



Microsoft Azure (AZ-900) Course Overview

Azure, it is one of the courses with exponential growth because operating with cloud has been expanded a lot. This course is proposed for IT experts who have experience with cloud and willing to grow more or for system administrators who are transitioning into Azure Candidates will know about virtual networks, virtual machines and storage options through hands-on experience and expert instruction.

The course will teach you in-depth concepts of cloud concepts, cloud services, cloud security, cloud privacy, cloud pricing and cloud support.

What you will learn?

- You will learn cloud concepts from basics
- You will learn about core Azure cloud services
- You will learn about security, privacy, compliance, and trust
- You will learn about Azure pricing and support

Online – Weekend Classes

Study Material:- Online Instructor-led Training, Live Training Recorded Videos, 24*7 Virtual Lab Access, and Online Workbook

Duration:- 1 Month

About Trainer:

The instructor of Azure has implemented all his knowledge in demonstrating each topic of this course. He is Microsoft certified as well as verified by UniNets. He has great experience and has given over 30+ retail and corporate training across the globe .

Course Content

Understand Cloud Concepts

Overview of using cloud services

- Learn high availability, scalability, elasticity, agility, fault tolerance, and disaster recovery
- Understand the principles of economies of scale
- Overview and differences between Capital Expenditure (CapEx) and Operational Expenditure (OpEx)
- Understand the consumption-based model

Learn the differences between Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS)

- Overview of Infrastructure-as-a-Service (IaaS)
- Overview of Platform-as-a-Service (PaaS)

- Overview of Software-as-a-Service (SaaS)
- Learn about three different service types

Differences between public, private and hybrid cloud models

- Describe public cloud
- Describe private cloud
- Describe hybrid cloud
- Compare and contrast the three different cloud models

Understand core Azure services

Learn about core Azure architectural components

- Describe Regions
- Describe Availability Zones
- Describe Resource Groups
- Describe Azure Resource Manager
- Overview of benefits and usage of core Azure architectural components

Describe some of the core products available in Azure

- Learn about products available for Compute such as Virtual Machines, Virtual Machine Scale Sets, App Service Functions, Azure Container Instances and Azure Kubernetes Service
- Explain products available for Networking, for example Virtual Network, Load Balancer, VPN Gateway, Application Gateway and Content Delivery Network
- Explain products available for Storage, for example Blob Storage, Disk Storage, File Storage, and Archive Storage
- Explain products available for Databases, for example Cosmos DB, Azure SQL Database, Azure Database for MySQL, Azure Database for PostgreSQL, Azure Database Migration service
- Describe the Azure Marketplace and its usage scenarios

Explain some of the solutions available on Azure

- Explain IoT and products that are available for IoT on Azure, for example IoT Hub and IoT Central
- Explain Big Data and Analytics and products that are available for Big Data and Analytics, for example SQL Data Warehouse, HDInsight, and Azure Databricks
- Explain Artificial Intelligence and products that are available for AI, for example Azure Machine Learning Service and Studio
- Example Serverless computing and Azure products that are available for serverless Computing, for example Azure Functions, Logic Apps, and Event Grid
- Explain DevOps solutions available on Azure, for example Azure DevOps and Azure DevTest Labs
- Explain the benefits and outcomes of using Azure solutions

Understand Azure management tools

- Overview of Azure tools such as Azure Portal, Azure PowerShell, Azure CLI and Cloud Shell
- Understand Azure Advisor

Understand security, privacy, compliance, and trust

Understand securing network connectivity in Azure

- Describe Network Security Groups (NSG)
- Describe Application Security Groups (ASG)
- Describe User Defined Rules (UDR)
- Describe Azure Firewall
- Describe Azure DDoS Protection

- Choose an appropriate Azure security solution

Describe core Azure Identity services

- Overview of difference between authentication and authorization
- Describe Azure Active Directory
- Describe Azure Multi-Factor Authentication

Describe security tools and features of Azure

- Describe Azure Security Center
- Understand Azure Security Center usage scenarios
- Describe Key Vault
- Describe Azure Information Protection (AIP)
- Describe Azure Advanced Threat Protection (ATP)

Describe Azure governance methodologies

- Describe policies and initiatives with Azure Policy
- Describe Role-Based Access Control (RBAC)
- Describe Locks
- Describe Azure Advisor security assistance
- Describe Azure Blueprints

Understand monitoring and reporting options in Azure

- Describe Azure Monitor
- Describe Azure Service Health
- Overview of use cases and benefits of Azure Monitor and Azure Service Health

Overview of privacy, compliance and data protection standards in Azure

- Overview of industry compliance terms such as GDPR, ISO and NIST
- Overview of Microsoft Privacy Statement
- Describe the Trust center
- Describe the Service Trust Portal
- Describe Compliance Manager
- Determine if Azure is compliant for a business need
- Understand Azure Government cloud services
- Describe Azure China cloud services

Understand Azure pricing and support

Understand Azure subscriptions

- Describe an Azure subscription
- Overview of uses and options with Azure subscriptions such access control and offer types
- Overview of subscription management using Management groups

Understand planning and management of costs

- Overview of options for purchasing Azure products and services
- Understand options around Azure Free account
- Explain factors affecting costs such as resource types, services, locations, ingress and egress traffic
- Understand Zones for billing purposes
- Understand the Pricing calculator
- Understand the Total Cost of Ownership (TCO) calculator
- Learn best practices for minimizing Azure costs, for example - performing cost analysis, using tags to identify cost owners, creating spending limits and quotas, using Azure reservations and using Azure Advisor recommendations
- Describe Azure Cost Management

Learn support options available with Azure

- Explain support plans that are available, for an example - Dev, Standard, Professional Direct and Premier
- Understand how to open a support ticket
- Explain available support channels outside of support plan channels
- Describe the Knowledge Center

Describe Azure Service Level Agreements (SLAs)

- Describe a Service Level Agreement (SLA)
- Understand Composite SLAs
- Explain how to determine an appropriate SLA for an application

Understand service lifecycle in Azure

- Understand public and private preview features
- Understand the term General Availability (GA)
- Explain how to monitor feature updates and product changes

Note: ***Most of the course topics are covered with hands-on lab exercises and others are theoretical

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