



Azure Fundamentals

Description:

The use of cloud computing is growing rapidly across all industries, opening up a slew of new job prospects. A wide range of positions is available, from developers and architects to security specialists and data scientists. As a result of this course, you will be prepared to begin your Microsoft Azure certification journey confidently. For the AZ-900 certification exam and your cloud career, you'll need a solid foundation of core knowledge from our Microsoft Azure Fundamentals AZ-900 Exam Prep Specialization. This program's content purely matches the AZ-900 test objectives.

Start Date:

Doubt Clear Time:

Course Time:

Features:

- # Real-Time implementation
- # ML/DL model testing and monitoring
- # Scenario-based questions
- # Challenges
- # Downloadable resources
- # Quizzes
- # Completion certificate

What we learn:

- # You will understand cloud concepts
- # Learn about core Azure services
- # Master security, privacy
- # Compliance and trust
- # Understand Azure pricing and support
- # Students who wish to start learning how to use the Azure platform

Requirements:

- # Computer with i3 and above configuration
- # Azure free or paid account
- # Your dedication

Instructor:

Name:

MD Imran

Description:

Working as Data Scientist with experience in solving real world business problems across different domains.

>Introduction:

>>Introduction to cloud computing

>>Cloud models

>>Different cloud providers

>Regions and Availability

Zones:

>>Understanding regions and availability zones in Azure

>>Creating Microsoft Azure account

>Azure Virtual Machines:

>>Topics covered in this section

>>Getting started with Azure virtual machines

>>Creating your first virtual machine in azure

>>Connecting to the Azure virtual machine and running commands

>>Connecting SSH

>>Understanding Azure VM-key concepts

>>Installing Nginx on Azure virtual machine

>>Simplifying installing software on the Azure virtual machine

>>Increasing availability for azure VM

>>Virtual machine scale sets

>>Exploring scaling and load balancing

>>Static IP, monitoring and reducing costs

>>Designing a good solution with Azure VM

>>Exploring Azure virtual machine scenarios

>Compute Services:

>>Topics covered in this section

>>Getting started with Azure app services

>>Creating your first Azure web app using app service

>>Exploring Azure app service

>>Getting started with containers

>>Azure container instances

>>Getting started with serverless

>>Azure functions

>>Building workflows logic apps

>>Azure responsibility model

>>Exploring Azure cloud service categories scenarios

>>Review Azure compute services

>>Deleting resource group

>Storage Service:

>>Getting started with Azure storage

>>Managed and unmanaged block storage in Azure

>>Getting started with Azure file storage

>>Exploring Azure file storage

>Databases:

- >>Getting started with databases
- >>Snapshot and standby
- >>Availability and durability
- >>How to achieve availability and durability
- >>Understanding database fundamentals RTO and RPO
- >>Data consistency
- >>Understanding how to choose a database
- >>Relational databases
- >>Exploring OLTP relational databases in azure
- >>Creating mysql server in azure
- >>Playing with mysql server in azure
- >>Azure synapse analytics
- >>Azure nosql database
- >>Azure cosmos DB
- >>Azure cache for redis
- >>Review databases in azure

>Networking:

- >>Understanding need for azure network
- >>Understanding need for subnets
- >>Playing with azure virtual network
- >>Azure virtual network important things to remember
- >>Exploring azure Ddos Services

>>Exploring Azure Firewall

>>Network security groups

>>Security Best practices

>>Deployment models review

>>VPN and ExpressRoute

>Resource Hierarchy:

>>Understanding Resource Hierarchy

>>Demo on Resource Hierarchy

>>Resource groups,subscription and management groups

>Azure Active Directory:

>>Active Directory part 1

>>Active Directory part 2

>Security and identity

management:

>>Azure security center

>>Azure Sentinel

>>Azure Key Vault

>>Azure key vault demo part 1

>>Azure key vault demo part 2

>>Role based Access control (RBAC)

>>Role based Access control (RBAC) demo

>Compliance, privacy and governance:

- >>Azure Resource Locks
- >>Azure resource Tags
- >>Azure policy
- >>Azure Blueprint
- >>Cloud adoption framework for azure
- >>Core tenets of security, privacy, compliance

>Managing costs:

- >>Cost affecting factors
- >>Cost reduction methods, reservations
- >>Azure cost management

>Azure support and guarantees:

- >>Exploring azure support plans
- >>Automate azure recommendations with advisor
- >>Monitoring azure with azure monitor
- >>Monitoring azure service status with service health
- >>Exploring azure management services
- >>SLA and composite SLA in Azure
- >>Service lifecycle in azure