

The logo for EDUSUM, featuring the word "EDUSUM" in white, uppercase, sans-serif font on a dark blue rectangular background. Below the main text, there is a smaller, lighter blue bar containing the text "#1 Online Certification Guide" in a smaller, white, sans-serif font.

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#1 Online Certification Guide

MICROSOFT AZ-305

**Microsoft Designing Microsoft Azure Infrastructure Solutions
Certification Questions & Answers**

Exam Summary – Syllabus – Questions

AZ-305

[Microsoft Certified - Azure Solutions Architect Expert](#)

40-60 Questions Exam - 700 / 1000 Cut Score - Duration of 120 minutes

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Know Your AZ-305 Certification Well:

The AZ-305 is best suitable for candidates who want to gain knowledge in the Microsoft Azure. Before you start your AZ-305 preparation you may struggle to get all the crucial Designing Microsoft Azure Infrastructure Solutions materials like AZ-305 syllabus, sample questions, study guide.

But don't worry the AZ-305 PDF is here to help you prepare in a stress free manner. The PDF is a combination of all your queries like-

- What is in the AZ-305 syllabus?
- How many questions are there in the AZ-305 exam?
- Which Practice test would help me to pass the AZ-305 exam at the first attempt?

Passing the AZ-305 exam makes you Microsoft Certified - Azure Solutions Architect Expert. Having the Designing Microsoft Azure Infrastructure Solutions certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

Microsoft AZ-305 Designing Microsoft Azure Infrastructure Solutions Certification Details:

Exam Name	Microsoft Certified - Azure Solutions Architect Expert
Exam Code	AZ-305
Exam Price	\$165 (USD)
Duration	120 mins
Number of Questions	40-60
Passing Score	700 / 1000
Books / Training	Course AZ-305T00: Designing Microsoft Azure Infrastructure Solutions
Schedule Exam	Pearson VUE
Sample Questions	Designing Microsoft Azure Infrastructure Solutions Sample Questions
Practice Exam	Microsoft AZ-305 Certification Practice Exam

AZ-305 Syllabus:

Topic	Details
Design Identity, Governance, and Monitoring Solutions (25-30%)	
Design a solution for logging and monitoring	<ul style="list-style-type: none"> - design a log routing solution - recommend an appropriate level of logging - recommend monitoring tools for a solution
Design authentication and authorization solutions	<ul style="list-style-type: none"> - recommend a solution for securing resources with role-based access control - recommend an identity management solution - recommend a solution for securing identities
Design governance	<ul style="list-style-type: none"> - recommend an organizational and hierarchical structure for Azure resources - recommend a solution for enforcing and auditing compliance
Design identities and access for applications	<ul style="list-style-type: none"> - 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 Active Directory (Azure AD) - recommend a user consent solution for applications
Design Data Storage Solutions (25-30%)	
Design a data storage solution for relational data	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - recommend a solution for data integration - recommend a solution for data analysis
Recommend a data storage solution	<ul style="list-style-type: none"> - recommend a solution for storing relational data - recommend a solution for storing semi-structured data - recommend a solution for storing non-relational data

Topic	Details
Design a data storage solution for non-relational data	<ul style="list-style-type: none"> - 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
Design Business Continuity Solutions (10-15%)	
Design a solution for backup and disaster recovery	<ul style="list-style-type: none"> - recommend a recovery solution for Azure, hybrid, and on-premises workloads that meets recovery objectives (Recovery Time Objective [RTO], Recovery Level Objective [RLO], Recovery Point Objective [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	<ul style="list-style-type: none"> - 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
Design Infrastructure Solutions (25-30%)	
Design a compute solution	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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

Topic	Details
	solution - recommend a solution for API integration
Design migrations	- evaluate a migration solution that leverages the Cloud Adoption Framework for Azure - 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

Microsoft AZ-305 Sample Questions:

Question: 1

You are developing a sales application that will contain several Azure cloud services and handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping.

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using XML messages. What should you include in the recommendation?

- a) Azure Service Fabric
- b) Azure Data Lake
- c) Azure Service Bus
- d) Azure Traffic Manager

Answer: c

Question: 2

You are designing a SQL database solution. The solution will include 20 databases that will be 20 GB each and have varying usage patterns. You need to recommend a database platform to host the databases.

The solution must meet the following requirements:

- The solution must meet a Service Level Agreement (SLA) of 99.99% uptime.
- The compute resources allocated to the databases must scale dynamically.
- The solution must have reserved capacity. Compute charges must be minimized.

What should you include in the recommendation?

- an elastic pool that contains 20 Azure SQL databases
- 20 databases on a Microsoft SQL server that runs on an Azure virtual machine in an availability set
- 20 databases on a Microsoft SQL server that runs on an Azure virtual machine
- 20 instances of Azure SQL Database serverless

Answer: a

Question: 3

You are designing an application that will aggregate content for users. You need to recommend a database solution for the application.

The solution must meet the following requirements:

- Support SQL commands.
- Support multi-master writes.
- Guarantee low latency read operations.

What should you include in the recommendation?

- Azure Cosmos DB SQL API
- Azure SQL Database that uses active geo-replication
- Azure SQL Database Hyperscale
- Azure Database for PostgreSQL

Answer: a

Question: 4

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager (ARM) resource deployments in your Azure subscription.

What should you include in the recommendation?

- a) Azure Monitor action groups
- b) Azure Advisor
- c) Azure Analysis Services
- d) Azure Activity Log

Answer: d

Question: 5

You are planning an Azure IoT Hub solution that will include 50,000 IoT devices. Each device will stream data, including temperature, device ID, and time data.

Approximately 50,000 records will be written every second. The data will be visualized in near real time. You need to recommend a service to store and query the data.

Which two services can you recommend?

Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- a) Azure Table Storage
- b) Azure Event Grid
- c) Azure Cosmos DB SQL API
- d) Azure Time Series Insights

Answer: c, d

Question: 6

You need to recommend a solution that meets the data requirements for App1. What should you recommend deploying to each availability zone that contains an instance of App1?

- a) an Azure Storage account that uses geo-zone-redundant storage (GZRS)
- b) an Azure Data Lake store that uses geo-zone-redundant storage (GZRS)
- c) an Azure SQL database that uses active geo-replication
- d) an Azure Cosmos DB that uses multi-region writes

Answer: d

Question: 7

You are designing an application that will be hosted in Azure. The application will host video files that range from 50 MB to 12 GB. The application will use certificate-based authentication and will be available to users on the internet.

You need to recommend a storage option for the video files. The solution must provide the fastest read performance and must minimize storage costs. What should you recommend?

- a) Azure Files
- b) Azure Data Lake Storage Gen2
- c) Azure Blob Storage
- d) Azure SQL Database

Answer: c**Question: 8**

You plan provision a High Performance Computing (HPC) cluster in Azure that will use a third-party scheduler. You need to recommend a solution to provision and manage the HPC cluster node.

What should you include in the recommendation?

- a) Azure Automation
- b) Azure CycleCloud
- c) Azure Purview
- d) Azure Lighthouse

Answer: b**Question: 9**

After you migrate App1 to Azure, you need to enforce the data modification requirements to meet the security and compliance requirements. What should you do?

- a) Create an access policy for the blob service
- b) Implement Azure resource locks
- c) Create Azure RBAC assignments.
- d) Modify the access level of the blob service

Answer: b

Question: 10

You have an Azure Active Directory (Azure AD) tenant that syncs with an on-premises Active Directory domain. You have an internal web app named WebApp1 that is hosted on-premises. WebApp1 uses Integrated Windows authentication.

Some users work remotely and do NOT have VPN access to the on-premises network. You need to provide the remote users with single sign-on (SSO) access to WebApp1.

Which two features should you include in the solution?

Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- a) Azure AD Application Proxy
- b) Azure AD Privileged Identity Management (PIM)
- c) Conditional Access policies
- d) Azure Arc
- e) Azure AD enterprise applications
- f) Azure Application Gateway

Answer: a, c

Study Guide to Crack Microsoft Designing Microsoft Azure Infrastructure Solutions AZ-305 Exam:

- Getting details of the AZ-305 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the AZ-305 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the Microsoft provided training for AZ-305 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the AZ-305 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on AZ-305 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for AZ-305 Certification

Make EduSum.com your best friend during your Designing Microsoft Azure Infrastructure Solutions exam preparation. We provide authentic practice tests for the AZ-305 exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual AZ-305 exam. We guarantee you 100% success in your first exam attempt if you continue practicing regularly. Don't bother if you don't get 100% marks in initial practice exam attempts. Just utilize the result section to know your strengths and weaknesses and prepare according to that until you get 100% with our practice tests. Our evaluation makes you confident, and you can score high in the AZ-305 exam.

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