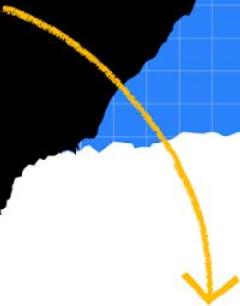


Expert Session

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Cloud'In Opportunities

December, 2022



Anmol Krishan Sachdeva
Hybrid Cloud Architect, **Google**



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The Technological Evolution



Mainframes

- Localized infrastructure
- Filled a room or two
- Central Processing
- No local compute

1960's

Client/Server Architecture

- Decentralized Computing
- Client machines connecting to Servers
- Local Compute
- Dot Com revolution

1980's

Private Cloud

- Large pools of On-premises compute resources with cloud attributes (elasticity, scale, and automation)
- Remote access

Early 2000's



Public Cloud

- Global reach
- Indefinite scale*
- XaaS revolution
- Collaborative computing
- Metered usage

Late 2000's



What is Cloud?

- Shared pool of resources (servers)
- Running software (applications/datastores/etc.)
 - Hosted in Data Centers
 - Globally distributed
 - Accessible over Internet
 - Metered usage
- Mostly offered as Pay As You Go (PAYG)

Data Centers



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Pizza as a Service



■ You Manage

■ Vendor Manages

Traditional On-Premises (On-Prem)

Dining Table

Soda

Electric/Gas

Oven

Fire

Pizza Dough

Tomato Sauce

Toppings

Cheese

Infrastructure as a service (IaaS)

Dining Table

Soda

Electric/Gas

Oven

Fire

Pizza Dough

Tomato Sauce

Toppings

Cheese

Platform as a service (PaaS)

Dining Table

Soda

Electric/Gas

Oven

Fire

Pizza Dough

Tomato Sauce

Toppings

Cheese

Software as a service (SaaS)

Dining Table

Soda

Electric/Gas

Oven

Fire

Pizza Dough

Tomato Sauce

Toppings

Cheese

Made at home

Take and Bake

Pizza Delivered

Dined Out

Source:
<https://www.optimizely.com/insights/blog/pizza-as-a-service/>

Learn More:
<https://cloud.google.com/architecture/framework/security/shared-responsibility-shared-fate>



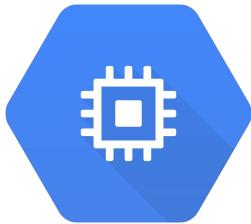
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Categories of Cloud



IaaS

Infrastructure-as-a-Service

Virtualized Hardware



PaaS

Platform-as-a-Service

Abstracted Computing Power



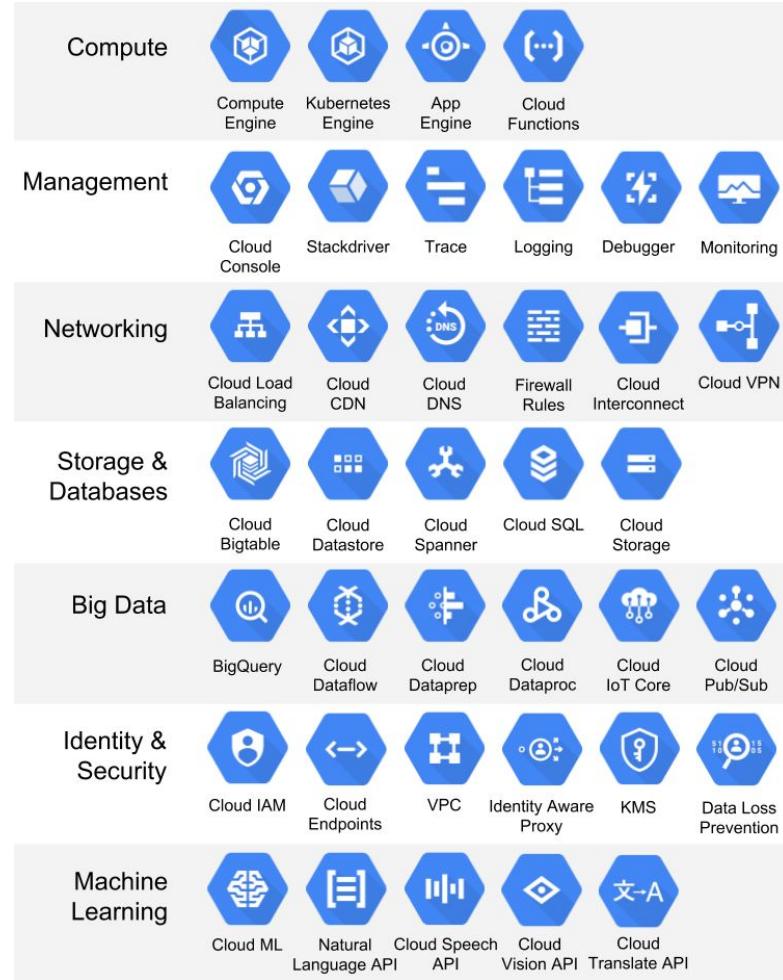
SaaS

Software-as-a-Service



High-level View

Service Pillars



Let's
Talk
Career

The
Pre-requisites

- Programming
- Web Engineering
 - Computer Networking
 - Protocols
 - Data Exchange
- Datastores
- Operating Systems
 - Understand Linux at least



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- Build Portfolio
- Make Open Source Contributions - Git is your friend
 - Pick any Open Source CNCF Project or Distributed System
 - Try for “**Summer of Code**” Programs
 - [GSoC](#)
 - [MLH Fellowship](#)
 - [Hacktoberfest](#)
 - [Outreachy](#)
 - [Season of KDE](#)
 - [GSSoC](#)
- Undergo Internships and Bootcamps
 - [Digital Product School](#)
 - [Innoschool](#)
- Participate in Hackathons and Codeathons
- Professional Certifications matter

Let's Talk Career

Breaking Into



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- Project Ideas
 - Web/Mobile Applications
 - Using Datastores
 - APIs hosted on Cloud
 - Load Balanced Servers
 - Logging and Monitoring enabled
 - CI/CD
 - Authentication and Authorization
 - Containerized Applications
 - AI/ML Classification Models
 - Chatbots
 - Cloud on Embedded Devices
- Not getting any idea?
 - Participate in Hackathons and build applications around themes

Let's
Talk
Career

Building
Portfolio



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- Foundational Certifications
 - [Cloud Digital Leader](#)
- Associate Certifications
 - [Associate Cloud Engineer](#)
- Generic Professional Certifications
 - [Professional Cloud Architect](#)
- Domain-specific Professional Certifications
 - Professional Database Engineer
 - Professional DevOps Engineer
 - Professional Security Engineer
 - Professional Network Engineer
 - [And many more...](#)
- Infrastructure as Code (IaC) Certifications
 - [Terraform](#) is good to start
- CI/CD Automation Certifications
 - [GitLab Certifications](#) (feel free to explore others like Jenkins etc.)

Let's
Talk
Career

Certifications
Matter



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Career Aspects

- Cloud Engineer
 - Cloud Automation
 - Cloud Software
 - Cloud Operations
- Cloud Architect
- Cloud Consultants
- Domain Specialists
 - Admins, Network, Storage, Databases, AI/ML, IAM, Security, DevOps, Site Reliability, etc.
- Cloud Support
- Researchers (Distributed, Parallel, High Performance, etc.)
- Cloud Service Consumers (Software Engineers, Application and Mobile Developers, etc.)
- Semi-tech Roles - TPMs, BDMs, PgMs, etc.



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Q/A

Ask Me Anything



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Talk Material

tinyurl.com/gdscsiesgst-2022



Thanks Everyone !



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