

- Planning for failure Pr necessary E, amazon takes care of that. explicit & stored in nucltiple does centers.

Maring multiple salabase & compuling sever it a good practice.

@ * ACUS Shered Responsibility

Divided into 2 poots -

AWS ocaponsitie for security of the cloud

[Physical security of contest, infrastructive, services]

Customer is responsible for their eccurity IN the cloud.

[what you store who has access, exites used, admin sights].

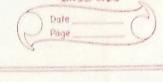
aws well Arch Francwork

5 pillars Formework. Operation Security cost Perfor Reliability.

AWS provides AWS Arch FW tool - to test your system.

(E) cost & Billings - Total Lost of ownership (TCO) includes:

of Procesoment, Monogement, Maintainence &



Pricing models

i) lay as you go,

"i) Save when you reserve. (147,347 contracts)

() Pay less by wing more. (more use, less pay)

Aways free Jest free Jenges from service.

Billing dashboard also availlable.

Module 4 -> AWS core services.

objectives. a) Different types of Services.

b) Main Cotegories of Services Each service description.

Monolithic vs Micoopervices Architecture.

Monolithic - If one component falls, app as a whole might fall.

M'exoservices -> Migh reliability, loosely coupled, one failure doesn't stop the whole application.

a) Types of Services

more 1 - Managed Services 7 Three types in Aussers whomistle. Serverless Serverless



Subrety, etc

@ Each Service Description

9) Amazon VPC (Vistual Private Cloud).

* Have your AWS resources In a Esoleted virtual network

> Add scenity layers to your network.

* Create your own virtual data center.

by connecting it with ECZ & RDS.

(11) Amazon EC2 (Elastic Compute Cloud).

A web sever providing computing capacity in cloud.

scale up as well as scale down when needed.

(seasonal needs).

" Und with VPC & RDS.

A Applications. On demand computing & Backey & Recovery.

(III) Amazon RDS (Relational batabase Scorice).

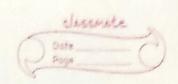
As name suggests it is a relational database service. Administ tasks and setup are monoged automotically.

Ace to database needs can scale up & down, hence managing your costs.

web & mobile app, games, Ecommerce applications.

Of untomiphin is needed RDS can be our with ECT. VPC in used anyway.

Support ticket needed when expecting high toaffic.



(iv) Amazon Cloudwatch

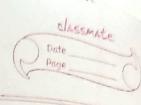
- n Used for monitoring & observation by bevops engal,
 developers & security engineers.
 - Aft provides actionable insights & data, to monitor your applications.
 - , show in form of logs & metrics. An overview shows.

(v) Amazon SNS (Simple Notification Service)

- send notifications from the cloud. Eq: from developers of app to culscribers.
- apps regularly.
 - Landba (or) Cloudwatch.

(v) Lambda AWS

- func code without provisioning (00 monaging servers.
- by lambda, Eg: Scaling up of ECZ:
 - a Used with 83 & SNS.
- > Real time file & stream processing, web apps.



(vii) AWS 1AM (Identity & Access Management).

on A contralized security management system that is included in every that account, to control access to cloud (Aws)

>) IAM Uses -> Given to each account.

ontrols access with accordance to what Is paid for by
the hyer.

(Vill) Amazon Synamoss

Serverless non-relational database.

3 Rest same as RDS.

(9x) Amezon S3 (59mple storage Service)

amount from anywhere at anytime.

No estimation of storage space is required, you can store as very files as needed in a bucket.

to avoid loss of data.

a root build for block storage.