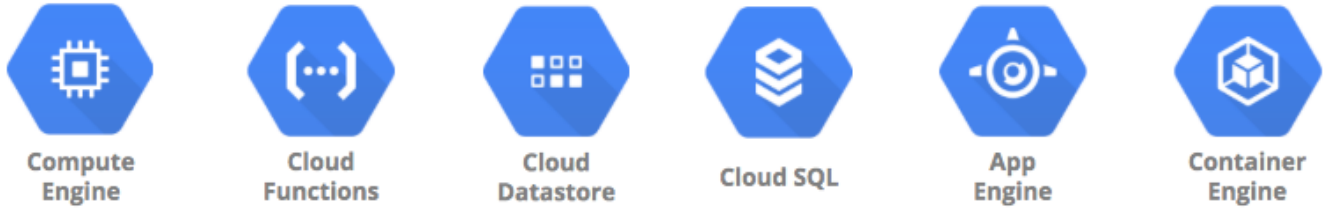
In28 Minutes

Google Certified Professional Cloud Architect

Getting Started



- GCP has *200+ services*. This exam expects knowledge of *40+ Services*.
- Exam *tests* your **decision making abilities**:
  - Which service do you choose in which situation?
  - How do you **trade-off** between resilience, performance and cost while not compromising on security and operational excellence?
- This course is **designed** to help you *make these tough choices*
- **Our Goal** : Enable you to architect amazing solutions in GCP

How do you put your best foot forward?

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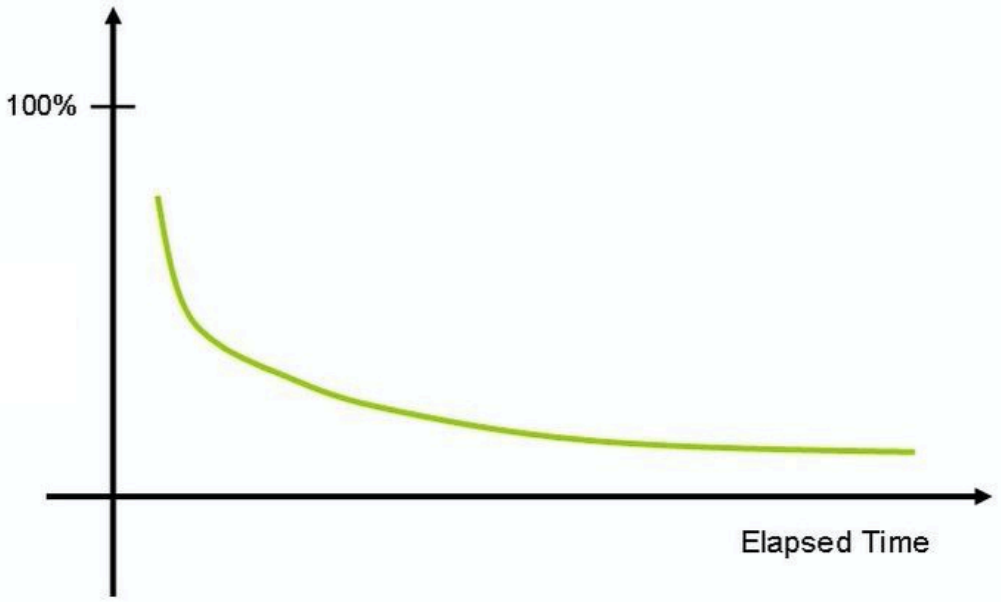
- **Challenging certification** - Expects you to understand and **REMEMBER** a number of services
- As time passes, humans forget things.
- How do you improve your chances of remembering things?
  - **Active learning** - think and take notes
  - **Review** the presentation every once in a while



Our Approach

- Three-pronged approach to reinforce concepts:
  - Presentations (Video)
  - Demos (Video)
  - **Two kinds of quizzes**:
    - Text quizzes
    - Video quizzes
- (Recommended) Take your time. Do not hesitate to replay videos!
- (Recommended) Have Fun!

FASTEST ROADMAPS

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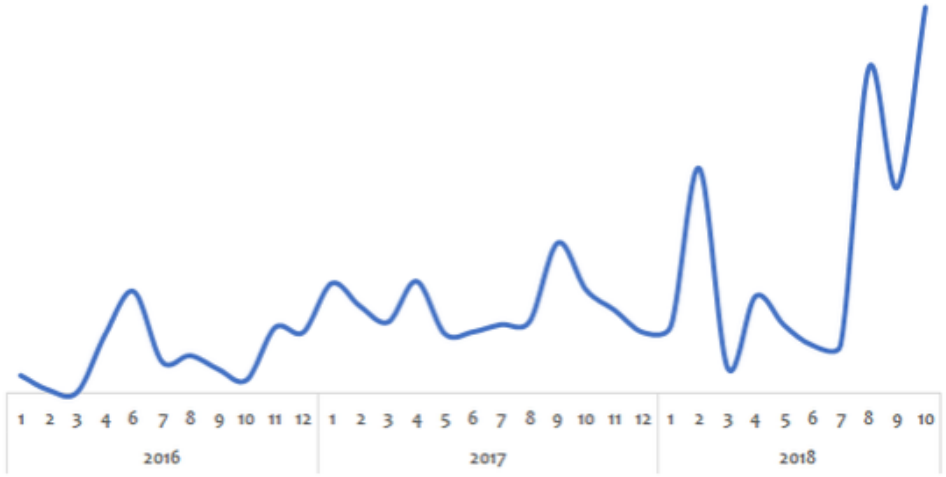
- Google Cloud Certifications
- Azure Certifications
- AWS Certifications
- DevOps
- Java Full Stack
- Java Microservices

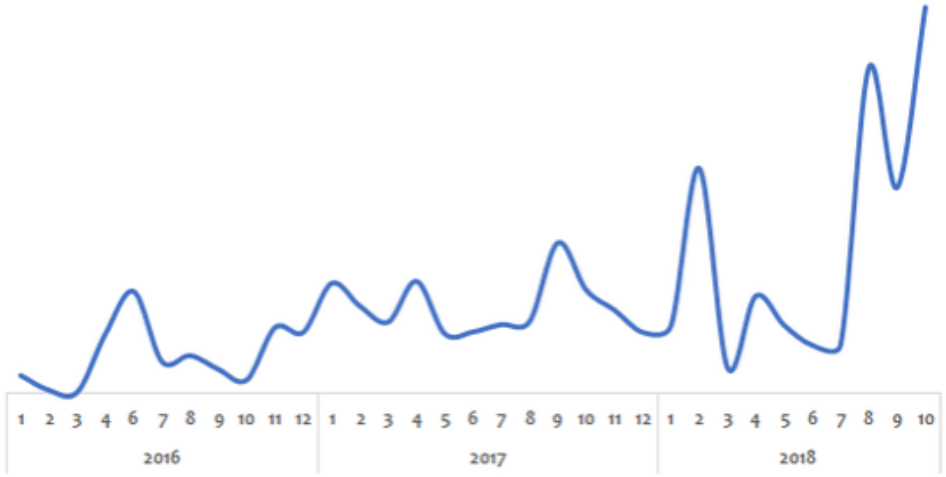
GCP - Getting started

Before the Cloud - Example 1 - Online Shopping App



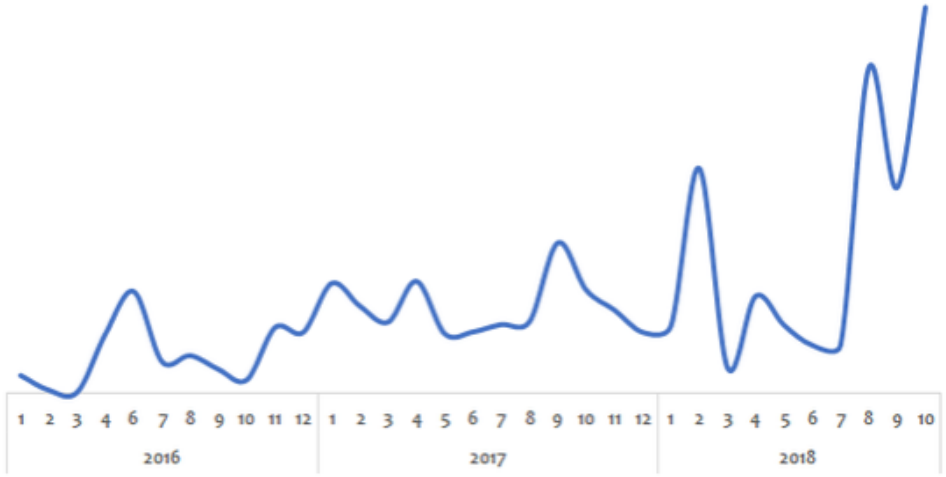
- Challenge:
  - Peak usage during holidays and weekends
  - Less load during rest of the time
- Solution (before the Cloud):
  - **PEAK LOAD provisioning** : **Procure** (Buy) infrastructure **for peak load**
    - What would the infrastructure be doing during periods of low loads?

Before the Cloud - Example 2 - Startup



- Challenge:
  - Startup suddenly becomes popular
  - How to handle the **sudden increase** in load?
- Solution (before the Cloud):
  - **Procure** (Buy) infrastructure assuming they would be successful
    - What if they are not successful?

Before the Cloud - Challenges



- High cost of procuring infrastructure
- Needs ahead of time planning (**Can you guess the future?**)
- Low infrastructure utilization (**PEAK LOAD** provisioning)
- Dedicated infrastructure maintenance team (**Can a startup afford it?**)

Silver Lining in the Cloud

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- How about **provisioning (renting) resources** when you want them and releasing them back when you do not need them?
  - **On-demand resource provisioning**
  - Also called **Elasticity**

Cloud - Advantages

- Trade **"capital expense"** for **"variable expense"**
- Benefit from massive **economies of scale**
- Stop **guessing** capacity
- Stop spending money running and maintaining data centers
- **"Go global"** in minutes

Google Cloud Platform (GCP)

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- **One of the Top 3** cloud service providers
- Provides a number of services (200+)
- Reliable, secure and highly-performant:
  - Infrastructure that powers 8 services with over 1 Billion Users: Gmail, Google Search, YouTube etc
- One thing I love : **"cleanest cloud"**
  - Net carbon-neutral cloud (electricity used matched 100% with renewable energy)
- The entire course is all about GCP. You will learn it as we go further.

Google Cloud

Best path to learn GCP!

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- Cloud applications make use of multiple GCP services
- There is **no single path** to learn these services independently
- HOWEVER, we've worked out a simple path!

Setting up GCP Account

- Create GCP Account