

Q1. You plan to deploy an Azure web app named App1 that will use Microsoft Entra ID authentication. App1 will be accessed from the internet by the users at your company. All the users have computers that run Windows 11 and are joined to Entra ID. You need to recommend a solution to ensure that the users can connect to App1 without being prompted for authentication and can access App1 only from company-owned computers. What should you recommend for each requirement?

Requirement1 :

The users can connect to App1 without being prompted for authentication.

- A. An Entra ID Managed Identity
- B. An Entra ID App registration**
- C. Entra ID Application Proxy

Q1. You plan to deploy an Azure web app named App1 that will use Microsoft Entra ID authentication. App1 will be accessed from the internet by the users at your company. All the users have computers that run Windows 11 and are joined to Entra ID. You need to recommend a solution to ensure that the users can connect to App1 without being prompted for authentication and can access App1 only from company-owned computers. What should you recommend for each requirement?

Requirement2 :

The users can access App1 only from company owned computers.

- A. Entra ID administrative unit
- B. Azure Policy
- C. A Conditional Access policy**

Azure Solutions Architect Expert - Part 1

Q2. You have an Azure subscription that contains 300 virtual machines that run Windows Server 2022. You need to centrally monitor all warning events in the System logs of the virtual machines. What should you include in the solution?

Resource to create in Azure :

- A. A storage account
- B. A search service
- C. An event hub
- D. A Log Analytics workspace**

Azure Solutions Architect Expert - Part 1

Q2. You have an Azure subscription that contains 300 virtual machines that run Windows Server 2022. You need to centrally monitor all warning events in the System logs of the virtual machines. What should you include in the solution?

Configuration to perform on the virtual machines:

- A. Configure Continuous delivery
- B. Install the Azure Monitor Agent**
- C. Modify the membership of the event log readers group
- D. Create event subscriptions

Azure Solutions Architect Expert - Part 1

Q3. You plan to deploy an Azure SQL database that will store Personally Identifiable Information (PII). You need to ensure that only privileged users can view the PII. What should you include in the solution?

- A. Transparent Data Encryption (TDE)
- B. dynamic data masking**
- C. Data Discovery & Classification
- D. role-based access control (RBAC)

<https://learn.microsoft.com/en-us/azure/azure-sql/database/dynamic-data-masking-overview?view=azuresql>

Azure Solutions Architect Expert - Part 1

Q4. You have an application that is used by 6,000 users to validate their vacation requests. The application manages its own credential store. Users must enter a username and password to access the application. The application does NOT support identity providers. You plan to upgrade the application to use single sign-on (SSO) authentication by using an Microsoft Entra ID application registration. Which SSO method should you use?

- A. SAML
- B. header-based
- C. OpenID Connect
- D. password-based**

<https://learn.microsoft.com/en-us/entra/identity/enterprise-apps/plan-sso-deployment#single-sign-on-options>

Azure Solutions Architect Expert - Part 1



Q5. You are developing an app that will read activity logs for an Azure subscription by using Azure Functions. You need to recommend an authentication solution for Azure Functions. The solution must minimize administrative effort. What should you include in the recommendation?

- A. an enterprise application in Entra ID
- B. application registration in Entra ID
- C. system-assigned managed identities**
- D. shared access signatures (SAS)

<https://learn.microsoft.com/en-us/entra/identity/managed-identities-azure-resources/overview#managed-identity-types>



Q6. You have an Azure subscription that contains 1,000 resources. You need to generate compliance reports for the subscription. The solution must ensure that the resources can be grouped by department. What should you use to organize the resources?

- A. Azure Policy and tags**
- B. application groups and quotas
- C. resource groups and role assignments
- D. administrative units and Azure Lighthouse

Azure Solutions Architect Expert - Part 1

Q7. You have an Azure subscription that contains an Azure Blob Storage account named store1. You have an on-premises file server named Server1 that runs Windows Server 2022. Server1 stores 500 GB of company files. You need to store a copy of the company files from Server1 in store1. Which two possible Azure services achieve this goal?

- A. an Azure Logic Apps integration account
- B. an Azure Import/Export job**
- C. an Azure Analysis services On-premises data gateway
- D. an Azure Batch account
- E. Azure Data Factory**

Azure Solutions Architect Expert - Part 2



Q8. You have an Azure subscription. The subscription has a blob container that contains multiple blobs. Multiple users in the finance department of your company plan to access the blobs during the month of April. You need to recommend a solution to enable access to the blobs during the month of April only. Which security solution should you include in the recommendation?

- A. Conditional Access policies
- B. certificates
- C. **shared access signatures (SAS)**
- D. access keys



Azure Solutions Architect Expert - Part 2



Q9. You have several Azure App Service web apps that use Azure Key Vault to store data encryption keys. Several departments have the following requests to support the web app. Which service should you recommend for each department's request?

Quality Assurance Department

- Receive temporary administrator access to create and configure additional web apps in the test environment.

A. Entra ID Privileged Identity Management

B. Azure Managed Identity

C. Entra ID Connect

D. Entra ID Identity Protection



Azure Solutions Architect Expert - Part 2

Q9. You have several Azure App Service web apps that use Azure Key Vault to store data encryption keys. Several departments have the following requests to support the web app. Which service should you recommend for each department's request?

Development Department

- Enable the applications to access Key Vault and retrieve keys for use in code
-
- A. Entra ID Privileged Identity Management
 - B. Azure Managed Identity**
 - C. Entra ID Connect
 - D. Entra ID Identity Protection

Azure Solutions Architect Expert - Part 2

Q9. You have several Azure App Service web apps that use Azure Key Vault to store data encryption keys. Several departments have the following requests to support the web app. Which service should you recommend for each department's request?

Security Department

- Review the membership of administrative roles and require users to provide a justification for continued membership.
- Get alerts about changes in administrator assignments.
- See a history of administrator activation

A. Entra ID Privileged Identity Management

B. Azure Managed Identity

C. Entra ID Connect

D. Entra ID Identity Protection

Azure Solutions Architect Expert - Part 2

Q10. You plan to deploy an app that will use an Azure Storage account. You need to deploy the storage account. The storage account must meet the following requirements:

- Store the data for multiple users.
 - Encrypt each user's data by using a separate key.
 - Encrypt all the data in the storage account by using customer-managed keys.
- What two options can you deploy?

- A. blobs in a general purpose v2 storage account**
- B. files in a premium file share storage account
- C. blobs in an Azure Data Lake Storage Gen2 account**
- D. files in a general purpose v2 storage account

Azure Solutions Architect Expert - Part 2

Q11. You are designing an Azure governance solution. All Azure resources must be easily identifiable based on the following operational information: environment, owner, department and cost center. You need to ensure that you can use the operational information when you generate reports for the Azure resources. What should you include in the solution?

- A. an Azure data catalog that uses the Azure REST API as a data source
- B. Microsoft Entra ID administrative units
- C. an Azure management group that uses parent groups to create a hierarchy
- D. an Azure policy that enforces tagging rules**

Q12. You have an Entra ID tenant named contoso.com that has a security group named Group1. Group1 is configured for assigned memberships. Group1 has 50 members, including 20 guest users. You need to recommend a solution for evaluating the membership of Group1. The solution must meet the following requirements:

- The evaluation must be repeated automatically every three months.
- Every member must be able to report whether they need to be in Group1.
- Users who report that they do not need to be in Group1 must be removed from Group1 automatically.
- Users who do not report whether they need to be in Group1 must be removed from Group1 automatically.

What should you include in the recommendation?

- A. Change the Membership type of Group1 to Dynamic User.
- B. Implement Entra ID Identity Protection.
- C. Implement Entra ID Privileged Identity Management (PIM).

D. Create an access review.



Q13. You have an Azure subscription. You plan to deploy a monitoring solution that will include the following:

- Azure Monitor Network Insights
- Application Insights
- Microsoft Sentinel
- VM insights

The monitoring solution will be managed by a single team. What is the minimum number of Azure Monitor Log Analytics workspaces required?

- A. 1**
- B. 2
- C. 3
- D. 4

Q14. You have an Azure subscription. You need to deploy a relational database.

The solution must meet the following requirements:

- Support multiple read-only replicas.
- Automatically load balance read-only requests across all the read-only replicas.
- Minimize administrative effort

What should you use?

Service:

- A. A single Azure SQL database**
- B. An Azure SQL database elastic pool
- C. Azure SQL Managed Instances

Azure Solutions Architect Expert - Part 2

Q14. You have an Azure subscription. You need to deploy a relational database.

The solution must meet the following requirements:

- Support multiple read-only replicas.
- Automatically load balance read-only requests across all the read-only replicas.
- Minimize administrative effort

What should you use?

Service Tier:

- A. Business Critical
- B. Hyperscale**
- C. Premium

<https://learn.microsoft.com/en-us/azure/azure-sql/database/read-scale-out?view=azuresql>



Azure Solutions Architect Expert - Part 3

Q15. Your company has the divisions shown in the following table.

Division	Azure Subscription	Entra ID Tenant
East	Sub1	devopshub.com
West	Sub2	techwithjaspal.com

Sub1 contains an Azure App Service web app named App1. App1 uses Entra ID for single-tenant user authentication. Users from devopshub.com can authenticate to App1. You need to recommend a solution to enable users in the techwithjaspal.com tenant to authenticate to App1. What should you recommend?

- A. Configure the Entra ID provisioning service.
- B. Configure Entra ID join.
- C. **Configure Supported account types in the application registration and update the sign-in endpoint.**
- D. Enable Entra ID pass-through authentication and update the sign-in endpoint.

Azure Solutions Architect Expert - Part 3

Q16. You are designing an app that will be hosted on Azure virtual machines that run Ubuntu. The app will use a third-party email service to send email messages to users. The third-party email service requires that the app authenticate by using an API key. You need to recommend an Azure Key Vault solution for storing and accessing the API key. The solution must minimize administrative effort. What should you recommend using to store and access the key?

Storage :

- A. Certificate
- B. Key
- C. Secret

Azure Solutions Architect Expert - Part 3

Q16. You are designing an app that will be hosted on Azure virtual machines that run Ubuntu. The app will use a third-party email service to send email messages to users. The third-party email service requires that the app authenticate by using an API key. You need to recommend an Azure Key Vault solution for storing and accessing the API key. The solution must minimize administrative effort. What should you recommend using to store and access the key?

Access :

- A. An API token
- B. A Managed Identity**
- C. A Service Principal

Azure Solutions Architect Expert - Part 3

Q17. You have an Azure subscription that contains 10 web apps. The apps are integrated with Entra ID and are accessed by users on different project teams. The users frequently move between projects. You need to recommend an access management solution for the web apps. The solution must meet the following requirements:

- The users must only have access to the app of the project to which they are assigned currently.
- Project managers must verify which users have access to their project's app and remove users that are no longer assigned to their project.
- Once every 30 days, the project managers must be prompted automatically to verify which users are assigned to their projects

What should you include in the recommendation?

- A. Entra ID Identity Protection
- B. Microsoft Defender for Identity
- C. Microsoft Entra Permissions Management
- D. Entra ID Identity Governance**

Azure Solutions Architect Expert - Part 3

Q18. You have an Azure subscription that contains 50 Azure SQL databases. You create an Azure Resource Manager (ARM) template named Template1 that enables Transparent Data Encryption (TDE). You need to create an Azure Policy definition named Policy1 that will use Template1 to enable TDE for any noncompliant Azure SQL databases. How should you configure Policy1?

Set Available effects to:

- A. **DeployIfNotExists**
- B. EnforceRegoPolicy
- C. Modify

Azure Solutions Architect Expert - Part 3

Q18. You have an Azure subscription that contains 50 Azure SQL databases. You create an Azure Resource Manager (ARM) template named Template1 that enables Transparent Data Encryption (TDE). You need to create an Azure Policy definition named Policy1 that will use Template1 to enable TDE for any noncompliant Azure SQL databases. How should you configure Policy1?

Include in the definition:

- A. The identity required to perform the remediation task**
- B. The scopes of the policy assignments
- C. The role-based access control (RBAC) roles required to perform the remediation task

<https://learn.microsoft.com/en-us/azure/governance/policy/concepts/effect-deploy-if-not-exists#deployifnotexists-example>

Q19. You need to design a storage solution for an app that will store large amounts of frequently used data. The solution must meet the following requirements:

- Maximize data throughput.
- Prevent the modification of data for one year.
- Minimize latency for read and write operations.

Which Azure Storage account type and storage service should you recommend?

Storage Account Type:

- A. BlobStorage
- B. BlockBlobStorage**
- C. FileStorage
- D. StorageV2 with Premium performance
- E. StorageV2 with Standard performance

Azure Solutions Architect Expert - Part 3



Q19. You need to design a storage solution for an app that will store large amounts of frequently used data. The solution must meet the following requirements:

- Maximize data throughput.
- Prevent the modification of data for one year.
- Minimize latency for read and write operations.

Which Azure Storage account type and storage service should you recommend?

Storage Service:

- A. **Blob**
- B. File
- C. Table



Azure Solutions Architect Expert - Part 3



Q20. 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?

- A. Azure Table Storage
- B. Azure Event Grid
- C. **Azure Cosmos DB SQL API**
- D. **Azure Time Series Insights**

Azure Solutions Architect Expert - Part 3

Q21. You have an app named App1 that uses two on-premises Microsoft SQL Server databases named DB1 and DB2. You plan to migrate DB1 and DB2 to Azure. You need to recommend an Azure solution to host DB1 and DB2. The solution must meet the following requirements:

- Support server-side transactions across DB1 and DB2.
- Minimize administrative effort to update the solution

What should you recommend?

- ~~A. two databases on the same SQL Server instance on an Azure virtual machine~~
- ~~B. two Azure SQL databases in an elastic pool~~
- ~~C. two Azure SQL databases on different Azure SQL Database servers~~
- D. two databases on the same Azure SQL managed instance**

Q22. You have an on-premises database that you plan to migrate to Azure. You need to design the database architecture to meet the following requirements :

- Support scaling up and down.
- Support geo-redundant backups.
- Support a database of up to 75 TB.
- Be optimized for online transaction processing (OLTP).

What should you include in the design?

Service :

- A. **Azure SQL Database**
- B. Azure SQL Managed Instance
- C. Azure Synapse Analytics
- D. SQL Server on Azure Virtual Machines

Azure Solutions Architect Expert - Part 4

Q22. You have an on-premises database that you plan to migrate to Azure. You need to design the database architecture to meet the following requirements :

- Support scaling up and down.
- Support geo-redundant backups.
- Support a database of up to 75 TB.
- Be optimized for online transaction processing (OLTP).

What should you include in the design?

Service Tier:

- A. Basic
- B. Business Critical
- C. General Purpose
- D. Hyperscale**
- E. Premium
- F. Standard

Azure Solutions Architect Expert - Part 4

Q23. You have an Azure subscription that contains a storage account. An application sometimes writes duplicate files to the storage account. You have a PowerShell script that identifies and deletes duplicate files in the storage account. Currently, the script is run manually after approval from the operations manager. You need to recommend a serverless solution that performs the following actions:

- Runs the script once an hour to identify whether duplicate files exist
- Sends an email notification to the operations manager requesting approval to delete the duplicate files
- Processes an email response from the operations manager specifying whether the deletion was approved
- Runs the script if the deletion was approved

What should you include in the recommendation?

- A. Azure Logic Apps and Azure Event Grid
- B. Azure Pipelines and Azure Service Fabric
- C. Azure Logic Apps and Azure Functions**
- D. Azure Functions and Azure Batch

Azure Solutions Architect Expert - Part 4

Q24. 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?

- A. Azure SQL Database that uses active geo-replication
- B. Azure SQL Database Hyperscale
- C. Azure Database for PostgreSQL
- D. **Azure Cosmos DB SQL API**

Azure Solutions Architect Expert - Part 4

Q25. You have an on-premises network and an Azure subscription. The on-premises network has several branch offices. A branch office in Toronto contains a virtual machine named VM1 that is configured as a file server. Users access the shared files on VM1 from all the offices. You need to recommend a solution to ensure that the users can access the shared files as quickly as possible if the Toronto branch office is inaccessible. What should you include in the recommendation?

- A. a Recovery Services vault and Windows Server Backup
- B. Azure blob containers and Azure File Sync
- C. a Recovery Services vault and Azure Backup
- D. an Azure file share and Azure File Sync**



Azure Solutions Architect Expert - Part 4

- Q26. You have an Azure subscription. The subscription contains 100 virtual machines that run Windows Server 2022 and have the Azure Monitor Agent installed. You need to recommend a solution that meets the following requirements:
- Forwards JSON-formatted logs from the virtual machines to a Log Analytics workspace
 - Transforms the logs and stores the data in a table in the Log Analytics workspace
- What should you include in the recommendation?

To forward the logs :

- A. A linked storage account for the log analytics workspace
- B. An Azure monitor data collection endpoint**
- C. A service endpoint

Azure Solutions Architect Expert - Part 4

- Q26. You have an Azure subscription. The subscription contains 100 virtual machines that run Windows Server 2022 and have the Azure Monitor Agent installed. You need to recommend a solution that meets the following requirements:
- Forwards JSON-formatted logs from the virtual machines to a Log Analytics workspace
 - Transforms the logs and stores the data in a table in the Log Analytics workspace
- What should you include in the recommendation?

To transform the logs and store the data :

- A. **A KQL query**
- B. A WQL query
- C. An XPath query

Azure Solutions Architect Expert - Part 4



Q27. You have a multi-tier app named App1 and an Azure SQL database named SQL1. The backend service of App1 writes data to SQL1. Users use the App1 client to read the data from SQL1. During periods of high utilization, the users experience delays retrieving the data. You need to minimize how long it takes for data requests. What should you include in the solution?

- A. **Azure Cache for Redis**
- B. Azure Content Delivery Network (CDN)
- C. Azure Data Factory
- D. Azure Synapse Analytics



Q28. You are designing an app that will include two components. The components will communicate by sending messages via a queue. You need to recommend a solution to process the messages by using a First in, First out (FIFO) pattern. What should you include in the recommendation?

- A. storage queues with a custom metadata setting
- B. Azure Service Bus queues with partitioning enabled
- C. Azure Service Bus queues with sessions enabled**
- D. storage queues with a stored access policy

<https://learn.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compared-contrasted#consider-using-service-bus-queues>

Azure Solutions Architect Expert - Part 5



Q29. You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
VM1	Virtual Machine	Frontend component in the Central US Azure region
VM2	Virtual Machine	Backend component in the East US Azure region
VM3	Virtual Machine	Backend component in the East US 2 Azure region
VNet1	Virtual Network	Hosts VM1
VNet2	Virtual Network	Hosts VM2
VNet3	Virtual Network	Hosts VM3

You create peering between VNet1 and VNet2 and between VNet1 and VNet3. The virtual machines host an HTTPS-based client/server application and are accessible only via the private IP address of each virtual machine. You need to implement a load balancing solution for VM2 and VM3. The solution must ensure that if VM2 fails, requests will be routed automatically to VM3, and if VM3 fails, requests will be routed automatically to VM2. What should you include in the solution?

- ~~A. Azure Firewall Premium~~
- ~~B. Azure Application Gateway v2~~
- ~~C. a cross-region load balancer~~
- D. Azure Front Door Premium**

Q30. You have an Azure subscription that contains the SQL servers on Azure shown in the following table.

Name	Resource Group	Location
SQLsvr1	RG1	East US
SQLsvr2	RG2	West US

The subscription contains the storage accounts shown in the following table.

Name	Resource Group	Location	Account Kind
storage1	RG1	East US	StorageV2(general purpose V2)
storage2	RG2	Central US	BlobStorage

You create the Azure SQL databases shown in the following table.

Name	Resource Group	Server	Pricing Tier
SQLdb1	RG1	SQLsvr1	Standard
SQLdb2	RG1	SQLsvr1	Standard
SQLdb3	RG2	SQLsvr2	Premium

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Statement 1 :- When you enable auditing for SQLdb1, you can store the audit information to storage1

Statement 2 :- When you enable auditing for SQLdb2, you can store the audit information to storage2



1:13:09 / 1:57:35

Yes

No



Statement 3 :- When you enable auditing for SQLdb3, you can store the audit information to storage2



1:13:21 / 1:57:35

Yes

No



Azure Solutions Architect Expert - Part 5

Q31. You have SQL Server on an Azure virtual machine. The databases are written nightly as part of a batch process. You need to recommend a disaster recovery solution for the data. The solution must meet the following requirements:

- Provide the ability to recover in the event of a regional outage.
- Support a recovery time objective (RTO) of 15 minutes.
- Support a recovery point objective (RPO) of 24 hours.
- Support automated recovery.
- Minimize costs.

What should you include in the recommendation?

- A. Azure virtual machine availability sets
- B. Azure Disk Backup
- C. an Always On availability group
- D. Azure Site Recovery**



Azure Solutions Architect Expert - Part 5

Q32. You have a .NET web service named Service1 that performs the following tasks:

- Reads and writes temporary files to the local file system.
- Writes to the Application event log.

You need to recommend a solution to host Service1 in Azure. The solution must meet the following requirements:

- Minimize maintenance overhead.
- Minimize costs.

What should you include in the recommendation?

- A. an Azure App Service web app**
- B. an Azure virtual machine scale set
- C. an App Service Environment (ASE)
- D. an Azure Functions app



Azure Solutions Architect Expert - Part 5

Q33. Your company has 300 virtual machines hosted in a VMware environment. The virtual machines vary in size and have various utilization levels. You plan to move all the virtual machines to Azure. You need to recommend how many and what size Azure virtual machines will be required to move the current workloads to Azure. The solution must minimize administrative effort. What should you use to make the recommendation?

- A. Azure Pricing calculator
- B. Azure Advisor
- C. Azure Migrate**
- D. Azure Cost Management

Azure Solutions Architect Expert - Part 5

Q34. 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



Azure Solutions Architect Expert - Part 5

Q35. You have data files in Azure Blob Storage. You plan to transform the files and move them to Azure Data Lake Storage. You need to transform the data by using mapping data flow. Which service should you use?

- A. Azure Databricks
- B. Azure Storage Sync
- C. Azure Data Factory**
- D. Azure Data Box Gateway

- Q36. A company plans to implement an HTTP-based API to support a web app. The web app allows customers to check the status of their orders. The API must meet the following requirements:
- Implement Azure Functions.
 - Provide public read-only operations.
 - Prevent write operations.
- You need to recommend which HTTP methods and authorization level to configure. What should you recommend?

HTTP Methods :

- A. API methods
- B. GET only**
- C. GET and POST only
- D. GET, POST and OPTIONS only

Azure Solutions Architect Expert - Part 6

Q36. A company plans to implement an HTTP-based API to support a web app. The web app allows customers to check the status of their orders. The API must meet the following requirements:

- Implement Azure Functions.
- Provide public read-only operations.
- Prevent write operations.

You need to recommend which HTTP methods and authorization level to configure. What should you recommend?

Authorization Level :

- A. Function
- B. Anonymous**
- C. Admin

Azure Solutions Architect Expert - Part 6

Q37. Your on-premises network contains a file server named Server1 that stores 500 GB of data. You need to use Azure Data Factory to copy the data from Server1 to Azure Storage. You add a new data factory. What should you do next?

From Server1 :

- A. Install an Azure File Sync Agent.
- B. Install a self-hosted integration runtime.**
- C. Install the File server Resource Manager role service.

From the data factory :

- A. Create a pipeline.**
- B. Create an Azure Import/Export Job.
- C. Provision an Azure SQL Server Integration Services (SSIS) integration runtime.



Azure Solutions Architect Expert - Part 6

- Q38. You plan to deploy Azure Databricks to support a machine learning application. Data engineers will mount an Azure Data Lake Storage account to the Databricks file system. Permissions to folders are granted directly to the data engineers. You need to recommend a design for the planned Databrick deployment. The solution must meet the following requirements:
- Ensure that the data engineers can only access folders to which they have permissions.
 - Minimize development effort.
 - Minimize costs.
- What should you include in the recommendation?

Databricks SKU:

- A. Premium
- B. Standard

Azure Solutions Architect Expert - Part 6

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- Ensure that the data engineers can only access folders to which they have permissions.
 - Minimize development effort.
 - Minimize costs.
- What should you include in the recommendation?

Cluster Configuration:

- A. **Credential passthrough**
- B. Managed Identities
- C. MLflow
- D. A runtime that contains Photon
- E. Secret Scope



Azure Solutions Architect Expert - Part 6



Q39. 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 Activity Log**
- B. Azure Advisor
- C. Azure Analysis Services
- D. Azure Monitor action groups

Azure Solutions Architect Expert - Part 6

- Q40. You have an Azure App Service web app that uses a system-assigned managed identity. You need to recommend a solution to store the settings of the web app as secrets in an Azure key vault. The solution must meet the following requirements:
- Minimize changes to the app code.
 - Use the principle of least privilege.
- What should you include in the recommendation?

Key Vault Integration method :

- A. **Key vault references in Application settings**
- B. Key vault references in Appsettings.json
- C. Key vault references in Web.config
- D. Key Vault SDK



Azure Solutions Architect Expert - Part 6

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- Minimize changes to the app code.
 - Use the principle of least privilege.
- What should you include in the recommendation?

Key Vault permissions for the managed identity:

- A. Keys: Get
- B. Keys: List and Get
- C. **Secrets: Get**
- D. Secrets: List and Get



Azure Solutions Architect Expert - Part 6

- Q41. You have an Azure subscription. The subscription contains a tiered app named App1 that is distributed across multiple containers hosted in Azure Container Instances. You need to deploy an Azure Monitor monitoring solution for App. The solution must meet the following requirements:
- Support using synthetic transaction monitoring to monitor traffic between the App1 components.
 - Minimize development effort.
- What should you include in the solution?

- A. Network insights
- B. Application Insights**
- C. Container insights
- D. Log Analytics Workspace insights



Azure Solutions Architect Expert - Part 6

Q42. You have 12 Azure subscriptions and three projects. Each project uses resources across multiple subscriptions. You need to use Microsoft Cost Management to monitor costs on a per project basis. The solution must minimize administrative effort. Which two components should you include in the solution?

- A. budgets
- B. resource tags
- C. custom role-based access control (RBAC) roles
- D. management groups
- E. Azure boards



Azure Solutions Architect Expert - Part 7

Q43. You have an on-premises network that uses an IP address space of 172.16.0.0/16. You plan to deploy 30 virtual machines to a new Azure subscription. You identify the following technical requirements:

- All Azure virtual machines must be placed on the same subnet named Subnet1.
- All the Azure virtual machines must be able to communicate with all on-premises servers.
- The servers must be able to communicate between the on-premises network and Azure by using a site-to-site VPN.

You need to recommend a subnet design that meets the technical requirements. What should you include in the recommendation? To answer, Select the appropriate network addresses to the correct subnets. Each network address may be used once, more than once, or not at all.

Network Addresses :

~~172.16.0.0/16~~

~~172.16.1.0/27~~

192.168.0.0/24

192.168.1.0/27

Subnet1 : 192.168.0.0/24

Gateway Subnet : 192.168.1.0/27

Azure Solutions Architect Expert - Part 7

- Q44. You are designing an application that will use Azure Linux virtual machines to analyze video files. The files will be uploaded from corporate offices that connect to Azure by using ExpressRoute. You plan to provision an Azure Storage account to host the files. You need to ensure that the storage account meets the following requirements:
- Supports video files of up to 7 TB
 - Provides the highest availability possible
 - Ensures that storage is optimized for the large video files
 - Ensures that files from the on-premises network are uploaded by using ExpressRoute
- How should you configure the storage account?

Storage Account Type:

- ~~A. Premium file shares~~
- ~~B. Premium page blobs~~
- C. Standard general purpose V2**

Data Redundancy:

- A. Zone redundant Storage (ZRS)
- B. Locally redundant Storage (LRS)
- C. Geo redundant Storage (GRS)**

Networking:

- A. Azure Route Server
- B. A Private endpoint**
- C. A service endpoint



Azure Solutions Architect Expert - Part 7

Q45. You have 100 Microsoft SQL Server Integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations. You plan to migrate the 10 on-premises databases to Azure SQL Database. You need to recommend a solution to create Azure-SQL Server Integration Services (SSIS) packages. The solution must ensure that the packages can target the SQL Database instances as their destinations. What should you include in the recommendation?

- ~~A. Data Migration Assistant (DMA)~~
- ~~B. Azure Data Catalog~~
- ~~C. SQL Server Migration Assistant (SSMA)~~
- D. Azure Data Factory**

<https://learn.microsoft.com/en-us/azure/data-factory/tutorial-deploy-ssis-packages-azure>

Azure Solutions Architect Expert - Part 7

Q46. You have a Microsoft Entra tenant that syncs with an on-premises Active Directory domain. Your company has a line-of-business (LOB) application that was developed internally. You need to implement SAML single sign-on (SSO) and enforce multi-factor authentication (MFA) when users attempt to access the application from an unknown location. Which two features should you include in the solution?

- A. Microsoft Entra Privileged Identity Management
- B. Azure Application Gateway
- C. Microsoft Entra enterprise applications**
- D. Microsoft Entra ID Protection
- E. Conditional Access policies**

Azure Solutions Architect Expert - Part 7

Q47. You have an Azure subscription. You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:

- Only allow the creation of the virtual machines in specific regions.
- Only allow the creation of specific sizes of virtual machines.

What should you include in the recommendation?

- A. Attribute-based access control (ABAC)
- B. Azure Policy**
- C. Conditional Access policies
- D. role-based access control (RBAC)

Azure Solutions Architect Expert - Part 7

Q48. You plan to deploy an Azure App Service web app that will have multiple instances across multiple Azure regions. You need to recommend a load balancing service for the planned deployment. The solution must meet the following requirements:

- Maintain access to the app in the event of a regional outage.
- Support Azure Web Application Firewall (WAF).
- Support cookie-based affinity.
- Support URL routing.

What should you include in the recommendation?

- A. Azure Front Door**
- B. Azure Traffic Manager
- C. Azure Application Gateway
- D. Azure Load Balancer

Azure Solutions Architect Expert - Part 7

Q49. You are designing a microservices architecture that will support a web application. The solution must meet the following requirements:

- Deploy the solution on-premises and to Azure.
- Support low-latency and hyper-scale operations.
- Allow independent upgrades to each microservice.
- Set policies for performing automatic repairs to the microservices.

You need to recommend a technology. What should you recommend?

- A. Azure Container Instance
- B. Azure Logic App
- C. Azure Service Fabric**
- D. Azure virtual machine scale set

<https://learn.microsoft.com/en-us/azure/service-fabric/service-fabric-overview>

Azure Solutions Architect Expert - Part 7

Q50. You plan to automate the deployment of resources to Azure subscriptions. What is a difference between using Azure Blueprints and Azure Resource Manager (ARM) templates?

- A. ARM templates remain connected to the deployed resources.
- B. Only blueprints can contain policy definitions.
- C. Only ARM templates can contain policy definitions.
- D. Blueprints remain connected to the deployed resources.**

<https://learn.microsoft.com/en-us/azure/governance/blueprints/overview#how-its-different-from-arm-templates>



Azure Solutions Architect Expert - Part 8

Q51. You have the Azure resources shown in the following table.

Name	Type	Description
VNET1	Virtual Network	Connected to an on-premises network by using ExpressRoute
VM1	Virtual Machine	Configured as a DNS server
SQLDB1	Azure SQL Database	Single Instance
PE1	Private endpoint	Provides connectivity to SQLDB1
contoso.com	Private DNS zone	Linked to VNET1 and contains an A record for PE1
contoso.com	Public DNS zone	Contains a CNAME record for SQLDB1

You need to design a solution that provides on-premises network connectivity to SQLDB1 through PE1. How should you configure name resolution?

Azure Configuration :

- A. Configure VM1 to forward contoso.com to the public DNS zone
- B. Configure VM1 to forward contoso.com to the Azure provided DNS at 168.63.129.16**
- C. In VNet1, configure a custom DNS server set to the Azure provided DNS at 168.63.129.16



Azure Solutions Architect Expert - Part 8

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contoso.com	Public DNS zone	Contains a CNAME record for SQLDB1

You need to design a solution that provides on-premises network connectivity to SQLDB1 through PE1. How should you configure name resolution?

On-premises DNS Configuration :

- A. Forward contoso.com to VM1
- B. Forward contoso.com to the public DNS zone
- C. Forward contoso.com to the Azure provisioned DNS at 168.63.129.16



Azure Solutions Architect Expert - Part 8

Q52. You have an Azure virtual machine named VM1 that runs Windows Server 2019 and contains 500 GB of data files. You are designing a solution that will use Azure Data Factory to transform the data files, and then load the files to Azure Data Lake Storage. What should you deploy on VM1 to support the design?

- A. the On-premises data gateway
- B. the Azure Pipelines agent
- C. the self-hosted integration runtime
- D. the Azure File Sync agent

Azure Solutions Architect Expert - Part 8

Q53. You have an Azure subscription that contains an Azure key vault named KV1 and a virtual machine named VM1. VM1 runs Windows Server 2022: Azure Edition. You plan to deploy an ASP.Net Core-based application named App1 to VM1. You need to configure App1 to use a system-assigned managed identity to retrieve secrets from KV1. The solution must minimize development effort. What should you do?

Configure App1 to use OAuth 2.0 :

- A. Authorization code grant flows
- B. Client credentials grant flows**
- C. Implicit grant flows

Azure Solutions Architect Expert - Part 8

Q53. You have an Azure subscription that contains an Azure key vault named KV1 and a virtual machine named VM1. VM1 runs Windows Server 2022: Azure Edition. You plan to deploy an ASP.Net Core-based application named App1 to VM1. You need to configure App1 to use a system-assigned managed identity to retrieve secrets from KV1. The solution must minimize development effort. What should you do?

Configure App1 to use a REST API call to retrieve an authentication token from the :

- A. **Azure Instance Metadata Service (MDS) endpoint**
- B. OAuth 2.0 access token endpoint of Entra ID
- C. OAuth 2.0 access token endpoint of Microsoft Identity Platform



Azure Solutions Architect Expert - Part 8

- Q54. You are designing a software as a service (SaaS) application that will enable Entra ID users to create and publish online surveys. The SaaS application will have a front-end web app and a back-end web API. The web app will rely on the web API to handle updates to customer surveys. You need to design an authorization flow for the SaaS application. The solution must meet the following requirements:
- To access the back-end web API, the web app must authenticate by using OAuth 2 bearer tokens.
 - The web app must authenticate by using the identities of individual users.
- What should you include in the solution?

The access tokens will be generated by :

- A. **Entra ID**
- B. Web App
- C. Web API

Authorization decisions will be performed by :

- A. Entra ID
- B. Web App
- C. **Web API**



Azure Solutions Architect Expert - Part 8

Q55. You have an on-premises application that consumes data from multiple databases. The application code references database tables by using a combination of the server, database, and table name. You need to migrate the application data to Azure. To which two services can you migrate the application data to achieve the goal?

- A. SQL Server Stretch Database
- B. SQL Server on an Azure virtual machine**
- C. Azure SQL Database
- D. Azure SQL Managed Instance**

Azure Solutions Architect Expert - Part 8

Q56. You plan to create an Azure Storage account that will host file shares. The shares will be accessed from on-premises applications that are transaction intensive. You need to recommend a solution to minimize latency when accessing the file shares. The solution must provide the highest-level of resiliency for the selected storage tier. What should you include in the recommendation?

Storage tier :

- A. Hot
- B. Premium**
- C. Transaction Optimized

Redundancy:

- A. Geo-redundant storage (GRS)
- B. Zone-redundant storage (ZRS)**
- C. Locally-redundant storage (LRS)

Azure Solutions Architect Expert - Part 8

1

Q57. You need to configure an Azure policy to ensure that the Azure SQL databases have Transparent Data Encryption (TDE) enabled. The solution must meet the security and compliance requirements. Which three actions should you perform in sequence?

Correct Sequence of required actions :-

- A. Create an Azure policy definition that uses the deployIfNotExists effect.
- D. Create an Azure Policy assignment
- B. Invoke a remediation task.



Azure Solutions Architect Expert - Part 8



Q58. You have an Azure subscription that contains an Azure Cosmos DB for NoSQL account named account1 and an Azure Synapse Analytics workspace named Workspace1. The account1 account contains a container named Container1 that has the analytical store enabled. You need to recommend a solution that will process the data stored in Container1 in near-real-time (NRT) and output the results to a data warehouse in Workspace1 by using a runtime engine in the workspace. The solution must minimize data movement. Which pool in Workspace1 should you use?

- A. **Apache Spark**
- B. serverless SQL
- C. dedicated SQL
- D. Data Explorer



Azure Solutions Architect Expert - Part 9



Q59. You plan to deploy an Azure Database for MySQL flexible server named Server1 to the East US Azure region. You need to implement a business continuity solution for Server1. The solution must minimize downtime in the event of a failover to a paired region. What should you do?

- A. Create a read replica.
- B. Store the database files in Azure premium file shares.
- C. Implement Geo-redundant backup.**
- D. Configure native MySQL replication.

<https://learn.microsoft.com/en-us/azure/mysql/flexible-server/concepts-business-continuity>



Azure Solutions Architect Expert - Part 9



Q60. You need to design a highly available Azure SQL database that meets the following requirements:

- Failover between replicas of the database must occur without any data loss.
- The database must remain available in the event of a zone outage.
- Costs must be minimized.

Which deployment option should you use?

- A. Azure SQL Managed Instance Business Critical
- B. Azure SQL Managed Instance General Purpose
- C. Azure SQL Database Business Critical**
- D. Azure SQL Database Serverless



Azure Solutions Architect Expert - Part 9

Q61. You plan to migrate App1 to Azure. You need to recommend a network connectivity solution for the Azure Storage account that will host the App1 data. The solution must meet the security and compliance requirements. What should you include in the recommendation?

- A. Microsoft peering for an ExpressRoute circuit
- B. Azure public peering for an ExpressRoute circuit
- C. a service endpoint that has a service endpoint policy
- D. a private endpoint**

Azure Solutions Architect Expert - Part 9

Q62. You plan to deploy multiple instances of an Azure web app across several Azure regions. You need to design an access solution for the app. The solution must meet the following replication requirements:

- Support rate limiting.
- Balance requests between all instances.
- Ensure that users can access the app in the event of a regional outage.

Solution: You use Azure Front Door to provide access to the app.

Does this meet the goal?

A. Yes

B. No



Azure Solutions Architect Expert - Part 9

Q63. You have 12 on-premises data sources that contain customer information and consist of Microsoft SQL Server, MySQL, and Oracle databases. You have an Azure subscription. You plan to create an Azure Data Lake Storage account that will consolidate the customer information for analysis and reporting. You need to recommend a solution to automatically copy new information from the data sources to the Data Lake Storage account by using extract, transform and load (ETL). The solution must minimize administrative effort. What should you include in the recommendation?

- A. Azure Data Factory**
- B. Azure Data Explorer
- C. Azure Data Share
- D. Azure Data Studio



Azure Solutions Architect Expert - Part 9

Q64. You have an Azure subscription. You need to deploy an Azure Kubernetes Service (AKS) solution that will use Windows Server 2019 nodes. The solution must meet the following requirements:

- Minimize the time it takes to provision compute resources during scale-out operations.
- Support autoscaling of Windows Server containers.

Which scaling option should you recommend?

- A. Kubernetes version 1.20.2 or newer
- B. Virtual nodes with Virtual Kubelet ACI
- C. cluster autoscaler**
- D. horizontal pod autoscaler

<https://learn.microsoft.com/en-us/azure/aks/cluster-autoscaler-overview>

Azure Solutions Architect Expert - Part 9

Q65. You have an Azure subscription. You need to recommend an Azure Kubernetes Service (AKS) solution that will use Linux nodes. The solution must meet the following requirements:

- Minimize the time it takes to provision compute resources during scale-out operations.
- Support autoscaling of Linux containers.
- Minimize administrative effort.

Which scaling option should you recommend?

- A. horizontal pod autoscaler
- B. cluster autoscaler
- C. **virtual nodes**
- D. Virtual Kubelet



Azure Solutions Architect Expert - Part 9



Q66. Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases. The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region. You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using the Regulatory compliance dashboard in Microsoft Defender for Cloud. Does this meet the goal?

A. Yes

B. No



Azure Solutions Architect Expert - Part 9

Q67. You plan to move a web app named App1 from an on-premises datacenter to Azure. App1 depends on a custom COM component that is installed on the host server. You need to recommend a solution to host App1 in Azure. The solution must meet the following requirements:

- App1 must be available to users if an Azure datacenter becomes unavailable.
- Costs must be minimized.

What should you include in the recommendation?

~~A. In two Azure regions, deploy a load balancer and a web app.~~

~~B. In two Azure regions, deploy a load balancer and a virtual machine scale set.~~

C. Deploy a load balancer and a virtual machine scale set across two availability zones.

~~D. In two Azure regions, deploy an Azure Traffic Manager profile and a web app.~~



Azure Solutions Architect Expert - Part 9

Q68. 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 Notification Hubs
- B. Azure Service Fabric
- C. **Azure Queue Storage**
- D. Azure Data Lake



Azure Solutions Architect Expert - Part 10



Q69. You are designing a point of sale (POS) solution that will be deployed across multiple locations and will use an Azure Databricks workspace in the Standard tier. The solution will include multiple **apps deployed to the on-premises network** of each location. You need to configure the authentication method that will be used by the app to access the workspace. The solution must minimize the administrative effort associated with staff turnover and credential management. What should you configure?

~~A. a managed identity~~

B. a service principal

~~C. a personal access token~~



Azure Solutions Architect Expert - Part 10

Q70. Your company has the divisions shown in the following table.

Division	Azure Subscription	Entra Tenant
East	Sub1	Contoso.com
West	Sub2	Fabrikam.com

Sub1 contains an Azure App Service web app named App1. App1 uses Entra ID for single-tenant user authentication. Users from contoso.com can authenticate to App1. You need to recommend a solution to enable users in the fabrikam.com tenant to authenticate to App1. What should you recommend?

- A. Configure a Conditional Access policy.
- B. Use Entra ID entitlement management to govern external users.**
- C. Configure the Entra ID provisioning service.
- D. Configure Entra ID Identity Protection.

Azure Solutions Architect Expert - Part 10

- Q71. Your company has offices in New York City, Sydney, Paris, and Johannesburg. The company has an Azure subscription. You plan to deploy a new Azure networking solution that meets the following requirements:
- Connects to ExpressRoute circuits in the Azure regions of East US, Southeast Asia, North Europe, and South Africa
 - Minimizes latency by supporting connection in three regions
 - Supports Site-to-site VPN connections
 - Minimizes costs
- You need to identify the minimum number of Azure Virtual WAN hubs that you must deploy, and which virtual WAN SKU to use. What should you identify?

Number of Virtual WAN hubs :

- A. 1
- B. 2
- C. 3**
- D. 4



Azure Solutions Architect Expert - Part 10

- Q71. Your company has offices in New York City, Sydney, Paris, and Johannesburg. The company has an Azure subscription. You plan to deploy a new Azure networking solution that meets the following requirements:
- Connects to ExpressRoute circuits in the Azure regions of East US, Southeast Asia, North Europe, and South Africa
 - Minimizes latency by supporting connection in three regions
 - Supports Site-to-site VPN connections
 - Minimizes costs
- You need to identify the minimum number of Azure Virtual WAN hubs that you must deploy, and which virtual WAN SKU to use. What should you identify?

Virtual WAN SKU :

- A. Basic
- B. Standard**

<https://learn.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about>



Azure Solutions Architect Expert - Part 10



Q72. You need to design a highly available Azure SQL database that meets the following requirements:

- Failover between replicas of the database must occur without any data loss.
- The database must remain available in the event of a zone outage.
- Costs must be minimized.

Which deployment option should you use?

- A. Azure SQL Database Hyperscale
- B. Azure SQL Database Premium**
- C. Azure SQL Database Basic
- D. Azure SQL Database Serverless



Azure Solutions Architect Expert - Part 10



- Q73. You are developing a multi-tier app named App1 that will be hosted on Azure virtual machines. The peak utilization periods for App1 will be from 8 AM to 9 AM and 4 PM to 5 PM on weekdays. You need to deploy the infrastructure for App1. The solution must meet the following requirements:
- Support virtual machines deployed to four availability zones across two Azure regions.
 - Minimize costs by accumulating CPU credits during periods of low utilization.
- What is the minimum number of virtual networks you should deploy, and which virtual machine size should you use?

Number of virtual networks :

- A. 1
- B. 2**
- C. 3
- D. 4

Virtual Machine Size:

- A. A-Series
- B. B-Series**
- C. D-Series
- D. M-Series



Azure Solutions Architect Expert - Part 10

Q74. You have an on-premises Microsoft SQL server named SQL1 that hosts 50 databases. You plan to migrate SQL1 to Azure SQL Managed Instance. You need to perform an offline migration of SQL1. The solution must minimize administrative effort. What should you include in the solution?

- A. Azure Migrate
- B. Azure Database Migration Service**
- C. SQL Server Migration Assistant (SSMA)
- D. Data Migration Assistant (DMA)

<https://learn.microsoft.com/en-us/azure/dms/dms-overview>

Azure Solutions Architect Expert - Part 10

- Q75. You plan to deploy an infrastructure solution that will contain the following configurations:
- External users will access the infrastructure by using Azure Front Door.
 - External user access to the backend APIs hosted in Azure Kubernetes Service (AKS) will be controlled by using Azure API Management.
 - External users will be authenticated by an Entra ID B2C tenant that uses OpenID Connect-based federation with a third-party identity provider.
- Which function does each service provide?
Each function may be used once, more than once, or not at all.

Functions

Protection against Open Web Application Security Project (OWASP) vulnerabilities.

IP Filtering on a per API level

Validation of Azure B2C JSON Web Tokens (JWTs)

Front Door :

Protection against Open Web Application Security Project (OWASP) vulnerabilities.

API Management :

Validation of Azure B2C JSON Web Tokens (JWTs)



Azure Solutions Architect Expert - Part 10



Q76. Your on-premises datacenter contains a server that runs Linux and hosts a Java app named App1. App1 has the following characteristics:

- App1 is an interactive app that users access by using HTTPS connections.
- The number of connections to App1 changes significantly throughout the day.
- App1 runs multiple concurrent instances.
- App1 requires major changes to run in a container.

You plan to migrate App1 to Azure. You need to recommend a compute solution for App1. The solution must meet the following requirements:

- The solution must run multiple instances of App1.
- The number of instances must be managed automatically depending on the load.
- Administrative effort must be minimized.

What should you include in the recommendation?

~~A. Azure Batch~~

B. Azure App Service

~~C. Azure Kubernetes Service (AKS)~~

~~D. Azure Virtual Machine Scale Sets~~



Azure Solutions Architect Expert - Part 10

Q77. You have a Microsoft Entra tenant. You plan to deploy Azure Cosmos DB databases that will use the SQL API. You need to recommend a solution to provide specific Entra ID user accounts with read access to the Cosmos DB databases. What should you include in the recommendation?

- A. shared access signatures (SAS) and Conditional Access policies
- B. certificates and Azure Key Vault
- C. master keys and Azure Information Protection policies
- D. a resource token and an Access control (IAM) role assignment**

<https://learn.microsoft.com/en-us/previous-versions/azure/cosmos-db/how-to-use-resource-tokens?tabs=nosql>



Azure Solutions Architect Expert - Part 10

- Q78. You have an Azure subscription. Your on-premises network contains a file server named Server1. Server1 stores 5 TB of company files that are accessed rarely. You plan to copy the files to Azure Storage. You need to implement a storage solution for the files that meets the following requirements
- The files must be available within 24 hours of being requested.
 - Storage costs must be minimized.
- Which two possible storage solutions achieve this goal?

- A. Create an Azure Blob Storage account that is configured for the Cool default access tier. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.
- ~~B. Create a general-purpose v1 storage account. Create a blob container and copy the files to the blob container.~~
- ~~C. Create a general-purpose v2 storage account that is configured for the Cool default access tier. Create a file share in the storage account and copy the files to the file share.~~
- D. Create a general-purpose v2 storage account that is configured for the Hot default access tier. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.
- ~~E. Create a general-purpose v1 storage account. Create a file share in the storage account and copy the files to the file share.~~



Azure Solutions Architect Expert - Part 11

- Q79. You need to recommend a solution to integrate Azure Cosmos DB and Azure Synapse. The solution must meet the following requirements:
- Traffic from an Azure Synapse workspace to the Azure Cosmos DB account must be sent via the Microsoft backbone network.
 - Traffic from the Azure Synapse workspace to the Azure Cosmos DB account must NOT be routed over the internet.
 - Implementation effort must be minimized.
- What should you include in the recommendation?

When provisioning the Azure Synapse workspace :

- A. **Configure a dedicated managed virtual network**
- B. Disable public network access to the workspace endpoints
- C. Enable the use of the Entra ID authentication



Azure Solutions Architect Expert - Part 11



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 - Implementation effort must be minimized.
- What should you include in the recommendation?

When configuring the Azure Cosmos DB account, enable :

- A. Managed Private endpoints**
- B. Server-level firewall rules
- C. Service endpoint policies



Azure Solutions Architect Expert - Part 11

Q80. You have an on-premises datacenter named Site1. Site1 contains a VMware vSphere cluster named Cluster1 that hosts 100 virtual machines. Cluster1 is managed by using VMware vCenter. You have an Azure subscription named Sub1. You plan to migrate the virtual machines from Cluster1 to Sub1. You need to identify which resources are required to run the virtual machines in Azure. The solution must minimize administrative effort. What should you configure?

Resources :

An Azure Migrate appliance

An Azure Migrate Project

An Azure VMWare Solution private cloud

An Azure VMware Solution host

Sub1 :

An Azure Migrate Project

Cluster1:

An Azure Migrate Appliance



Azure Solutions Architect Expert - Part 11

Q81. 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 Log Analytics**
- B. Azure Arc
- C. Azure Analysis Services
- D. Azure Monitor action groups

<https://learn.microsoft.com/en-us/azure/azure-monitor/logs/log-analytics-overview>



Azure Solutions Architect Expert - Part 11

82. You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
contoso.com	Azure Private DNS Zone	None
VNet1	Virtual Network	Linked to contoso.com & Peered with VNet2
VNet2	Virtual Network	Linked to contoso.com & Peered with VNet1
VNet3	Virtual Network	Linked to contoso.com & Isolated from VNET1 & VNet2
Workspace1	Log Analytics workspace	Stores logs collected from the virtual machines on all the virtual networks

VNet1, VNet2, and VNet3 each has multiple virtual machines connected. The virtual machines use the Azure DNS service for name resolution. You need to recommend an Azure Monitor log routing solution that meets the following requirements:

- Ensures that the logs collected from the virtual machines and sent to Workspace1 are routed over the Microsoft backbone network
- Minimizes administrative effort

What should you include in the recommendation?

Minimum number of Azure Monitor Private Link Scope (AMPLS) Objects : Minimum number of Private endpoints:

- A. 1
- B. 2
- C. 3

- A. 1
- B. 2
- C. 3

Azure Solutions Architect Expert - Part 11

Q83. You have 100 Azure Storage accounts. Access to the accounts is restricted by using Azure role-based access control (Azure RBAC) assignments. You need to recommend a solution that uses role assignment conditions based on the tags assigned to individual resources within the storage accounts. What should you include in the recommendation?

Implement role assignment conditions by using :

- A. Access control lists (ACLs)
- B. Attribute-based access control (ABAC)**
- C. Shared access signatures (SAS)

Assign permissions to :

- A. Blobs**
- B. Files
- C. Tables

<https://learn.microsoft.com/en-us/azure/role-based-access-control/conditions-overview#example-scenarios-for-conditions>



Azure Solutions Architect Expert - Part 11

- Q84. You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:
- The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine.
 - Costs must be minimized.
- What should you include in the solution?

- ~~A. Azure Logic Apps in the Consumption plan~~
- B. Azure Functions in the Premium plan**
- ~~C. Azure Functions in the Consumption plan~~
- ~~D. Azure Logic Apps in the integrated service environment~~

<https://learn.microsoft.com/en-us/azure/azure-functions/functions-premium-plan?tabs=portal>

Azure Solutions Architect Expert - Part 11

- Q85. You plan to deploy 10 applications to Azure. The applications will be deployed to two Azure Kubernetes Service (AKS) clusters. Each cluster will be deployed to a separate Azure region. The application deployment must meet the following requirements:
- Ensure that the applications remain available if a single AKS cluster fails.
 - Ensure that the connection traffic over the internet is encrypted by using SSL without having to configure SSL on each container.
- Which service should you include in the recommendation?

- A. **Azure Front Door**
- B. Azure Traffic Manager
- C. AKS ingress controller
- D. Azure Load Balancer



Azure Solutions Architect Expert - Part 11

- Q86. You have five Azure subscriptions. Each subscription is linked to a separate Entra ID tenant and contains virtual machines that run Windows Server 2022. You plan to collect Windows security events from the virtual machines and send them to a single Log Analytics workspace. You need to recommend a solution that meets the following requirements:
- Collects event logs from multiple subscriptions.
 - Supports the use of data collection rules (DCRs) to define which events to collect.
- What should you recommend for each requirement?

To collect the event logs :

- A. Azure Event Grid
- B. Azure Lighthouse**
- C. Azure Purview

<https://learn.microsoft.com/en-us/azure/lighthouse/concepts/cross-tenant-management-experience>



Azure Solutions Architect Expert - Part 11

- Q86. You have five Azure subscriptions. Each subscription is linked to a separate Entra ID tenant and contains virtual machines that run Windows Server 2022. You plan to collect Windows security events from the virtual machines and send them to a single Log Analytics workspace. You need to recommend a solution that meets the following requirements:
- Collects event logs from multiple subscriptions.
 - Supports the use of data collection rules (DCRs) to define which events to collect.
- What should you recommend for each requirement?

To support the DCRs :

- A. The Log Analytics agent
- B. The Azure Monitor agent**
- C. The Azure Connected Machine agent

<https://learn.microsoft.com/en-us/azure/azure-monitor/agents/azure-monitor-agent-overview#data-collection>



Azure Solutions Architect Expert - Part 11

- Q87. You have an Azure subscription that contains multiple storage accounts. You assign Azure Policy definitions to the storage accounts. You need to recommend a solution to meet the following requirements:
- Trigger on-demand Azure Policy compliance scans.
 - Raise Azure Monitor non-compliance alerts by querying logs collected by Log Analytics.
- What should you recommend for each requirement?

To trigger the compliance scans, use :

- A. An Azure Template
- B. The Azure Command Line Interface (CLI)**
- C. The Azure Portal

<https://learn.microsoft.com/en-us/azure/governance/policy/how-to/get-compliance-data#on-demand-evaluation-scan>

Azure Solutions Architect Expert - Part 11

Q87. You have an Azure subscription that contains multiple storage accounts. You assign Azure Policy definitions to the storage accounts. You need to recommend a solution to meet the following requirements:

- Trigger on-demand Azure Policy compliance scans.
- Raise Azure Monitor non-compliance alerts by querying logs collected by Log Analytics.

What should you recommend for each requirement?

To generate the non-compliance alerts, configure diagnostic settings for the :

- A. **Azure Activity logs**
- B. Log Analytics workspace
- C. Storage accounts

Azure Solutions Architect Expert - Part 11

Q88. You need to recommend an Azure Storage solution that meets the following requirements::

- The storage must support 1 PB of data.
- The data must be stored in blob storage.
- The storage must support three levels of subfolders.
- The storage must support access control lists (ACLs).

What should you include in the recommendation?

~~A. a premium storage account that is configured for block blobs~~

B. a general purpose v2 storage account that has hierarchical namespace enabled

~~C. a premium storage account that is configured for page blobs~~

~~D. a premium storage account that is configured for file shares and supports large file shares~~

Azure Solutions Architect Expert - Part 12



Q89. You have the Azure subscriptions shown in the following table.

Name	Location	Entra ID Tenant
Sub1	East US	contoso.onmicrosoft.com
Sub2	East US	Contoso-recovery.onmicrosoft.com

Contoso.onmicrosoft.com contains a user named User1. You need to deploy a solution to protect against ransomware attacks. The solution must meet the following requirements:

- Ensure that all the resources in Sub1 are backed up by using Azure Backup.
- Require that User1 first be assigned a role for Sub2 before the user can make major changes to the backup configuration.

What should you create in each subscription?

Sub1 :

- A. A Recovery Services Vault**
- B. A Resource Guard
- C. An Azure Site Recovery Job
- D. Microsoft Azure Backup Server (MABS)

Sub2 :

- A. A Recovery Services Vault
- B. A Resource Guard**
- C. An Azure Site Recovery Job
- D. Microsoft Azure Backup Server (MABS)



Azure Solutions Architect Expert - Part 12

Q90. You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements::

- Provide access to the full .NET framework.
- Provide redundancy if an Azure region fails.
- Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy two Azure virtual machines to two Azure regions, and you create an Azure Traffic Manager profile.

Does this meet the goal?

A. Yes

B. No

Azure Solutions Architect Expert - Part 12



Q91. You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
VNet1	Virtual Network	None
LB1	Public Load Balancer	Includes a backend pool named BP1
VMSS1	Azure Virtual Machine Scale Sets	Included in BP1 and connected to VNet1
NVA1	Network Virtual Appliance	Connected to VNet1 and Performs security filtering of traffic for VMSS1
NVA2	Network Virtual Appliance	Connected to VNet1 and Performs security filtering of traffic for VMSS1

You need to recommend a load balancing solution that will distribute incoming traffic for VMSS1 across NVA1 and NVA2. The solution must minimize administrative effort. What should you include in the recommendation?

- A. Gateway Load Balancer
- B. Azure Front Door
- C. Azure Application Gateway
- D. Azure Traffic Manager



Azure Solutions Architect Expert - Part 12



- Q92. You are planning an Azure Storage solution for sensitive data. The data will be accessed daily. The dataset is less than 10 GB. You need to recommend a storage solution that meets the following requirements:
- All the data written to storage must be retained for five years.
 - Once the data is written, the data can only be read. Modifications and deletion must be prevented.
 - After five years, the data can be deleted, but never modified.
 - Data access charges must be minimized.
- What should you recommend?

Storage Account type :

- A. Premium Block Blobs
- B. General Purpose v2 with Cool access tier for blobs
- C. **General Purpose v2 with Hot access tier for blobs**



Azure Solutions Architect Expert - Part 12

- Q92. You are planning an Azure Storage solution for sensitive data. The data will be accessed daily. The dataset is less than 10 GB. You need to recommend a storage solution that meets the following requirements:
- All the data written to storage must be retained for five years.
 - Once the data is written, the data can only be read. Modifications and deletion must be prevented.
 - After five years, the data can be deleted, but never modified.
 - Data access charges must be minimized.
- What should you recommend?

Configuration to prevent modifications and deletions :

- A. Container access level
- B. Container access policy**
- C. Storage account resource lock

Azure Solutions Architect Expert - Part 12

1

- Q93. You have 10 on-premises servers that run Windows Server. You need to perform daily backups of the servers to a Recovery Services vault. The solution must meet the following requirements:
- Back up all the files and folders on the servers.
 - Maintain three copies of the backups in Azure.
 - Minimize costs.
- What should you configure?

On the Servers :

- A. The Azure Site Recovery Mobility service
- B. The Microsoft Azure Recovery Services (MARS) agent**
- C. Volume Shadow Copy Service (VSS)

For the Storage :

- A. Geo-redundant storage (GRS)
- B. Locally-redundant storage (LRS)**
- C. Zone-redundant storage (ZRS)

<https://learn.microsoft.com/en-us/azure/backup/install-mars-agent>

Azure Solutions Architect Expert - Part 12



- Q94. You plan to deploy a containerized web-app that will be hosted in five Azure Kubernetes Service (AKS) clusters. Each cluster will be hosted in a different Azure region. You need to provide access to the app from the internet. The solution must meet the following requirements:
- Incoming HTTPS requests must be routed to the cluster that has the lowest network latency.
 - HTTPS traffic to individual pods must be routed via an ingress controller.
 - In the event of an AKS cluster outage, failover time must be minimized.
- What should you include in the solution?

For Global Load Balancing :

- A. **Azure Front Door**
- B. Azure Traffic Manager
- C. Cross region load balancing in Azure
- D. Standard Load Balancer

As an ingress controller :

- A. **Azure Application Gateway**
- B. Azure Standard Load Balancer
- C. Basic Azure Load Balancer



Azure Solutions Architect Expert - Part 12

Q95. You have an Azure subscription. You create a storage account that will store documents. You need to configure the storage account to meet the following requirements:

- Ensure that retention policies are standardized across the subscription.
- Ensure that data can be purged if the data is copied to an unauthorized location.

Which two settings should you enable?

Recovery

- ✓ ☐ Enable operational backup with Azure Backup
- ✓ ☐ Enable point-in-time restore for containers
- ✓ ☐ Enable soft delete for blobs
- ✓ ☐ Enable soft delete for containers
- ✓ ☐ Enable permanent delete for soft deleted items

Tracking

- ✓ ☐ Enable versioning for blobs
- ✓ ☐ Enable blob change feed

Access control

- ✓ ☐ Enable version-level immutability support

Azure Solutions Architect Expert - Part 12

Q96. You have an Azure subscription. You are designing a solution for containerized apps. The solution must meet the following requirements:

- Automatically scale the apps by creating additional instances.
- Minimize administrative effort to maintain nodes and clusters.
- Ensure that containerized apps are highly available across multiple availability zones.
- Provide a central location for the lifecycle management and storage of container images.

What should you include in the solution?

To run the containerized apps :

- A. **Azure Container Apps**
- B. Azure Container Instances
- C. Azure Container Registry
- D. Azure Kubernetes Service (AKS)

For the lifecycle management and storage of container images :

- A. Azure Container Apps
- B. Azure Container Instances
- C. **Azure Container Registry**
- D. Azure Service Fabric

<https://learn.microsoft.com/en-us/azure/container-apps/overview#features>



Azure Solutions Architect Expert - Part 12

Q97. You plan to use Azure Storage to store data assets. You need to identify the procedure to fail over a general-purpose v2 account as part of a disaster recovery plan. The solution must meet the following requirements:

- Apps must be able to access the storage account after a failover.
- You must be able to fail back the storage account to the original location.
- Downtime must be minimized.

Which three actions should you perform in sequence?

Correct Sequence of required actions :-

- D. Before a failover, configure geo-redundant storage (GRS) replication for the storage account.
- B. Initiate a failover
- A. After a failover, configure geo-redundant storage (GRS) replication for the storage account.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-initiate-account-failover?tabs=azure-portal>



Azure Solutions Architect Expert - Part 12

Q98. You have the resources shown in the following table.

Name	Type
AS1	Azure Synapse Analytics instance
CDB1	Azure Cosmos DB for NoSQL account

CDB1 hosts a container that stores continuously updated operational data. You are designing a solution that will use AS1 to analyze the operational data daily. You need to recommend a solution to analyze the data without affecting the performance of the operational data store. What should you include in the recommendation?

- A. Azure Data Factory with Azure Cosmos DB and Azure Synapse Analytics connectors
- B. Azure Synapse Analytics with PolyBase data loading
- C. Azure Synapse Link for Azure Cosmos DB**
- D. Azure Cosmos DB change feed

<https://learn.microsoft.com/en-us/azure/cosmos-db/synapse-link>



Azure Solutions Architect Expert - Part 13



- Q99. You have an Azure subscription. The subscription contains an Azure SQL managed instance that stores employee details, including social security numbers and phone numbers. You need to configure the managed instance to meet the following requirements:
- The helpdesk team must see only the last four digits of an employee's phone number.
 - Cloud administrators must be prevented from seeing the employee's social security numbers.
- What should you enable for each column in the managed instance?

Phone numbers :

- A. Always encrypted
- B. Column encryption
- C. **Dynamic data masking**
- D. Transparent data encryption (TDE)

Social security numbers :

- A. **Always encrypted**
- B. Column encryption
- C. Dynamic data masking
- D. Transparent data encryption (TDE)

<https://learn.microsoft.com/en-us/azure/azure-sql/database/dynamic-data-masking-overview>



Azure Solutions Architect Expert - Part 13

Q100. You plan to use an Azure Storage account to store data assets. You need to recommend a solution that meets the following requirements:

- Supports immutable storage
- Disables anonymous access to the storage account
- Supports access control list (ACL)-based Entra ID permissions

What should you include in the recommendation?

- A. Azure Files
- B. Azure Data Lake Storage**
- C. Azure NetApp Files
- D. Azure Blob Storage

<https://learn.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-access-control>



Azure Solutions Architect Expert - Part 13



Q101. You plan to use Azure SQL as a database platform. You need to recommend an Azure SQL product and service tier that meets the following requirements:

- Automatically scales compute resources based on the workload demand
- Provides per second billing

What should you recommend?

Serverless

Azure SQL Product :

- A. **A Single Azure SQL database**
- B. An Azure SQL database elastic pool
- C. Azure SQL Managed instance

Service Tier:

- A. Basic
- B. Business Critical
- C. **General Purpose**
- D. Hyperscale
- E. Standard



Azure Solutions Architect Expert - Part 13



- Q102. You have an Azure subscription that contains a virtual network named VNET1 and 10 virtual machines. The virtual machines are connected to VNET1. You need to design a solution to manage the virtual machines from the internet. The solution must meet the following requirements:
- Incoming connections to the virtual machines must be authenticated by using Azure Multi-Factor Authentication (MFA) before network connectivity is allowed.
 - Incoming connections must use TLS and connect to TCP port 443.
 - The solution must support RDP and SSH.
- What should you include in the solution?

To provide access to virtual machines on VNET1, use :

- A. Azure Bastion
- B. Just-in-time (JIT) VM access
- C. Azure Web Application Firewall (WAF) in Azure Front Door



Azure Solutions Architect Expert - Part 13

- Q102. You have an Azure subscription that contains a virtual network named VNET1 and 10 virtual machines. The virtual machines are connected to VNET1. You need to design a solution to manage the virtual machines from the internet. The solution must meet the following requirements:
- Incoming connections to the virtual machines must be authenticated by using Azure Multi-Factor Authentication (MFA) before network connectivity is allowed.
 - Incoming connections must use TLS and connect to TCP port 443.
 - The solution must support RDP and SSH.
- What should you include in the solution?

To enforce Azure MFA, use :

- A. An Azure Identity Governance access package
- B. A Conditional Access policy that has the cloud apps assignment set to Azure Windows VM Sign-in**
- C. A Conditional Access policy that has the cloud apps assignment set to Microsoft Azure Management

<https://learn.microsoft.com/en-us/entra/identity/devices/howto-vm-sign-in-azure-ad-windows#enforce-conditional-access-policies>



Azure Solutions Architect Expert - Part 13

Q103. A company named DevopsHub Ltd. has an Entra ID tenant that is integrated with Microsoft 365 and an Azure subscription. DevopsHub has an on-premises identity infrastructure. The infrastructure includes servers that run Active Directory Domain Services (AD DS) and Entra Connect. DevopsHub has a partnership with a company named TechWithJaspal Inc. TechWithJaspal has an Active Directory forest and a Microsoft 365 tenant. TechWithJaspal has the same on-premises identity infrastructure components as DevopsHub. A team of 10 developers from TechWithJaspal will work on an Azure solution that will be hosted in the Azure subscription of DevopsHub. The developers must be added to the Contributor role for a resource group in the DevopsHub subscription. You need to recommend a solution to ensure that DevopsHub can assign the role to the 10 TechWithJaspal developers. The solution must ensure that the TechWithJaspal developers use their existing credentials to access resources. What should you recommend?

- A. In the Entra ID tenant of DevopsHub create cloud-only user accounts for the TechWithJaspal developers.
- B. Configure a forest trust between the on-premises Active Directory forests of DevopsHub and TechWithJaspal.
- C. Configure an organization relationship between the Microsoft 365 tenants of TechWithJaspal and DevopsHub.
- D. In the Entra ID tenant of DevopsHub, create guest accounts for the TechWithJaspal developers.



Azure Solutions Architect Expert - Part 13

Q104. You are designing a storage solution that will ingest, store, and analyze petabytes (PBs) of structured, semi-structured, and unstructured text data. The analyzed data will be offloaded to Azure Data Lake Storage Gen2 for long-term retention. You need to recommend a storage and analytics solution that meets the following requirements:

- Stores the processed data
- Provides interactive analytics
- Supports manual scaling, built-in autoscaling, and custom autoscaling

What should you include in the recommendation?

For storage and interactive analytics :

- A. **Azure Data Explorer**
- B. Azure Data Lake Analytics
- C. Log Analytics

Azure Solutions Architect Expert - Part 13



Q104. You are designing a storage solution that will ingest, store, and analyze petabytes (PBs) of structured, semi-structured, and unstructured text data. The analyzed data will be offloaded to Azure Data Lake Storage Gen2 for long-term retention. You need to recommend a storage and analytics solution that meets the following requirements:

- Stores the processed data
- Provides interactive analytics
- Supports manual scaling, built-in autoscaling, and custom autoscaling

What should you include in the recommendation?

Query language :

- A. KQL
- B. Transact-SQL
- C. U-SQL



Azure Solutions Architect Expert - Part 13

Q105. You are designing a cost-optimized solution that uses Azure Batch to run two types of jobs on Linux nodes. The first job type will consist of short-running tasks for a development environment. The second job type will consist of long-running Message Passing Interface (MPI) applications for a production environment that requires timely job completion. You need to recommend the pool type and node type for each job type. The solution must minimize compute charges and leverage Azure Hybrid Benefit whenever possible. What should you recommend?

First Job :

- A. Batch service and dedicated virtual machines
- B. User subscription and dedicated virtual machines
- C. **User subscription and Spot virtual machines**

Azure Solutions Architect Expert - Part 13



Q105. You are designing a cost-optimized solution that uses Azure Batch to run two types of jobs on Linux nodes. The first job type will consist of short-running tasks for a development environment. The second job type will consist of long-running Message Passing Interface (MPI) applications for a production environment that requires timely job completion. You need to recommend the pool type and node type for each job type. The solution must minimize compute charges and leverage Azure Hybrid Benefit whenever possible. What should you recommend?

Second Job :

- A. Batch service and dedicated virtual machines
- B. User subscription and dedicated virtual machines**
- C. User subscription and Spot virtual machines



Azure Solutions Architect Expert - Part 13



Q106. Your on-premises network contains an Active Directory Domain Services (AD DS) domain. The domain contains a server named Server1. Server1 contains an app named App1 that uses AD DS authentication. Remote users access App1 by using a VPN connection to the on-premises network. You have an Entra ID tenant that syncs with the AD DS domain by using Entra Connect. You need to ensure that the remote users can access App1 without using a VPN. The solution must meet the following requirements:

- Ensure that the users authenticate by using Azure Multi-Factor Authentication (MFA).
- Minimize administrative effort.

What should you include in the solution?

In Entra ID :

- A. A Managed Identity
- B. An Access package
- C. An App registration
- D. An Enterprise application**



Azure Solutions Architect Expert - Part 13



- Q106. Your on-premises network contains an Active Directory Domain Services (AD DS) domain. The domain contains a server named Server1. Server1 contains an app named App1 that uses AD DS authentication. Remote users access App1 by using a VPN connection to the on-premises network. You have an Entra ID tenant that syncs with the AD DS domain by using Entra Connect. You need to ensure that the remote users can access App1 without using a VPN. The solution must meet the following requirements:
- Ensure that the users authenticate by using Azure Multi-Factor Authentication (MFA).
 - Minimize administrative effort.
- What should you include in the solution?

On-premises :

- A. A server that runs windows server and has the Entra ID Application proxy connector installed.
- B. A server that runs windows server and has the on-premises data gateway installed.
- C. A server that runs windows server and has Web application proxy role service installed.



Azure Solutions Architect Expert - Part 13



Q107. You are building an Azure web app that will store the Personally Identifiable Information (PII) of employees. You need to recommend an Azure SQL Database solution for the web app. The solution must meet the following requirements:

- Maintain availability in the event of a single datacenter outage.
- Support the encryption of specific columns that contain PII.
- Automatically scale up during payroll operations.
- Minimize costs.

What should you include in the recommendations?

Service Tier and Compute Tier :

- A. Business Critical service tier and serverless compute Tier
- B. General Purpose service tier and serverless compute Tier**
- C. Hyperscale service tier and provisioned compute Tier



Azure Solutions Architect Expert - Part 13

Q107. You are building an Azure web app that will store the Personally Identifiable Information (PII) of employees. You need to recommend an Azure SQL Database solution for the web app. The solution must meet the following requirements:

- Maintain availability in the event of a single datacenter outage.
- Support the encryption of specific columns that contain PII.
- Automatically scale up during payroll operations.
- Minimize costs.

What should you include in the recommendations?

Encryption method:

- A. **Always Encrypted**
- B. Microsoft SQL Server and database encryption keys
- C. Transparent Data Encryption (TDE)

Azure Solutions Architect Expert - Part 14

- Q108. Your company has 20 web APIs that were developed in-house. The company is developing 10 web apps that will use the web APIs. The web apps and the APIs are registered in the company's Entra ID tenant. The web APIs are published by using Azure API Management. You need to recommend a solution to block unauthorized requests originating from the web apps from reaching the web APIs. The solution must meet the following requirements:
- Use Entra ID generated claims.
 - Minimize configuration and management effort.
- What should you include in the recommendations?

Grant permissions to allow the web apps to access the web APIs by using:

- A. **Entra ID**
- B. Azure API Management
- C. The Web APIs

Configure a JSON Web Token (JWT) validation policy by using:

- A. Entra ID
- B. **Azure API Management**
- C. The Web APIs

Azure Solutions Architect Expert - Part 14

Q109. Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases. The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region. You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using an Azure Policy initiative to enforce the location of resource groups. Does this meet the goal?

A. Yes

B. No

Azure Solutions Architect Expert - Part 14

Q110. You have an Azure subscription named Subscription1 that is linked to a hybrid Microsoft Entra tenant. You have an on-premises datacenter that does NOT have a VPN connection to Subscription1. The datacenter contains a computer named Server1 that has Microsoft SQL Server 2022 installed. Server is prevented from accessing the internet. An Azure logic app resource named LogicApp1 requires write access to a database on Server1. You need to recommend a solution to provide LogicApp1 with the ability to access Server1. What should you recommend deploying on-premises and in Azure?

On-Premises :

- A. A Web application Proxy for windows server
- B. An Entra ID Application proxy connector
- C. An On-Premises data gateway**
- D. Hybrid Connection Manager

<https://learn.microsoft.com/en-us/data-integration/gateway/service-gateway-onprem>



Azure Solutions Architect Expert - Part 14

Q110. You have an Azure subscription named Subscription1 that is linked to a hybrid Microsoft Entra tenant. You have an on-premises datacenter that does NOT have a VPN connection to Subscription1. The datacenter contains a computer named Server1 that has Microsoft SQL Server 2022 installed. Server is prevented from accessing the internet. An Azure logic app resource named LogicApp1 requires write access to a database on Server1. You need to recommend a solution to provide LogicApp1 with the ability to access Server1. What should you recommend deploying on-premises and in Azure?

Azure :

- A. A connection gateway resource
- B. An Azure application gateway
- C. An Azure event grid domain
- D. An enterprise application

<https://learn.microsoft.com/en-us/azure/logic-apps/connect-on-premises-data-sources>



Azure Solutions Architect Expert - Part 14

Q111. You manage a database environment for a Microsoft Volume Licensing customer named TechWithJaspal, Ltd. TechWithJaspal uses License Mobility through Software Assurance. You need to deploy 50 databases. The solution must meet the following requirements:

- Support automatic scaling.
- Minimize Microsoft SQL Server licensing costs.

What should you include in the solution?

Purchase model :

- A. DTU
- B. vCore**
- C. Azure reserved virtual machine instances

Azure Solutions Architect Expert - Part 14

Q111. You manage a database environment for a Microsoft Volume Licensing customer named TechWithJaspal, Ltd. TechWithJaspal uses License Mobility through Software Assurance. You need to deploy 50 databases. The solution must meet the following requirements:

- Support automatic scaling.
- Minimize Microsoft SQL Server licensing costs.

What should you include in the solution?

Deployment option :

- A. An Azure SQL managed instance
- B. An Azure SQL Database elastic pool**
- C. A SQL Server Always On availability group

Azure Solutions Architect Expert - Part 14

Q112. You have an Azure subscription that contains the resources shown in the following table:

Name	Type	Description
App1	Azure App Service App	None
Workspace1	Log Analytics workspace	Configured to use a pay-as-you-go pricing tier
App1Logs	Log Analytics table	Hosted in workspace1 Configured to use the Analytics Logs data plan

Log files from App1 are registered to App1Logs. An average of 120 GB of log data is ingested per day. You configure an Azure Monitor alert that will be triggered if the App1 logs contain error messages. You need to minimize the Log Analytics costs associated with App1. The solution must meet the following requirements:

- Ensure that all the log files from App1 are ingested to App1Logs.
- Minimize the impact on the Azure Monitor alert.

Which resource should you modify, and which modification should you perform?

Resource :

- A. App1
- B. AppLogs
- C. **Workspace1**

Modification :

- A. **Change to a commitment pricing tier.**
- B. Change to the Basic Logs data plan.
- C. Set a daily cap.

Azure Solutions Architect Expert - Part 14

1

Q113. You have an on-premises line-of-business (LOB) application that uses a Microsoft SQL Server instance as the backend. You plan to migrate the on-premises SQL Server instance to Azure virtual machines. You need to recommend a highly available SQL Server deployment that meets the following requirements:

- Minimizes costs
 - Minimizes failover time if a single server fails
- What should you include in the recommendation?

- A. an Always On availability group that has premium storage disks and a virtual network name (VNN)
- B. an Always On Failover Cluster Instance that has a virtual network name (VNN) and a standard file share**
- C. an Always On availability group that has premium storage disks and a distributed network name (DNN)
- D. an Always On Failover Cluster Instance that has a virtual network name (VNN) and a premium file share

Azure Solutions Architect Expert - Part 14



Q114. You plan to develop a new app that will store business critical data. The app must meet the following requirements:

- Prevent new data from being modified for one year.
- Maximize data resiliency.
- Minimize read latency.

What storage solution should you recommend for the app?

Storage Account Type :

- A. Premium Block Blobs
- B. Standard General Purpose v1
- C. Standard General Purpose v2

Redundancy :

- A. Zone-redundant storage (ZRS)
- B. Locally-redundant storage (LRS)



Azure Solutions Architect Expert - Part 14



Q115. You have two on-premises Microsoft SQL Server 2017 instances that host an Always On availability group named AG1. AG1 contains a single database named DB1. You have an Azure subscription that contains a virtual machine named VM1. VM1 runs Linux and contains a SQL Server 2022 instance. You need to migrate DB1 to VM1. The solution must minimize downtime on DB1. What should you do?

Prepare for the migration by :

- A. Adding a secondary replica to AG1
- B. Creating an Always On availability group on VM1
- C. Upgrading the on-premises SQL Server instances

Perform the migration by using :

- A. A distributed Availability Group
- B. Azure Migrate
- C. Log shipping



Azure Solutions Architect Expert - Part 14

Q116. You have two app registrations named App1 and App2 in Entra ID. App1 supports role-based access control (RBAC) and includes a role named Writer. You need to ensure that when App2 authenticates to access App1, the tokens issued by Entra ID include the Writer role claim. Which blade should you use to modify each app registration? To answer, drag the appropriate blades to the correct app registrations. Each blade may be used once, more than once, or not at all.

Blades

API Permissions

App Roles

Token Configuration

App1 : App Roles

App2 : API Permissions



Azure Solutions Architect Expert - Part 14

Q117. Your company has an existing web app that runs on Azure virtual machines. You need to ensure that the app is protected from SQL injection attempts and uses a layer-7 load balancer. The solution must minimize disruptions to the code of the app. What should you recommend? To answer, drag the appropriate services to the correct targets. Each service may be used once, more than once, or not at all.

Services

Web Application Firewall (WAF)

Azure Application Gateway

Azure Load Balancer

Azure Traffic Manager

SSL Offloading

URL based content routing

Azure Service :

Azure Application Gateway

Feature :

Web Application Firewall (WAF)

