**AWS**

**Cloud Computing Models:**

1. **Infrastructure as a Service(IaaS)**

* Building blocks, Provide access to networking features and storage space

1. **Platform as a Service(PaaS)**

* Removes need of infrastructure (Software and hardware)

1. **Software as a service(SaaS)**

* Runs by Service providers, no need to worry about hardware, storage, softwares,.. etc
* Example: Web based Emails

**Cloud Computing Deployment Models:**

1. **Cloud**

* Build on low level infrastructure and can use high level services

1. **Hybrid**

* Build on cloud and existing resources which are not on cloud

1. **On premises**

* It is legacy for current IT infrastructure
* Sometimes called as the private cloud

**Global Infrastruture**

* AWS cloud infrastructure is built around Regions and Availability zones
* Region is physical location, where have multiple AZ’s
* 42 AZ’s and 16 Regions

**Security and Compliance**

1. **Security**

* Keeps your Data Safe
* Meet Compliance Requirement
* Save Money
* Scale Quickly

1. **Compliance**

**AWS Cloud Computing:**

**Access Services through**

1. **AWS management Console**
2. **Commmand line interface**
3. **Software development kit**

**Compute**

1. **Amazon EC2**

* Web service
* You select your OS Linux or Microsoft

1. **Amazon EC2 Container Service**

* It is a highly scalable, high performance container management services that supports Docker containers
* It is allow you to easily run application on a managed cluster of Amazon EC2 instances.

1. **Amazon EC2 Container Registry**
2. **Amazon Lightsail**
3. **AWS Batch**
4. **AWS Elastic BeanStalk**
5. **AWS Lambda**
6. **Auto Scaling**

**Storage:**