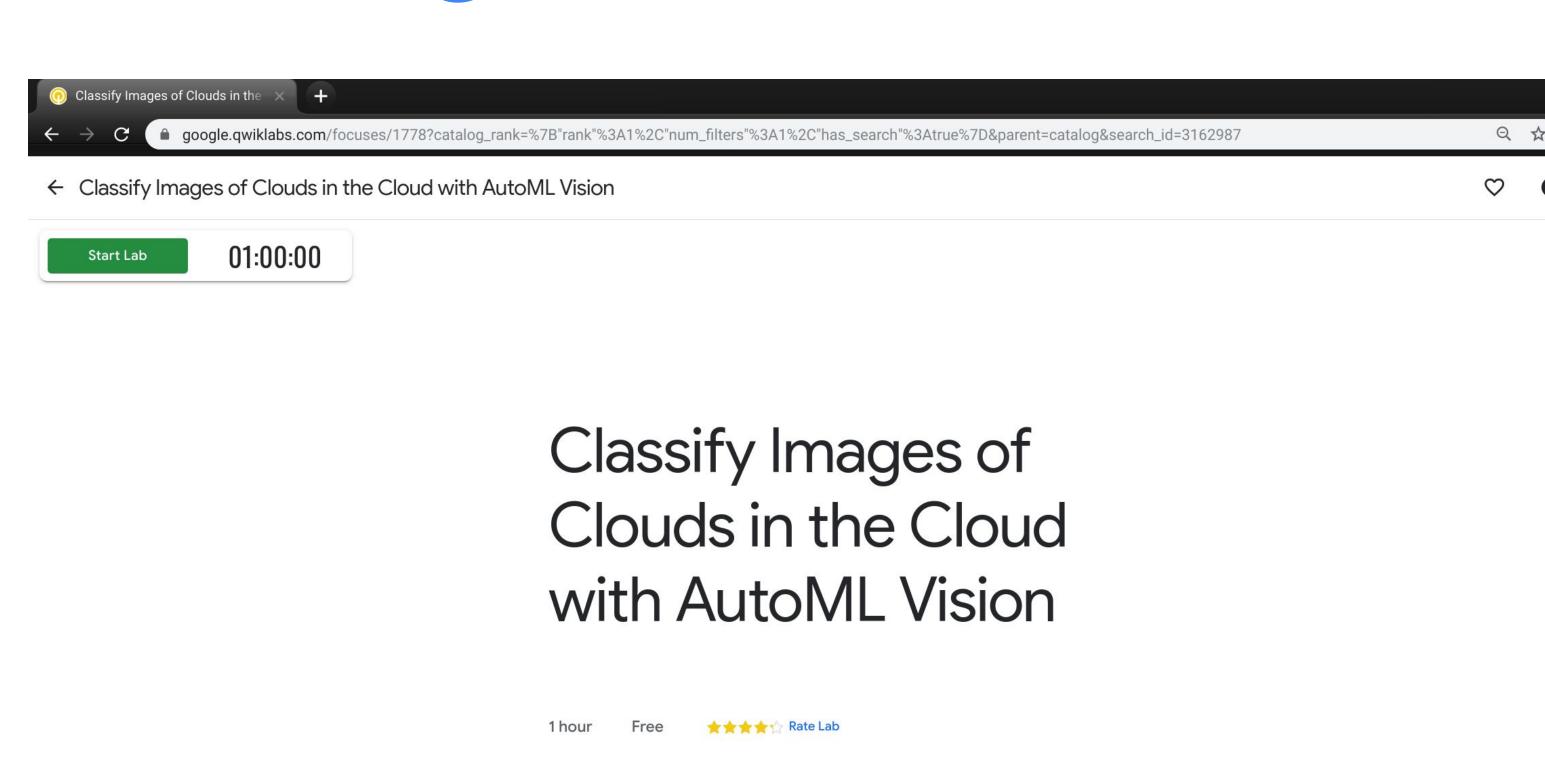
Search both e.g. for "Machine Learning" and "ML" to find all content

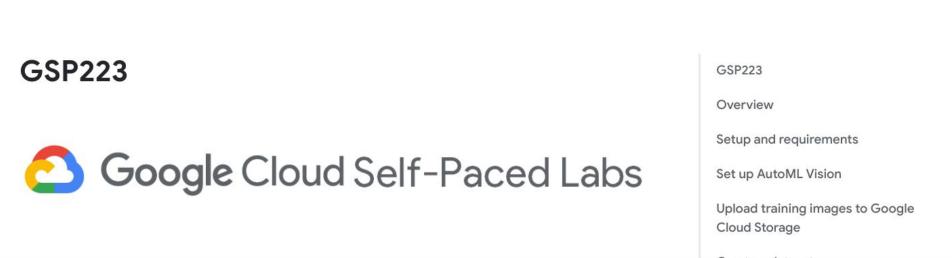




 Once opened a lab, read the self-containing description.

click the top left green
 Start Lab button (put in vouchers here)



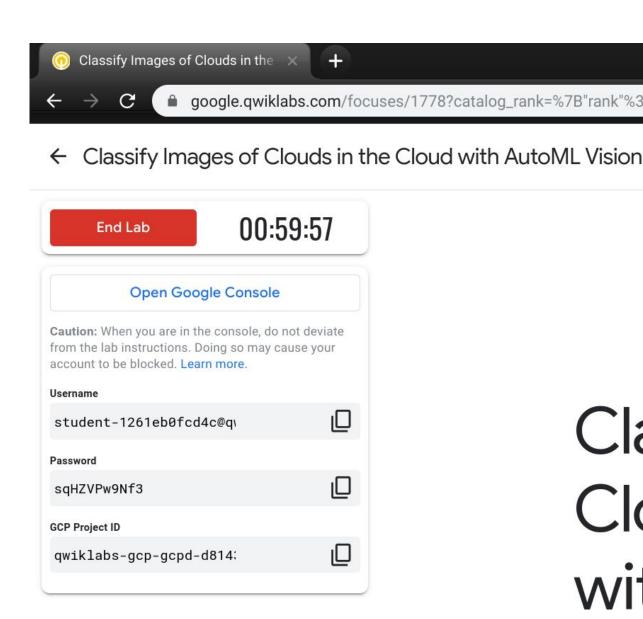






- ephermeral environment, with quotas
- Do use a new Incognito window
- multiple separate GUI's (such as console, AutoML, Dialogflow, etc) but the walkthrough is self-containing
- If the timer is up, restart with new voucher





Classify Images of Clouds in the Clouds with AutoML Vision

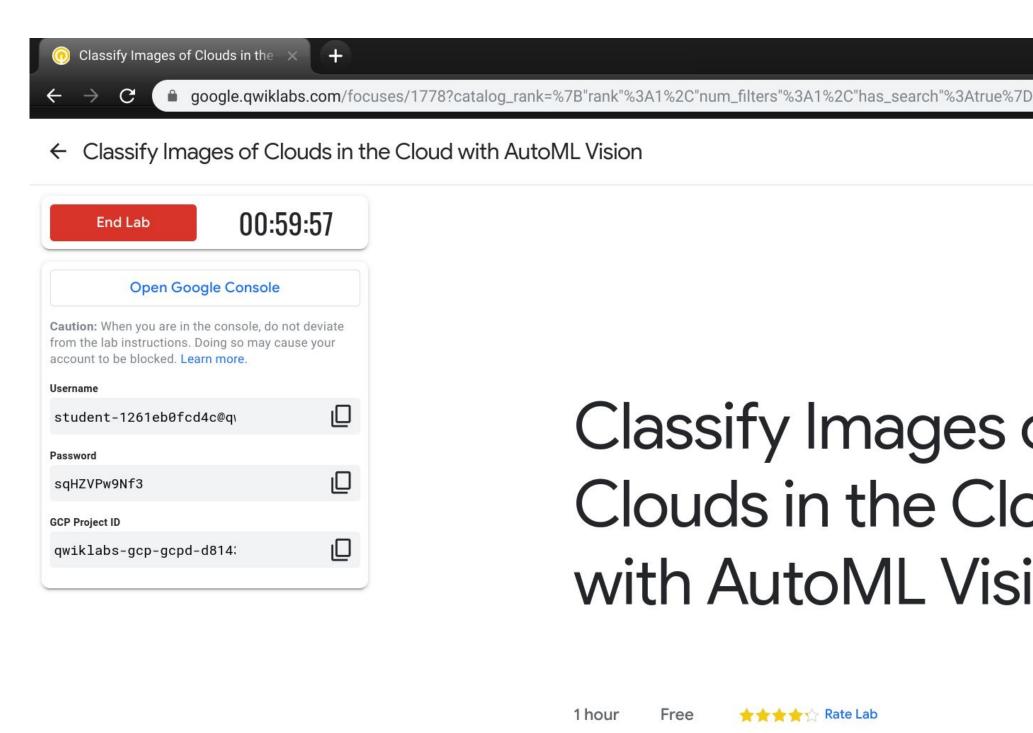
1 hour Free ★★★★☆ Rate Lab

GSP223





(live walkthough)



Classify Images Clouds in the Clo with AutoML Visi

** * Rate Lab 1 hour

GSP223







How to facilitate Qwiklabs

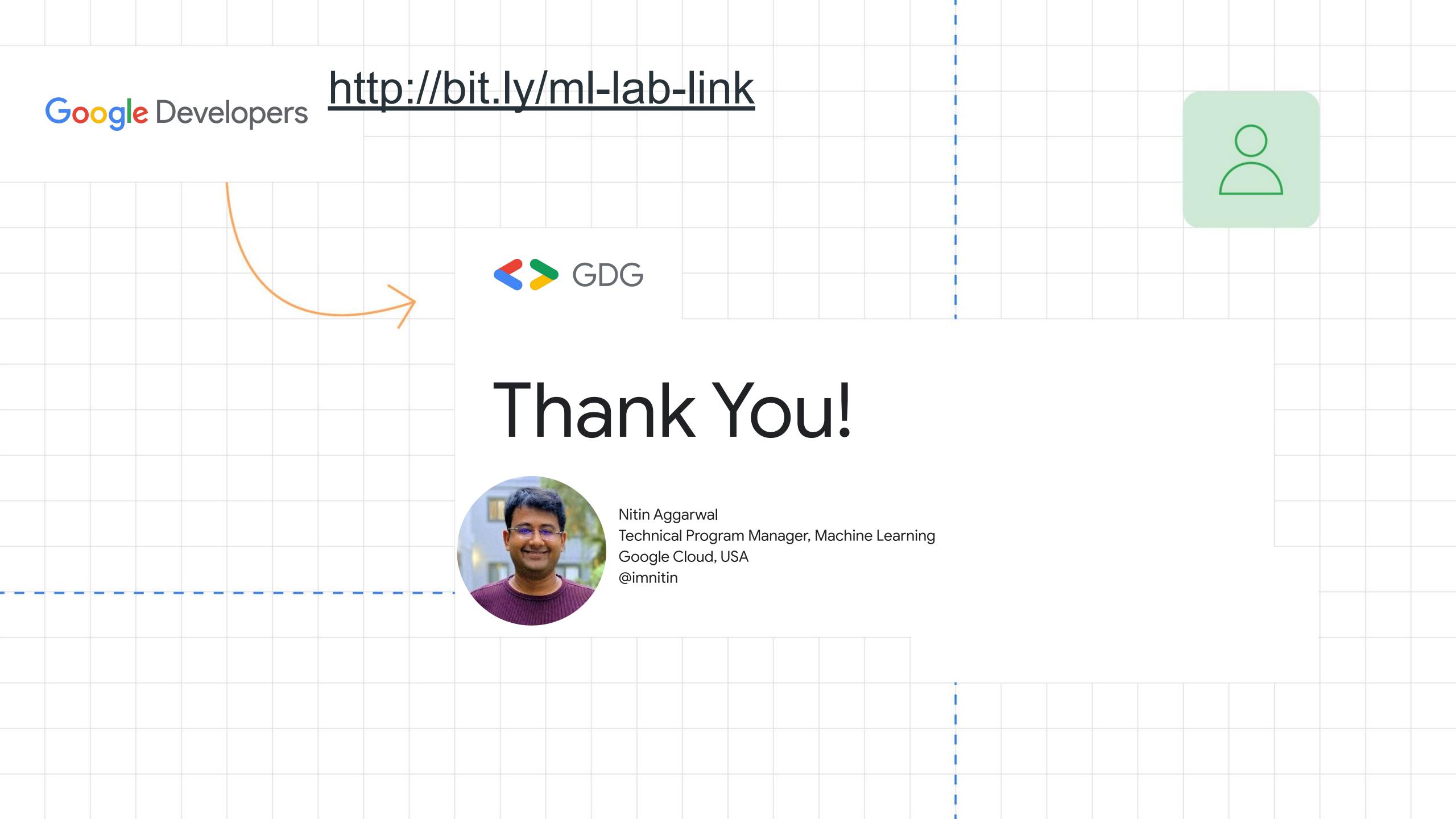
Days in advance

- make sure your participants have Qwiklabs access (e.g. vouchers), equipment, suitable network (capacity, firewalls) and optionally second displays.
- Walk through the chosen labs yourself upfront to familiarize yourself and chack for any issues

On the day

- (optional) Give a short intro talk with slides covering the topic in scope, such as AutoML or TensorFlow
- Introduce participants to Qwiklabs and point their attention to their necessary Qwiklabs accounts and ephemeral Google Account
- Distribute voucher codes
- Continously walk around to assist any issues
- (optional) walk through the lab yourself on the screen, to help some participants (especially if you have a co-facilitator)
- Wrap up on time even if not everyone is fully finished (the labs time out anyway), point them to the possilibity of finish later
- Conclude and prompt for questions





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- 1. Follow the provided link: http://bit.ly/ml-lab-link (link expires on 13th October, 2019 so hurry!)
- 2. You will be prompted to log into Qwiklabs. If you did not already have a Qwiklabs account, you'll need to create one. Creating an account is always free.
- 3. When you click "**start lab**", use the free pass you have in your account to take the lab.
- 4. You will be able to take the lab free of charge. (You must be logged in to see the benefit).