





Cloud Computing with Microsoft Azure

➤ **Microsoft Azure :-**

- **It is considered a cloud computing service created by Microsoft .**
- **Microsoft Azure develops, tests, installs and manages applications and services through a global network of data center data centers managed by Microsoft**
- **Initial Release Date: February 1, 2010 .**

❖ What is Microsoft Azure ?

- **Microsoft has leveraged its constantly-expanding worldwide network of data centers to create Azure, a cloud platform for building, deploying, and managing services and applications, anywhere. Azure lets you add cloud capabilities to your existing network through its platform as a service model, or entrust Microsoft with all of your computing and network needs with Infrastructure as a Service (IaaS). Either option provides secure, reliable access to your cloud hosted data—one built on Microsoft's proven architecture. Azure provides an ever expanding array of products and services designed to meet all your needs through one convenient, easy to manage platform .**

➤ Azure's Three Flavors :-

- **Azure Operating System (*Platform as a Service*)**
 - Worker/Web Role, Blobs, Queues, Tables
- **Azure .NET Services (*Software as a Service*)**
 - Access Control Service
 - SQL Azure (SQL Server in the sky)
 - Workflow Services
- **Azure Hosted Services (*Application as a Service*)**
 - Hosted Exchange
 - Host SharePoint

➤ Azure Platform

- Service management
- Compute
- Storage
- Developer experience
 - You define rules and provide code
 - Platform deploys, monitors, and manages you service according to your rules

➤ Azure Services Platform

Your Service

*Web/ Worker
Role Blobs,
Tables, Queues*

*SQL
Azure*

*Access
Control*

*Live
Services*

*Dynamic
CRM
Services*

➤ Three Classes of Vendors :-

- Amazon
- Google / Force.com
- Microsoft

➤ **Economic Conditions :-**

- Pricing
- Service Level Agreement (SLA)

➤ Azure Platform Pricing

- Compute \$0.12 per hour
- Storage \$0.15 per GB month
- Storage Transactions \$0.01 per 10K
- Bandwidth \$0.1 in per GB \$0.15 out per GB
Within the datacenter is free

➤ **Compelling Case :-**

- **SMB Applications**
- **Massive Computation Needs**
- **No Need to Build to Peak Capacity**
- **Cloud Bursting**
- **Software as a Service**

➤ **Connectivity is Not Always Available**

- **Cell phone**
- **Data Center Outages**
- **Equipment Upgrades**
- **Data redundancy to improve reliability**

➤ Storage in Azure

- World of Consistency
- SQL Azure
- World of Internet Scale (Numbers or Geography)
- Blobs, Tables, Queues





Thank you