Cloud Computing

AWS — 2 sections

Section - 01 → ECZ (Elastic Compute Cloud)
VPC (Virtual private cloud)
S3 (Simple storage servic)
IAM (Identity & Access Management)
RDS (Relational Database)
Cloudwatch

Section - 02

Advanced services → EKS (Elastic Kubernetes service)
ECS (Elastic Container Service)
SNS / SQS → Queue Serv
↳ Notification service
GenAI in AWS → Amazon Q
Bedrock

Agenda for lec.01

① Journey of a customer from On prem to cloud

② Understand Cloud Offering & various Cloud providers

③ Careers in Cloud Computing

④ Navigating to AWS Management Console

⑤ Q & A

⑥ Revision

Scaler Journey of 2005

2005
Scaler

Scaler. Com

Cost
Infra provisioning
DNS Management
Power issues
Storage
DB
Limited learners

2006 → AWS
Microsoft Azure
Google Cloud
IBM
Oracle Cloud
Digital Ocean
Alibaba
Kubrino

Cloud offerings

- Public cloud → Accessible to All. Cloud for everyone eg AWS, Gcp..
- Private cloud → NO sharing (Dedicated Hosting) eg. SBI using Meghdoot cloud
- Hybrid cloud: → SBI using four cloud + Because of the expansion plan and EU Regulation they had to Opt for a public cloud provider

Careers in Cloud Computing

Developer	Infra	Misc (BD, PM, sales)
Lambda, API Gateway	→ Managing & Maintaing Servers	Inside Sales
Step function, Elasticbean		Presales
S3, IAM, EC2,	System Administrator, / Network Adm	FAM guys
Dynamo DB, App Sync.	Cloud Administrator (Ops)	
Cognito, SQS,	Cloud Ops	

AWS Service SIGIN

DevOps → 2016-17
SRE → GitOps

CICD Related tools
Codebuid, Codedeploy

Code Guru,
Bedrock, Amazon Q for Dev

DevSec Ops

DATAOPS
AIOPS   DATA/ AI
MLOPS   Ml
LLMOPS   GenAI
FMOPS

KAFKA   NO Ops

Beginner → FOUNDATIONAL → Cloud practitioner
→ AI practitioner

→ SysOps Associate
→ Developer Associate
→ Solution Architect Associate
→ Data Engineer Associate
→ ML Associate

PRO
→ SA Pro
→ DevOps Pro

Specialty
① ML Specialty
② Networking
③ Security
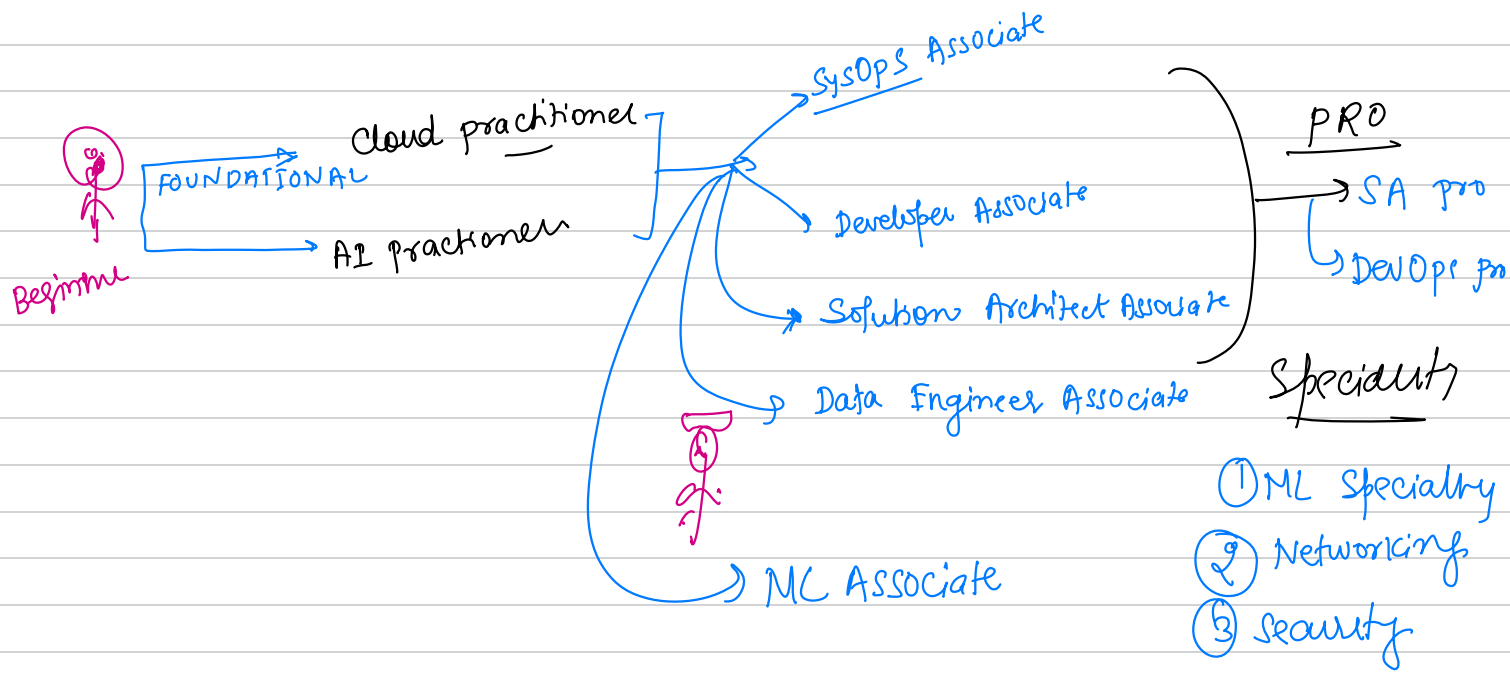
AWS

Mumbai   Hyderabad   geo3   geo4

Geo Location 01   geo 2
= Regions

DC1   DC2   DC3

AZ1
Availability
Zone 1

90K