

KOENIG SOLUTIONS • COURSE OUTLINE

AZ-305T00: Designing Microsoft Azure Infrastructure Solutions

Learn to design identity, data storage, business continuity and infrastructure solutions for Microsoft Azure workloads.

4 Days

32 HOURS

4

MODULES

48

TOPICS

COURSE OVERVIEW

The AZ-305T00: Designing Microsoft Azure Infrastructure Solutions course is designed to provide learners with comprehensive knowledge and hands-on experience in end-to-end analytics using Microsoft Fabric. The course covers a wide range of topics, from an introduction to analytics to administering Microsoft Fabric, data ingestion, and data management. Learners will gain practical skills in using Dataflows Gen2, Spark, Data Factory pipelines, and managing Lakehouse's within Microsoft Fabric. Throughout the modules, participants will learn about organizing data using the Medallion architecture design, working with Apache Spark, Delta Lake tables, and securing their data environments. The course also delves into data warehousing, teaching how to load, query, monitor, optimize, and model data warehouses. Moreover, it addresses scalability in Power BI, creating model relationships, performance optimization tools, and enforcing model security. This extensive training is crucial for those looking to excel in managing and analyzing data with Microsoft's analytics tools.

Who Should Attend

The AZ-305T00 course is designed for professionals seeking to master Azure infrastructure solutions design, encompassing governance, data storage, and more.

Solution Architects

Cloud Engineers

Azure Infrastructure Specialists

IT Professionals with experience in Azure

DevOps Engineers working with Azure

Technical Decision Makers considering cloud infrastructure

Systems Administrators looking to specialize in Azure

Enterprise Architects

Technology Managers overseeing cloud transitions

Developers seeking to understand infrastructure design for Azure applications

Data Engineers with a focus on the Azure platform

Security Professionals responsible for Azure governance and compliance

Professionals preparing for the Microsoft Certified: Azure Solutions Architect Expert certification

LEARNING OBJECTIVES

- Recommend logging, log routing and monitoring solutions for Azure
- Design authentication, authorization and secrets management solutions
- Plan governance structures for management groups and subscriptions
- Recommend storage solutions for relational and unstructured data
- Design data integration and data analysis solutions
- Recommend backup, disaster recovery and high availability solutions
- Design compute solutions using virtual machines, containers and serverless
- Design network connectivity, performance and security solutions

4 Modules, 48 Topics

01

25-30%

Design Identity, Governance, and Monitoring Solutions

DESIGN SOLUTIONS FOR LOGGING AND MONITORING

- Recommend a logging solution
- Recommend a solution for routing logs
- Recommend a monitoring solution

DESIGN AUTHENTICATION AND AUTHORIZATION SOLUTIONS

- Recommend an authentication solution
- Recommend an identity management solution
- Recommend a solution for authorizing access to Azure resources
- Recommend a solution to manage secrets, certificates, and keys

DESIGN GOVERNANCE

- Recommend a structure for management groups, subscriptions, and resource groups, and a strategy for resource tagging
- Recommend a solution for managing compliance
- Recommend a solution for identity governance

02

20-25%

Design Data Storage Solutions

DESIGN DATA STORAGE SOLUTIONS FOR RELATIONAL DATA

- Recommend a solution for storing relational data
- Recommend a database service tier and compute tier
- Recommend a solution for database scalability
- Recommend a solution for data protection

DESIGN DATA STORAGE SOLUTIONS FOR SEMI-STRUCTURED AND UNSTRUCTURED DATA

- Recommend a solution for storing semi-structured data
- Recommend a solution for storing unstructured data
- Recommend a data storage solution to balance features, performance, and costs
- Recommend a data solution for protection and durability

DESIGN DATA INTEGRATION

- Recommend a solution for data integration
- Recommend a solution for data analysis

Design Business Continuity Solutions

DESIGN SOLUTIONS FOR BACKUP AND DISASTER RECOVERY

- Recommend a recovery solution for Azure and hybrid workloads that meets recovery objectives
- Recommend a backup and recovery solution for compute
- Recommend a backup and recovery solution for databases
- Recommend a backup and recovery solution for unstructured data

DESIGN FOR HIGH AVAILABILITY

- Recommend a high availability solution for compute
- Recommend a high availability solution for relational data
- Recommend a high availability solution for semi-structured and unstructured data

Design Infrastructure Solutions

DESIGN COMPUTE SOLUTIONS

- Specify components of a compute solution based on workload requirements
- Recommend a virtual machine-based solution
- Recommend a container-based solution
- Recommend a serverless-based solution
- Recommend a compute solution for batch processing

DESIGN AN APPLICATION ARCHITECTURE

- Recommend a messaging architecture
- Recommend an event-driven architecture
- Recommend a solution for API integration
- Recommend a caching solution for applications
- Recommend an application configuration management solution
- Recommend an automated deployment solution for applications

DESIGN MIGRATIONS

- Evaluate a migration solution that leverages the Microsoft Cloud Adoption Framework for Azure
- Evaluate on-premises servers, data, and applications for migration
- Recommend a solution for migrating workloads to Infrastructure as a Service (IaaS) and Platform as a Service (PaaS)
- Recommend a solution for migrating databases
- Recommend a solution for migrating unstructured data

DESIGN NETWORK SOLUTIONS

- Recommend a connectivity solution that connects Azure resources to the internet
- Recommend a connectivity solution that connects Azure resources to on-premises networks
- Recommend a solution to optimize network performance
- Recommend a solution to optimize network security
- Recommend a load-balancing and routing solution

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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