

AZ-300

Microsoft Azure Architect Technologies (beta)

Course AZ-300T01-A: Deploying and Configuring Infrastructure

MODULE 1: MANAGING AZURE SUBSCRIPTIONS AND RESOURCES

- ✓ Managing Azure Subscriptions and Resources

MODULE 2: IMPLEMENTING AND MANAGING STORAGE

- ✓ Implementing and Managing Storage

MODULE 3: DEPLOYING AND MANAGING VIRTUAL MACHINES (VMS)

- ✓ Deploying and Managing 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

Course AZ-300T02-A: Implementing Workloads and Security

MODULE 1: EVALUATING AND PERFORMING SERVER MIGRATION TO AZURE

- ✓ Evaluating and Performing Server Migration to Azure

MODULE 2: IMPLEMENTING AND MANAGING APPLICATION SERVICES

AZ-300

Microsoft Azure Architect Technologies (beta)

- ✓ Implementing and Managing Application Services

MODULE 3 : IMPLEMENTING ADVANCED VIRTUAL NETWORKING

- ✓ Implementing Advanced Virtual Networking.

MODULE 4: SECURING IDENTITIES

- ✓ Securing Identities using Azure AD.

Course AZ-300T03-A: Understanding Cloud Architect Technology Solutions

MODULE 1: SELECTING COMPUTE AND STORAGE SOLUTIONS

- ✓ Azure Architecture Center
- ✓ Cloud design patterns
- ✓ Competing consumers pattern
- ✓ Cache-aside pattern

MODULE 2: HYBRID NETWORKING

- ✓ Implementing and Managing Application Services

MODULE 3 : MEASURING THROUGHPUT AND STRUCTURE OF DATA ACCESS

- ✓ DTUs – Azure SQL Database
- ✓ RUs – Azure Cosmos DB
- ✓ Structured and unstructured data
- ✓ Using structured data stores

AZ-300

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Course AZ-300T04-A: Creating and Deploying Apps

MODULE 1: CREATING WEB APPLICATIONS USING PAAS

- ✓ Use shell commands to create an App Service Web App
- ✓ Create Background Tasks
- ✓ Use Swagger to document an API

MODULE 2: CREATING APPS AND SERVICES RUNNING ON SERVICE FABRIC

- ✓ Create a reliable service
- ✓ Create a Reliable Actors app
- ✓ Hands-on with Reliable collections

MODULE 3 : USING AZURE KUBERNETES SERVICE THIS MODULE FOCUSES ON THE AZURE

- ✓ Understand the Azure Container Registry
- ✓ Use Azure Container instances

Course AZ-300T06-A: Developing for the Cloud

MODULE 1: DEVELOPING LONG-RUNNING TASKS AND DISTRIBUTED TRANSACTIONS

- ✓ Implementing large-scale, parallel, and high-performance apps using batches
- ✓ HPC using Microsoft Azure Virtual Machines
- ✓ Implementing resilient apps by using queues

AZ-300

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MODULE 2: 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 3 : 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 4 : DEVELOPING FOR AUTOSCALING

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

MODULE 5 : DEVELOPING FOR AUTOSCALING

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