

# **Azure Overview**

# Cloud Service Providers

- The Cloud Service is offered by some companies.
- These companies are called Cloud Providers.



# What is Azure?

- A Microsoft's Cloud Computing Platform
- Similar to AWS or Google Cloud.
- Microsoft buys lot of computers and allow user/s to rent compute and storage from it and ask them to pay Microsoft some monthly fees.
- The maintenance will be entirely done by Microsoft.
- So in the long runs it'll be cost effective for the customers than buying all those hardware, maintaining the hardware, replacing them during failures etc.

# What is Azure?

- An ever-expanding set of cloud services
- It provides
  - Software as a service (SaaS),
  - Platform as a service (PaaS) and
  - Infrastructure as a service (IaaS)



- Supports many different programming languages, tools, and frameworks.
- Azure was announced in October 2008 and released on February 1, 2010, as "Windows Azure" before being renamed "Microsoft Azure" on March 25, 2014

# Azure



Moves Faster



Saves Money



Global  
Footprint



pay only for what you use



no upfront costs





per minute billing



no charge for  
stopped VMs



on apps,  
not infrastructure



HDInsight



SQL DB



Storage



Traffic Mgr



Cloud  
services

# application building blocks



Cache



CDN



Active  
Directory



Web Sites



Mobile



media

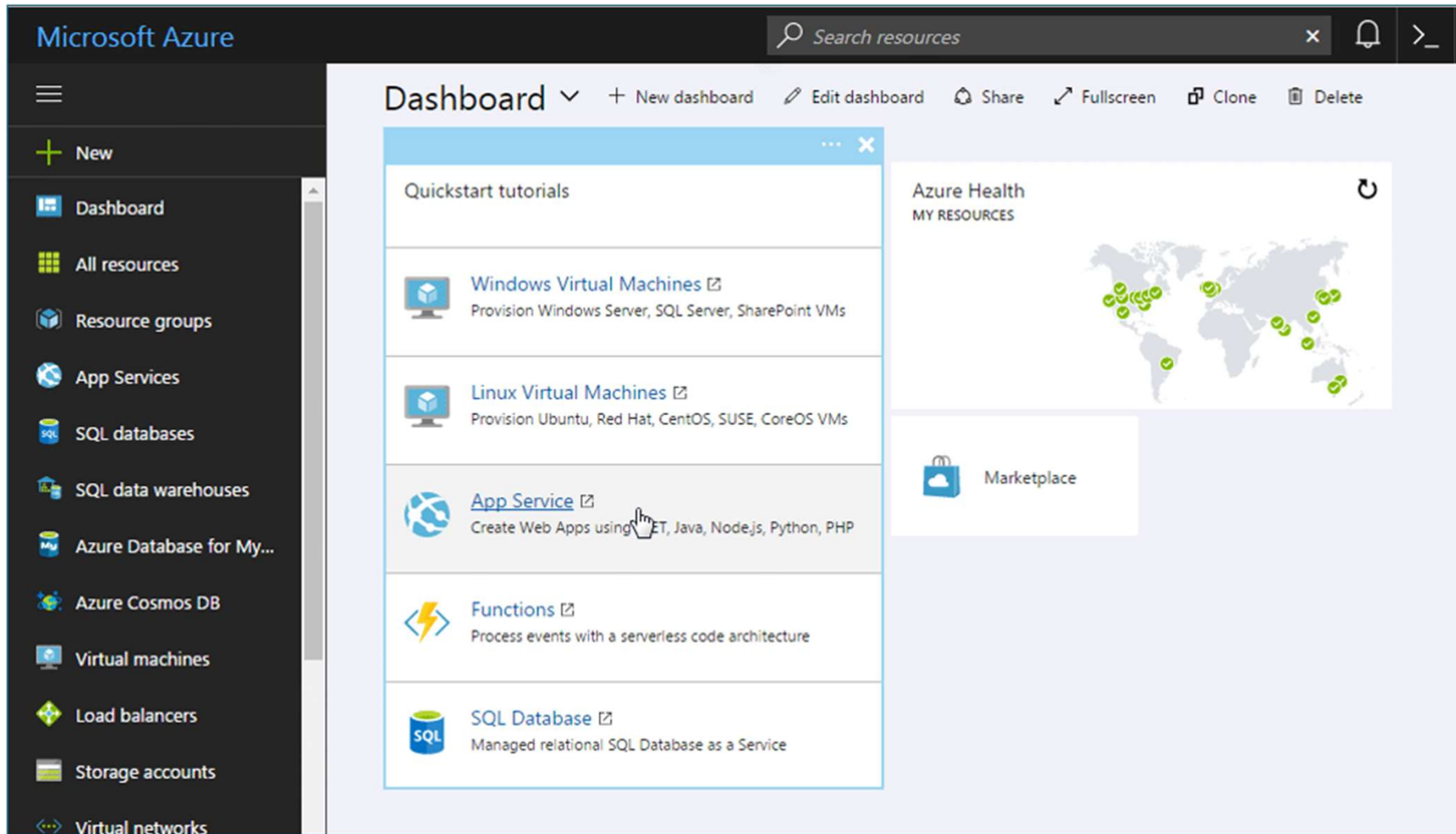


Service Bus



bizTalk

# Azure Dashboard



# Azure Resources

- On the left side, all the resources are listed.
- These resources can broadly be divided into the following categories:
  - Compute
  - Storage Services
  - Database
  - Networking
  - Developer Tools
  - Management and Monitoring Tools
  - Enterprise Integration
  - Security and Identity
  - Web and Mobile Apps



# What can Microsoft Azure Do?

- Virtual machines
- SQL databases
- Azure Active Directory Domain services
- Application services
- Visual Studio team services
- Storage
- And many more....

# Compute

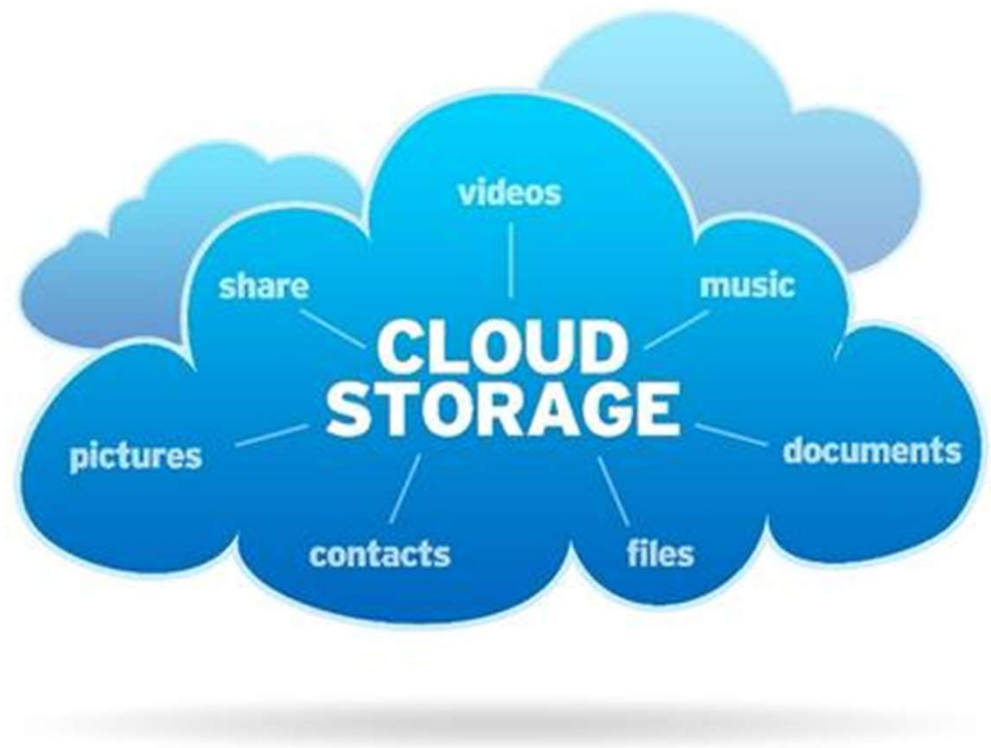
- Used to process data on the cloud by making use of powerful processors
  - Virtual Machines
  - VM Scale Sets
  - Azure Container
  - Container Registry
  - Functions
  - Batch
  - Service Fabric
  - Cloud Services





# Storage Services

- Used to store data in the cloud.
  - Blob Storage
  - Queue Storage
  - File Storage
  - Table Storage



# Database

- Used to provide reliable relational and non relational database instances managed by Azure
  - SQL Databases
  - DocumentDB
  - Redis Cache



# Networking

- Provide a variety of networking features such as security, faster access etc.
  - Virtual Network
  - Load Balancer
  - Application Gateway
  - Azure DNS
  - Content Delivery Network
  - VPN Gateway
  - Traffic Manager
  - Express Route



# Developer Tools

- Provides services that ease the ability to code.
- For example: it eases the teams to share code, track work and ship software.
  - Visual Studio Team Services
  - Application Insights
  - API Management



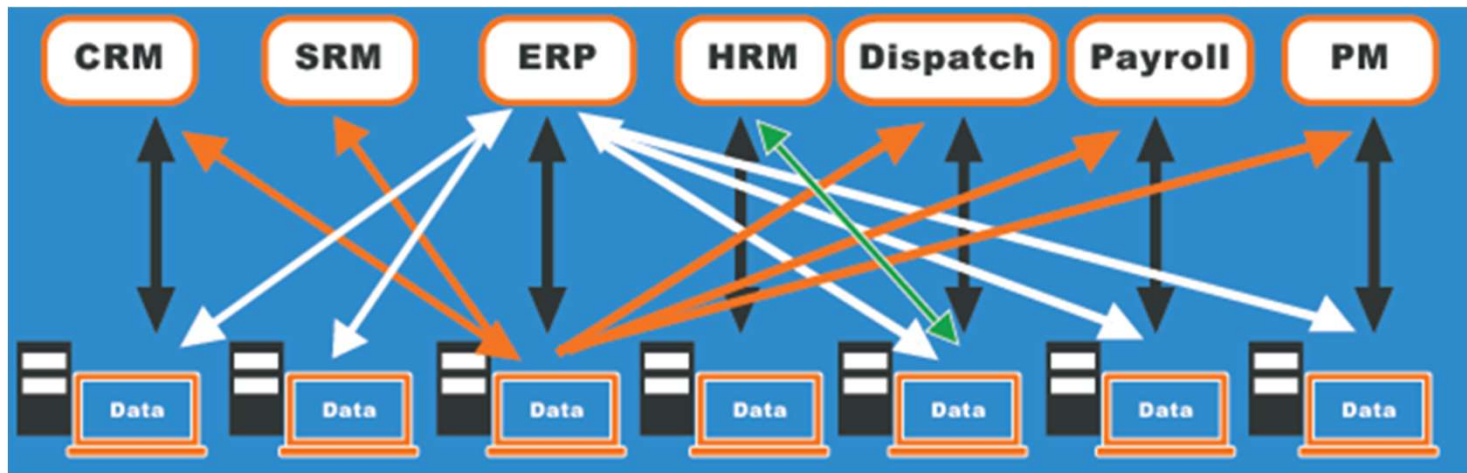
# Management and Monitoring Tools

- Used to manage and monitor Azure instances.
  - Microsoft Azure Portal
  - Azure Resource Manager
  - Automation



# Enterprise Integration

- Bring functionalities like seamlessly integrating the enterprise and the cloud.
  - Service Bus
  - SQL Server Stretch Database



# Security and Identity

- For user authentication:
  - Key Vault
  - Azure Active Directory
  - Azure AD B2C
  - Azure AD Domain Services
  - Multi Factor Authentication



# Web and Mobile Apps

- Used to create web apps or mobile apps:
  - Web Apps
  - Mobile Apps
  - API Apps
  - Logic Apps
  - Notification Hubs
  - Event Hubs
  - Azure Search





**Thanks**