

UNIT-IV : Networking for CC :

- Introduction
- Overview of Data Center Environment
- Networking Issues in Data Centers
- Transport layer Issues in DCNs
- Cloud Service Providers.

6). Data Center Environment, n/wing & transport layer issues in data center.

Data Center Environment - Physical/Virtual facility

- Large group of servers, storage systems, & n/w devices.
- Supports cloud services & applications.
- A data center is a facility containing servers, storage, n/w devices for cloud services.

Networking Issues

- High latency
- Scalability problems
- Load balancing
- N/w congestion
- Bandwidth width limitation
- Traffic mgmt
- Packet loss

Transport Layer Issues

- Packet loss
- Congestion control
- TCP Performance problems

Main Components of DCE

- 1). Servers
- 2). Storage Systems
- 3). N/w devices
- 4). Cooling systems
- 5. Power Supply
- 6. Virtualization environment
- 7. Security Systems
- 8. Cloud management S/w

Characteristics

- High availability
- Redundancy
- Scalability
- Fault tolerant
- Multi-tenant

⇒ DCE is a physical or virtual facility

- where servers, storage systems, n/w and cloud infrastructure are hosted,

- AWS is one of the world's leading cloud service platforms (provided by Amazon)
 - offers on-demand ~~host~~ services, storage, DBS services
- It follows the Pay-as-you-go model.
- It offers many online services like virtual machines, storage ..
- We can use it from anywhere

AWS Services

①. EC2 — provides virtual computers

② S3

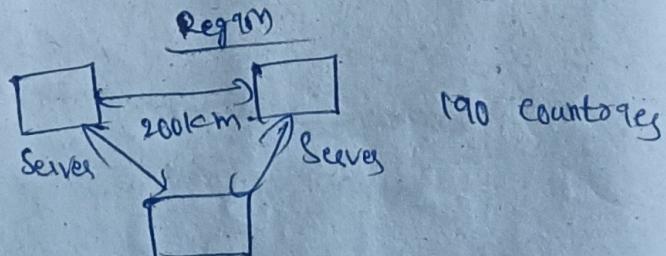
③. SQS

Azure, Aws, Google cloud.

- Aws
 - provides 170+ services
 - simple storage service
 - cloud watch (after deploying we can check bugs)

Company

Netflix
Adobe



- Jobs
- cloud developer
 - AWS cloud architect
 - AWS Network Specialist

①. EC2

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