y what is cloud computing It is the delivery of computing services like Servers, Storage, database, Mu & S/w It is the processing of accessing the data or application via the internet. 2 types of CC: y service model wanteriggs we 21 Deployment model y service model -Applicateon Application Saas data data Rantime Runtime Runtime middlewore middleware vendor OS OS 20 Mydi zation Paas viruali Zation Sequers managed Jaas monged Servers storage vendre bj rendx Storage wh Jaas - Infrastructure as a service, physical how service

a service

paas - platform as

Sagl - Software as

Igasi The cloud provider offers vistualized computing resources such as virtual machine, storage, & n/w to Castomers. used for infrastructure provisioned & managed over internet.

Pace :- This model provides a platiform for developer to develop, run and manage their own application without having to warry about the underlying infastruth Saal: This model abstracted cloud computing type dolivering fully functional slw applications via the internet. Used access these applications through web browser. The provider hosts, maintains & updates the slw on the behalf of the user.

a) Deployment model:

Public: open to all to store & access information via internet. managed by 3rd partyes. less security.

amitaul ob.

Private: Also Known as internal cloud or cooperate cloud. used by organisations to build & manage their data centers. high Security.

Hybrid + The combination of both Public & private clouds in public less security. if private high security,

success the market - tras

community cloud + It allows multiple Organizations to use same cloud to store their data. Advantages of AWS: " sand on obin -> Automated multi-feregion backups a) streamlined disaster Recovery I security 's' dies of sent in sit suitain > pay-as-jou-Go pricing -> Simple automated scheduling -) Third-party Apris 201 - of dos sossossesses -> speed and agility to suppose of basin -> excellent customer support. Steps to create Aws Account to a procession Step-1 Gret the link enter mail id & mame Step-2 we have to provide our contact information step-3 me have to provide vous billing information Step-4 Confirm your identity a Step-5: In this step we have to select type of the Account. Loyers losorer 245 Steps to create EC2 Instances: Step-1 choose Amazon machine image (AMI) -> Ami is a template that consists of you confit (os, application server, application) -> Ami 10 which is region Specific. we can buy sell, share the Ami's (use free tier Ami's only)

Step-2 + choose instance type

- -> providing CPU & memory
 - -> select instance under free tier
- -> t2 micro instance have (1000 8 108)
- -) total instance families are 90

Step-3 configure your instance

- -) configure the instance to suit your requirements you can launch multiple instance from same Ani take advantages of lower pricing, asign access management tole to the instance & more.
- -> we need to configure all your instance details like no of instances, Subnets, Upc, 1Am role, tenancy & all other.

Stepy Add Storage of 12/12 2/12

- -> TO Store the data in Server we use Ebs Volumes
- -> els means elastic block storage
- -) for single server we can use multiple ets volumes
- of sun on eps volume. Most militac
 - -) free tier eligable customer can get upto 3096 of EBS general purpose.

Step-5 Add tags

-> your can give name to your instance

Step-6 configure security gop.

) A security got is set of frewall rules that Control the traffic for your instances

> These one region & nlw specific -> the port range is 0 to 65535. A It deals with the inbound & outbound trackic. step-7 Review Relaunch. -) At the last step we need cross verify the details of an instance & other proceed to launch the Instance. Server - Servers are computers that our services to serve the needs of other computer (le to provide services) These servers uses various purposes like hosting. websites, sunning applications storing a managing data. Types of Servers + > webserver (Apache, Nginx, 112 Cinternet information Service) GWS (google web server) -) Application server (Apache Tomat, 1Bm websphore 42 ng:0:X) · wack 699 - I at at shoon -) DB Server -> email server (into a mos) agriconnizar Zneitosu paras Leenin. -> FTP Server (carloy, 285) years in my sid -> File server -> books Zeones → Streaming Server → IRC Server (Internet relay chart)

> fax server.

Vixtual machine : A um is a program on a Computer that works like it is a Saperate computer inside the main computer du adt dies since um functions as a seperate and isolated computer with its own 05, storage & new relaurces. Types of vm's > System vm's -> brocess rm's What is Eczens for wohn not the -) elastic compute cloud is a web service that provides Security & Rosizable compute capacity in The cloud, which is designed to used by developers easies. -> It is one of the services provided by the aws which we can use it launch instances on different 05. To launch (ec2, Instance there will be of stops needs to be petition. Step-1 Ami (as) instance Type (Ram & CRU's) network configurations

Step-2

Step-3

Step-y Storage (EBS volume)

Step-5 Name Tags

Step-s Security configuration

Review 1 Taunch 1 January 1 600000 Step-7