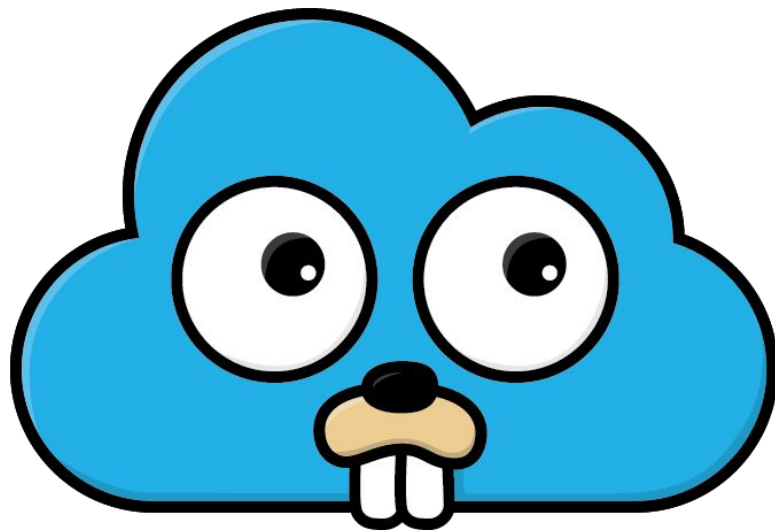


CLOUDRAFT

Career in Cloud

Anjul Sahu, CEO, Cloudraft



@anjuls



/in/anjul

About Me



- Founder and CEO, **Cloudraft**
- Alumni of SGSITS IT 2008
- 15 yrs exp. Wearing multiple hats, DBA, Cloud Engineer, DevOps Engineer, Architect
- Organizer - Cloud Native Indore
- Previously worked at Lummo, InfraCloud, and Accenture
- Apart from work, I do writing, mentoring and travel
- Connect with me → linktr.ee/anjulsahu
- Cloud Native Weekly - anjulsahu.substack.com



Agenda

- Introduction
- Scope of work, what are various roles
 - Cloud Architect
 - Security
 - Developer
 - DevOps Engineer/SysOps
 - Advanced
 - AI
 - Data Analytics
- Motivation
- Roadmap
- Resources
- Q&A

Introduction

Cloud computing is the on-demand delivery of IT resources over the Internet with pay-as-you-go pricing. Instead of buying, owning, and maintaining physical data centers and servers, you can access technology services, such as computing power, storage, and databases, on an as-needed basis from a cloud provider.

5 Characteristics:

- On-demand Self-Service
- Broad network access
- Resource pooling
- Rapid Elasticity
- Measured Service

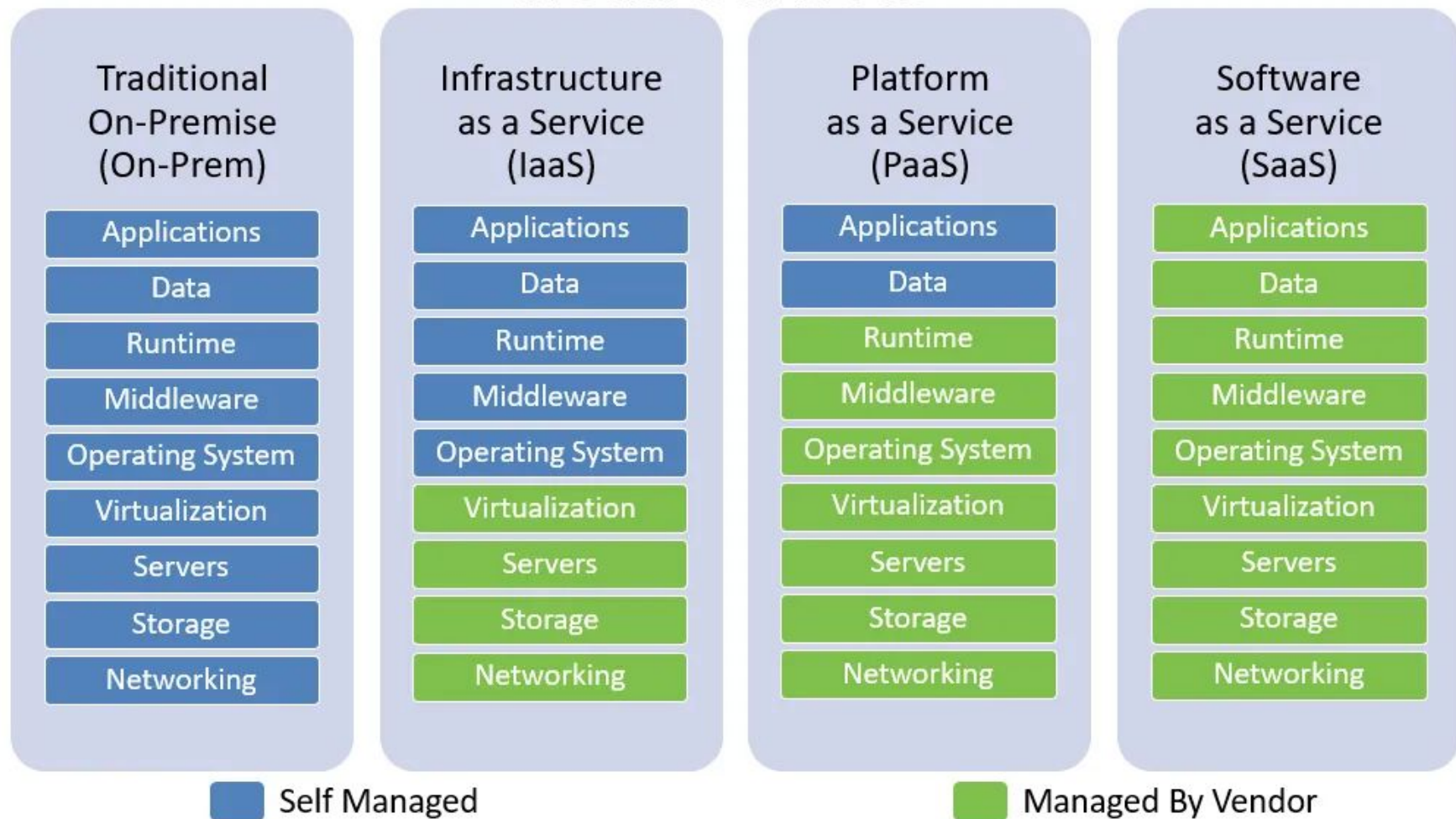
3 Service Models:

- IaaS
- PaaS
- SaaS

4 Deployment Models:

- Private Cloud
- Community Cloud
- Public Cloud
- Hybrid Cloud

Cloud Services



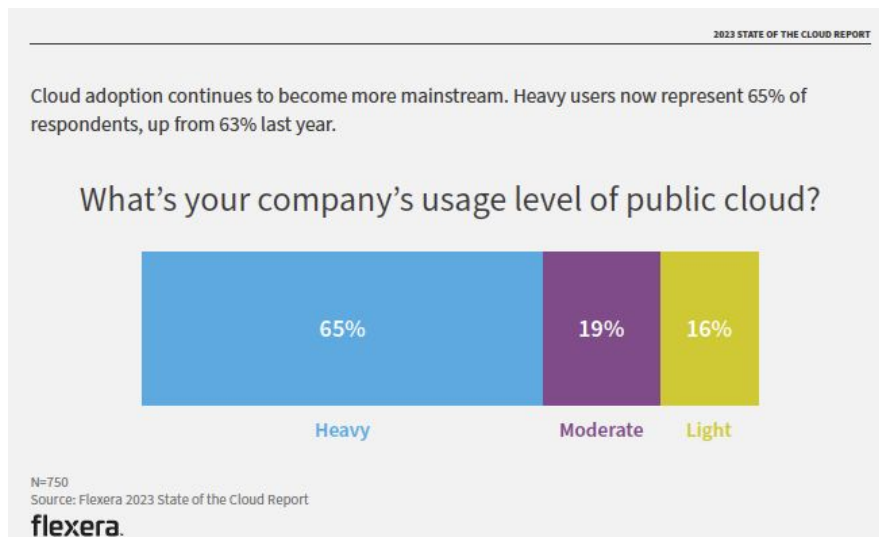
Roles

Most of the roles are often overlapped with other higher level roles like Software Engineer, DevOps Engineer, Solution Architect, etc.

- Cloud Developer
- DevOps / Cloud Infrastructure Engineer / Administrator
- Architect
- Security Engineer
- FinOps Practitioner
- Some Specific Roles
 - AI/Machine Learning Engineer
 - Data Analytics
 - Databases
 - Networking

Motivation

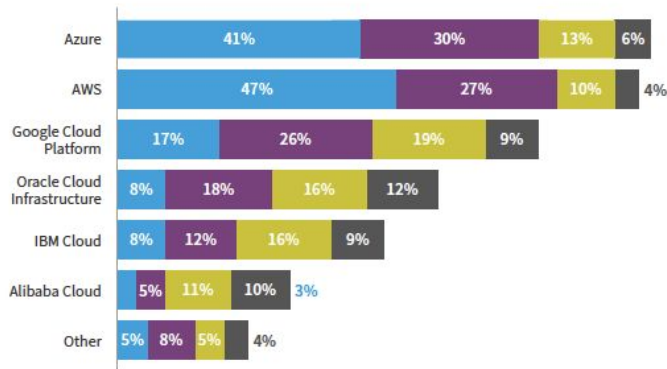
- Majority of Enterprises and SMBs are using Cloud for their workload



Motivation (contd)

- Most Job Descriptions and Roles ask for knowledge of at least one major cloud provider such as AWS, Azure or GCP.

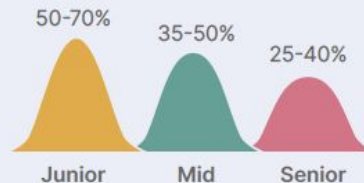
What public cloud providers does your organization use?





Technology & Digital

Average salary increase when switching jobs



Hiring trends

Industry 4.0 and Web3 have led to a rise in demand for professionals with expertise in blockchain, IoT, cloud computing, emerging technologies and SCADA.

A focus on leveraging technology for customer acquisition has led to the creation of more roles in fintech, retail, product / SaaS, agritech and logitech.

Demand is high for data scientists, cybersecurity experts, digital transformation experts, engineers and product managers.

Compensation & benefits trends



Incentives

Joining bonus, and retention bonus



Others

ESOPs, higher equity in product / e-commerce companies

Skills in demand

Data Science

Cloud (AWS, Azure, GCP)

Full stack (MEAN, MERN)

Roles in demand

C-suite (Technology, product, security)

Design (UI / UX)

IT business partners

Top Hiring industries

Financial services

Consumer / consumer tech

Global business centre / shared services centre

Salary

Role	Relative Salary Level
Software Engineer in Cloud Company	High
Cloud Architect	Medium-High
AI/ML Engineer	Medium
Security Engineer	Medium-Low
DevOps Engineer	Medium-Low
Software Engineer End User	Low-Medium
Support Engineer	Low

Software Engineer
in Cloud Company

Cloud Architect

AI/ML Engineer

Software Engineer
End User

DevOps Engineer

Security Engineer

Support Engineer

Roadmap

“Any fool can know. The point is to understand.”

— Albert Einstein

Cloud is...

- Someone's else's computer
- Multi-tenant or shared system usually
- Open to all (Internet)
- Having unlimited capacity (theoretically), also unlimited \$\$\$
- Distributed system, it fails all the time
- Good for rapid innovation
- Pay as you go, no upfront investment
- *Treat resources as Cattle, not Pets*

What to learn?

- RELIABILITY: How to design for failure?
- SECURITY: How to make it secure?
- COST EFFICIENCY: How to use it in cost-effective manner?
- CLOUD NATIVE: How to use Cloud Native Solutions? Eg. Event driven architecture
- SCALABLE: How to utilize the power of Cloud or Unlimited Scale and Elasticity?

Basic

- Compute or Server - AWS EC2, Azure VM, GCP VM
- Storage (HDD/SSD) - AWS EBS, Azure Disk, Google Persistent Disk
- Object Store (none) - AWS S3, Azure Blobs, Google Cloud Storage
- Phy Network (Ethernet) - Private and Public Network, Subnets, SDN
- RDBMS - AWS RDS, Azure SQL, Google Cloud SQL
- Firewall - Security Groups

Roadmap

- Focus on **fundamental** subjects (Operating System, Databases, Networking, Distributed Systems, Programming Skills)
- Following the syllabus of Certificate is good but having a certificate != Skills or Job
- Having a cert may increase your chances of passing through first filter but this is not a guarantee
- Participate in **Open-source projects** around Cloud (Hacktoberfest is coming → <https://hacktoberfest.com/>)
- Do hands-on and show Proof through Github/Writing.
- All major cloud providers have created learning path and mostly it is free.
- Utilize free tier/free credits
- Include **Containerization** and **Kubernetes** as it is a norm
- **Infrastructure as code** – Terraform
- Best resource is **Documentation** and events like **AWS Re:Invent, Microsoft Ignite, Google Cloud Next**

Recommended: [Watch](#) James Anderson/AWS ReInvent 2016



Resources

- Azure - <https://learn.microsoft.com/en-us/training/azure/>
- AWS - <https://aws.amazon.com/training/learn-about/>
- GCP - <https://cloud.google.com/learn/training?hl=en>
- Mentoring - mentoring-club.com, Discord

Q&A

Connect with me:

linktr.ee/anjulsahu

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