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#1 Online Certification Guide

MICROSOFT AZ-304

Microsoft Azure Architect Design Certification Questions & Answers

Exam Summary – Syllabus –Questions

AZ-304

Microsoft Certified - Azure Solutions Architect Expert

40-60 Questions Exam – 40-60 Cut Score – Duration of 150 minutes

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Know Your AZ-304 Certification Well:

The AZ-304 is best suitable for candidates who want to gain knowledge in the Microsoft Azure. Before you start your AZ-304 preparation you may struggle to get all the crucial Azure Architect Design materials like AZ-304 syllabus, sample questions, study guide.

But don't worry the AZ-304 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-304 syllabus?
- How many questions are there in the AZ-304 exam?
- Which Practice test would help me to pass the AZ-304 exam at the first attempt?

Passing the AZ-304 exam makes you Microsoft Certified - Azure Solutions Architect Expert. Having the Azure Architect Design 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-304 Azure Architect Design Certification Details:

Exam Name	Microsoft Certified - Azure Solutions Architect Expert
Exam Code	AZ-304
Exam Price	$165 (USD)
Duration	150 mins
Number of Questions	40-60
Passing Score	700 / 1000
Books / Training	**AZ-304T00-A: Microsoft Azure Architect Design**
Schedule Exam	**Pearson VUE**
Sample Questions	**Microsoft Azure Architect Design Sample Questions**
Practice Exam	**Microsoft AZ-304 Certification Practice Exam**

AZ-304 Syllabus:

Topic	Details
Design Monitoring (10-15%)	
Design for cost optimization	- recommend a solution for cost management and cost reporting - recommend solutions to minimize costs
Design a solution for logging and monitoring	- determine levels and storage locations for logs - plan for integration with monitoring tools including Azure Monitor and Azure Sentinel - recommend appropriate monitoring tool(s) for a solution - choose a mechanism for event routing and escalation - recommend a logging solution for compliance requirements
Design Identity and Security (25-30%)	
Design authentication	- recommend a solution for single-sign on - recommend a solution for authentication - recommend a solution for Conditional Access, including multi-factor authentication - recommend a solution for network access authentication - recommend a solution for a hybrid identity including Azure AD Connect and Azure AD Connect Health - recommend a solution for user self-service - recommend and implement a solution for B2B integration - NOT: federation with ADFS or PingFederate
Design authorization	- choose an authorization approach - recommend a hierarchical structure that includes management groups, subscriptions and resource groups - recommend an access management solution including RBAC policies, access reviews, role assignments, Privileged Identity Management (PIM), Azure AD Identity Protection, Just In Time (JIT) access
Design governance	- recommend a strategy for tagging - recommend a solution for using Azure Policy - recommend a solution for using Azure Blueprints - recommend a solution that leverages Azure Resource Graph
Design security for applications	- recommend a solution that includes Key Vault - recommend a solution that includes Managed Identities - recommend a solution for integrating applications into Azure AD

Topic	Details
Design Data Storage (15-20%)	
Design a solution for databases	- select an appropriate data platform based on requirements - 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 data flow to meet business requirements - recommend a solution for data integration, including Azure Data Factory, Azure Data bricks, Azure Data Lake, Azure Synapse Analytics
Select an appropriate storage account	- choose between storage tiers - recommend a storage access solution - recommend storage management tools
Design Business Continuity (10-15%)	
Design a solution for backup and recovery	- recommend a recovery solution for Azure hybrid and on-premises workloads that meets recovery objectives (RTO, RLO, RPO) - design and Azure Site Recovery solution - recommend a solution for recovery in different regions - recommend a solution for geo-redundancy of workloads - recommend a solution for Azure Backup management - design a solution for data archiving and retention
Design for high availability	- recommend a solution for application and workload redundancy, including compute, database, and storage - recommend a solution for autoscaling - identify resources that require high availability - identify storage types for high availability
Design Infrastructure (25-30%)	
Design a compute solution	- recommend a solution for compute provisioning - determine appropriate compute technologies, including virtual machines, App Services, Service Fabric, Azure Functions, Windows Virtual Desktop, Batch, HPC and containers - recommend a solution for containers - recommend a solution for automating compute management
Design a network solution	- recommend a network architecture (hub and spoke, Virtual WAN) - recommend a solution for network addressing and name

Topic	Details
	resolution - recommend a solution for network provisioning - recommend a solution for network security including private Link, firewalls, gateways, network segmentation (perimeter networks/DMZs/NVAs) - recommend a solution for network connectivity to the Internet, on-premises networks, and other Azure virtual networks - recommend a solution for automating network management - recommend a solution for load balancing and traffic routing
Design an application architecture	- recommend a microservices architecture including Event Grid, Event Hubs, Service Bus, Azure Queue Storage, Logic Apps, Azure Functions, Service Fabric, AKS, Azure App Configuration and webhooks - recommend an orchestration solution for deployment and maintenance of applications including ARM templates, Azure Automation, Azure Pipelines, Logic Apps, or Azure Functions - recommend a solution for API integration
Design migrations	- assess and interpret on-premises servers, data, and applications for migration - recommend a solution for migrating applications and VMs - recommend a solution for migration of databases determine migration scope, including redundant, related, trivial, and outdated data - recommend a solution for migrating data (Storage Migration Service, Azure Data Box, Azure File Sync-based migration to hybrid file server)

Microsoft AZ-304 Sample Questions:

Question: 1

A company deploys Azure Active Directory (Azure AD) Connect to synchronize identity information from their on-premises Active Directory Domain Services (AD DS) directory to their Azure AD tenant.
The identity information that is synchronized includes user accounts, credential hashes for authentication (password sync), and group membership. The company plans to deploy several Windows and Linux virtual machines (VMs) to support their applications.
The VMs have the following requirements:
- Support domain join, LDAP read, LDAP bind, NTLM and Kerberos authentication, and Group Policy.
- Allow users to sign in to the domain using their corporate credentials and connect remotely to the VM by using Remote Desktop.
You need to support the VM deployment. Which service should you use?

a) Azure AD Domain Services
b) Azure AD Privileged Identity Management
c) Azure AD Managed Service Identity
d) Active Directory Federation Services (AD FS)

Answer: a

Question: 2

You manage a global e-commerce application named App1. App1 is hosted on multiple virtual machines in the United States. The website has grown in size and popularity. Now European customers are reporting slow page-load times.
You need to design a strategy that ensures that user requests always connect to the closet datacenter in their region. The solution must maximize service uptime in the event of a catastrophic natural disaster.
The solution must also minimize administrative effort. What should you do?

Choose the correct answer

a) Create additional load-balanced VMs in the European regions.
b) Use Azure Traffic Manager (ATM) to create load-balanced connections.
c) Use Azure Application Gateway (AAG) to configure multiple-site hosting
d) Use PowerShell to create a public load balancer.

Answer: b

Question: 3

You are planning to deploy an application by using the Azure Kubermets Services (AKS)> the application will reedy on having access to an encryption key that will be used to ... transmit files.

What should you use to provides the encryption key AKS security?

a) secrets
b) Azure Storage Service Encryption
c) a Kubernetes deployment YAML file
d) ConfigureMap

Answer: c

Question: 4

You are designing a hybrid identity solution for your organization. It consists of an on-premises Active Directory (AD) domain and an Azure AD tenant. Your solution must meet the following requirements:

- Allow a user who logs in to his or her on-premises account to automatically authenticate in Azure AD to access Azure services.

- Minimize administrative effort to deploy and maintain.

You need to set up authentication. Which mechanism should you choose?

a) Federation without password hash sync
b) Single sign-on (SSO) with pass-through authentication
c) Single sign-on (SSO) with password hash sync
d) Federation with password hash sync

Answer: a

Question: 5

You architect a solution that calculates 3D geometry from height-map data. You have the following requirements:

- Perform calculations in Azure.
- Each node must communicate data to every other node.
- Maximize the number of nodes to calculate multiple scenes as fast as possible.
- Require the least amount of effort to implement.

You need to recommend a solution. Which two actions should you recommend?

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

a) Create a render farm that uses Azure Batch.
b) Enable parallel file systems on Azure.
c) Enable parallel task execution on compute nodes.
d) Create a render farm that uses virtual machine (VM) scale sets.
e) Create a render farm that uses virtual machines (VMs).

Answer: a, c

Question: 6

Your company plans to migrate its on-premises data to Azure. You need to recommend which Azure services can be used to store the data. The solution must meet the following requirements:

- Encrypt all data while at rest.
- Encrypt data only by using a key generatedby the company.

Which two possible 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 Backup
c) Azure Blob storage
d) Azure Queue storage
e) Azure Files

Answer: c, e

Question: 7

A company named Contoso Ltd., has a single-domain Active Directory forest named contoso.com. Contoso is preparing to migrate all workloads to Azure. Contoso wants users to use single sign-on (SSO) when they access cloud-based services that integrate with Azure Active Directory (Azure AD).

You need to identify any objects in Active Directory that will fail to synchronize to Azure AD due to formatting issues. The solution must minimize costs. What should you include in the solution?

a) Azure Advisor
b) Microsoft Office 365 IdFix
c) Azure AD Connect Health
d) Password Export Server version 3.1 (PES v3.1) in Active Directory Migration Tool (ADMT)

Answer: b

Question: 8

The accounting department at your company migrates to new financial accounting software. The accounting department must keep file-based database backups for years for compliances purposes. It is unlikely that the backup will be used to recover data.

You need to more the backups to Azure. The solution must minimize costs. Where should store the backups?

a) Azure SQL Database
b) a Recovery Services vault
c) Azure storage that uses the Cool tier
d) Azure Blob storage that uses the archive tier

Answer: d

Question: 9

Your network contains an on-premises Active Directory forest. You discover that when users change jobs within your company, the membership of the user group are not updated. As a result the users can resources that are no longer relevant to their job.

You plan to integrate Active Directory and Azure Active Directory (Azure AD) by using Azure AD Connect You need to recommend a solution to ensure that group owners are emailed monthly about the group membership they manage.

What should you include in the recommendation?

a) Azure AD Identify Protection
b) Tenant Restrictions
c) Azure AD access reviews
d) conditional access policies

Answer: c

Question: 10

You are designing a container solution in azure that will include two containers. One container will host a web API that will be available to the public. The other container will perform health monitoring of the web API and will remain private.

The two containers will be deployed together as a group. You need to recommend a compute service for the containers. The solution must minimize costs and maintenance over head.

What should you include in the recommendation?

a) Azure container instances
b) Azure container Service
c) Azure kubernetes service (aks)
d) Azure service fabric

Answer: a

Study Guide to Crack Microsoft Azure Architect Design AZ-304 Exam:

- Getting details of the AZ-304 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-304 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-304 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-304 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-304 practice tests is must. Continuous practice will make you an expert in all syllabus areas.