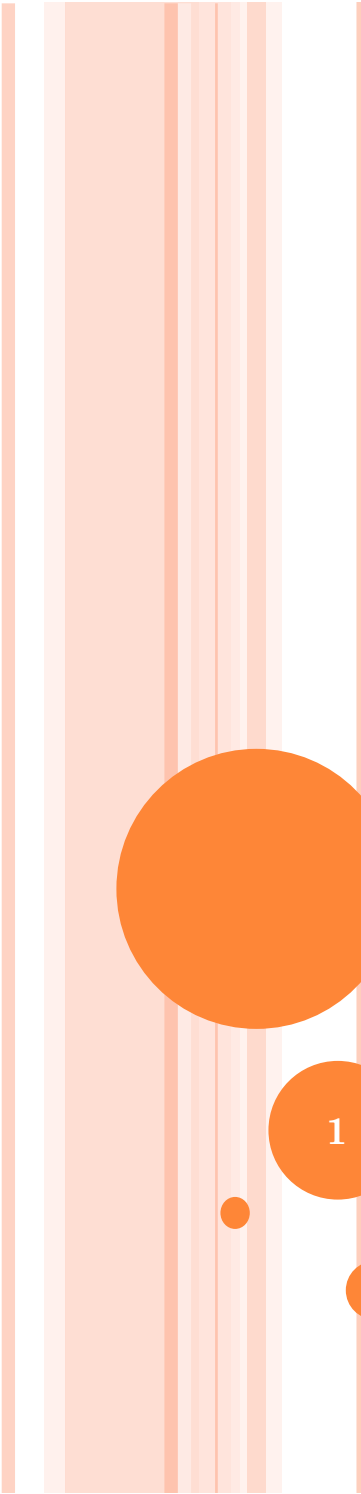




EE4221: CLOUD COMPUTING:

GOOGLE CLOUD SERVICES

Dr Eric Wong

1

DO YOU REMEMBER THE FUNDAMENTAL
IDEA OF THE CLOUD?

**Why do it yourself if you can
find/pay someone to do it for
you?**

GOOGLE'S CLOUD PRODUCTS

○ Google Compute Engine

- an infrastructure as a service (IaaS) that delivers virtual machines with disk storage running in Google's data centers and worldwide fiber network.
- Compute Engine supports enable scaling from single instances to global, load-balanced cloud computing.

○ Google App Engine

- a platform as a service (PaaS) for building scalable web applications and mobile backends.
- App Engine will scale your application automatically in response to the amount of traffic it receives so you only pay for the resources you use.
- Just upload your code and Google will manage your app's availability. There are no servers for you to provision or maintain.

Source: <http://cloud.google.com>

GOOGLE'S CLOUD PRODUCTS (CONT'D)

- **Google Cloud Storage** - Store, access and manage your data on Google's storage infrastructure.
- **Google Cloud Bigtable**
 - Google's NoSQL Big Data database service. It's the same database that powers many core Google services, including Search, Analytics, Maps, and Gmail.
 - designed to handle massive workloads at consistent low latency and high throughput, so it's a great choice for both operational and analytical applications, including IoT, user analytics, and financial data analysis.

Source: <http://cloud.google.com>

GOOGLE'S CLOUD PRODUCTS (CONT'D)

- **Google Cloud Datastore** – a highly-scalable NoSQL database for your web and mobile applications. Cloud Datastore scales automatically to handle your applications' load.
- **Google Cloud SQL** – a fully-managed database service that makes it easy to set-up, maintain, manage and administer your relational MySQL databases in the cloud.
- **Google BigQuery** - Analyze Big Data in the cloud using SQL and get real-time business insights in seconds using Google BigQuery.

Source: <http://cloud.google.com>

GOOGLE APPS

(SOFTWARE AS A SERVICE - SAAS)

- **Gmail** - Email with Google-powered search, up to 30GB of storage, offline support, custom email addresses, and much more.
- **Calendar** - Easily schedule meetings at times that work for everyone, get meeting reminders, and share calendars.
- **Drive** - Google Drive allows you to store your files in the cloud, share them, and have access to them from anywhere.
- **Docs** - Create, share and work on documents with your whole team in real-time.
- **Sheets** - Manage spreadsheet data faster with click-to-edit charts and discussion style comments.
- **Slides** - Create presentations together, embed videos, and never press save again.

<http://google.com>

Q&A