8 6 23

AWS Module 1 Cloud Concepts Oneuview

Topics

- -> Intro to CC (Cloud Conquering)
- Intro to AWS
- AWS Cloud Adoption Framwork (AWS CAF)
- I) Into to Cloud Computing
- · Cloud computing is the on-demand delivery of compute power, database, storage, applications & omen IT resources via the internet, with pay as you go pricing.
 - They run on sewer centers located in diff accoss

 the world.
 - you use the computers wound by that sewice provider.
 - Your joyrastructure as handware, and instead think of (and use) it as software.

. Hour Service Models Iaas Saas Paas Software as a Infrastructure as a Valform as a Service Sewice Sewice Less Control Mose Control Oneu IT Over IT resources resources Paas My Rough

Managing You or are now only conceund the hardware with how the Components & Service is maintained os of the As the very apps device to the very apps Ex Windows wing Ex Hardware, kits apps Marging Windows Os.

Saas Only involved with the end-usen appli-

Ex Gimail

- cations.

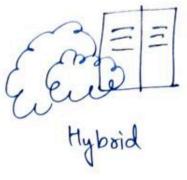
· Cloud C. Deployment Models



Cloud

Cloud based App is fully deployed in cloud.

App is either whated in cloud/ is migrated to it.)



Deployment in Hybrid App connects your existing infrastructure & Apps to

a cloud based App.

(located in physical

Ex Hybrid App

Heat connects cloud

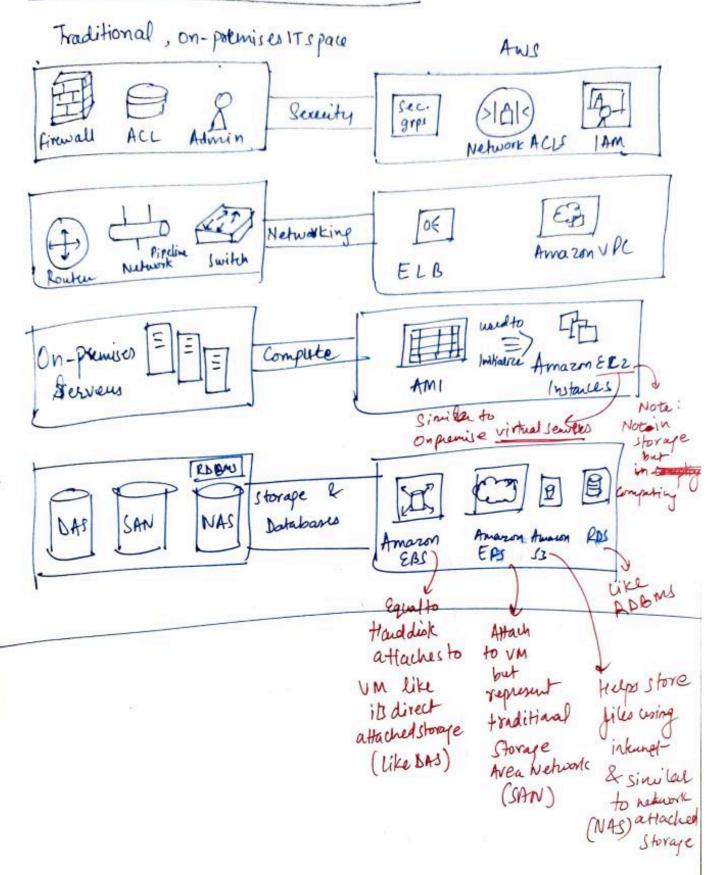
to on premises App

(Private Cloud)
On Premises

Onhemises App deploy living private doud.

Abesint provide may
efaction cloud's abilitie
14s chosen for its ability
to provide dedicated
resources.

. Similarities blu AWS & traditional IT



I) Advantages of Cloud Computing (Why more to cloud ?)

1.) they Trade capital expense for variable expense

Capital Expense— Finds companyes use to acquire & maintain physical assets such as property, industry buildings or equipment.

Variable Cost - Attenable and/or avoidable costs

that can be done using cloud

computing. Pay only for amount

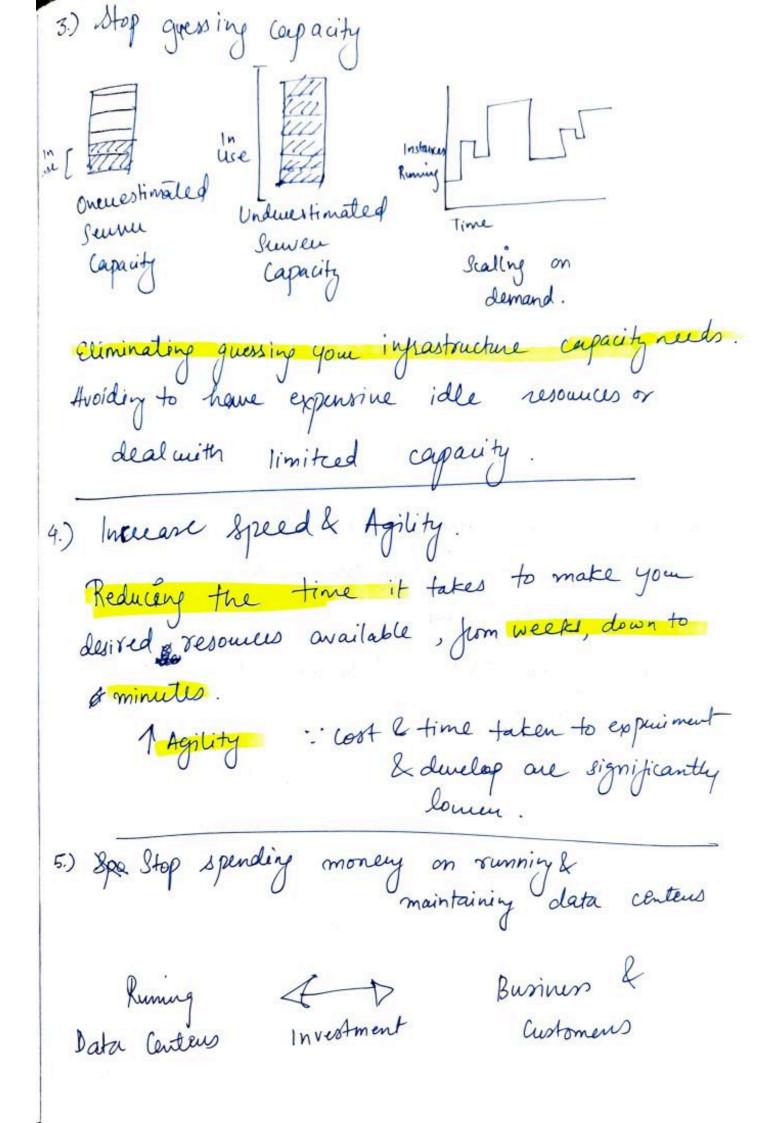
you consume. ... saving money.

- Reduced maintenance
- Adapt easily based on needs.
- 2.) Benefit from marrine economics of scale.

 Lower costs than using on your own.

Because of aggregate usage from all customers, two com achieve higher economies of scale & pan savings on to subtomers.

i lower pay-as-you-go puès.



6) Go Global in minutes

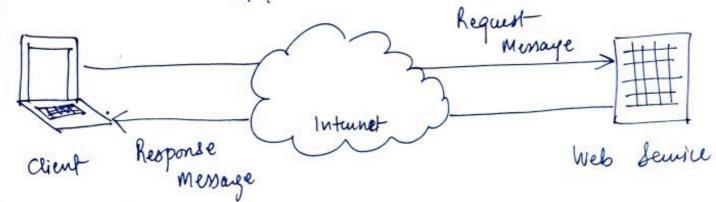
Deploy on seweral global locations from around the world, providing lower latency & better experience to customers around the global.

III) Amazon Web Suvices (AWS)

-) What are web services?

A web service is any ser piece of software that maker itself available over the Internet & uses a Stondardized format — such as Extensible Naukup Language (XML) or JavaScript Object Notation (JSON) — for the request & the response of an application programming interjace (API) interaction.

.. Web sewice is an application, provisioned onem the intunet.



- , we are no longer concerned about the implementation.

) Its not tied to OS, or language used to develop software
- awhat is Aws?

Aws is a secure platform that affers a broad but, an ecosystem of web services.

Lis Delivered over interpret

le On-demand access to resources

4 Immediate provisioning

Le flexibility: update on demand, scaled uph down, optimize spending

4 Operational Expuse instead of Capital Expusse.

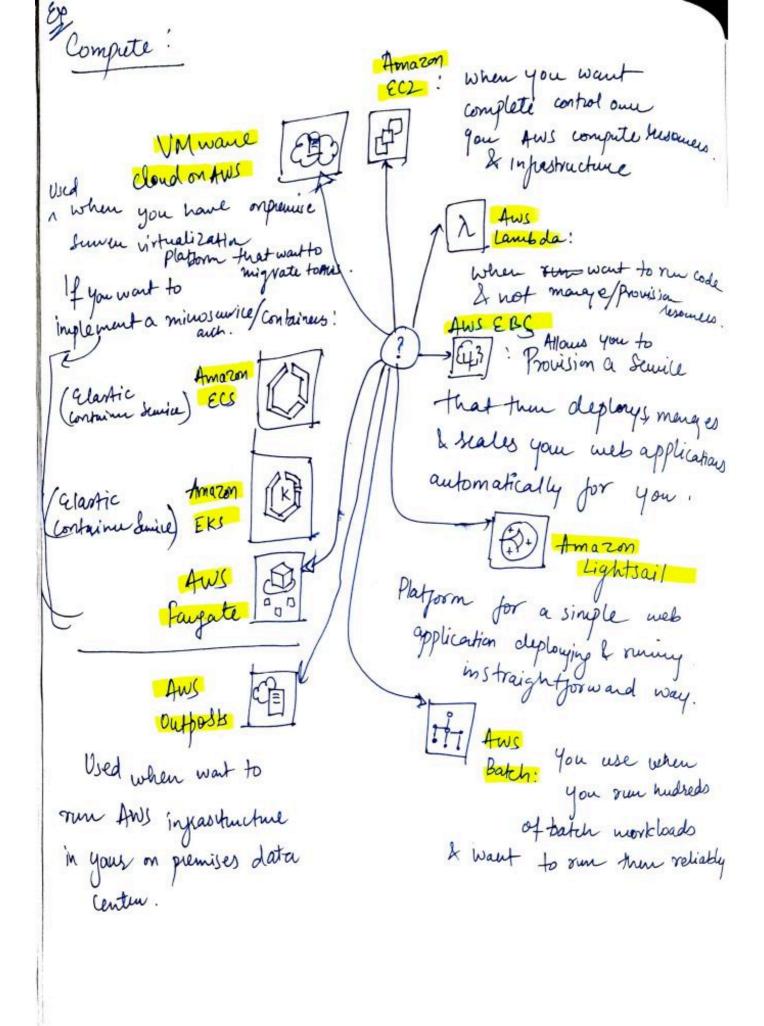
- Categories of Aws Seewice:

Aws has secured categories of services based on their functionalities.

- Choosing a Service

The senice you select depends on your business goals & technology regivements

P. T.0



Compute Storage Databases AWS Scarity, Identity Lampliance Monagement & Governonce Services Sewices Network Le Contrut Delivery Aus cost Management Sewices Services -> 3 ways to Interact with AWS Software Command Aws Mayenut Dévelopment Kits Line Interface Console (SDKs) (AMS CLI) Easy-to-use Access to Semices by Acces Services graphical interface discrete commands disectly from your or scripts Code (Ex Jaya, Bython, etc).

All3 that are built using a REST like application programming interpace. (REST) Representational State Transfer

(II) The AWS Cloud Adoption Framework (Aws CAR)

— Moving to the Aws Cloud

Cloud Adoption from Enprensies Lequires

the organization to consider multiple factors.

This CAF is a document to created to
help aragonizations designs & towned an
help aragonizations designs & towned an
adoption
accelerated path to successful cloud odp.

AWS CAF

organizations build a comprehensive approach to doud computing accross the organizations to throughout the IT lifetycle to accelerate buccerful cloud adoption.

- AWS CAR is augained into six paropections
 - r. Business 4. Playoum
 - 2- Reople 5. Security
 - 3. Governme 6. Operations.

| > These plus pection | is consister of sets of capabilities. |
|--|--|
| Business & People So Governance | A Seawy Searchy Operations |
| focus on buriners Capabilities | Focus on Technical Capabilities. |
| 1. Business Peurspectine Stakeholdurs from | |
| -> IT Finance | sines needs, and that It is traced to demonstrate business results. |
| -> Benefits Realization -> Business Risk Ma | nagement. |
| to build agile or | ganization. |
| -> Resource Mangement -> Incentive Manager -> Cancer manager | The state of the s |

| 3. Governance Paispetine In |
|---|
| Ensure that skilled processes align -1 |
| Strategy & goals with burnen strangy |
| Ligoals. So, the organization can maximile business value of its IT Investment of ministe business sisks. |
| nimize busins sisks. |
| ProAjolis Margenet - License Management |
| -> Project & Program Management |
| -> Business Penjormanel Measurelyt |
| "Platjorm Peuspectine 15 |
| Aim to understand & communicate the nature |
| of IT systems & their relationships. Must be orble to I dunt describe the architecture of target |
| State environment in detail. |
| -> Compute - Dutabare -> Network - Sys & Sol arch. |
| → Storage → App deu. |

| 5. Security Peuspective | i di manto its |
|--------------------------------|--|
| fim to ensure that | - the organization meets its |
| secuity objectives | -> Data Protection |
| - duity & accers | - Insordent Presponse |
| - Detectine Control | |
| -> Infrastructure Security | |
| 5) Operations Peuspectine | |
| | au autom = 10 |
| - year burrow, | he sale consucres, |
| -> Semile Monitoring | Charge management |
| - APP Performance | -> Reporting analy 1.00 |
| - Res- Inventory management | - Businers Continuity / Disaster Recovery |
| Minare | - IT semice catalog. |
| | |
| | |