AWS (Amoron web services) 1. What is cloud computing? A, On demand delivery of IT services & applications through the interest with Pay-au-you-go Pricing.

- 2. What is another name for on-premises deployment?
- A, Private cloud Computing!
- 3. How does the scale of cloud computing help you to save costs!
- A. The aggregated cloud usage from a large number of customers besults in lower Pay-as-you-go Prices.
- 4. I Menoy Optimized -> Ideal for high-Performance databases
- 5. Storage Optimitede -> Suitable for data ware-housing application
- 6. General purpose -> Balancer Compute, memory & networking resourcer.
- 7. Compute Optimized -> Offen high-Performance Processon.

Introduction to Aws about Practitioner

Module - 1:

Introduction to Ame

Benefits (A ms Services Offenings)

- 1. Compute
- 2. Storage
- 3 Netwoork Security.
- 4. Blackchain
- 5. Machine Jeaning
- 6. Artificial intelligent

Client - Server model. (coppee shop) 1. Request 2. Responds In Amazon Ecz -> Regrest to server. -> validate the request -> Next Responder * you only for what you use Three cloud computing dieployment 1. Cloude - based 2. On- Premises 3. hybrid Amozon Ecz Instance types (Requirements for Compute, memory or Storage Capabilities) 1. General Purpose instances. Provides a balance of Compute, memory & networking, desources. Uses them for a variety of work-toads. * application Servers. * garning Server. * Backend Servers for enterprises. * Small & medium data bases. 2. Compute optimised instance. * Are ideal for compute - bond applications that benefit from high Performance Processoss. × Ox for workboades as Loeb, application & garring Service.

- 3. Menoy optimised instance
- * Are designed to deliver fast Performance for workloads

 Hhat Process large datasets in memory.
- 4. Acceleratede computing instances.
 - * Use hardware accelerators, as coprocessons to Perform some functions more efficiently than it possible in software sunning on coppus.
 - * Accelerated compiting instances are ideal for workloads such as graphics applications, game storaming a application streaming
- 5. Storage Optimized instances:

 Designed for workloads that sequire high, sequential reads & write access to large datasets on local storage

work loads includes distributed file systems, data ware housing applications, & high-frequency online transaction processing system (OLTP)

Amazon Ecz Pricing;

- 1 On-Demand:

 * Ideal for shoot-term, irregular workloads that cannot be interrupted
- * No-coppront costs or mini: Contracts supplies
- # The instances sun continuously until you stop them & you ray for only the compute time you use.
- 2. Savings Plans
- * Frables you to beduce your compute costs by committing to a consistent amount of compute Usage for a type 1-year or 3-years
- * Saving of upto 66% or 72%. Over on-Demand costs.

- 3. Reserved Instanceir * Are billing discount applied to use of on-Demand Instance in your account. * you can Purchase standard Pererred & Convertible Reserved. Instance for a 1-year or 3-years & scheduled reserved intances fox a 1-year term. * you dealise greates cost Saving with the 3-year option. 4. Spot Instances: * Ideal for workloads with flerible start & end time; or that can with stand intersuptions. * Spot Instances use onused Amazon Ecz computing capacity & after you cost Savings. upto 90% Off on-Demand Price * If Amazon Eez capacity is available, spot Instances lanches or 5. Dedicated Hosts:
 - * Fire Physical Servers with Amazon Ecz instance capacity that is folly dedicated to your use.
 - 4 Dedicated Hosts one mose extensive.
 - # Use your existis Per-sochet Per-Core, Per-volume sefuone dicete

Scalability >

- * Involves begining with only the desources you need & designing your architecture to automatically surponds to changing demand by scooling out or in.
- a result, you pay for only. the telouries you use

* The Ans Services that Provides this functionality for Amazon

Ecz instances is Amazon Ecz nuto souling.

Amazon Ecz-Jones Auto sealing

* Try to access a website that wouldn't load & frequently firead

* Amoson Erz Auto scaling crabble you to automatically add or tenose Amason Erz instances in tesponse to changing application demand

Dynamic scales -> besponds to changing distance

Poseductive scales - Automatically schedule the right number of anazon Ecz instances based on Predicts demande.

* To Scale Poster, you can dynamic scalicy & Predictive Scaling together:

* Minimum no of Amairon Ecz instance at one.

If you donot specify the dississed number Amazon Fizz instances in an Ato scaling group, the desisted capacity disfaults to your Minimum coupacity.

* Max Capacity.

Elastic Load Balancing

- * Is the Aws Service that automatically distributes incoming application trappic account multiple resources such as Amazon Ecz install.
- * A load Balance acts as a single point of contact for all incoming web traffic to your Auto Scaling group.
- * These dequest soute to the load balances first distributes

 the hooskstood accooss the multiple instance so that no

 Single instance has no carry backs