



Sanisoft
information technologies

Microsoft

Azure Solutions Architect Expert

Overview

**Master the skills needed to design solutions that run on Azure.
A Microsoft Azure solution architect must have expertise in
compute, network, storage, and security.**

Duration (40 Hrs)

Prerequisites:

Microsoft Certified Azure Administrator Training Completed

Course Exam

Code	Name	Duration
AZ-300	Microsoft Azure Architect Technologies	20 Hrs
AZ-301	Microsoft Azure Architect Design	20 Hrs

AZ-300 : Microsoft Azure Architect Technologies

- **AZ-300T01: Deploying and Configuring Infrastructure**
- **AZ-300T02: Implementing Workloads and Security**
- **AZ-300T03: Understanding Cloud Architect Technology Solutions**
- **AZ-300T04: Creating and Deploying Apps**
- **AZ-300T05: Implementing Authentication and Secure Data**
- **AZ-300T06: Developing for the Cloud**

AZ-301 : Microsoft Azure Architect Design

- **AZ-301T01: Designing for Identity and Security**
- **AZ-301T02: Designing a Data Platform Solution**
- **AZ-301T03: Design for Deployment, Migration, and Integration**
- **AZ-301T04: Designing an Infrastructure Strategy**



Course Objective

After completing this course, students will be able to:

- **Managing Azure Subscriptions and Resources**
- **Implementing and Managing Storage**
- **Deploying and Managing VMs**
- **Configuring and Managing Virtual Networks**
- **Managing Identities using Azure Active Directory**
- **Evaluating and Performing Server Migration to Azure**
- **Implementing and Managing Application Services**
- **Implementing Advanced Virtual Networking.**
- **Securing Identities using Azure AD.**
- **Design and Connectivity Patterns**
- **Hybrid Networking**
- **Address Durability of Data and Caching**
- **Measure Throughput and Structure of Data Access**
- **Use shell commands to create an App Service Web App**
- **Create Background Tasks**
- **Use Swagger to document an API**
- **Create a reliable service**
- **Create a Reliable Actors app**
- **Hands-on with Reliable collections**
- **Understand the Azure Container Registry**
- **Use Azure Container instances**
- **Understand how to Implement authentication using certificates, Azure AD, Azure AD Connect, and tokens.**
- **Implement Role-based Access Control (RBAC) authorization.**
- **Implement secure data for end-to-end encryption.**
- **Implement secure data for implementing SSL and TLS communications.**
- **Use Azure Key Vault to manage cryptographic keys.**
- **How to configure a message-based integration architecture**

- **Understand how to Develop for Asynchronous Processing**
- **Begin creating apps for Autoscaling**
- **Understand Azure Cognitive Services Solutions**
- **Integrate their existing solutions with external identity providers using Azure AD B2B or B2C.**
- **Design a hybrid identity solution.**
- **Determine when to use advanced features of Azure AD such as Managed Service Identity, MFA and Privileged Identity Management.**
- **Secure application secrets using Key Vault.**
- **Secure application data using SQL Database and Azure Storage features.**
- **Detail the various APIs available in Cognitive Services.**
- **Identify when to use the Face API, Speech API or Language Understanding (LUIS) service.**
- **Describe the relationship to Bot Framework and Azure Bot Services.**
- **Determine the ideal pricing option for Azure Storage based on a solution's requirements.**
- **Identify performance thresholds for the Azure Storage service.**
- **Determine the type of Storage blobs to use for specific solution components.**
- **Use the Azure Files service for SMB operations.**
- **Identify solutions that could benefit from the use of StorSimple physical or virtual devices.**
- **Compare and contrast monitoring services for applications, the Azure platform, and networking.**
- **Design an alert scheme for a solution hosted in Azure.**
- **Select the appropriate backup option for infrastructure and data hosted in Azure.**
- **Automate the deployment of future resources for backup recovery or scaling purposes.**
- **Create a resource group.**
- **Add resources to a resource group.**
- **Deploy an ARM template to a resource group Integrate an API or Logic App with the API Management service.**
- **Design an App Service Plan or multi-region deployment for high performance and scale.**
- **Integrate an API or Logic App with the API Management service.**
- **Design an App Service Plan or multi-region deployment for high performance and scale.**
- **Describe various patterns pulled from the Cloud Design Patterns.**
- **Distribute network traffic across multiple loads using load balancers.**
- **Design a hybrid connectivity scenario between cloud and on-premise.**

- **Design an availability set for one or more virtual machines.**
- **Describe the differences between fault and update domains.**
- **Author a VM Scale Set ARM template.**

Target Audience

Successful Cloud Solutions Architects begin this role with practical experience with operating systems, virtualization, cloud infrastructure, storage structures, billing, and networking.



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