

# AZ-301 – Microsoft – Azure Solutions Architect Design

## Microsoft Official Course (MOC)

### AZ-301 Azure Solutions Architect Design



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#### About this Course:

- Learn how to manage security and identity within the context of Azure. Also, you'll be introduced to multiple SaaS services available in Azure that for integration into existing Azure solutions.
- Learn to Compare and contrast various database options on Azure, identify data streaming options for large-scale data ingest, and identify longer-term data storage options.
- Learn how to deploy an ARM template to a resource group, author a complex deployment using the Azure Building Blocks tools, and integrate an API or Logic App with the API Management service.
- Learn how to Describe DNS and IP strategies for VNets in Azure, compare connectivity options for ad-hoc and hybrid connectivity, distribute network

traffic across multiple loads using load balancers, and design a hybrid connectivity scenario between cloud and on-premise.

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## **Course Goals/Skills:**

- 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.
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## **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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# Course Format:



**Classroom**



**Online (Live) Remote**

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**Course language :** Bulgarian (English available as an option)

**Learning materials:** in electronic format (Learning materials are in English) included in the price with unlimited access.

**Lab environment:** each student has his own lab environment where the exercises are conducted, part of the course.



**Video Archives (24/7)**



**Certificate for  
Completed Course**

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# Course Duration:

- 5 working days (09:00 – 17:00)
- or

40 hours training theory and practice in non-working hours lasting 4 weeks  
Saturday and Sunday 10:00 – 14:00, 14:00 – 18:00, 18:00 – 22:00  
Monday and Wednesday 19:00 – 23:00  
Tuesday and Thursday 19:00 – 23:00

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## Payments:


An application for an invoice is accepted at the time of enrollment in the respective course.

An invoice is issued within 7 days of confirming the payment

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## Next Class:

Jul 1

1 July 2024 @ 09:00 - 4 July 2024 @ 17:00 EEST 

**[AZ-800T00: Administering Windows Server Hybrid Core Infrastructure](#)**

Jul 22

22 July 2024 @ 09:00 - 25 July 2024 @ 17:00 EEST 


**[AZ-801T00: Configuring Windows Server Hybrid Advanced Services](#)**

Aug 5

5 August 2024 @ 09:00 - 8 August 2024 @ 17:00 EEST 

## **AZ-800T00: Administering Windows Server Hybrid Core Infrastructure**

Aug 26

26 August 2024 @ 09:00 - 29 August 2024 @ 17:00 EEST 

## **AZ-801T00: Configuring Windows Server Hybrid Advanced Services**

Sep 2

2 September 2024 @ 09:00 - 5 September 2024 @ 17:00 EEST 

## **AZ-800T00: Administering Windows Server Hybrid Core Infrastructure**

[View Calendar](#)

For more information, use the contact form.

We will contact you to confirm the dates.

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### **Prerequisites:**

- [Azure Solutions Architect Technologies \(AZ-300\)](#)

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**The course prepares for the following certification levels:**

- AZ-301 Azure Solutions Architect Design
- [Може да се сертифицирате в нашия тест център с ваучер с отстъпка от цената на изпит.](#)