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* **Iaas (Infrastructure as a Service)**
* **Paas (Platform as a Service)**
* **Saas (Software as a service)**

1. **Major Cloud Service providers**
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* **Private cloud**
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**AWS (Amazon Web Services)**

1. **COMPUTE**

* **EC2(Elastic Compute cloud)**
* **Lambda**
* **Elastic BeanStack**

1. **STORAGE**

* **S3(Simple Storage Service)**
* **EBS (Elastic Block Store)**

1. **DATABASE**

* **Amazon AURORA (RDBMS)**
* **DYNAMO DB (No SQL DATABASE)**
* **RDS (Relational Database Service)**
* **Elastic Cache (IN-MEMORY DATABASE)**

1. **NETWORK & CONTENT DELIVERY**

* **VPC (VIRTUAL PRIVATE CLOUD)**
* **CLOUDFRONT**
* **ROUTE53(DNS SERVICE)**
* **ELB (ELASTIC LOAD BALANCING)**
* **Amazon API GATEWAY**

1. **ANALATICS**

* **Amazon KINESIS**
* **Amazon REDSHIFT**
* **AWS GLUE**

1. **ML (MACHINE LEARNING)**

* **Amazon SAGEMAKER**

1. **SECURITY**

* **IAM (IDENTITY & ACCESS MANAGMENT)**
* **KMS (KEY MANAGEMENT SERVICE)**

1. **CONTAINERS**

* **EKS (ELASTIC KUBERNETES SERVICE)**
* **FARGATE**

1. **MONITORING**

* **CLOUD WATCH**

**What Is Cloud Computing?**

Cloud Computing is the Delivery of computing Services (**Servers**, **Storage**, **Databases**, **Networking**, **software** **etc.**) over the internet (the **Cloud**), rather than using local services or infrastructures.

Allows users to Access and use software and Hardware over the internet without having to own or manage them locally.

**Models of Cloud Computing?**

* Iaas (**Infrastructure as a service):** Renting Virtual machines (**like having a computer in a cloud**).
* Paas (**Platform as a service**)**:** Renting a Platform to Develop Applications (**like having a workshop with tools e.g. Google App engine, Microsoft Azure App**

**services**).

* Saas (**Software as a Service**): Using Software applications over the internet (**like using Google Docs, Gmail**).

**Major Cloud Service providers?**

* Amazon web Services (**AWS**)
* Microsoft Azure
* Google Cloud platform(**GCP**)
* IBM cloud
* Oracle cloud
* Alibaba cloud

**Deployment Models**