**Cloud Computing**

**Definition:** Cloud Computing is on demand delivery of computer power, database storage ,applications and other IT recourses through a cloud service platform via the internet with pay as you go pricing. Cloud Computing is described in one or two ways based on the development model or based on the services.

**Classification of Cloud Computing based on the development model**

1. **Public Cloud**: A Public Cloud is a Cloud where it services are rendered over a network that is completely open for public.
2. **Private Cloud**: A Private Cloud is Cloud infrastructure that is operated solely for a single organization weather managed internally or by a third party and hosted internally or externally.
3. **Hybrid Cloud**: A Hybrid Cloud is a composition of two or more clouds.

**Classification of Cloud Computing based on the services**

1. **Software as a Service (SaaS**): Software as a Service (SaaS) involves software hosted and maintained on internet. With SaaS, users do not have to install the software locally.
2. **Development as a Service (DaaS):** Development as a Service (DaaS) involves web based development tools shared across communities**.**
3. **Platform as a Service (PaaS):** Platform as a Service (PaaS) provides users with application platforms and databases, equivalent to middleware services**.**
4. **Infrastructure as a Service (IaaS):** Infrastructure as a Service (IaaS) provides for infrastructure and hardware such as servers, networks, storage devices, etc. running in the cloud, available to users against a pay per usage basis. **Amazon web Services comes under Infrastructure as a Service (IaaS).**