**Cloud Intro**

* What is Cloud?

Cloud is an **on-demand** delivery of **resources** over the internet with **pay as you go pricing**...

On-demand --> whenever/wherever you need.

Resources --> Computer/Servers, Storage, Network, Security, etc. --- EC2/Server/Agents/VM

**pay as you go pricing** --> you can access over the public internet.

* Why Cloud?
* CAPEX(Capital Expenditures) & OPEX(Operating Expenditures)
* Real-time Scenarios CAPEX & OPEX.
* AWS Services
* Project Overview:
  + Web Server(prod/dev)
  + Application Server(prod/dev)
  + DB Server(prod/dev)t
* Engg:
  + Server Engg
  + Storage Engg
  + App Engg
  + DB Engg
  + N/W Engg
  + Security Engg

**EC2 Instance Types:**

## General Purpose (T2 & T3 General)

## Compute Optimized (High Process like 3D)

## Memory Optimized (Data base)

## Storage Optimized (Memory important Amazon Pr)

## HPC Optimized (High Performance ISRO)

## Accelerated Computing

**EC2 Pricing Options:**

## On-Demand (24/7)

## Reserved (1/3) 1 year or 3 years 40%

## Spot Instance (Spot in & Spot out)

## Dedicated (Personal Hardwares)

**EC2 Services:**

|  |  |
| --- | --- |
| Server Engineer | EC2, Lambda, EBS |
| Storage Engineer | S3, Glacier, EFS |
| App Engineer | SNS, SQS, Cloud Formation |
| DB Engineer | RDS, DynamoDB |
| N/W Engineer | VPC, ELB |
| Security Engineer | IAM, CERT Manager |

## AWS Arch:

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