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## Microsoft Azure Fundamentals Training Course

### Description

The Microsoft Azure Fundamentals course provides introductory knowledge and hands-on practices on Microsoft Azure cloud environment, exploring key services, including virtual machines, networking, storage and databases, and web applications. The course also highlights cost management practices.

### Course Objectives

After completing this course, students will be able to:

- Describe cloud computing, Azure, and Azure subscriptions.
- Describe and create Azure Web Apps.
- Create and configure VMs in Microsoft Azure.
- Create an Azure virtual network.
- Describe Azure storage.
- Describe and deploy databases in Azure.
- Describe Azure AD.
- Configure and deploy web applications.
- Creating Azure Web Apps from the gallery.
- Deploying and monitoring Azure Web Apps.
- Creating and configuring Azure Virtual Machines.

## Intended Audience

This course is intended for individuals who want to evaluate deploying, configuring, and administering services and VMs using Azure, including:

- Developers who want to evaluate creating Azure solutions.
- Windows Server administrators who are looking to evaluate the migration of on-premises Active Directory services and roles to the cloud.
- IT professionals who want to evaluate the use of Azure to host web sites and mobile app back-end services.
- Database administrators who want to evaluate the use of Azure to host SQL databases.

## Prerequisites

Before attending this course, students must have:

- 1) A basic understanding of websites;
- 2) A basic understanding of Active Directory concepts including: Domains, Users, Domain Controllers;
- 3) A basic understanding of database concepts including tables and simple queries.

## Duration

1 full day, 09:00 AM - 04:00 PM, Egypt time.

# Course Overview

## **1 - Getting Started with Microsoft Azure**

What is cloud computing?

What is Azure?

Managing Azure Subscription management, support, and billing

Lab : Using the Azure portals

## **2 - Microsoft Azure management tools**

What is Azure PowerShell

The Azure SDK and the

Azure CLI

Lab : Using Microsoft Azure management tools

## **3 - Virtual machines in Microsoft Azure**

Creating and configuring VMs

Configure disks

Lab : Creating a VM in Azure

## **4 - Web Apps and cloud services**

Creating and configuring web apps

Deploying and monitoring web apps

Creating and deploying PaaS cloud services

Lab : Web Apps and cloud services

## **5 - Creating and configuring virtual networks**

Getting started with virtual networks

Creating a virtual network

Getting started with Azure Load Balancers

Lab : Create a virtual network

## **6 - Cloud storage**

Understanding cloud storage

Create and manage storage

Lab : Configure Azure Storage

## **7 - Microsoft Azure databases**

Understanding options for relational database deployment

Creating and connecting to Azure SQL databases

Lab : Creating a SQL Database in Azure

## **8 - Creating and managing Azure AD**

Overview of Azure AD Manage

Azure AD authentication

Lab : Create users in Azure Active Directory tenants

## **9 - Building Application Infrastructure in Azure**

Constructing Azure Virtual Machines

Azure Virtual Machine Workloads

Migrating Azure Virtual Machine Instances

Highly Available Azure Virtual Machines

Virtual Machine Configuration Management

Customizing Azure Virtual Machine Networking

Lab : Creating an Azure Virtual Machine for Development and Testing

## **10 - Hosting Web Applications on the Azure Platform**

Azure Web Apps Hosting

Web Applications in Azure

Configuring an Azure Web App

Publishing an Azure Web App

Lab : Creating an ASP.NET Web App by Using Azure Web Apps

## **Fees**

Price per attendee is USD 150 to be paid in advance.

Contact us to register: <http://cloudesk.onewayforward.com/contact.htm>