- * Client Server Architechure:
 - -There are three types of client server architecture.
 - D 1 Tier Architecture.
 - @ 2 Tier Architecture.
 - 3 Tier Architecture.
 - *10 1-Tier: In the 1-Tier architecture client and Berver both are in the same divice.
 - No one Can access the 1-Tier architecture.

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to Holl to

- @ 2-Tier:-
- (3) 3-Tier;-

* DNS:- Domain name server:

- It keeps tracks of all hostplame & if address ONS convert if to Hostname and hostname to IP.
- * RNS :- Root name Server:
- * SOA :- Start of authority.

Port Numbers: -

1) HTTP: - 80 / Not secure connection to applicant

station made

- 2) HTTPS: 443/ Secure connection to application
- 3 SSH :- 22 1 connect to Linux machines.
- @ RDP :- 3389 / Connect to windows machine

- * Client: Which request a resource.

 * Server: which respond to the resource.
- Q:- Hyperlization: Hyperlization is a layer which is used in the virtualization.

* Chould Computing:

- Insted of doing computing on on-primises/local machine, Now you are doing computing in the remote location (clould) that is Called (lould computing.
- cloud is present in a Remote location
- * Defloyment of cloud

(TYPES of Cloud)

- There are Three types of chould.

 (1) Private Clould: Provides services which are accessed by the organization
- @ Public clould: - 11 accessed by everyone
- 3 Hybrid dould: combination of Public &

* Services models: -

- Infrastrycture as a services (IAAS)
- Platform AS a services (PAAS)
- Software as a services (SAAS)

X AWS 3-

AWS is clould provider, who provides Infrastucture as a services.

- AWS is a public clould provider.
- AWS is a Group of Services, We can access AWS services through Amazon Managemen console.

- ANIS has a globle infrastructure.

E(2:- Elastic Compute Clould. It is the first Service of AWS.

> - Ecz is a AWS service where we can create virtual machine.

* Elastacity:-

-Increasing and decreasing the number of Servers / instances based on the load is called Elasticity.

- Elasticity can be archieved in AWS using Auto-scaling.

Auto-scaling = scale out and scale in increasing.

- Elasticity also called as Horizontal Scaling.

* Scalibility: - Increasing the capacity of the server is called scalability.

- Scalability: scale out scale in down
- Scalability is also called as vertical scaling scalability is long term.

Instance type = Memory + CPU)

Y High Availability - The Period of time the service is available to the customer is called High Availability.

High Availability.

Redundancy Monitoring failover

- puplicate/having the same application of diff server. LB will cheak if application is reachable or not using health chea > It one server goes down,

other server will take the request sent by LB.

LC-11

Regions and Availability zones,

Region: - It is a geo-graphical area, Ex: AWS-Region=mumbai

- Region is place where AWS has it's infrastructure
- A Region has multiple Datacenters
 - A Region has multiple AZ'S. (Availability zone)

Availability zone = simpley a data center (Az)

Server = Instances - server/instances are placed in Az's.

ap = Asia & pacific * Mumbai = ap - south 1 Az's = ap-south-19 for Us, india is in south ap-South-1b that's why ap. south. ap-south-10

- * Regions and availability zones managed by the AWS.
- Az's are sync with each other (network), not Data.
 - ECZ instance is specific to Region and AZ.

Load Balancers: - LB can distributes the traffix to multiple E(2 instances across AZ.

LB is specific to Region not Az.