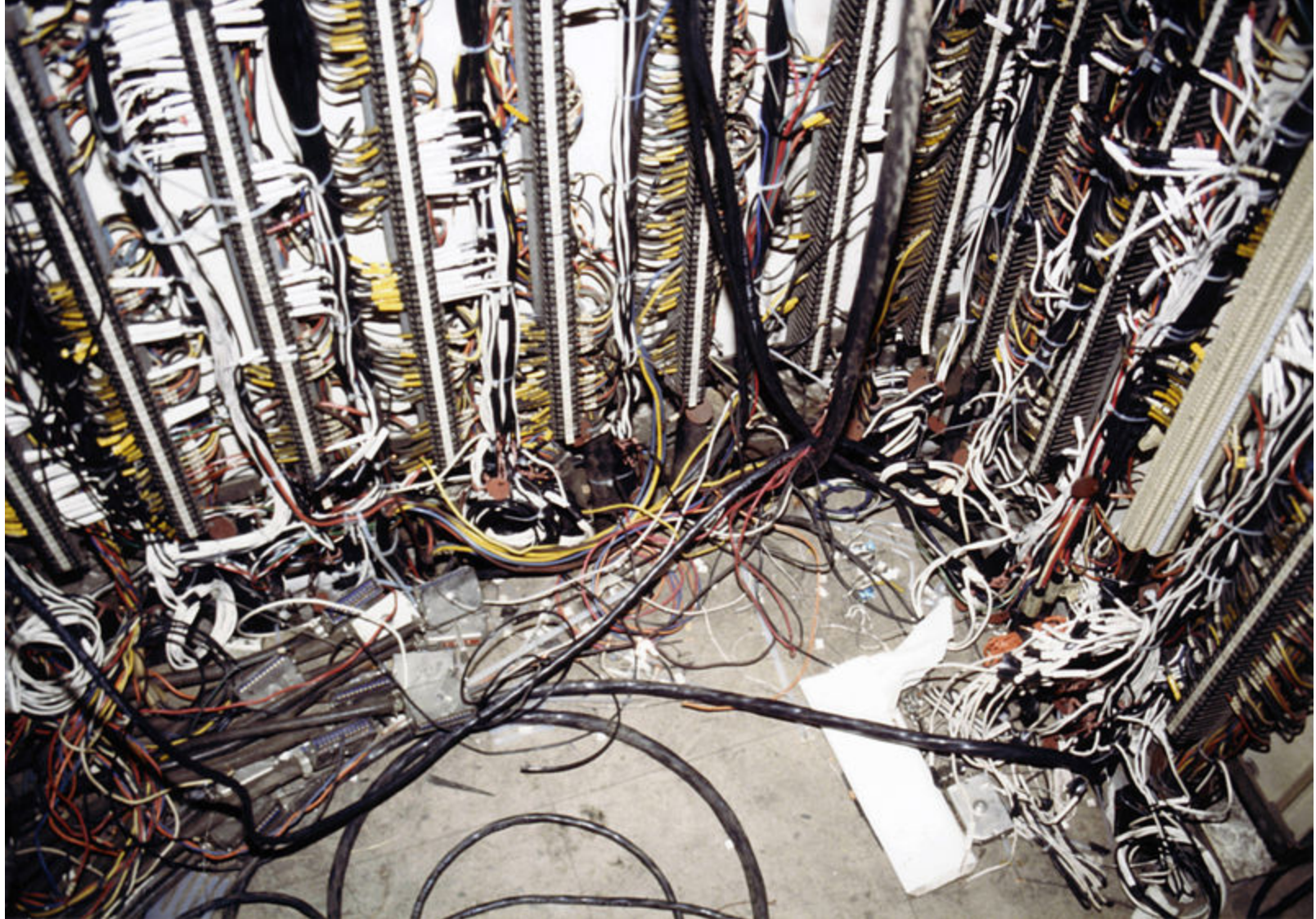


What your infrastructure shouldn't look like



Developing Awesome Apps on Google Cloud

Presented by



Eric Jiang (lorderikir)

This presentation's code/slides can be found on
<https://github.com/lorderikir/googlecloud-techtalk>



Talk Summary

1. Introduction to Google Cloud
2. Deep-Dive
 - a. Setting up SDK tools
3. Google App Engine
4. Other Tools

[NOTE]: You can play with Google Cloud Platform off your student accounts

Introduction

What is Google Cloud Platform?

Google Cloud Platform lets you build and host applications and websites, store data, and analyze data on Google's scalable infrastructure.

Composes of many applications, such as:

- Google App Engine (GAE)
- Google Container Engine (GCE)
- Google DataStore
- Cloud ML (built off TF tech)
- and much more

Compute



App Engine



Compute Engine



Container Engine

Storage



Cloud Storage



Cloud Datastore



Cloud SQL



Cloud Bigtable

Big Data



BigQuery



Cloud Dataflow



Cloud Dataproc



Cloud Pub/Sub

Services



Cloud Endpoints



Translate API



Prediction API

Google App Engine

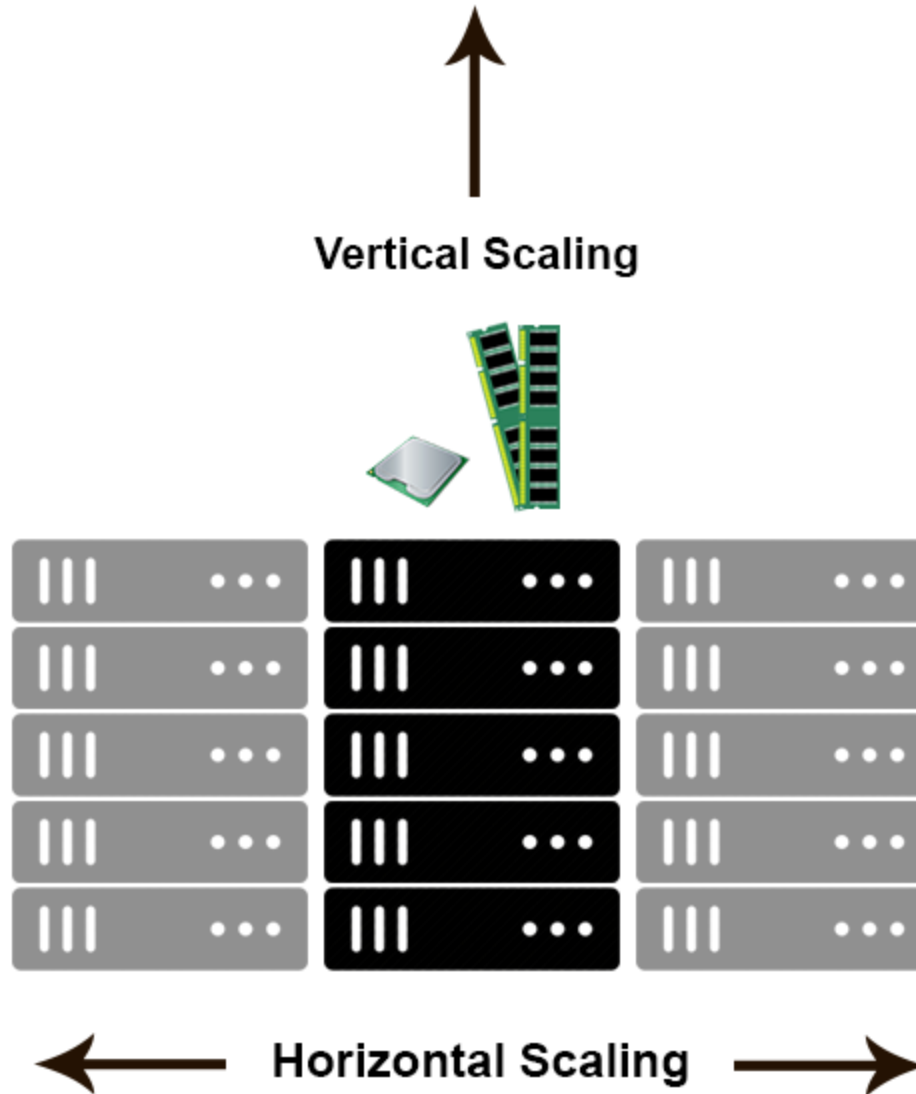
- designed around the fact that *Google just can't send everyone into their datacentre(s) and update applications across their many datacenters*
- Built off Remote Deployments

Language	Environment
Java 7 (Kotlin)	Standard
Java 8	Standard (Beta)/Flexible
Node.js	Flexible
Python 2,7	Standard
Python 3.5	Flexible

Standard Environments run in a specialised environment. Though building the application is more constrained than other environments, it means scaling up is faster.

Flexible Environment applications run off a Docker container, it is designed for applications that receive constant traffic.

Horizontal vs Vertical Scaling



Me when I look at Scaling:



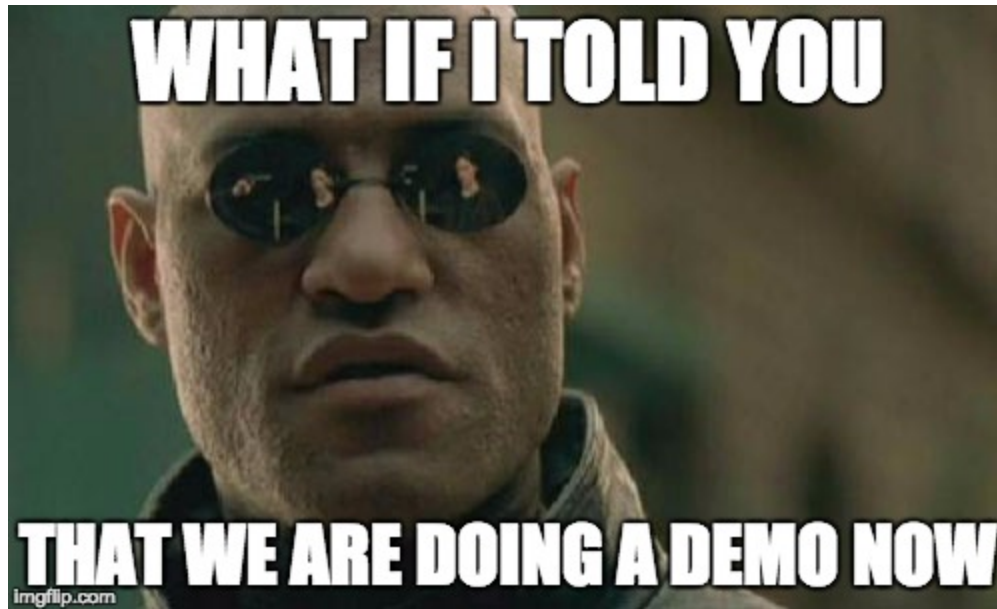
Installing the SDK

1. Install the SDK over <https://cloud.google.com/sdk/downloads>
2. Authenticate Using `gcloud init` (login using your Monash Student Account)
3. You may need Java (JDK 1.8) and Maven (MVN) Installed if you are using the package provided.

If you are interested in developing on the framework provided I strongly suggest for you to read the docs.

Framework: <https://github.com/MonashUnitPlanner/springboot-base-gae-java8>

Demo Section



Other Available Tools

- Cloud ML (Google Cloud Machine Learning): built off TensorFlow
- Compute Engine
- Kubernetes
- Container Engine
- Cloud Storage
- Network Balancer
- APIs such as NLP, Sentiment Analysis, DLP, etc.
- and Much more

Questions