

Microsoft Azure course content

Class Room: Training Fee & Duration : 12K & 45 Days	Online Training Fee & Duration : 25K & 45 Days
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Implementing Microsoft Azure Infrastructure Solutions (70-533) course content.

Module 1: Introduction to Azure

This module introduces cloud solutions in general and then focuses on the services that Azure offers. The module goes on to describe the portals that you can use to manage Azure subscriptions and services before introducing the Azure PowerShell modules and Azure Command Line Interface (CLI) as scripting technologies for managing Azure. Finally, the module provides explanations and guidance for the use of Azure Resource Manager.

Overview of Azure

Azure Data Centers and Services

Classic Azure Portal

New Azure Portal

Azure Subscriptions

Introduction to Resource Manager

Azure PowerShell

Azure CLI

Module 2: Azure Virtual Machines

This module introduces the fundamentals of Azure Virtual Machines, and discusses the different ways in which you can deploy and manage them.

IaaS and Virtual Machines

Planning Virtual Machine Deployment

Virtual Machines (Portal)

Virtual Machines (Templates)

Virtual Machines (Linux)

Virtual Machine Availability

Virtual Machine Scalability



Module 3: Azure Networking

This module explains how virtual networking provides the glue that brings together VMs, web apps, and storage to enable you to publish a service onto the Internet.

Overview of Virtual Networks

Multiple NICs in Virtual Machines

Network Security Groups

Intersite Connectivity

Express Route

Module 4: Azure Storage

This module explains how to plan and implement storage. Students will learn how to choose appropriate Microsoft Azure Storage options to address business needs. This module also explains how to implement and manage Azure Storage, and students will learn how to improve web-application performance by implementing Azure Content Delivery Networks (CDNs).

Azure Storage

Storage Access Tools

Virtual Machine Disks

Azure File Storage

Blob Storage

Managing Large Amounts of Blob Storage

Securing Storage

Module 5: Azure – Out of the box

DNS

ADFS

Clustering

Backup

Disk redundancy

BCP/DR (Business continuity plan and Disaster recovery)

Module 6: Azure PaaS

This module explains how to plan and deploy Azure Cloud Services. This module also explains how to manage and maintain Azure Cloud Services.

Overview of PaaS Services

Azure App Services

App Service Plans



Managing Apps with Azure App Services

App Deployment with Azure App Services

Data Services and Azure SQL

Module 7: Advanced Azure

This module explains about SQL in Azure and advanced technologies, Subject to the scope of course content.

Managing Azure with Windows PowerShell

Azure management services

Storing SQL Data in Azure

Managing SQL Databases in Azure

Azure SQL Database Tools

Securing and Recovering an Azure SQL Database Instance

Implementing Azure-based management and automation

This module explains how to implement Azure-based management and automation. Students will learn how to implement Microsoft Operations Management Suite (OMS) solutions and the core components of Microsoft Azure Automation. This module also describes how to implement different types of Azure Automation runbooks and manage Azure Automation by publishing runbooks and scheduling their execution.

Implementing Microsoft Operations Management Suite (OMS)

Implementing Azure Automation

Implementing Automation runbooks

Managing Azure Automation

Module 8: Azure AD (Azure identity)

This module explains how to implement Azure AD. Students will learn how to create and manage Azure AD tenants. This module also explains how to configure single sign-on (SSO) for cloud applications and resources, and implement Azure Role-Based Access Control (RBAC) for cloud resources. Lastly, this module explains the functionality of Azure AD Premium, and how to implement Azure Multi-Factor Authentication.

Creating and managing Azure AD tenants

Configuring application and resource access with Azure AD

Overview of Azure AD Premium

Module 9: Azure AD advanced

This module explains how to manage Active Directory in a hybrid environment. Students will learn how to extend an on-premises Active Directory domain to Azure Infrastructure as a Service (IaaS) environments and synchronize user, group, and computer accounts between on-premises AD DS and



Azure AD. This module also explains how to set up SSO by using federation between on-premises Active Directory and Azure AD.

Extending an on-premises Active Directory domain to Azure IaaS

Implementing directory synchronization by using Azure AD Connect

Implementing federation

Module 10: Planning and implementing storage, backup, and recovery services

This module explains how to protect on-premises systems and Azure VMs by using Azure Backup, and they will be able to describe Azure Site Recovery capabilities.

Implementing and managing storage

Implementing Azure Content Delivery Networks

Implementing Azure Backup

Planning for and implementing Azure Site Recovery

Module 11: Azure Migrate and Azure Site Recovery

This module explains on how to design the strategy of on-premises data center, the tools should be used and the pricing expectations with light scan and deep scan.

Migration of servers to Azure IaaS

Migration of applications to Azure PaaS

Light scan

Deep scan

Strategy of on-premises datacenter migration by Azure migrate & ASR

Strategy of on-premises datacenter migration by 3rd party migration software