



CORSO AZURE AZ-300

AZURE ARCHITECT TECHNOLOGIES
EXAM PACKAGE AZ-300 - DURATA 5GG

AZ-300T01

MODULE I: MANAGING AZURE SUBSCRIPTIONS AND RESOURCES

In this module you will explore Azure monitoring capabilities using Azure alerts, Azure activity logs, and Log Analytics. You will learn to query, analyze, and interpret the data viewed in Log Analytics.

After completing this module, students will be able to:

- Managing Azure Subscriptions and Resources

MODULE II: IMPLEMENTING AND MANAGING STORAGE

In this module you will learn about Azure storage accounts, data replication, how to use Azure Storage Explorer, and monitor storage.

After completing this module, students will be able to:

- Implementing and Managing Storage

MODULE III: DEPLOYING AND MANAGING VIRTUAL MACHINES (VMS)

In this module you will learn how to do the following:

- Create Virtual Machines (VM)s within the Azure Portal
- Create Virtual Machines (VM)s using Azure PowerShell
- Create Virtual Machines (VM)s using ARM templates
- Deploy Linux Virtual Machines (VM)s
- Monitor Virtual Machines (VM)s Additionally, you will learn how to protect data using backups at regular intervals, whether by snapshot, Azure Backup, or Azure Site Recovery.

After completing this module, students will be able to:

- Deploying and Managing VMs

MODULE IV: CONFIGURING AND MANAGING VIRTUAL NETWORKS

In this module you will create and implement virtual networks using the Azure Portal as well as Azure PowerShell and CLI. You will receive an overview on how to assign IP addresses to Azure resources to communicate with other Azure resources, your on-premises network, and the Internet.

Lessons

- 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

After completing this module, students will be able to:

- Configuring and Managing Virtual Networks

MODULE V: MANAGING IDENTITIES

This module covers Azure Active Directory (Azure AD) for IT Admins and Developers with a focus on the Azure AD multi-tenant cloud-based directory and identity management service.

Lessons

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

After completing this module, students will be able to:

- Managing Identities using Azure Active Directory

AZ-300T02

MODULE I: EVALUATING AND PERFORMING SERVER MIGRATION TO AZURE

This module covers migrating workloads to a new environment, whether it be another datacenter, or to a public cloud, and setting clear goals for the migration. Goals include both technology-focused and business-focused goals for migrations, and the benefits to an organization's business. Activities include components of the Azure migration process: creating a project, creating a collector, assessing readiness, and estimating costs. Additionally, you will receive an overview of Azure Site Recovery (ASR) that includes an end-to-end scenario.

After completing this module, students will be able to:

- Evaluating and Performing Server Migration to Azure

MODULE II: IMPLEMENTING AND MANAGING APPLICATION SERVICES

This module includes the following topics:

- Deploying Web Apps
- Managing Web Apps
- App Service Security
- Serverless Computing Concepts

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- Managing Event Grid
- Managing Service Bus
- Managing Logic App

After completing this module, students will be able to:
Implementing and Managing Application Services

MODULE III: IMPLEMENTING ADVANCED VIRTUAL NETWORKING

This module includes the following topics:

- Azure Load Balancer
- Azure Application Gateway
- Site-to-Site VPN Connections As well as an overview of ExpressRoute which allows companies to extend on-premises networks into the Microsoft cloud over a dedicated private connection facilitated by a connectivity provider.

After completing this module, students will be able to:

- Implementing Advanced Virtual Networking.

MODULE IV: SECURING IDENTITIES

This module covers migratingThis module includes the following topics with an emphasis on identity and roles:

- Azure AD Identity Protection
- Azure Domains and Tenants
- Azure Users and Groups
- Azure Roles As well as an overview of Azure AD integration options that focuses on Azure AD Connect to integrate on-premises directories with Azure Active Directory.

After completing this module, students will be able to:

- Securing Identities using Azure AD.

AZ-300T03

MODULE I: SELECTING COMPUTE AND STORAGE SOLUTIONS

This module includes the following topics:

- Azure Architecture Center
- Cloud design patterns
- Competing consumers pattern
- Cache-aside pattern As well as sharding patterns to divide a data store into horizontal partitions, or shards. Each shard has the same schema but holds its own distinct subset of the data.

After completing this module, students will be able to:

- Design and Connectivity Patterns

MODULE II: HYBRID NETWORKING

This module includes the following topics:

- Site-to-site connectivity
- Point-to-site connectivity
- Combining site-to-site and point-to-site connectivity
- Virtual network-to-virtual network connectivity As well as connecting across cloud providers for failover, backup, or even migration between providers such as AWS.

After completing this module, students will be able to:

- Hybrid Networking

MODULE III: MEASURING THROUGHPUT AND STRUCTURE OF DATA ACCESS

This module includes the following topics:

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

After completing this module, students will be able to:

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

AZ-300T04

MODULE I: CREATING WEB APPLICATIONS USING PAAS

This module provides and overview of Azure App Service Web Apps for hosting web applications, REST APIs, and a mobile back end.

Topics include the following:

- Using shell commands to create an App Service Web App
- Creating Background Tasks
- Using Swagger to document an API As well as an explanation of how Logic Apps help to build solutions that integrate apps, data, systems, and services across enterprises or organizations by automating tasks and business processes as workflows.

After completing this module, students will be able to:

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

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MODULE II: CREATING APPS AND SERVICES RUNNING ON SERVICE FABRIC

This module provides an overview of Azure Service Fabric as a distributed systems platform that makes it easy to package, deploy, and manage scalable and reliable microservices and containers.

This module also addresses the challenges in developing and managing cloud native applications.

Additional topics include:

- Creating a reliable service
- Creating a Reliable Actors app
- Working with Reliable collections

After completing this module, students will be able to:

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

MODULE III: USING AZURE KUBERNETES SERVICE

This module focuses on the Azure Kubernetes Service (AKS) for deploying and managing a Kubernetes cluster in Azure. Topics include how to reduce operational overhead of managing Kubernetes by offloading much of that responsibility to Azure, such as health monitoring and maintenance.

Additional topics include:

- Azure Container Registry
- Azure Container Instances.

After completing this module, students will be able to:

- Understand the Azure Container Registry
- Use Azure Container instances

AZ-300T06

MODULE I: DEVELOPING LONG-RUNNING TASKS AND DISTRIBUTED TRANSACTIONS

Topics for this module include:

- Implementing large-scale, parallel, and high-performance apps using batches
- HPC using Microsoft Azure Virtual Machines
- Implementing resilient apps by using queues As well as, implementing code to address application events by using webhooks. Implementing a webhook gives an external resource a URL for an application. The external resource then issues an HTTP request to that URL whenever a change is made that requires the application to take an action.

MODULE II: CONFIGURING A MESSAGE-BASED INTEGRATION ARCHITECTURE

Lessons

- 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

After completing this module, students will be able to:

- How to configure a message-based integration architecture

MODULE III: DEVELOPING FOR ASYNCHRONOUS PROCESSING

Lessons

- 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

After completing this module, students will be able to:

- Understand how to Develop for Asynchronous Processing

MODULE IV: DEVELOPING FOR AUTOSCALING

Lessons

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

After completing this module, students will be able to:

- Begin creating apps for Autoscaling

MODULE V: DEVELOPING AZURE COGNITIVE SERVICES SOLUTIONS

Lessons

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

After completing this module, students will be able to:

- Understand Azure Cognitive Services Solutions

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