

===== Cloud Computing =====

-> Cloud Computing means the process of delivering on-demand resources over the internet

-> Instead of buying, owning & maintaining infrastructure we can take it from Cloud Provider

-> There are several advantages with Cloud Computing

- 1) Low cost
- 2) Pay As You Go (Ex: Post paid mobile bill, credit card bill etc..)
- 3) Scalability (increasing & decreasing)
- 4) Availability (zero downtime)
- 5) Reliability (Strong)
- 6) Security
- 7) Unlimited Storage
- 8) Backup

On-Premise Infrastructure (in-house infrastructure)

Cloud Infrastructure (provider managed infrastructure)

===== Cloud Provider =====

-> The company which is providing cloud infrastructure is called as Cloud Provider

Amazon -----> AWS (80 %)

Microsoft -----> Azure

Google -----> GCP

Salesforce -----> Salesforce CRM

Oracle -----> Oracle Cloud

IBM -----> IBM Cloud

===== Cloud Services =====

IAAS : Infrastructure as a service

PAAS : Platform as a service

SAAS : Software as a service

===== AWS Cloud =====

-> AWS stands for Amazon Web services

-> AWS providing cloud infrastructure since 2006

- > AWS providing cloud infrastructure based on 'Pay As You Go' model
- > AWS offering 200+ services
- > AWS cloud services are using in 190+ countries
- > AWS having Global Infrastructure

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AWS Global Infrastructure
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- > AWS providing global infrastructure using Regions & Availability Zone

Region -----> Geographical Location

Availability Zone -----> Data Center

Note: One Region will have multiple Availability Zones