EC2 (AMAZON ELASTIC COMPUTE CLOUD)

1. VIRTUAL MACHINE IN CLOUD
2. IT ALLOWS US TO DEPLOY OUR OWN SERVERS IN CLOUD
3. ON PREMISES
4. OS-LEVEL CONTROL/ HARDWARE AND ALSO IT UPGRADES
   TO THE UPDATES RELATED TO HARDWARE AND OS

SNOWBALL (SMALL APPLICATION)

AWS Snowball is a service that uses secure appliances to transfer large amounts of data into and out of the Amazon Web Services (AWS) cloud.

TRANSFER TERABYTES OF DATA INSIDE AND OUTSIDE OF AWS
ENV

Create job (transferring data)-> connect to snowball -> copy the data
to snowball -> S3 (OBJECT STORAGE)

CLOUDWATCH

Relational Database Service (RDS) is a web service that helps users set up, operate, and scale relational databases in the cloud

AWS ENVIRONMENT => RDS+EC2+s3+ CPU UTILIZATION

IT WILL ALSO TRIGGER ALARMS DEPENDING UPON VARIOUS
METRICS

ELASTIC TRANSCODER

1. IT IS AN AWS TOOL
2. CHANGING VIDEO'S FORMAT (RESOLUTION)

VPC (VIRTUAL PRIVATE CLOUD)

NETWORKING CONFIG
ADMIN = HR, SALES, DEVELOPMENT (ACCESS)
ISOLATION OF CLOUD
IP PRIVATE ADRESS (:8000, :8345)

INTERNET GATEWAYS (PRIVATE) + SECURITY GROUPS

AMAZON S3 (OBJECT STORAGE)

AMAZON S3 STANDARD
INFREQUENT ACCESS
AMAZON S3 REDUCED REDUNDANT STORAGE
AMAZON GLACIER

<u>Instance</u> : moderate baseline performance, can go to higher performance too inside aws env/workload

T2
T3

An instance in cloud computing is a virtual server that provides access to computing resources in a cloud data center.

<u>key-Pairs : secure login information</u>

User id
Password
Transaction id
Product id
Product price

<u>CRYPTOGRAPHY</u>
<u>CONNECT TO INSTANCE -> PUBLIC KEY + PRIVATE KEY</u>

<u>ABC -> YZD</u>

DIFFERENT TYPES OF CLOUD (BROADER)

PUBLIC, PRIVATE, HYBRID

HIERARCHY OF CLOUD

SAAS, DAAS, PAAS, IAAS

SAAS : GMAIL, SLACK, SALESFORCE, DROPBOX

DAAS : Xignite, urban mapping   Desktop as a service

Paas : Microsoft 365 -> outlook, ms team
Zendesk, ACUDOGSIGN   platform as a service

IAAS : AWS, MICROSOFT AZURE, DIGITAL OCEAN, EC2   infra as a service

Idaas : authentication purpose

Faas : maintaining, running and deploying microservices of applications
          function as a service