AWS – Amazon Web Service

Web Service – Service offered in&/by web. Internet (http,https)

Web Service – With the help of an URI, access a method that will do some specific operation without worrying about the platform, architecture, os, hardware

Using Web Service - A Program written in Java can interact with a Program written in python.

Electronics/IoT –

IoT – Internet of Technologies – Smart watch, smart mobiles, smart tv, smart bulbs, smart fan, smart plug.

Web - www, sharing the data across the globe, pop, imap, http, ftp, smtp – layers.

Data will be sent in the form of packets.

Modem – Modulation & Demodulation – Electronic Signal for communication purpose.

Wired Connection & Wireless Connection – Wifi (10-20 Meters), Bluetooth (5 Meters), ZigBee (50-100m) (Range is very high)

Internet – Network of Networks

Network – Connecting two or more computers either by wire/wireless (routers/switches/hubs – Ethernet port) – wifi/Bluetooth tethering

Main purpose of networking is – to share the data and resources.

Movie – SpiderMan Home Returns. – Burn in a CD/DVD, you can copy it in pen drive.

ISP – Internet Service Provider (Bandwidth )

Each resource connected to internet will have an ip address. – internet protocol address. Ipv4, ipv6

(0-255).(0-255).(0-255).(0-255)

127.0.0.1 – ip address of localhost – tomcat - 127.0.0.1:8080 oracle xe – 127.0.0.1:8080, 127.0.0.1:4200, 127.0.0.1:9090

Tomcat/oracle xe – 8080

Postgres – 5432

Angular – 4200

React – 3000

Sonarqube – 9090

Jenkins –

Mysql - 3306

Door no, street name, city, zip/pin code, country. Mobile number. – physical

AWS – Amazon Web Service –

Stand – alone application - - Download & Install – MS Office, AutoCAD, Windows OS, Linux OS

Web Applications – Directly access using browser – Gmail, Yahoo Mail,

Cloud Service – Cloud storage Service – Audio, videos, images, files – office 365,

Creating, converting, building, testing & deploying the application – cloud service

Cloud service

1. IaaS – Infrastructure as a Service (Virtual Machines – Bare Hardwares, vCPU, Storage 8/16/32/512 gb RAM, SSD )
2. PaaS – Platform as a Service
3. SaaS – Software as a Service

Public cloud – shared resource – It’ll be cheaper

Private cloud – Dedicated Resource – On-premise Data Center

They provide various services in cloud

AWS – Free Tier Account – Signup – Credit/Debit Card is needed to signup.

Pay as you go. – pay for what you are using and not for what it is available

AMI – Amazon Machine Image

EC2- Elastic Compute Cloud

ECS – Elastic Container Service

EKS – Elastic Kubernetes Service

IAM – ID and Access Management (Users, Roles)

EBS – Elastic Beanstalk

EBS – Elastic Block Storage

SPOT Instance – private cloud