

Completion



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Google Cloud

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Architecting GCP: Infrastructure

Essential Infrastructure

- Cloud Virtual Networking
- Virtual Machines
- Cloud IAM
- Data Storage Services
- Resource Management
- Resource Monitoring

Augmented Infrastructure

- Interconnecting Networks
- Load Balancing
- Autoscaling
- Infrastructure Automation with Cloud API
- Infrastructure Automation with Deployment Manager
- Managed Services

Application Infrastructure

- Application Infrastructure Services
- Application Development Services
- Containers

This class is in three parts:

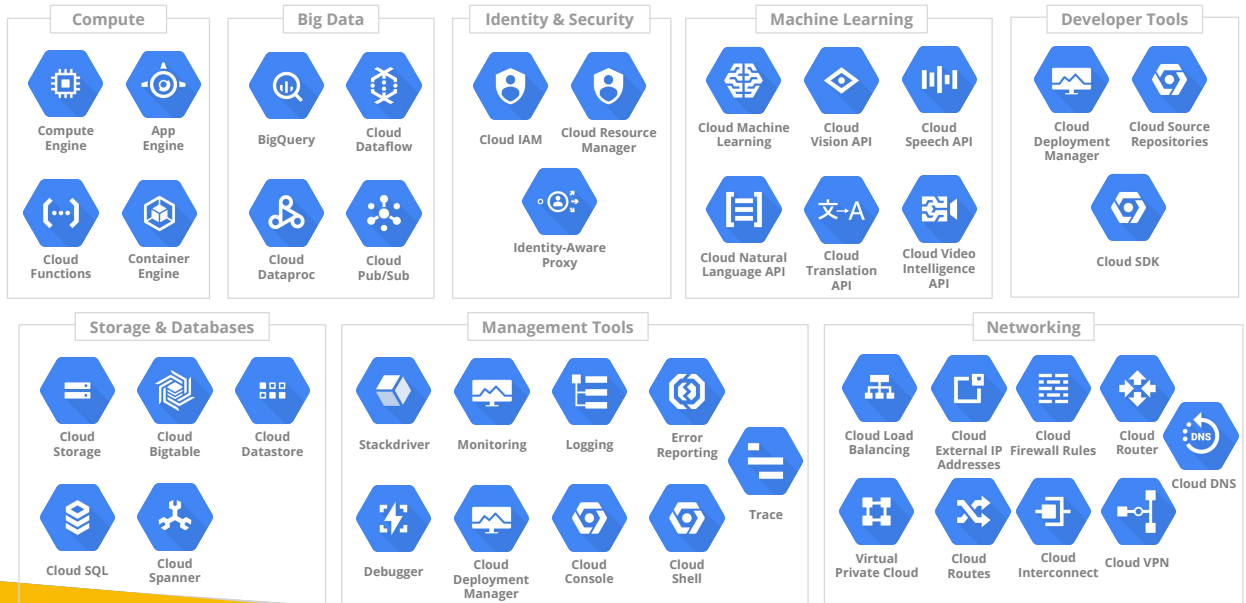
1. Essential Infrastructure - the basic building blocks
2. Augmented Infrastructure - systems built on top of the basics that multiply their power
3. Application Infrastructure - services specifically provided to make it easier to develop applications for your users

Details:

- Essential Infrastructure - the basic technologies and building blocks of all solutions in GCP
- Augmented Infrastructure - building on top of the base infrastructure for leverage, scale, and power
 - Building on top of networking, first connecting networks, then load balancing for high availability
 - Autoscaling is a bridge subject, it creates identical VMs in response to network load ... leading to the topic of Automation
 - Building up from Autoscaling, there are three kinds of automation
 - Programmatic automation using the Cloud API to create objects in GCP - programming in a supported language
 - Deployment Manager automation. A template approach using YAML files, python, and jinja to create objects in GCP.
 - Managed services with visibility to servers and clusters
 - Managed services without visibility to servers or clusters (serverless or NoOps)

- Application Infrastructure
 - We don't teach software development in this class, there is a track for that, but we do address the infrastructure services available to developers
 - Infrastructure Services - Services that help you connect the parts of your application together
 - Development Services - Services that help developers create code -- "code first" services
 - Containers - More complexity for greater portability

Google Cloud Platform (GCP)



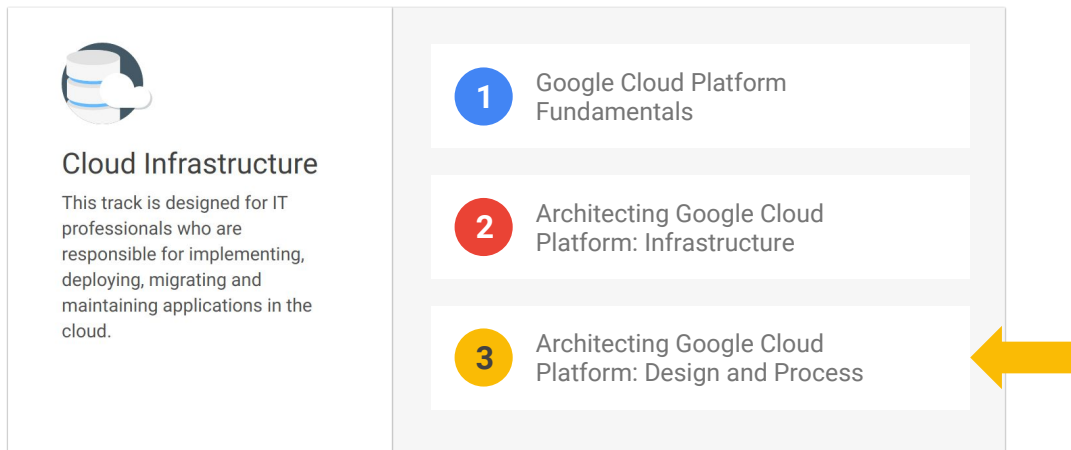
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CONGRATULATIONS! In the last three days you've learned about *70 subjects*.

You have learned about, been exposed to, or experienced in labs just about everything on Google Cloud Platform.

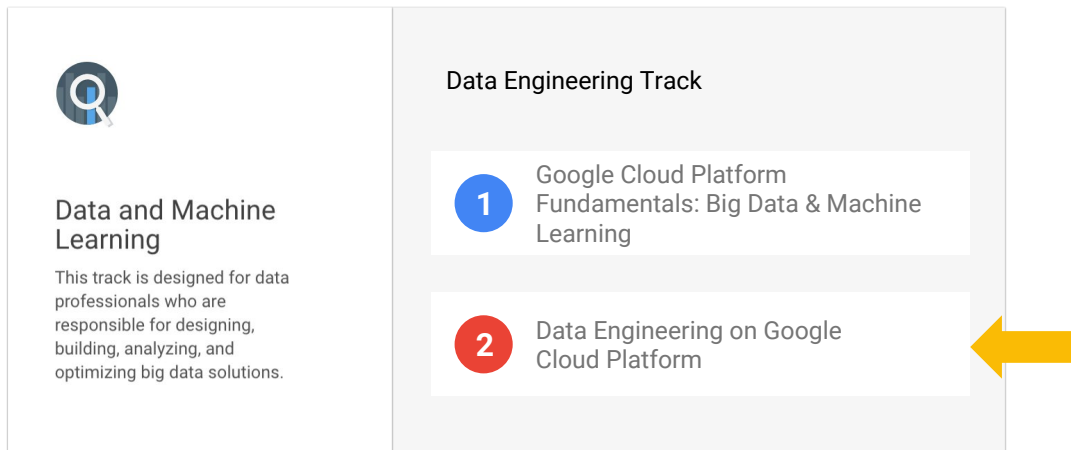
Next steps: Cloud Infrastructure Track



Architecting Google Cloud Platform: Infrastructure

<https://cloud.google.com/training/courses/architecting-design-process>

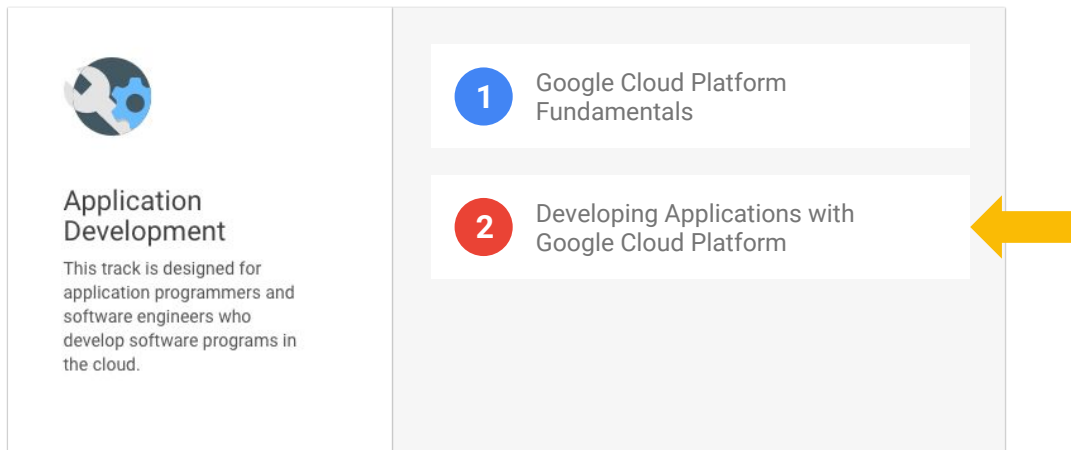
Next Steps: Data Engineering Track



Data Engineering on Google Cloud Platform

<https://cloud.google.com/training/courses/data-engineering>

Next steps: Application Development Track



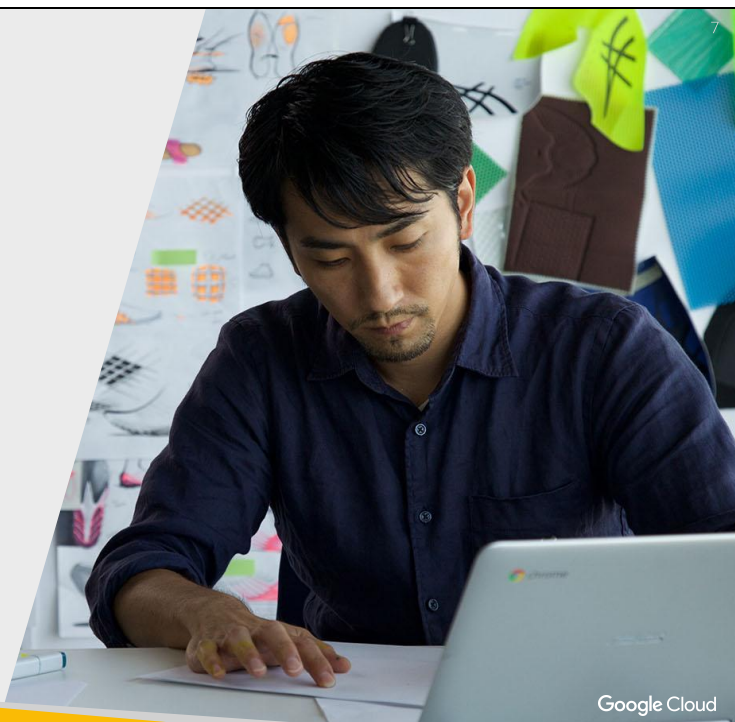
Developing Applications with Google Cloud Platform

<https://cloud.google.com/training/courses/developing-applications>

Please take 5 minutes to
give us feedback

g.co/CloudTrainEval

Any suggestions? Write to us.

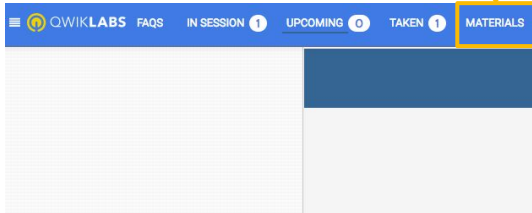


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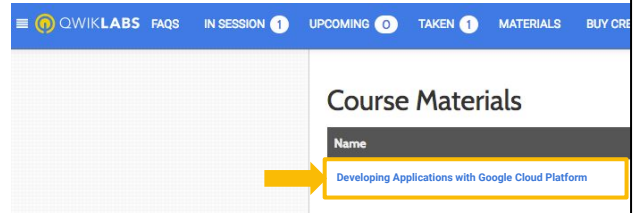
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End of class - materials...

- 1 Click on **Materials** on the top navigation bar



- 2 Select the class from the Course Materials list



- (1) Available for 2 years following the completion of a course.
- (2) Labs currently available for reference. May not work outside of Qwiklabs environment. No support provided. Qwiklabs lab time not currently available for sale separate from the class.
- (3) class material will appear only at the end of class, provided the student has completed at least one lab in the course.



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