(3

-> Resizable Compute Capacity was the cloud.

It allows to Scale Capacity aboth up and
down as exercisements change.

3 9th like an VM in the cloud
on Demand - Fixed rate by hours no Commitment
Reserved - Commitment, reservation for 1-3 years
Spot - bid whatever Price and have Sowings if
Start and end time is fearble

Decliated - Physical Ela Server declicated for your

Low cost 5

Low cost 5

Low Cost 5

Cost mo Commitments.

Kesewerd

Scheduled RI

Stendard RI

(54% of on demand) used only when

(75% off Demand)

Change alterbetes

of the RI

Scheduled RI

to sex heavey

Scheduled RI

Scheduled RI

Leason time

Scheduled RI

Scheduled RI

Leason time

Scheduled RI

Scheduled

Spo t

-> desable start and end times

-> additional Compute Capacity

-> Low Cort

Dedi cated Host

Com be on Derroud

Can be Reservation Instance.

and the same of th

T2 - Lowest Costs General Pospose.

F - FPGA

1 - IOPS

G - Graphics

- High Disk Throughput

- Cheap General RosPose

D - Demity

- Rams R

M - Main Chaice for General Purpose

C. - Compute

P - Goraphics

× - Extreme Memoray.

EBS: Virtual DPSK Pro the cloud. It is a block based Storage. These are automatically replicated to Protect you from the failure of a single Component.

- → General Propose SSD (GP2)

 → both Posce and Performer

 → 3 JOPS Per GB UP to 10,000 JOPS and

 ability to bookup 3000 JOPS
- -> Provisined IOPS SSD

 -> Large orelational or Nosqu Database

 -> > 10,000 FORS

 -> opto 20,000 TOPS for volume.
- > Thoroughput optimized HDD (STI)

 > Big Data

 > Data Warehouse

 > Log Processing

 > Cannot be a boot Volume.

- > cold HDD (sci)
 - -> Lowest cost Storage for infrequent work locals
 - Ale Server
 - -> Cannot be book volume
- -> Magnetic (Stondard)
 - -> Lowest BBS type that is bootable.
 - -> Cheap & Infraquent data.
- -> AMI is Shapshot of vistual Machines
- -> Normal Manitoring 5 minutes Clark watch Details 1 minute.
- By Default the root EBS is terminated of Ecz is terminated. We need to uncheck if we want to charge it.
- -> Security Grapus Like a fraewall for Eca Server.
- > Key Para Consists of

Poblic Key - Aws Stores

Private Key - User Stores.

> CHMOD 4000 KeyPairs. Peros

- -> Status checks
 - D System Status Checks - networks instance is reachble, infrastructure failure
 - 2) Instance Status chick

 if traffic us Coming to Prostance.
- > Root Can't' be directly Encrypted directly where as other EBS Can be done.
- -> Coreate a copy of AMI of EBS and then energpt them. We comt energpt default root durices by AWS.
- > Termination Protection is torned off by default.

Security Groups

- -> It is a violed firewall
- Jany rue when applied on a Sewrity group it happens immediately.
- Thounds outbound toaffic.

 anything which has inbound also has an outbound such in the group.
- -> we can only allow traffic but can't derry
- -> Each Eca Can have more than one Security group assigned to it.
- > All inbound teapper is blocked by default
- -> Security groups are Stateful.
 - For blocking we need NACL's.

- → Both Ecz and EBS needs to be un the (3) Same available zone to be mounted.
- -) If we coreate a snapshof of EBS and then we can change the availability Zone and then attach to the ECD Server.
- -> Snapshots are used for Backup's.
-) To change the EC2) Oreale Snapshot
 - 2) Cowert into AMI
 - 3) Then Change into new totallow or AZ
- I only swoot is terminated so then EBS Volumes are not terminated when ECZ is deleted.
- To Greate a Snapshot for amazon EBS volumes that are broad clevices, you should a be instance before taking the snapshot.
- > To take it an be sunning

RAID I - Staired, No Redundancy - Performance

RAID I - Mirrord > Redundancy

RAID E - Good for Greads > bod for writes

AWS X

RAID IO - Staired & Mirrord

- Difference the file System

 2) Unmont the RAID Array

 3) Shuldon the Eco instance any inconsistencies
- -> we can only Share uncrypted Snapshots.
- -> AMI > EBS -> Amazon EBS Snopshot

 -> Instance Store (Ephoneard Storage)

 -> Cont Stopshort

 -> Conty terminate

 -> County terminate

 -> Created by template Stored win

 -> Created by template Stored

 -> Created Stored S

Elastic Load Balancers

- D Application Load Balancers

 -> Load Balancing of HTTP & HTTPS traffic

 -> intelligent > Create advance occurrent Granting.
- 2) Network Load Balances # For IPU4 address

 -> Load Balancing of TCP of your end years

 -> millions of originates Per Second Look for the X-formore

 -> extreme Responsible.
- 3) Classic Elastic Load Balancer

 > Legacy clastic Used Balancer

 > 504 cornor (Application failed)