

1.Introduction

Session 1 : Introduction to Cloud Computing,Characteristics,Top Cloud Players,AWS Certifications

Cloud Computing :

- Cloud computing is the on-demand delivery of compute power,database,applications,storage and other IT resources through a cloud service platform via the Internet, with pay-as-you-go pricing model

Top Players in Cloud :

- 1.AWS
- 2.Microsoft Azure
- 3.Google Cloud Platform
- 4.Alibaba Cloud
- 5.Oracle,Vmware,IBM,Fujitsu

Characterstics of Cloud :

- 1.On demand self service
- 2.Broad Network Access
- 3.Scalability
- 4.Resource Pooling
- 5.Measured Services

AWS was launched in 2006.....AWS was moved to amazon.com in 2010.....Certifications was launched in 2013.....2015-2016 Amzon's Profit got doubled.....2017 Reinvent A.I

AWS Certifications :

- 1.Foundational : AWS Cloud Practitioner

- 2.Associate & Professional :

- AWS Solution Architect.(Associate and Professional)
- AWS Developer(Associate).....AWS Devops Engineer(Professional).....Development and Operations(DEVOPS)
- AWS Sysops Admin (Associate).....AWS Devops Engineer(Professional).....System Admin and Operations

- 3.Speciality : AWS Advanced Networking,Security,Machine Learning,Alexa Skill Builder,Database,DataAnalytics

Session 2 : Service and Deployment Models in Cloud

Services in Cloud :

- 1.Infrastructure as a Service(IAAS) : Network to O.S
- 2.Platform as as Service(PAAS) : Network to Runtime
- 3.Software as as Service(SAAS) : Network to Application

Layer Model
Application
Data
Runtime
Middleware
O.S
Virtualization
Server
Storage
Network

Deployment Model in Cloud :

1. **Public Cloud** : Any one can create account and access services from service platforms like AWS, Google, Microsoft etc
2. **Private Cloud** : Also Known as enterprise cloud which are only available to the enterprise and its branches across the globe with the help of internet which is more secure than Public Cloud
3. **Hybrid Cloud** : Merging of both Public and Private clouds to reap both their respective benefits

- Cloud Service Providers provide virtual private cloud also

Hypervisors used by Cloud Platforms :

- AWS uses Citrix as hypervisor for Virtualization
- Microsoft uses Hyper-V
- Vmware uses Vsphere Esxi

LABS :

Session 3 : Creating AWS Account