

U-4 → cloud platforms & Cloud App

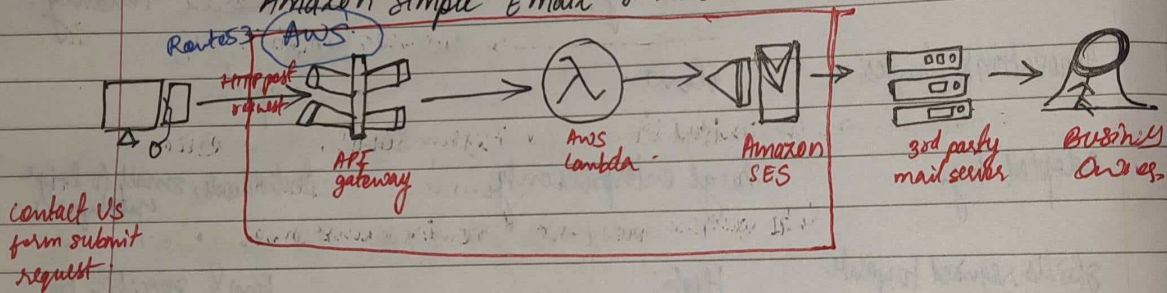
* AWS (Amazon Web Services)

- major public cloud service providers.
- more services, more features than other cloud providers.
- bill → based on usage of various services.
- AWS → 90 services → computing, database storage, content delivery, analytics, app services, deployment, management, mobile, developer tools, etc.

components -

- API Gateway → AWS Lambda Function.
- AWS Lambda function → generate email & forward to 3rd party mail server using amazon SES.

→ Amazon API Gateway, AWS Lambda, Amazon Simple Email Services.



* Adv

- easy to use.
- no capacity limits.
- speed & agility.
- secure & reliable.

* Disadv.

- limitations of Amazon EC2.
- Technical support fee.
- security limitations.

Elastic cloud Computing (Amazon EC2)

- web service that provide secure, resizable, compute capacity (vm) in cloud.
- provide virtual machines → computing requirements.
- Reduces time required.
- chances of economics of computing.

Characteristics & features.

- IaaS → own OS, networking, run on machine.
- several instances types → match your computing requirements.
- start & terminate instances as per your requirements.
- Elastic IP addresses.
- Auto Scaling.
- Multiple OS to choose from.

Amazon S3 → Amazon Simple Storage Service

- is an object storage service.
- Features →
 - Unlimited storage
 - Highly scalable
 - Reliable
 - Secure
 - Performance
 - wide range of storage class.
 - data lifecycle management
 - security & access control
 - easy S3 data.

Amazon S3 Glacier

- secure, durable & extremely low cost Amazon S3 cloud storage.
- expedited
- standard
- bulk retrievals

* Dynamic DB -

- fast, fully managed NO SQL database service.
- stored on solid state drives (SSDs) & are replicated across 3 availability zones.
- no upfront costs.
- pay as you go plan.
- a flat hourly rate.
- capacity reserved.

Advantages -

- flexible -
- fully managed -
- highly scalable
- event-driven programming -

* Microsoft Cloud Services - Azure.

- cloud computing platform by Microsoft
- Azure queue storage → service for storing large number of messages

Used to →

- build web app
- store data while app consumes data.
- create virtual machine to develop & test.
- develop massively scalable
- offer of a wider range of services.

Three components → compute, storage & fabric.

advantages →

- high availability
- cost-effective solution.
- strong security profile
- use any framework/language/platform.
- allows business to build a hybrid infrastructure

* Cloud Computing Application.

- Healthcare
- Marketing & Advertising
- Retail
- Finance

* Google App Engine.

- write your own applications.
- services provided → • PaaS • full managed data • fully managed data
 - popular platform for development language & developer tools.

features -

- automating scaling & load balancing.
- authentication using Google Access API.
- provide dynamic web services ^{cloud}.
- integration with google services & API.
- support persistent storage, with query access ^{storing}.