

Microsoft Azure Developer AZ-204 Curriculum

Introduction to Azure Iaas Compute Solutions

- Overview of Microsoft Azure
- Azure Virtual Machines
- Configure Azure VMs for remote access
- Using Azure SDKs

Hands-On:

- Provision VMs by using the Azure Portal, Power Shell, and code

Implementing Azure Batch Service and Disk Encryption

- ARM templates for Azure Virtual Machines
- Azure Disk Encryption
- Azure Batch Services

Hands-On:

- Deploy ARM templates for VM
- Run a batch job by using Azure CLI, Azure portal and Code

Designing and Developing Applications that use Containers

- Overview of Azure Kubernetes Service (AKS)
- AKS clusters
- Azure Container Registry

Hands-On:

- Create an Azure Managed Kubernetes Service (AKS) cluster
- Create container images for solutions
- Publish an image to the Azure Container Registry
- Run containers by using Azure Container Instance or AKS

Implementing Azure App Service Web Apps & Mobile Apps

- Azure App Service core concepts
- Azure App Service Web Apps
- WebJobs
- Azure App Service Mobile Apps
- Register



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Hands-On:

- Creating App Service web apps by using Azure CLI, Azure Portal, and PowerShell
- Creating continuous and triggered WebJobs
- Pushing an app on to the Mobile App service
- Registering apps for push notifications

Implementing Azure App Service API Apps & Azure Functions

- Azure App Service API Apps
- API documentation
- Azure Functions overview
- Durable functions

Hands-On:

- Creating an APIM instance and a new API
- Use Swashbuckle to create Swagger objects in ASP.NET Core
- Creating functions, bindings, and triggers
- Creating Durable functions

Developing Solutions that use Azure Table Storage and Cosmos DB

- Azure Table storage overview
- Authorization in Table storage
- Table service REST API
- Azure Cosmos DB overview
- Managing containers and items
- Handle documents
- Scaling
- Implement server-side programming



Hands-On:

- Perform Shared Key Authorization
- Use the Azure Table storage REST service to manage data
- Create, read, update, and delete data by using appropriate APIs
- Creating and updating documents by using code

Developing Solutions that use Relational Database and Azure Blob Storage

- Azure SQL overview
- Database operations (CRUD)
- Azure Blob storage overview
- Working with Azure Blob storage
- Blob Leasing in Azure
- Hot Storage



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- Cool Storage
- Archive Storage

Hands-On:

- Create, read, update, and delete database tables by using code
- Set and retrieve Blob storage properties and metadata
- Replicate and copy Blobs
- Implement Blob Leasing on Portal

Implementing Authentication and Access Control in Azure

- Microsoft identity platform
- OAuth2 authentication
- Managed Identities
- Azure Key Vault
- Claims-based authorization
- Role-based access control (RBAC) authorization

Hands-On:

- Implementing OAuth2 authentication in the solutions
- Using Azure Key Vault to store and retrieve authentication information
- Implementing multi-factor authentication
- Implementing Claims-based authorization
- Manage access to resources using RBAC through the REST API

Implementing Secure Data Solutions and Integrating Caching and CDN

- Encryption options
- End-to-end encryption
- Azure confidential computing
- Managing cryptographic keys in Azure Key Vault
- Azure Cache for Redis
- Develop for storage on CDNs

Hands-On:

- Encrypting data with Transparent Data Encryption
- Managing and utilizing encryption keys by using the Azure key Vault
- Configuring and interacting with Azure Redis Cache
- Managing Azure CDN



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Instrument Monitoring, Logging and Scalability of Apps and Services

- Overview of Azure Monitor
- Application Insights
- Autoscale patterns and best practices
- Handling transient faults

Hands-On:

- Adding default code to web pages, console apps, and Windows desktop apps to support
- Telemetry
- Using dashboards and other tools to monitor and troubleshoot their app
- Implementing Autoscale
- Implementing code that addresses singleton application instances
- Implementing code that handles transient faults

Connecting to and Consuming Azure and Third-party Services

- Azure Logic Apps overview
- Custom connectors for Logic Apps
- Custom templates for Logic Apps
- Azure Search service
- Introduction to the API Management service
- Secure APIs
- Define API policies

Hands-On:

- Creating Logic Apps by using Visual Studio
- Creating an Azure Search index
- Importing searchable data
- Querying the Azure Search index
- Secure APIs

Developing Event-based and Message-based Solutions in Azure

- Azure Event Grid
- Azure Event Hubs
- Azure Notification Hubs
- Azure Service Bus
- Azure Queue Storage queues

Hands-On:

- Create and integrate Event Grid, Event Hubs and Notification Hubs
- Create and integrate Azure Service Bus

KEY FEATURES



Instructor-led Sessions



Learn from Experts



Assignments



24 x 7 Support



Real-time Case Studies



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