



Course AZ-300

Microsoft Azure Architect Technologies

Course Length : 40 Hours
Professional Series : 5 Days
Academic Series : 6 Weeks

Module 1: Managing Azure Subscriptions and Resources

Module 2: Implementing and Managing Storage

Module 3: Deploying and Managing Virtual Machines (VMs)

Module 4: Configuring and Managing Virtual Networks

- Network routing using routing tables and algorithms
- Inter-site connectivity using VNet-to-VNet connections and VPNs
- Virtual network peering for regional and global considerations
- Gateway transit

Module 5: Managing Identities

- Role-Based Access Control (RBAC)
- built-in roles
- Self-Service Password Reset (SSPR)
- authentication methods for password reset

Module 6: Evaluating and Performing Server Migration to Azure

Module 7: Implementing and Managing Application Services

Module 8: Implementing Advanced Virtual Networking

Module 9: Securing Identities

Module 10: Selecting Compute and Storage Solutions

- Design and Connectivity Patterns

Module 11: Hybrid Networking

Module 12: Measuring Throughput and Structure of Data Access

- Address Durability of Data and Caching
- Measure Throughput and Structure of Data Access

Module 13: Creating Web Applications using PaaS

Module 14: Creating Apps and Services Running on Service Fabric

Module 15: Using Azure Kubernetes Service This module focuses on the Azure

Module 16: Developing Long-Running Tasks and Distributed Transactions

Module 17: Configuring a Message-Based Integration Architecture

- Configure an app or service to send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
- Configure apps and services with Microsoft Graph

Module 18: Developing for Asynchronous Processing

- Implement parallelism, multithreading, and processing
- Implement Azure Functions and Azure Logic Apps
- Implement interfaces for storage or data access
- Implement appropriate asynchronous computing models
- Implement autoscaling rules and patterns

Module 19: Developing for Autoscaling

- Implementing autoscaling rules and patterns
- Implementing code that addresses singleton application instances
- Implementing code that addresses a transient state

Module 20: Developing Azure Cognitive Services Solutions

- Developing Solutions using Computer Vision
- Developing solutions using Bing Web Search
- Developing solutions using Custom Speech Service
- Developing solutions using QnA Maker

Module 21: Develop for Azure Storage

- Develop Solutions that use Azure Cosmos DB Storage
- Develop Solutions that use a Relational Database
- Modeling a Database by using Entity Framework Core
- Develop Solutions that use Microsoft Azure Blob Storage
- Manipulating Blob Container Properties in .NET

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