



19CSE445 Cloud Computing

Lecture 1 - Course Introduction

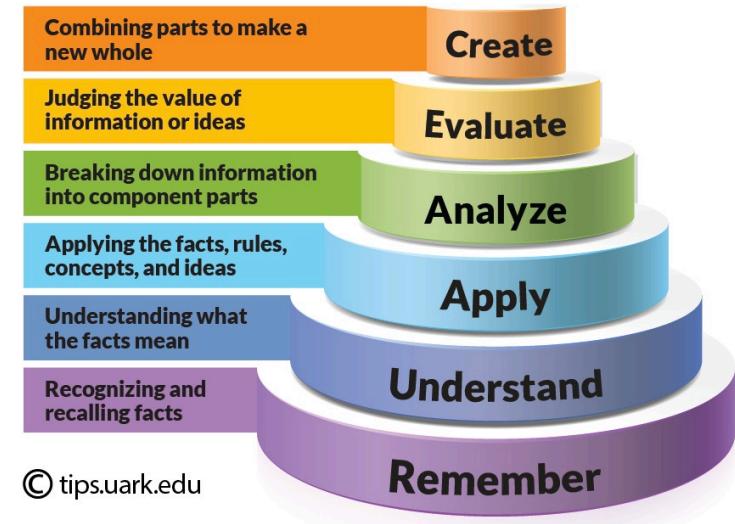
ABOUT THIS COURSE...

EVALUATION PATTERN

Component	Assesment	Online	Viva	Marks
Internal [70 Marks]	Mid Term	10	10	20
	Continuous Assessment (T)			
	Quiz-1 - 3 Marks	10	-	10
	Quiz-2 - 3 Marks			
Internal [70 Marks]	Quiz-3 - 4 Marks			
	Continuous Assessment (L)			
	Evaluation -1 - 10 Marks	40	-	40
	Evaluation -2 - 10 Marks			
External [30 Marks]	Case study - 10 Marks			
	Online GCP course - 10 Marks			
	End Semester	10	20	30

COURSE OUTCOMES

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



Why did you choose this Elective?



Why did you choose this Elective?



Ganesh Neelakanta Iyer, Ph. D • 7:11 PM

It's good

Work is primarily learning. Learning a lot of new tools, technologies

Sir believe me, everything is about dockers, kubernetes,
Continuous integration, aws, gcp, terraform,

Everything we sparked at amrita in cloud computing and software
engineering

<https://www.comp.nus.edu.sg/cs/bio/gni/>

Why did you choose this Elective?



Ganesh Neelakanta Iyer, Ph. D .



It's been a long time since I last posted anything. Learning something new is always fun. I am currently learning cloud computing. Learning is about fun and enjoyment. I am currently learning AWS, GCP, Azure and Cloud Computing. Every day I learn something new and am excited about what's ahead at amrita i



Yaswanthram Ponnada • 1st

Microsoft Learn Student Ambassador | AWS Certified Solutions Architect...

1mo • Edited •

...

My story:

2 years back, I don't have any certain knowledge on cloud computing and during my 4th semester, I attended Google cloud on air program and I felt it was interesting and started exploring about cloud services provided by GCP, Azure and AWS. Later, I completed Google cloud Readiness program and appeared for "Google cloud certified Associate cloud Engineer" without proper preparation and as a result, BIG FAILURE.

Then explored AWS and gained knowledge with the help of "AWS Certified Solutions Architect Official Study Guide: Associate Exam" by David Clinton and AWS training resources and as a result, this time it's a SUCCESS.

You might wonder 😊, why I shifted from GCP to AWS?

Here, certifications doesn't matter at all. I learned AWS, GCP, Azure and today, I am confident enough to work on multiple cloud platforms I am very thankful to [Gowtham Ramesh](#) sir for complete guidance throughout this journey.

**#cloud #aws #training #success #devops #cloudcomputing
#awscommunity #awssolutionarchitectassociate**

Why did you choose this Elective?

The screenshot shows a messaging interface with two messages. The first message is from G Karthick Chandran, who is identified by a blue circular icon with 'GC' and a green checkmark, and the text 'G Karthick Chandran - [CB.EN.U4CSE18541] 05:40'. The message content is: 'Sir, Thank you very much for our Cloud Computing course this sem. We learnt a lot sir, especially while implementing. It was really useful for my AWS CP exam and my internship interviews too. Thanks again sir!' The second message is from Yaswanthram Ponnada, whose profile picture is a small circular image of a person, and the text 'Yaswanthram Ponnada • 1st'. The message content is: 'Sir, I also wanted to thank you especially for the cloud computing class, last year. It really helped me because from my company they informed I'll be working with the e-commerce team. I think it's possible because I answered to some questions from AWS and other cloud related concepts in the interview.' Below this message is a reply from G Karthick Chandran: 'Thank you sir :)'.

Yaswanthram Ponnada • 1st

G Karthick Chandran - [CB.EN.U4CSE18541] 05:40

Sir, Thank you very much for our Cloud Computing course this sem. We learnt a lot sir, especially while implementing. It was really useful for my AWS CP exam and my internship interviews too. Thanks again sir!

Sir, I also wanted to thank you especially for the cloud computing class, last year. It really helped me because from my company they informed I'll be working with the e-commerce team. I think it's possible because I answered to some questions from AWS and other cloud related concepts in the interview.

Thank you sir :)

10:02 PM

Have you used any Cloud systems?



Cloud Computing Applications



Online File storage

Cloud Computing Applications



Online File storage

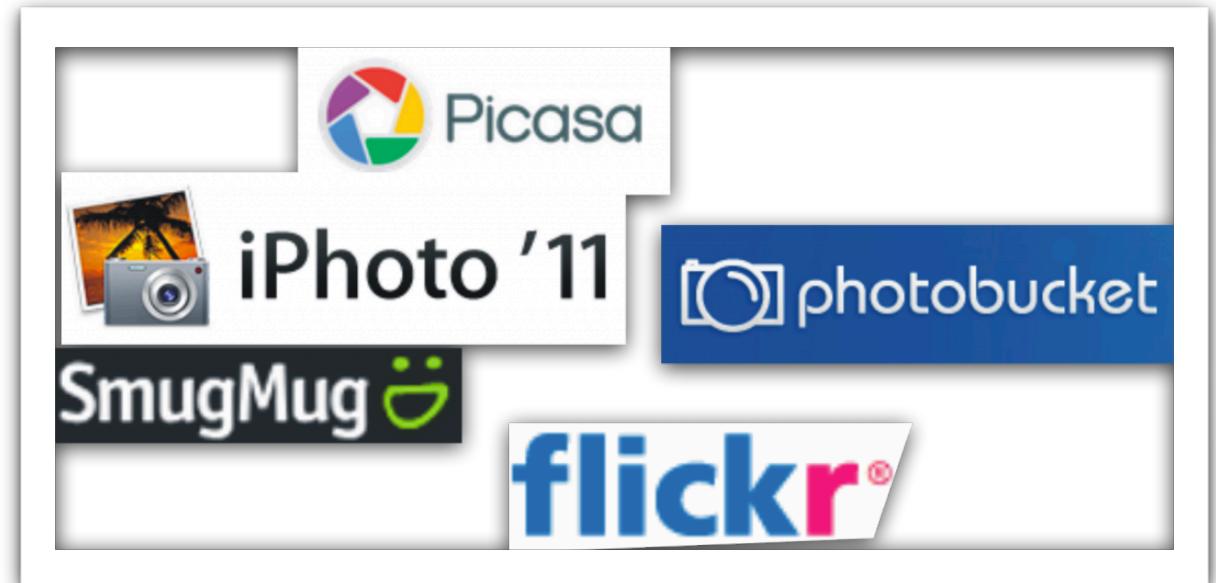


Image Album

Cloud Computing Applications



Online File storage



iPh
Cloud Based AntiVirus

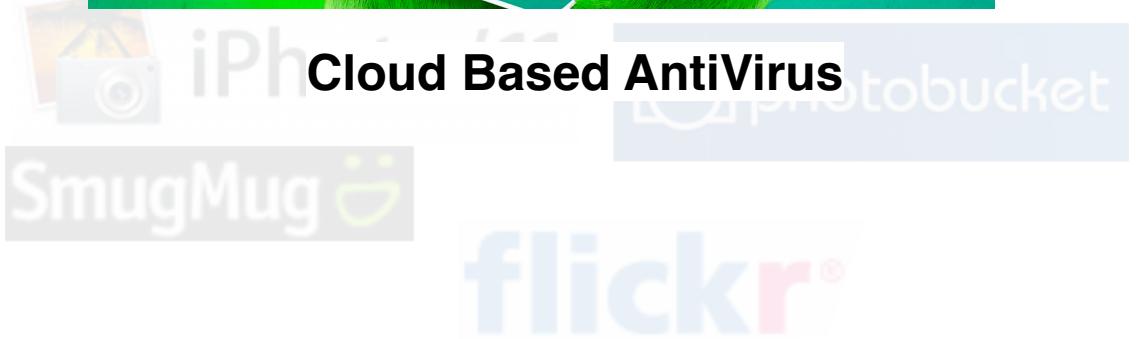
SmugMug

flickr®

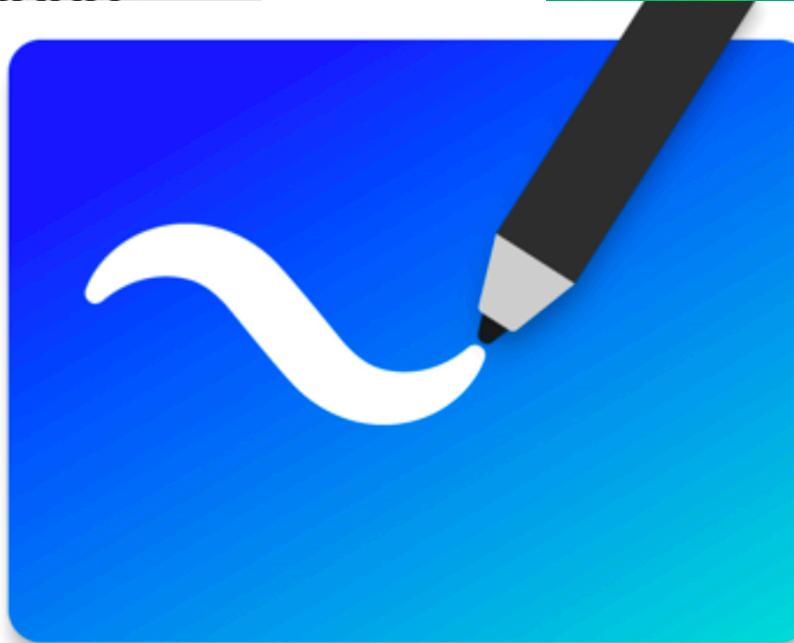
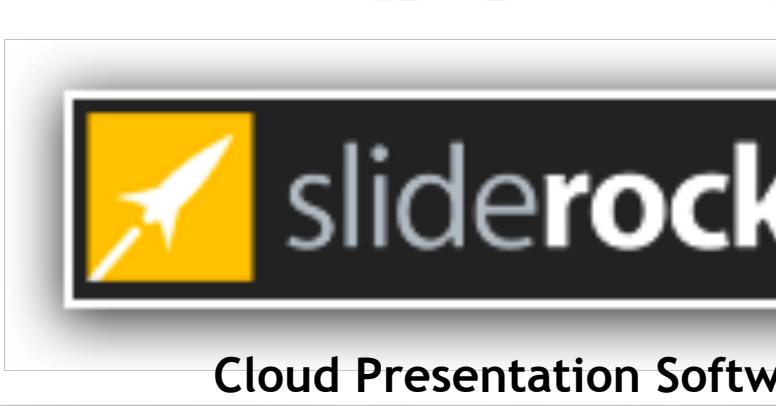
Cloud Computing Applications



Cloud Presentation Software



Cloud Computing Applications



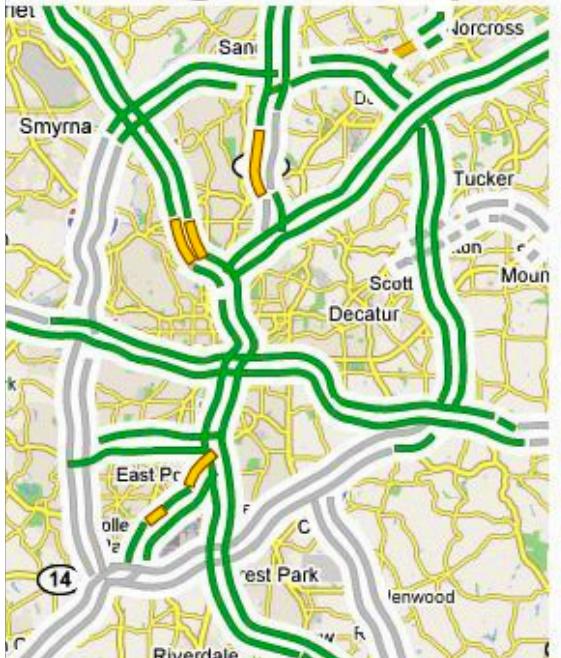
Cloud Word Processing S/W



flickr®

Cloud Computing Applications

Google Maps



MapQuest



Cloud Presentation S/W

Cloud Word Processing S/W

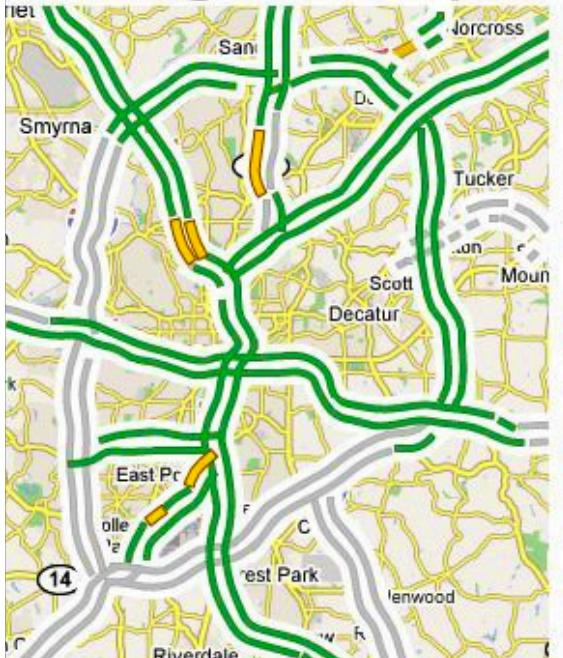


id Based AntiVirus

flickr®

Cloud Computing Applications

Google Maps



MapQuest



Cloud Presentation SOTW

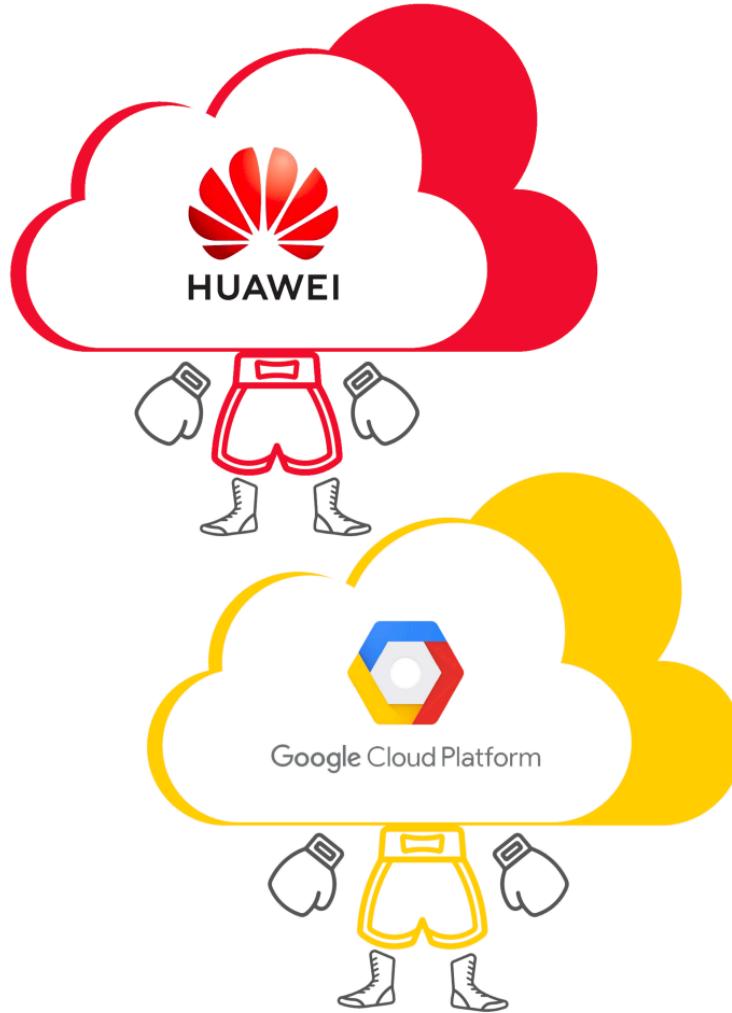
Cloud Word Processing S/W

Twitter Related Applications

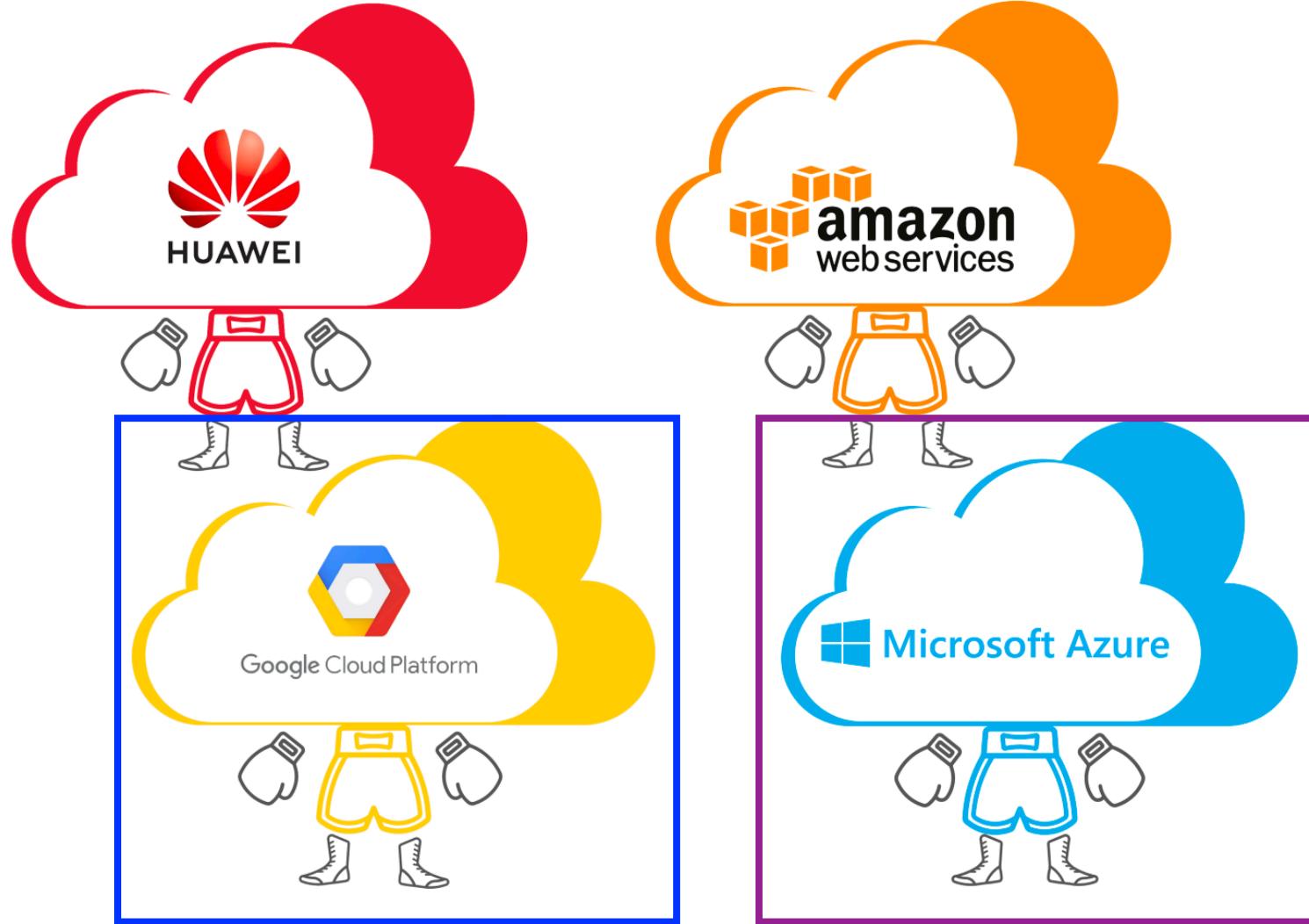


Top Cloud Computing Platform

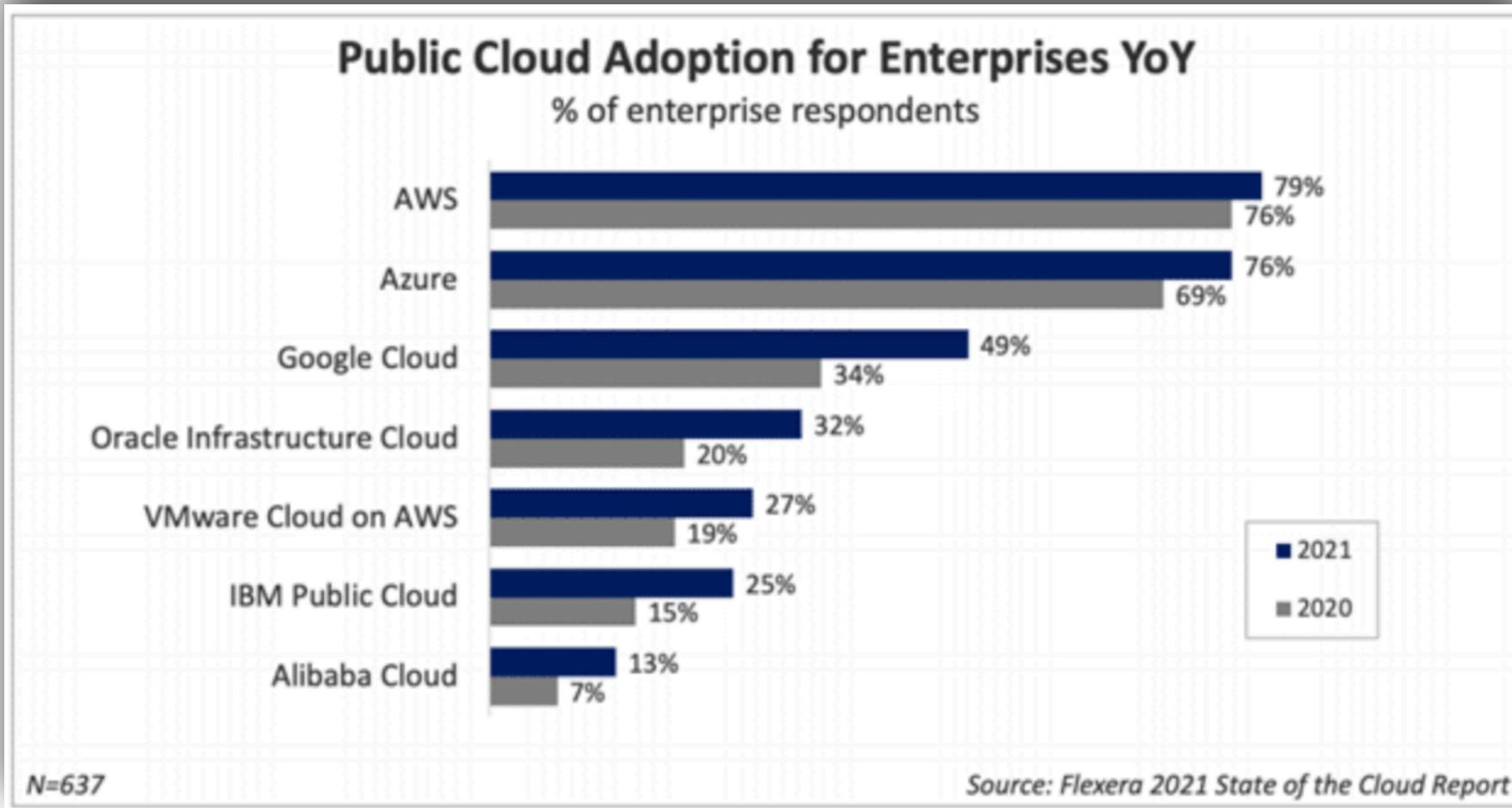
Top Cloud Computing Platform



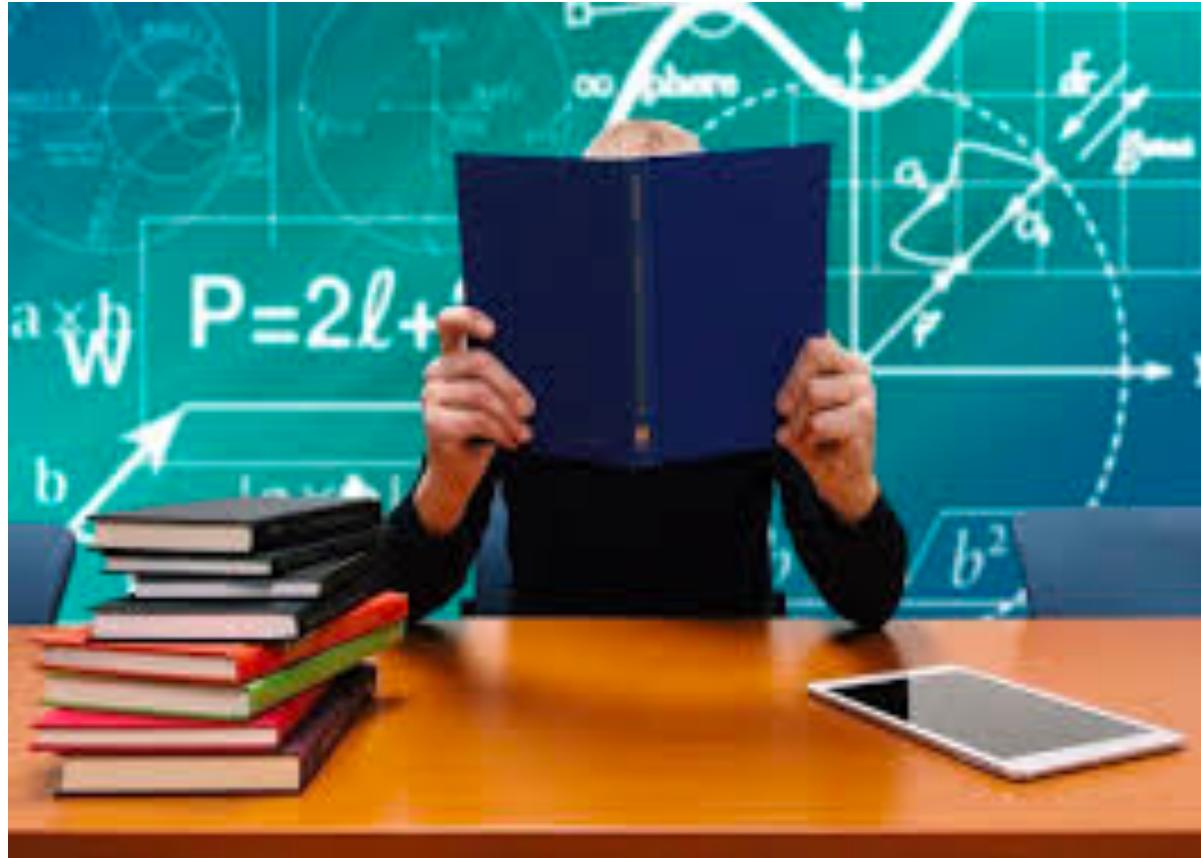
Top Cloud Computing Platform



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

What is the outline of the course?



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?

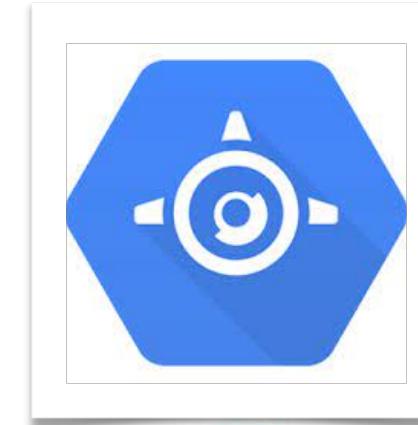


Compute Engine

Cloud Relational Database



App Engine

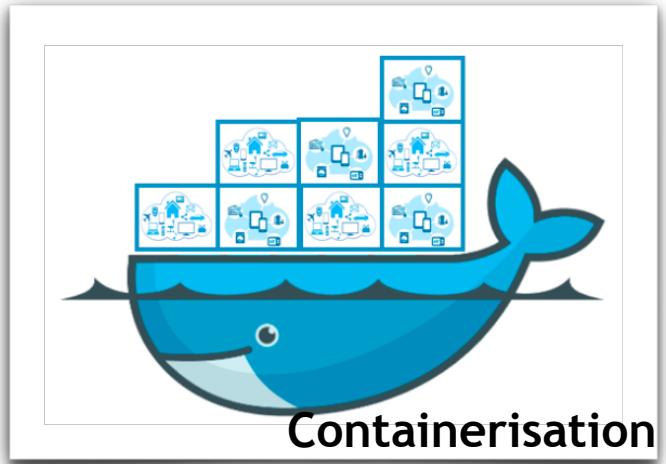


Simply upload your code and App Engine automatically handles the deployment



Serverless Computing

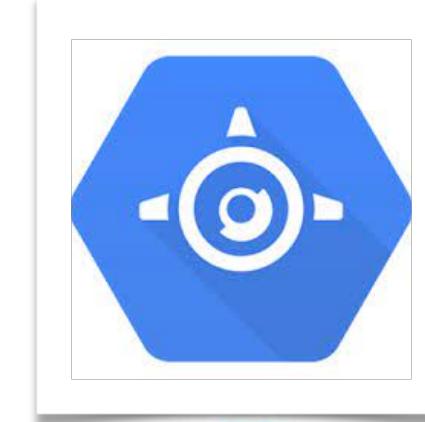
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Cloud Relational Database



App Engine



Serverless Computing

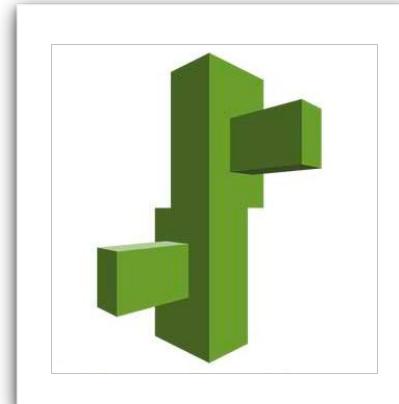
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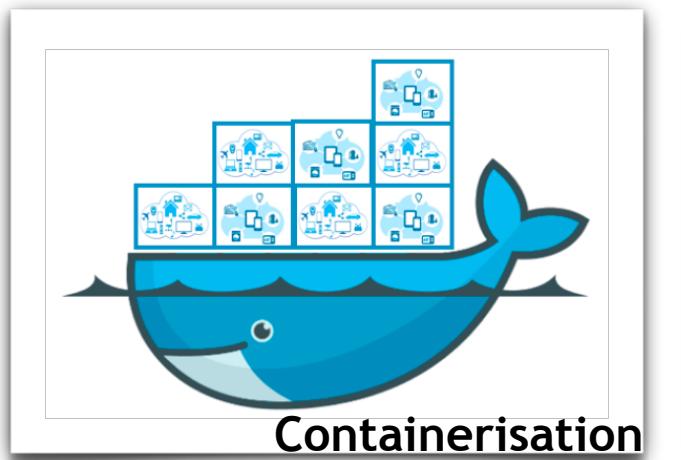
Cloud Relational Database



Elastic Beanstalk



Kubernetes



Containerisation



Serverless Computing

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