



AZ301 - Version: 1
01 May 2021

Microsoft Azure Architect Design



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 **4 days Course**

Description:

This 4-days course is comprised of 4 separate 1- day courses. This course will help you prepare to the Microsoft AZ-301 exam. You can review the daily syllabuses in the links below
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Day 1: Designing for Identity and Security

<http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=az301t01&branchName=165>

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Day 2: Designing a Data Platform Solution

<http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=az301t02&branchName=165>

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Day 3: Designing for Deployment, Migration, and Integration

<http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=az301t03&branchName=165>

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Day 4: Designing an Infrastructure Strategy

<http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=az301t04&branchName=165>

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Intended audience:

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

Prerequisites:

Azure Solution Architects who advise stakeholders and translates business requirements into secure, scalable, and reliable solutions.

should have advanced experience and knowledge across various aspects of IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data management, budgeting, and governance.

Objectives:

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.
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.

Topics:

Day 1

- Module 1: Managing Security & Identity for Azure Solutions.
- Module 2: Integrating SaaS Services Available on the Azure Platform

Day 2

- Module 1: Backing Azure Solutions with Azure Storage
- Module 2: Comparing Database Options in Azure
- Module 3: Monitoring & Automating Azure Solutions

Day 3

- Module 1: Deploying Resources with Azure Resource Manager
- Module 2: Creating Managed Server Applications in Azure
- Module 3: Authoring Serverless Applications in Azure

Day 4

- Module 1: Application Architecture Patterns in Azure
- Module 2: Building Azure IaaS-Based Server Applications (ADSK)
- Module 3: Networking Azure Application Components
- Module 4: Integrating Azure Solution Components Using Messaging Services