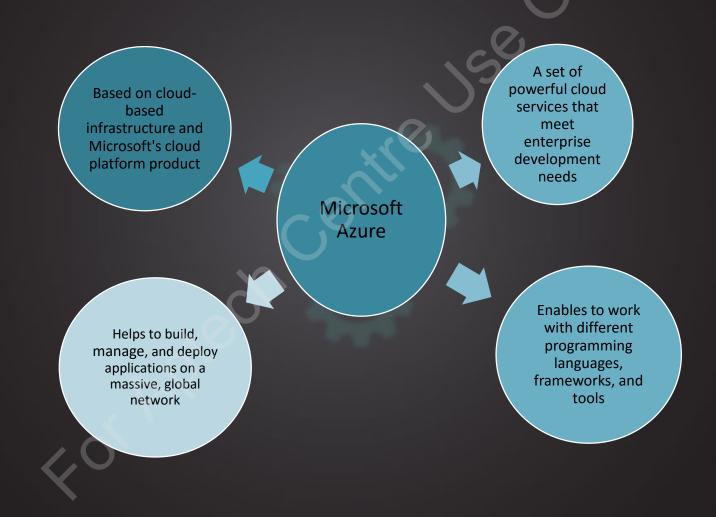


# Session 02: Understanding Microsoft Azure Cloud Services

# Objectives

- Describe features and functionalities of Microsoft Azure cloud platform
- Explain data and data access technologies
- Explain Azure cloud services

# Features and Functionalities of Azure [1-2]



## Features and Functionalities of Azure [2-2]

#### Azure subscription:

- Grants a developer or user access to Azure services and Azure portal.
- Following are the components of each subscription:

The Azure account, through which resource usage is reported and services will be billed as and when they are used.

The subscription itself, which governs access to and use of the Windows Azure services that are subscribed to.

## Creating a Microsoft Azure Account

#### Steps to create a Microsoft Azure account:

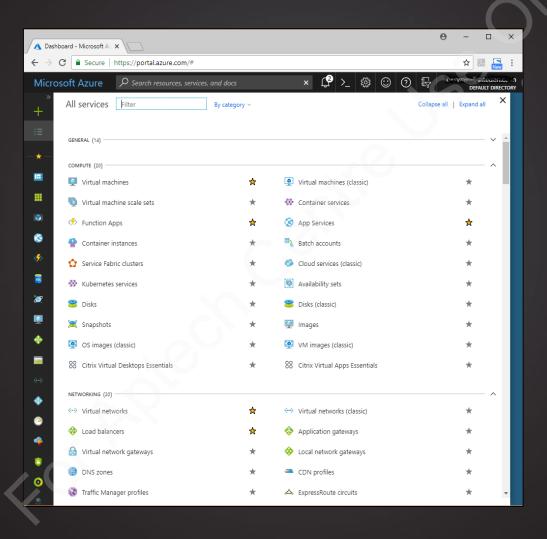
Step 1

• Open http://portal.azure.com in a Web browser.

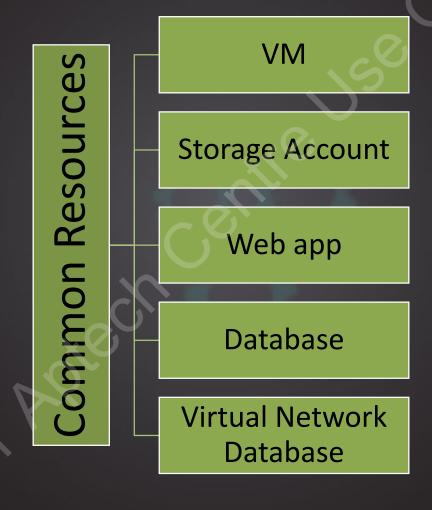
Step 2

Create a new free or paid account. If the developer has a
Microsoft Developer Network (MSDN) subscription, he or she can
activate MSDN subscriber benefits from the Azure Benefit for
MSDN Subscribers page.

# **Exploring the Portal**

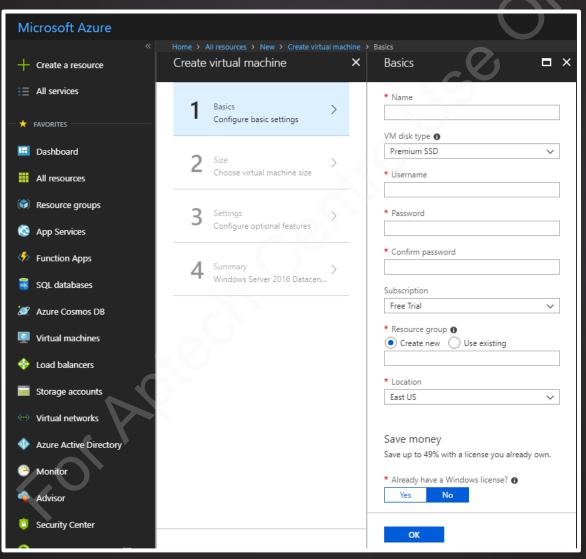


# Azure Resource and Resource Manager





# Creating a Windows VM in Azure Portal



## Azure SQL Database

#### Features of Azure SQL Database:

High-performance, reliable, and secure database

Based on the developer's choice of programming language, data-driven applications and Websites can be build

Need not manage infrastructure

## Azure Data Factory

#### Following tasks are performed using Azure Data Factory:

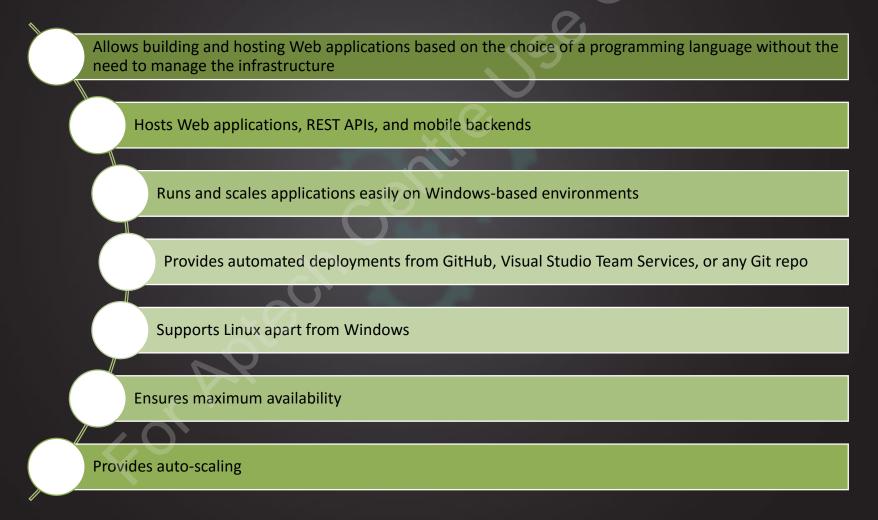
Data from various data stores are absorbed using datadriven workflows (called pipelines). These workflows are created and scheduled by Azure Data Factory.

Data is processed or transformed using compute services. These include Azure HDInsight Hadoop, Spark, Azure Data Lake Analytics, and Azure Machine Learning.

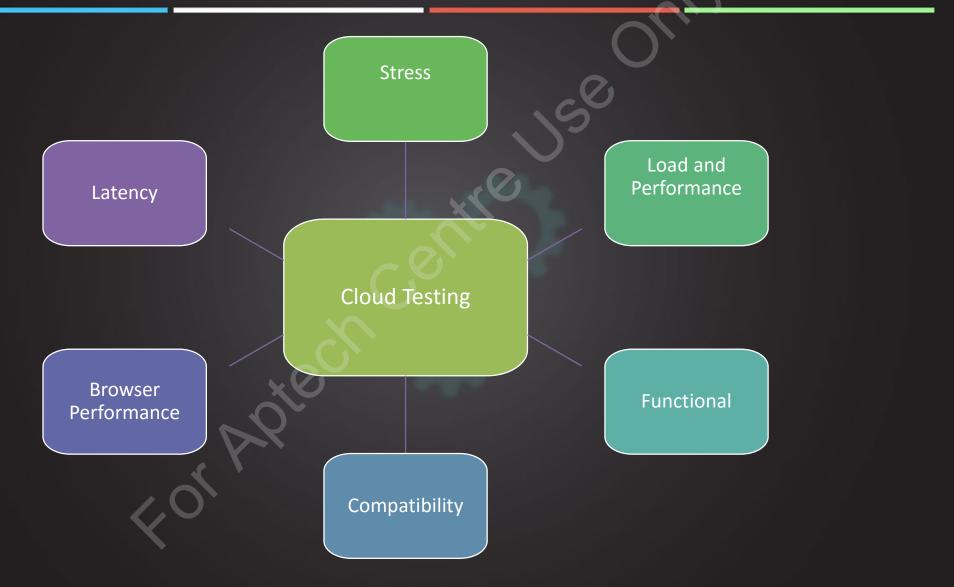
Data is published to data stores, such as Azure SQL Data Warehouse to be utilized by Business Intelligence (BI) applications.

## Application Development in Azure

Features for robust application development by Microsoft Azure:



# Testing the Cloud Service



#### Summary

- Microsoft Azure is a set of powerful cloud services by Microsoft that meet enterprise development needs
- Microsoft Azure enables developers to work with different programming languages, frameworks, and tools (including third-party products).
- Users can create paid or free accounts and obtain subscriptions to access the Azure portal.
- Using Microsoft Azure, Windows Virtual Machines can be created to be used as Web Server or Hosted Database Server.
- Azure database services allow to use variety of database or data sources as per requirement.