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Designing Microsoft Azure Infrastructure Solutions AZ-305

Table of Contents:

Program Overview:

This Microsoft Azure certification training establishes you as an expert Azure Solutions Architect and helps you ace the AZ-305 exam. You will learn how to determine workload requirements, design for identity and security, architect a data platform, create continuity, conduct migrations, and integrate with APIs.

Program Features:

➢ Trusted content

➢ Re-learn for free anytime in a year

➢ Rigorous assignments and assessments

➢ Learn at your own pace

➢ Mandatory feedback sessions

➢ Mock-interview

➢ Hands-on real-time experience

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- ➢ Free Mentorship

- ➢ Live chat for instant solutions

- ➢ Job-ready employees post-training

- ➢ End-to-end training

- ➢ Download the certificate after the course

Delivery Mode:

- ➢ Online Training

Prerequisites:

This Azure AZ-305 training can only be taken up by people who have prior hands-on experience in various IT operations including networking, virtualization, security, compute, storage, billing and budgeting, and governance.

Target Audience:

This Microsoft Certified Azure Architect Design training course is ideal for IT professionals, cloud solutions architects, experienced Azure administrators and developers, and DevOps professionals

Key Learning Outcomes:

By the end of this Designing Microsoft Azure Infrastructure Solutions (AZ-305) Training course, you will be able to:

- ➢ Design a solution for logging and monitoring

- ➢ Design authentication and authorization solutions

- ➢ Design identities and access for applications

- ➢ Design a data storage solution for relational data

- ➢ Recommend a data storage solution

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Certification Alignment:

Hatigen is a Silver Microsoft Partner, and this course is accredited by Microsoft.

Certification Details and Criteria:

- ➢ Attend 1 LVC Class OR complete at least 85% of the OSL course
- ➢ Successfully pass 1 assessment project

Course Curriculum:

Section 01: Course Introduction

- ➢ Lesson 01 : Course Introduction

Section 02: Design a Governance Solution

- ➢ Lesson 01 : Design Governance
- ➢ Lesson 02 : Design for management groups and subscriptions
- ➢ Lesson 03 : Design for Resource Groups
- ➢ Lesson 04 : Recommend a Strategy for Tagging
- ➢ Lesson 05 : Recommend a Solution for using Azure Policy
- ➢ Lesson 06 : Recommend a Solution for using Azure Blueprints

Section 03: Design authentication solutions

- ➢ Lesson 01 : Azure Active Directory
- ➢ Lesson 02 : Recommend a Solution for Single-Sign On (SSO)
- ➢ Lesson 03 : Recommend a solution for Authentication
- ➢ Lesson 04 : Recommend a Solution for Conditional Access
- ➢ Lesson 05 : Recommend a Solution that includes Managed Identities
- ➢ Lesson 06 : Recommend a Solution that includes Key Vault
- ➢ Lesson 07 : Recommend a solution for a Hybrid Identity
- ➢ Lesson 08 : Recommend a solution for User Self-service

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- ➢ Lesson 09:Recommend and implement a Solution for B2B Integration

Section 04: Design Authorization

- ➢ Lesson 01 : Choose an Authorization Approach
- ➢ Lesson 02 : Recommend a Hierarchical Structure for Access Control
- ➢ Lesson 03 : Recommend an Access Management Solution

Section 05: Design a Solution for Logging and Monitoring

- ➢ Lesson 01 : Design for Azure Workbooks and Azure insights
- ➢ Lesson 02 : Recommend Appropriate Monitoring Tools for a Solution
- ➢ Lesson 03 : Azure Monitoring
- ➢ Lesson 04 : Health and availability monitoring
- ➢ Lesson 05 : Cost Monitoring
- ➢ Lesson 06 : Advanced Logging
- ➢ Lesson 07 : Choose a Mechanism for Event Routing and Escalation

Section 06: Design for High Availability

- ➢ Lesson 01 : Identify the availability requirements for Azure resources
- ➢ Lesson 02 : Azure Front Door
- ➢ Lesson 03 : Azure Traffic Manager
- ➢ Lesson 04 : Recommend a high availability solution for compute
- ➢ Lesson 05 : Recommend a high availability solution for relational data storage
- ➢ Lesson 06 : Recommend a high availability solution for non relational data
- ➢ Lesson 07 : Identify Storage Types for High Availability

Section 07: Design a Solution for Backup and Recovery

- ➢ Lesson 01 : Recommend a Recovery Solution for Azure Workloads
- ➢ Lesson 02 : Recommend a Solution for Azure Backup Management

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- ➢ Lesson 04 : Design a Solution for Data Archiving and Retention
- ➢ Lesson 05 : Design and Azure Site Recovery Solution
- ➢ Lesson 06 : Recommend a Solution for Recovery in Different Regions

Section 08: Design a Solution for Non-Relational Data

- ➢ Lesson 01 : Overview of Azure Non relational Data
- ➢ Lesson 02 : Storage Account
- ➢ Lesson 03 : Design for Azure Blob storage
- ➢ Lesson 04 : Azure Files
- ➢ Lesson 05 : Design for Azure disk solutions
- ➢ Lesson 06 : Storage Security
- ➢ Lesson 07 : Recommend a Solution for Encrypting Data

Section 09: Design a Solution for Relational Data

- ➢ Lesson 01 : Select an Appropriate Data Platform Based on Requirements
- ➢ Lesson 02 : Recommend Database Service Tier Sizing
- ➢ Lesson 03 : Recommend a Solution for Database Scalability
- ➢ Lesson 04 : Design security for data
- ➢ Lesson 05 : Design for Azure SQL Edge
- ➢ Lesson 06 : Design for Azure Cosmos DB
- ➢ Lesson 07 : Storage Management Tools

Section 10: Design Data Integration

- ➢ Lesson 01 : Recommend a Data Flow to Meet Business Requirements
- ➢ Lesson 02 : Recommend a solution for Data Integration
- ➢ Lesson 03 : Design a strategy for hot, warm, cold data path
- ➢ Lesson 04 : Design Azure Stream Analytics solution for data analysis

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Section 11: Design a Compute Solution

➢ Lesson 01 : Recommend a Solution for Compute Provisioning

➢ Lesson 02 : Recommend a Solution for App service

➢ Lesson 03 : Determine Appropriate Compute Technologies

➢ Lesson 04 : Recommend a Solution for Containers

➢ Lesson 05 : Recommend a solution for Automating Compute Management

Section 12: Design an Application Architecture

➢ Lesson 01 : Recommend a Microservices Architecture

➢ Lesson 02 : Recommend an Orchestration Solution for Deployment and Maintenance of Applications

➢ ⬛ Lesson 03 : Recommend a solution for API Integration

Section 13:Design a Network Solution

➢ Lesson 01 : Recommend a Network Architecture

➢ Lesson 02 : Recommend a Solution for Network Addressing and Name Resolution

➢ Lesson 03 : Recommend a Solution for Network Provisioning

➢ Lesson 04 : Recommend Solutions for Network Security

➢ Lesson 05 : Recommend Solutions for Network Connectivity

➢ Lesson 06 : Recommend Solution for Automating Network Management

➢ Lesson 07 : Recommend Solution for Load Balancing and Traffic Routing

Section 14 : Design Migrations

➢ Lesson 01 : Azure Migrate

➢ Lesson 02 : Assessments using Azure Migrate

➢ Lesson 03 : Recommend a Solution for Migrating Applications and VMs

➢ Lesson 04 : Recommend a Solution for Migrating of Databases

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