EXAM AZ-305: DESIGNING MICROSOFT AZURE INFRASTRUCTURE SOLUTIONS

APP

Course Level:
Beginner

Course Duration:
4 Days

Course Overview:

Candidates for this exam should have advanced experience and knowledge of IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance. A professional in this role should manage how decisions in each area affect an overall solution. In addition, they should have experience in Azure administration, Azure development, and DevOps processes.

NOTE: The new exam AZ-305 replaces exam AZ-303 and exam AZ-304 which retired on March 31, 2022.

Prerequisites

- Knowledge of Azure Active Directory

- Knowledge on Azure Compute Technologies such as containers, VMs and serverless solutions

- Knowledge of Azure virtual networking to include load balancers

- Understanding of Azure Storage technologies (unstructured and databases)

- Understanding of general application design concepts such as messaging and high availability

Objectives

Design identity, governance, and monitoring solutions

Design data storage solutions

Design business continuity solutions

Design infrastructure solutions

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Course Outline

Module 1: Design Identity, Governance, and Monitoring Solutions

Design a Solution for Logging and Monitoring

- Design a log routing solution

- Recommend an appropriate level of logging

- Recommend a monitoring tool(s) for a solution

Design Authentication and Authorization Solutions

- Recommend a solution for securing resources with role-based access controls

- Recommend an identity management solution

- Recommend a solution for securing identities

Design Governance

- Recommend an organizational and hierarchical structure for Azure resources

- Recommend a solution for enforcing and auditing compliance

Design Identities and Access for Applications

- Recommend solutions to allow applications to access Azure resources

- Recommend a solution that securely stores passwords and secrets

- Recommend a solution for integrating applications into Azure AD

- Recommend a user consent solution for applications

Module 2: Design Data Storage Solutions

Design a Data Storage Solution for Relational Data

- Recommend database service tier sizing

- Recommend a solution for database scalability

- Recommend a solution for encrypting data at rest, data in transmission, and data in use

Design Data Integration

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

Recommend a Data Storage Solution

- Recommend a solution for storing relational data

- Recommend a solution for storing semi-structured data

- Recommend a solution for storing non-relational data

Design a Data Storage Solution for Non-relational Data

- Recommend access control solutions to data storage

- Recommend a data storage solution to balance features, performance, and cost

- Design a data solution for protection and durability

Module 3: Design Business Continuity Solutions

Design a Solution for Backup and Disaster Recovery

- Recommend a recovery solution for Azure, hybrid, and on-premises workloads that meets recovery objectives (RTO, RLO, RPO)

- Understand the recovery solutions for containers

- 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

- Identify the availability requirements of Azure resources

- Recommend a high availability solution for Compute

- Recommend a high availability solution for non-relational data storage

- Recommend a high availability solution for relational data storage

Module 4: Design Infrastructure Solutions
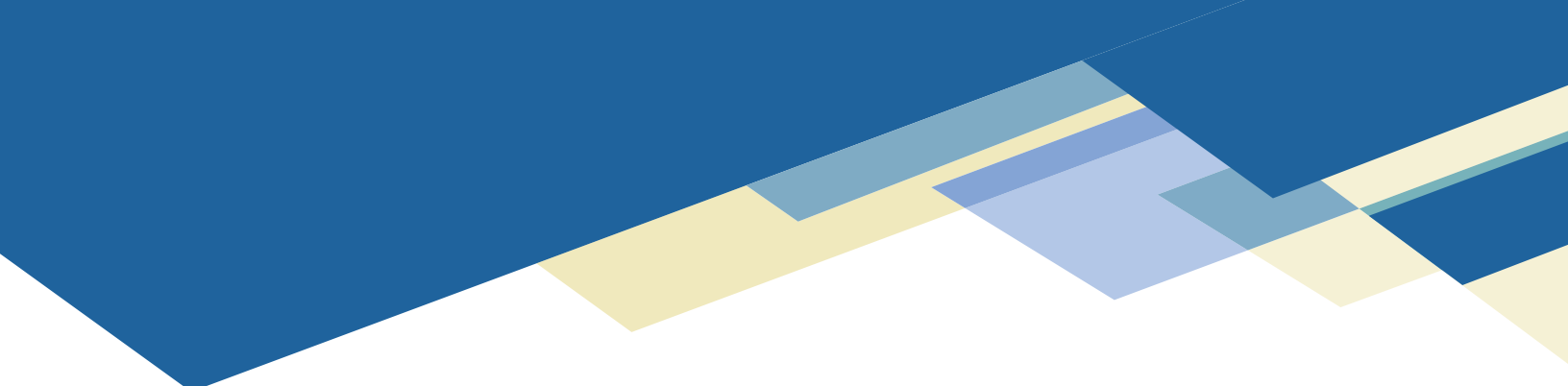
Design a Compute Solution

- Recommend a Virtual Machine-based compute solution

- Recommend an appropriately sized compute solution based on workload requirements

- Recommend a Container-based compute solution

- Recommend a Serverless-based compute solution

Design an Application Architecture

- Recommend a caching solution for applications

- Recommend a messaging architecture

- Recommend an event-driven architecture

- Recommend an automated deployment solution for your applications

- Recommend an application configuration management solution

- Recommend a solution for API integration

Design Migrations

- Evaluate migration solution that leverages the Cloud Adoption Framework

- Assess and interpret on-premises servers, data, and applications for migration

- Recommend a solution for migrating applications and Virtual Machines

- Recommend a solution for migrating databases

- Recommend a solution for migrating unstructured data

Design Network Solutions

- Recommend a network architecture solution based on workload requirements

- Recommend a connectivity solution that connects Azure resources to the Internet

- Recommend a connectivity solution that connects Azure resources to on-premises networks

- Optimize network performance for applications

- Recommend a solution to optimize network security

- Recommend a load balancing and routing solution

Who Should Attend

Azure Solution Architects have subject matter expertise in designing cloud and hybrid solutions that run on Microsoft Azure, including compute, network, storage, monitor, and security. Responsibilities for an Azure Solution Architect include advising stakeholders and translating business requirements into designing secure, scalable, and reliable Azure cloud solutions.

About CloudThat

CloudThat is the first company in India to offer Cloud Training & Consulting services for mid-market & enterprise clients from across the globe. Since our inception in 2012, we have trained over 500K IT professionals from fortune 500 companies on technologies such as Microsoft Azure, Amazon Web Services, VMware, Artificial Intelligence, Machine Learning, Google Cloud, IoT, Dynamics 365, Power Platform, Power BI, HPE AI, DevOps, Big Data, Kubernetes, Terraform and more.

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