

# 15CSE337 CLOUD COMPUTING & SERVICES

Course Overview

**ABOUT THIS COURSE...**

# Why did you choose this Elective?



Pls. Visit following link to record your Answer

<https://www.menti.com/>

# Have you used any Cloud systems?



Pls. Visit following link to record your Answer

<https://www.menti.com/>

# Cloud Computing Applications

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Online File storage

# Cloud Computing Applications



Online File storage



Image Album

# Cloud Computing Applications



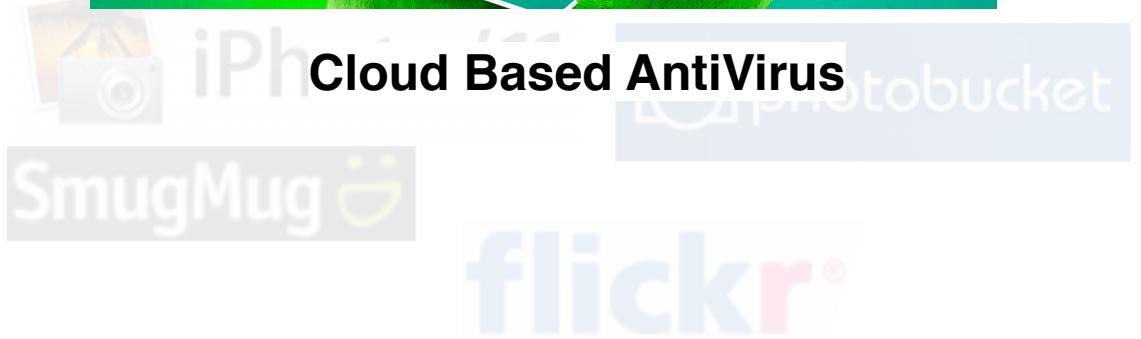
Online File storage



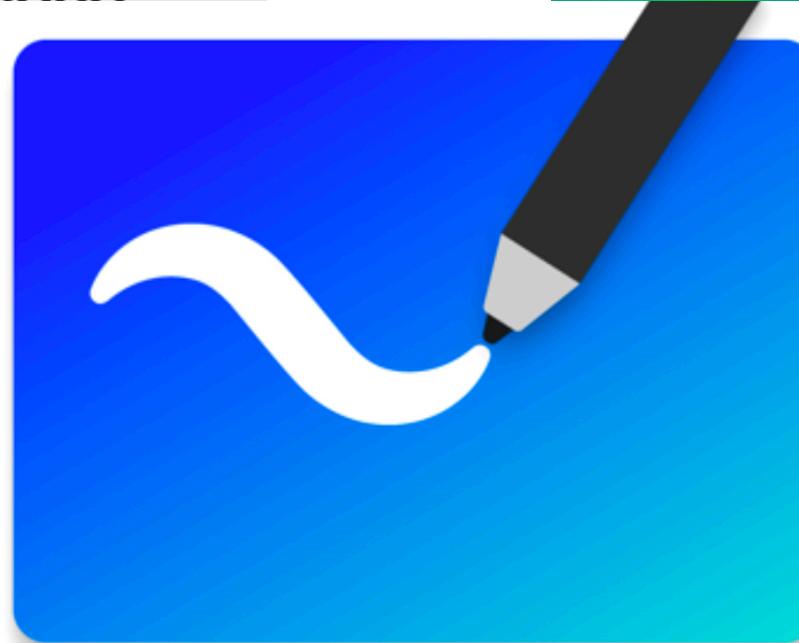
# Cloud Computing Applications



Cloud Presentation Software



# Cloud Computing Applications



Cloud Presentation Software



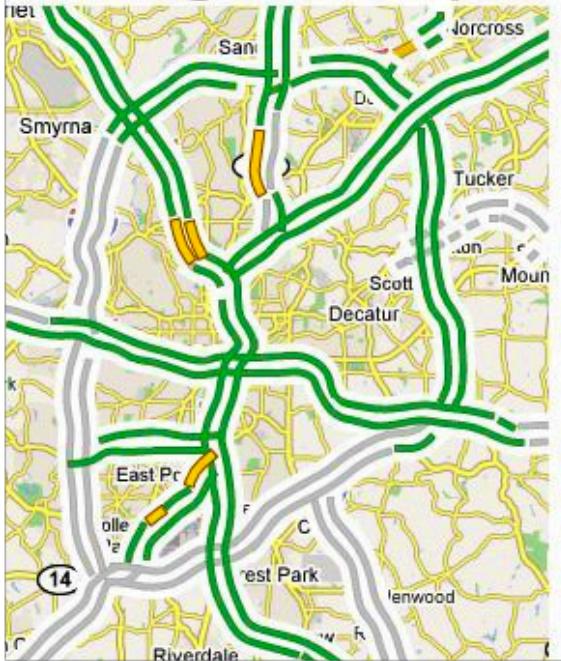
Cloud Based AntiVirus



Cloud Word Processing S/W

# Cloud Computing Applications

Google Maps

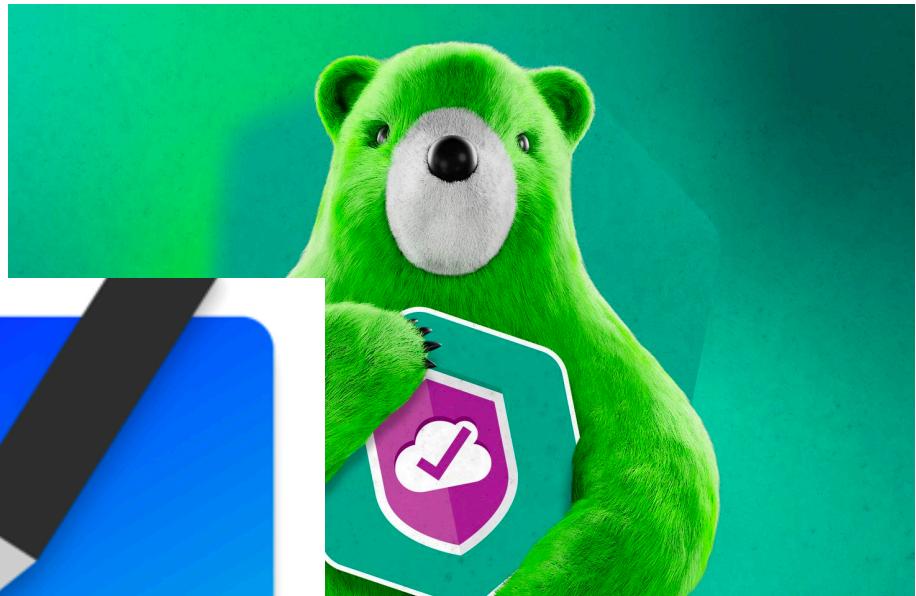


MapQuest



Cloud Presentation S/W

Cloud Word Processing S/W

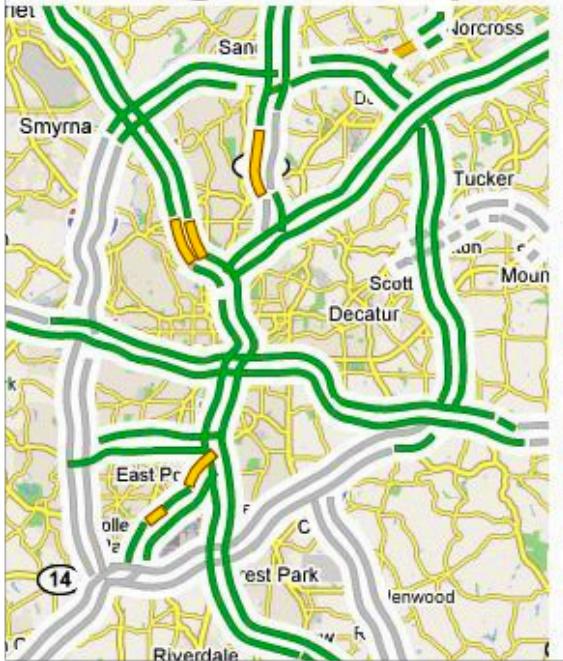


id Based AntiVirus

flickr®

# Cloud Computing Applications

Google Maps



MapQuest



Cloud Presentation SOTW

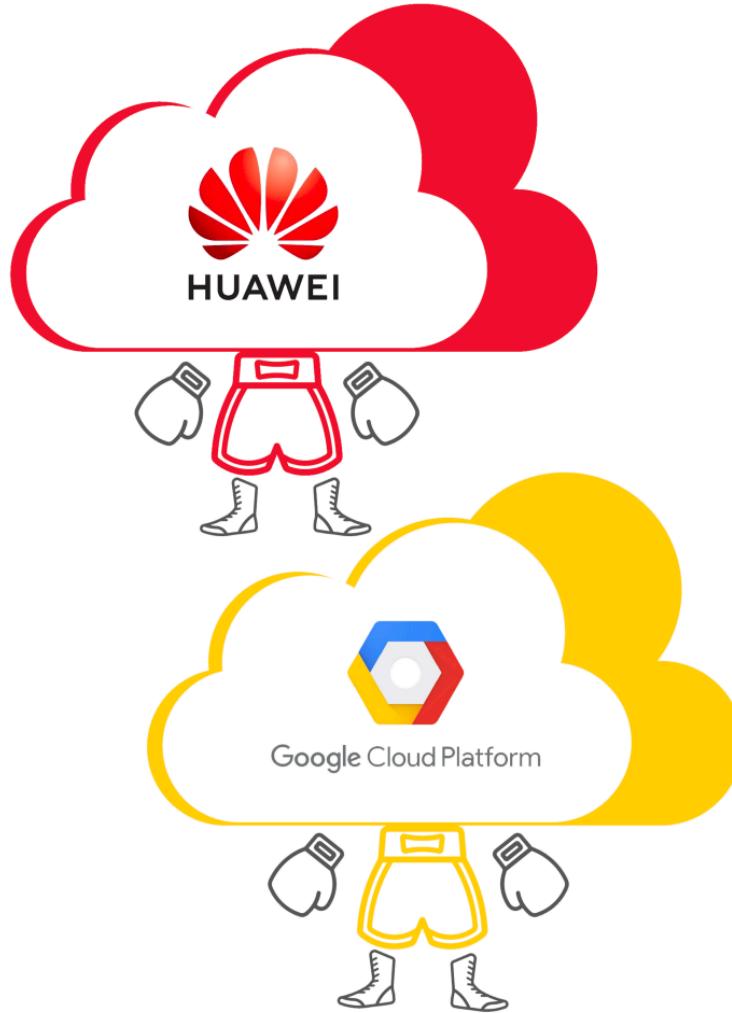
Cloud Word Processing S/W

Twitter Related Applications

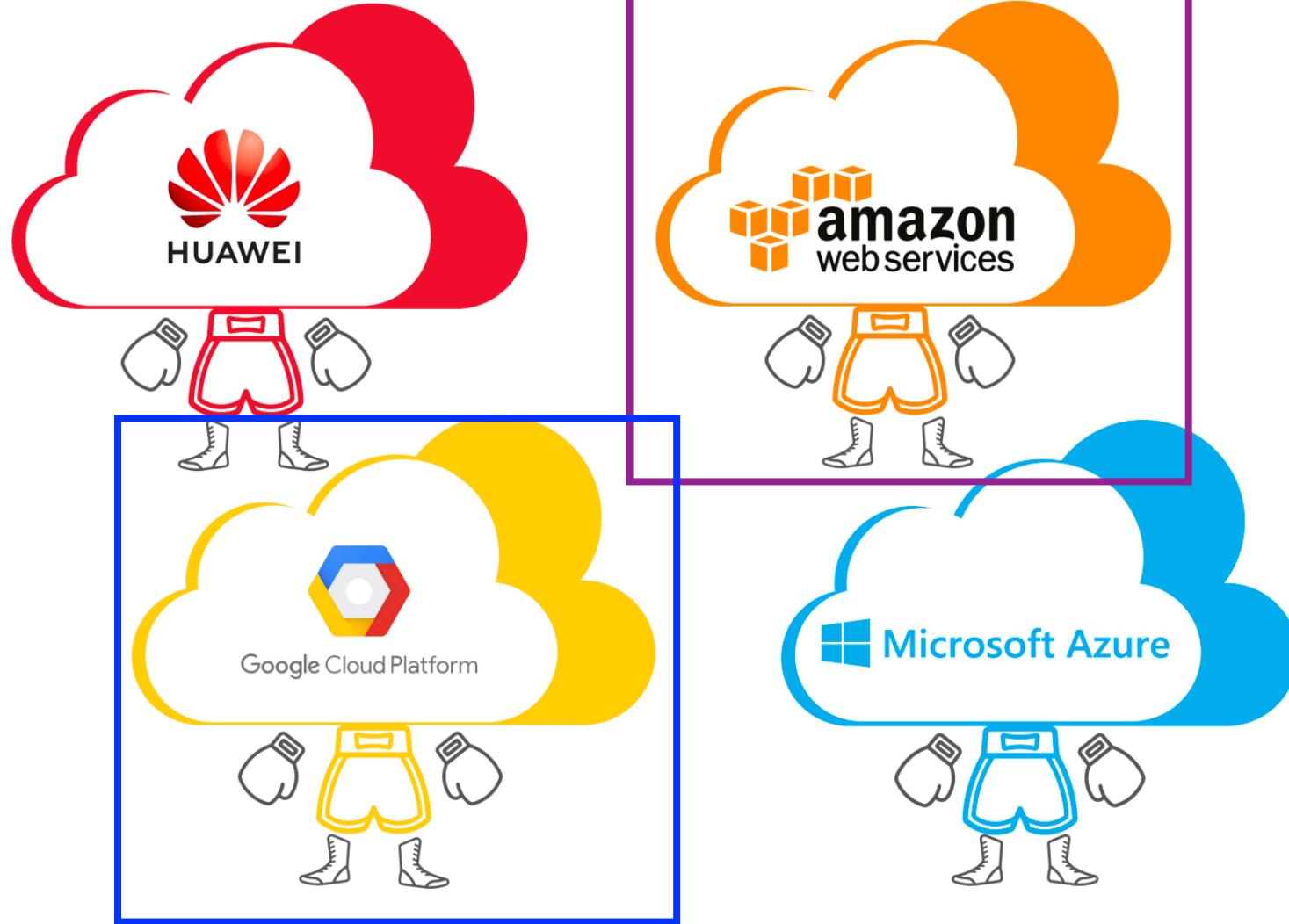


Top Cloud Computing Platform

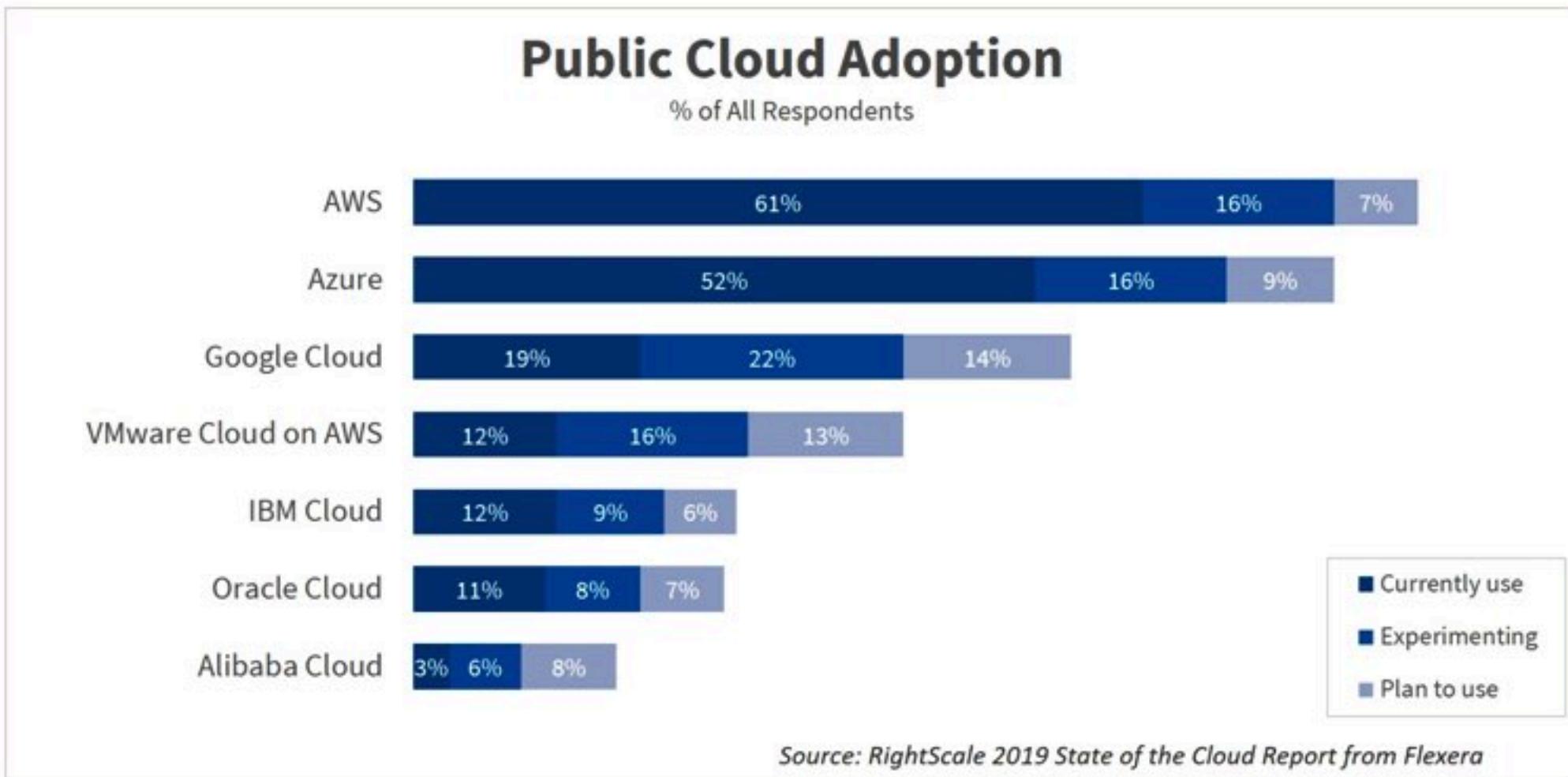
# Top Cloud Computing Platform



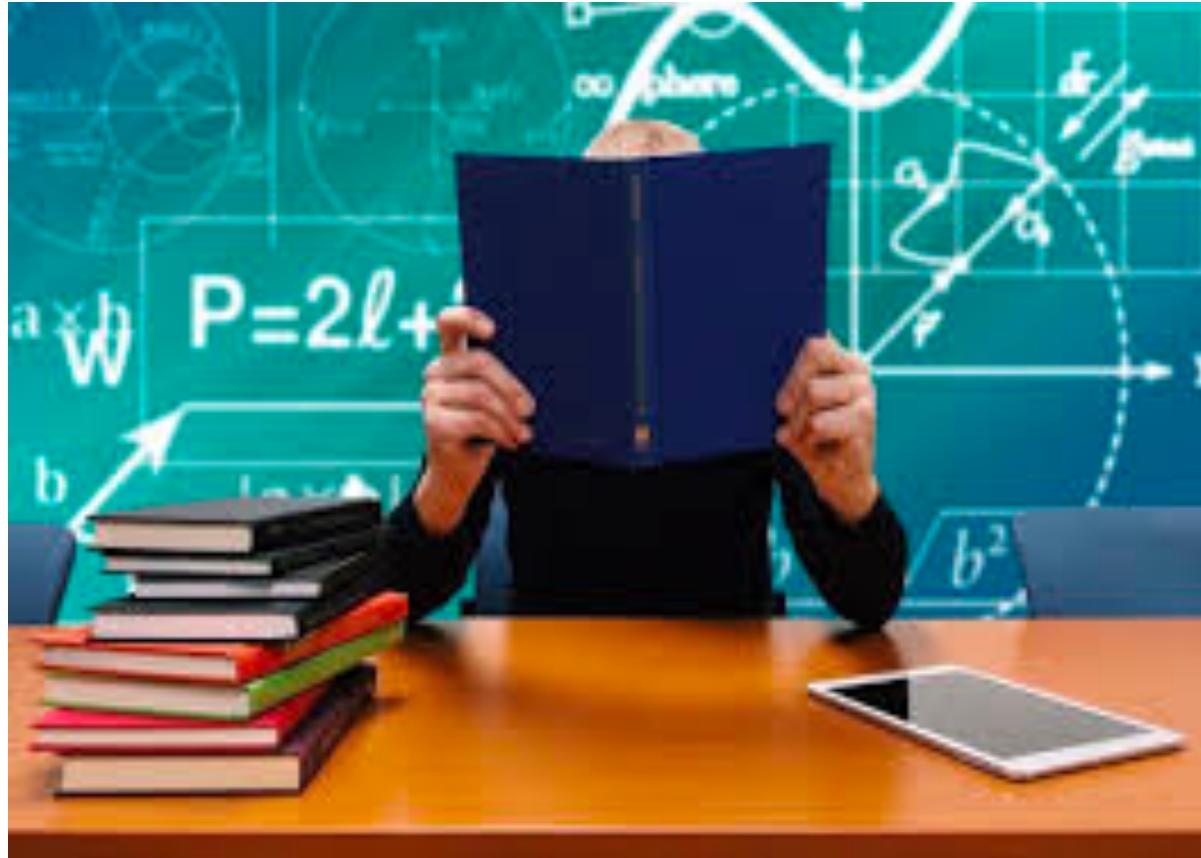
# Top Cloud Computing Platform



# Top Cloud Computing Platform



# What is the outline of the course?



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Compute Engine

Provides secure, resizable compute capacity in the cloud

# What is the outline of the course?



Compute Engine



Secure, durable, and scalable  
object storage infrastructure

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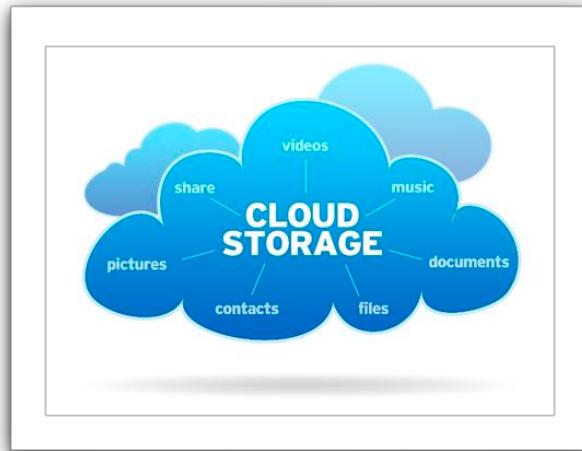


Compute Engine

Cloud Relational Database



Easy to set up, operate, and scale a relational database in the cloud



# What is the outline of the course?



Compute Engine

Cloud Relational Database



Build and run applications and services without thinking about servers



Serverless Computing

# What is the outline of the course?

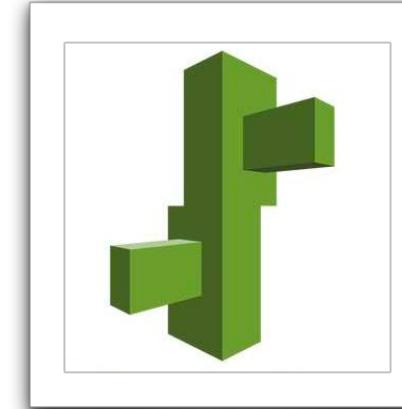


Compute Engine

Cloud Relational Database



Elastic Beanstalk



Simply upload your code and Elastic Beanstalk automatically handles the deployment



Serverless Computing

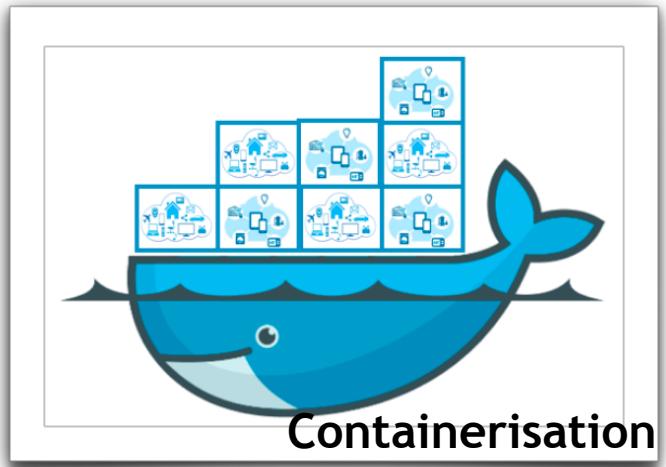
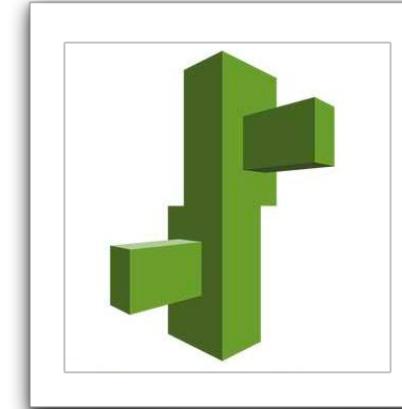
# What is the outline of the course?



Cloud Relational Database



Elastic Beanstalk



Containerisation



Serverless Computing

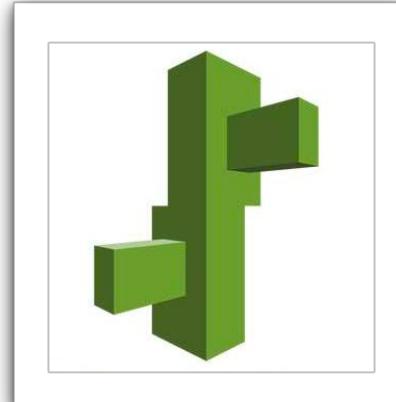
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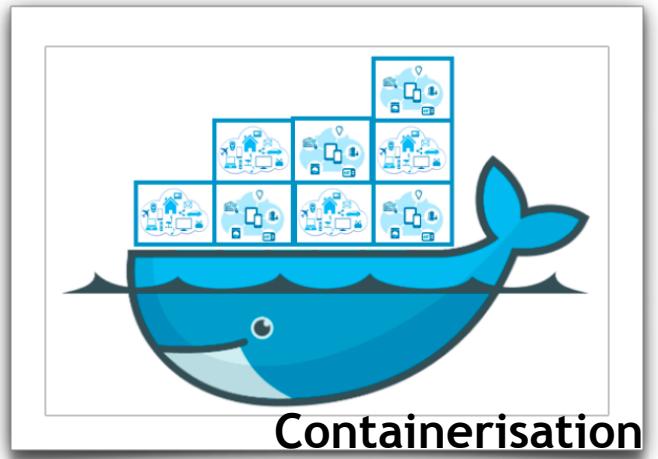
Cloud Relational Database



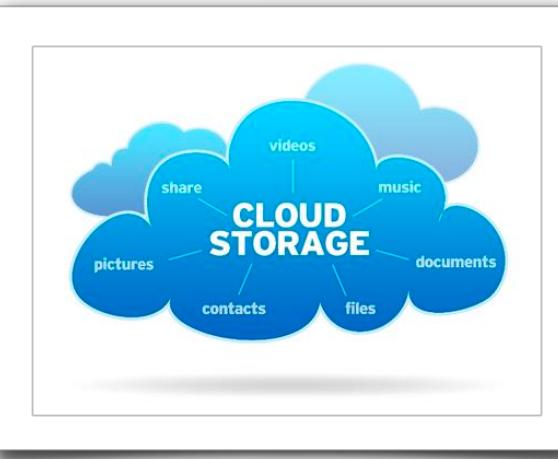
Elastic Beanstalk



Kubernetes



Containerisation



Serverless Computing

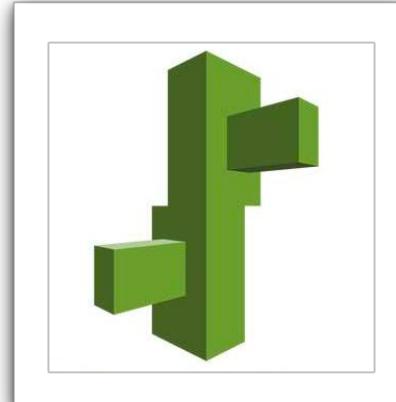
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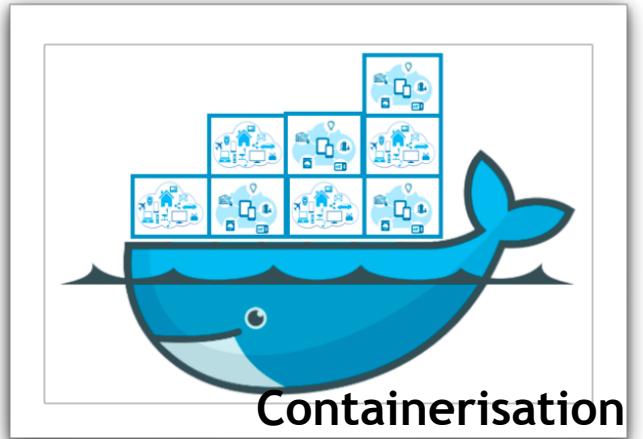
Cloud Relational Database



Elastic Beanstalk



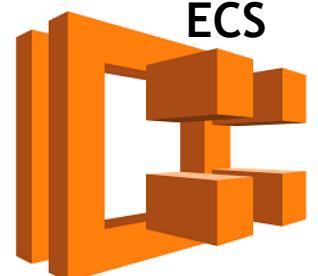
Kubernetes



Containerisation



Serverless Computing



Fully managed  
container  
orchestration  
service

# Course Outcome

COs	Course Outcome Description	BTL
CO1	Understand the basic principles of cloud computing	L2
CO2	Learn how Cloud Native application development happens	L3
CO3	Apply cloud native application development for containerization and container orchestration	L3
CO4	Distinguish different types of cloud services – Delivery models, Deployment models	L4
CO5	Implement different solution approaches in Cloud – containers in public cloud, setting up private cloud and convert monolithic applications to containers	L3

# Evaluation Pattern

Type	Component	Marks	Weight
INTERNAL	Quiz	20	70%
	Lab Evaluation	40	
	Case Study	10	
END SEMESTER	Online Exam	15	30%
	Viva	15	

# Pre-requisites

- Need to
  - Know how to google efficiently ☺
  - Have your data connection ready to explore the world
- Willingness to
  - Learn a lot of new technologies that shape the future
  - Do a lot of experiments of your own at your spare time

# Mode of delivery

- Lecture classes
- Interactive Quiz
- Practical hands-on
  - Request you to use your laptops for the hands-on sessions
  - Mobile data connections to be used for accessing internet
  - To start with, have Visual Studio Code / Atom or any of your favourite JS editor setup in your computer to experiment JavaScript based application development
- Programming Assignments