Advanced Multiple Choice Questions: Part 2 - Results

Back to result overview

Attempt 1

All domains

35 all | 0 correct | 0 incorrect | 35 skipped | 0 marked

Collapse all questions

Question 1 Skipped

Your company has the infrastructure shown in the following table.

Location	Resource
Azure	• Azure subscription named Subscription1 • 20 Azure web apps
On-premises datacenter	• Active Directory domain • Server running Azure AD Connect • Linux computer named Server1

The on-premises Active Directory domain syncs with Azure Active Directory (Azure AD).

Server1 runs an application named App1 that uses LDAP queries to verify user identities in the on-premises Active Directory domain.

You plan to migrate Server1 to a virtual machine in Subscription1.

A company security policy states that the virtual machines and services deployed to Subscription1 must be prevented from accessing the on-premises network.

You need to recommend a solution to ensure that App1 continues to function after the migration. The solution must meet the security policy.

What should you include in the recommendation?

an Azure VPN gateway

Correct answer

Azure AD Domain Services (Azure AD DS)

the Active Directory Domain Services role on a virtual machine

Azure AD Application Proxy

Overall explanation

Azure Active Directory Domain Services (Azure AD DS) provides managed domain services such as domain join, group policy, lightweight directory access protocol (LDAP), and Kerberos/NTLM authentication.

https://docs.microsoft.com/en-us/azure/active-directory-domain-services/overview

Question 2 Skipped

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?

Correct answer

Implement Geo-redundant backup.

Create a read replica.

Store the database files in Azure premium file shares.

Configure native MySQL replication.

Overall explanation

High availability seems only avaliable in the same zone.

https://learn.microsoft.com/en-us/azure/mysql/flexible-server/concepts-high-availability

To failover to another region, you would use a geo-redunant backup

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

Question 3 Skipped

You have an on-premises storage solution.

You need to migrate the solution to Azure. The solution must support Hadoop Distributed File System (HDFS).

What should you use?

Correct answer

Azure Data Lake Storage Gen2

Azure Table storage

Azure Data Share

Azure NetApp Files

Overall explanation

Azure Data Lake Storage Gen2 is the best choice for migrating your on-premises storage solution to Azure with support for Hadoop Distributed File System (HDFS). It is a highly scalable and cost-effective storage service designed for big data analytics, providing integration with Azure HDInsight, Azure Databricks, and other Azure services. It is built on Azure Blob Storage and combines the advantages of HDFS with Blob Storage, offering a hierarchical file system, fine-grained security, and high-performance analytics.

https://learn.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-introduction

Question 4 Skipped

You have the Azure resources shown in the following table.

Name	Type	Location
US-Central-Firewall-policy	Azure Firewall policy	Central US
US-East-Firewall-policy	Azure Firewall policy	East US
EU-Firewall-policy	Azure Firewall policy	West Europe
USEastfirewall	Azure Firewall	Central US
USWestfirewall	Azure Firewall	East US
EUFirewall	Azure Firewall	West Europe

You need to deploy a new Azure Firewall policy that will contain mandatory rules for all Azure Firewall deployments. The new policy will be configured as a parent policy for the existing policies.

What is the minimum number of additional Azure Firewall policies you should create?

1

Correct answer

3

0

2

Overall explanation

- Firewall policies work across regions and subscriptions.
- Place all your global configurations in the parent policy.
- The parent policy is required to be in the same region as the child policy.

- Each of the three regions must have a new parent policy.

https://docs.microsoft.com/en-us/azure/firewall-manager/overview

Question 5 Skipped

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 the 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?

Log Analytics Workspace insights

Container insights

Network insights

Correct answer

Application Insights

Overall explanation

Application Insights is a feature of Azure Monitor that provides deep insights into your application. It supports synthetic transaction monitoring, which allows you to create tests that simulate user interactions with your app to monitor its availability and performance.

Minimize Development Effort:

Application Insights integrates seamlessly with Azure services and requires minimal configuration to start collecting telemetry data, making it the best choice to meet the requirements with minimal development effort.

Question 6 Skipped

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?

an Azure Functions app

Correct answer

an Azure App Service web app

an App Service Environment (ASE)

an Azure virtual machine scale set

Overall explanation

Azure Web App meets the requirements and is less expansive compared to VM scale sets.

https://docs.microsoft.com/es-es/azure/app-service/troubleshoot-diagnostic-logs

Question 7 Skipped

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?

Correct answer

two databases on the same Azure SQL-managed instance

two databases on the same SQL Server instance on an Azure virtual machine

two Azure SQL databases in an elastic pool

two Azure SQL databases on different Azure SQL Database servers

Overall explanation

Elastic database transactions for Azure SQL Database and Azure SQL Managed Instance allow you to run transactions that span several databases. SQL Managed Instance

enables system administrators to spend less time on administrative tasks because the service either performs them for you or greatly simplifies those tasks.

https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-transactions-overview

Question 8 Skipped

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear on the review screen.

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 a web app in an Isolated App Service plan.

Does this meet the goal?

Correct answer

No

Yes

Overall explanation

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

Note: Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions while providing high availability and responsiveness.

https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview

Question 9 Skipped

Your company has an app named App1 that uses data from the on-premises Microsoft SQL Server databases shown in the following table.

Name	Size
DB1	400 GB
DB2	250 GB
DB3	300 GB
DB4	50 GB

App1 and the data are used on the first day of the month only. The data is not expected to grow more than 3 percent each year.

The company is rewriting App1 as an Azure web app and plans to migrate all the data to Azure.

You need to migrate the data to Azure SQL Database and ensure that the database is only available on the first day of each month.

Which service tier should you use?

DTU-based Standard

Correct answer

vCore-based General Purpose

vCore-based Business Critical

DTU-based Basic

Overall explanation

Note: App1 and the data are used on the first day of the month only. See the Serverless compute tier below.

The vCore-based purchasing model.

The term vCore refers to the Virtual Core. In this purchasing model of Azure SQL Database, you can choose from the provisioned compute tier and serverless compute tier.

- **Provisioned compute tier:** You choose the exact compute resources for the workload.
- **Serverless compute tier:** Azure automatically pauses and resumes the database based on workload activity in the serverless tier. During the pause period, Azure does not charge you for the compute resources.

https://www.sqlshack.com/dtu-and-vcore-based-models-for-azure-sql-databases/

Question 10 Skipped

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?

Azure SQL Database Serverless

Correct answer

Azure SQL Database Business Critical

Azure SQL Database Basic

Azure SQL Database Standard

Overall explanation

Zone-redundant configuration is currently in preview for SQL Managed Instance, and only available for the Business Critical service tier.

https://learn.microsoft.com/en-us/azure/azure-sql/database/high-availability-sla

Question 11 Skipped

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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 an Azure virtual machine scale set that uses autoscaling.

Does this meet the goal?

Yes

Correct answer

No

Overall explanation

Instead, you should deploy two Azure virtual machines to two Azure regions, and create a Traffic Manager profile.

Note: Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions while providing high availability and responsiveness.

https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview

Question 12 Skipped

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?

Correct answer

Azure Cosmos DB SQL API

Azure SQL Database that uses active geo-replication

Azure SQL Database Hyperscale

Azure Database for PostgreSQL

Overall explanation

With Cosmos DB's novel multi-region (multi-master) writes replication protocol, every region supports both writes and reads. The multi-region writes capability also enables:

- Unlimited elastic write and read scalability.
- 99.999% read and write availability all around the world.
- Guaranteed reads and writes served in less than 10 milliseconds at the 99th percentile.

https://docs.microsoft.com/en-us/azure/cosmos-db/distribute-data-globally

Question 13 Skipped

You are designing an app that will use Azure Cosmos DB to collate sales from multiple countries.

You need to recommend an API for the app. The solution must meet the following requirements:

- Support SQL queries.
- Support geo-replication.
- Store and access data relationally.

Which API should you recommend?

Apache Cassandra

MongoDB

Correct answer

PostgreSQL

NoSQL

Overall explanation

Azure Cosmos DB provides support for multiple APIs, each tailored to different data models and query languages. The PostgreSQL API is well-suited for applications that require relational data storage and the ability to execute SQL queries. It offers compatibility with the PostgreSQL wire protocol and supports standard SQL syntax, allowing you to leverage your existing SQL skills and tools.

Additionally, the PostgreSQL API in Azure Cosmos DB provides built-in support for geo-replication, allowing you to replicate your data across multiple regions for high availability and disaster recovery purposes. This ensures that your data is accessible and resilient even in the event of a regional outage or failure.

Therefore, the recommended API for Azure Cosmos DB in this scenario is the PostgreSQL API.

https://learn.microsoft.com/en-us/azure/cosmos-db/choose-api

Question 14 Skipped

You store web access logs data in Azure Blob Storage.

You plan to generate monthly reports from the access logs.

You need to recommend an automated process to upload the data to Azure SQL Database every month.

What should you include in the recommendation?

AzCopy

Data Migration Assistant (DMA)

Correct answer

Azure Data Factory

Microsoft SQL Server Migration Assistant (SSMA)

Overall explanation

You can create Data Factory pipelines that copy data from Azure Blob Storage to Azure SQL Database. The configuration pattern applies to copying from a file-based data store to a relational data store.

Required steps:

- Create a data factory.
- Create Azure Storage and Azure SQL Database linked services.
- Create Azure Blob and Azure SQL Database datasets.
- Create a pipeline containing a Copy activity.
- Start a pipeline run.
- Monitor the pipeline and activity runs.

https://docs.microsoft.com/en-us/azure/data-factory/tutorial-copy-data-dot-net

Question 15 Skipped

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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 deploy an Azure Application Gateway.

Does this meet the goal?

Yes

Correct answer

No

Overall explanation

App Gateway will balance the traffic between VMs deployed in the same region. Create an Azure Traffic Manager profile instead.

https://docs.microsoft.com/en-us/azure/application-gateway/overview

Question 16 Skipped

You have SQL Server on an Azure virtual machine. The databases are written to 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?

Correct answer

Azure Site Recovery

Azure Disk Backup

Azure virtual machine availability sets

an Always On availability group

Overall explanation

Replication with Azure Site Recover:

- RTO is typically less than 15 minutes.
- RPO: One hour for application consistency and five minutes for crash consistency.

https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-sql

Question 17 Skipped

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 West 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?

Correct answer

Azure Front Door Premium

Azure Application Gateway v2

Azure Firewall Premium

a cross-region load balancer

Overall explanation

Azure Front Door Premium now supports Private Link, which enables private connectivity from a virtual network to a service running in Azure. This feature can be used to connect to services across regions privately, so this should work for your use case where VM2 is in East US and VM3 is in West US. Here is how it could work: Azure Front Door Premium could be set up with Private Link to create a private endpoint in a regional network. This network can route traffic to VM2 and VM3 through the private link over the Microsoft backbone network, without exposure to the public internet. When one VM fails, Azure Front Door can automatically route the traffic to the other VM, maintaining the availability of your application.

https://learn.microsoft.com/en-us/azure/frontdoor/front-door-faq

Question 18 Skipped

You have an Azure Functions microservice app named App1 that is hosted in the Consumption plan. App1 uses an Azure Queue Storage trigger.

You plan to migrate App1 to an Azure Kubernetes Service (AKS) cluster.

You need to prepare the AKS cluster to support App1. The solution must meet the following requirements:

- Use the same scaling mechanism as the current deployment.
- Support kubenet and Azure Container Networking Interface (CNI) networking.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

Configure the AKS Cluster Autoscaler.

Install Virtual Kubelet.

Correct selection

Configure the Horizontal Pod Autoscaler.

Configure the virtual node add-on.

Correct selection

Install Kubernetes-based Event Driven Autoscaling (KEDA).

Overall explanation

Kubernetes uses the Horizontal Pod Autoscaler (HPA) to monitor the resource demand and automatically scale the number of replicas. By default, the Horizontal Pod Autoscaler checks the Metrics API every 15 seconds for any required changes in replica count, but the Metrics API retrieves data from the Kubelet every 60 seconds. Effectively, the HPA is updated every 60 seconds. When changes are required, the number of replicas is increased or decreased accordingly. Horizontal Pod Autoscaler works with AKS clusters that have deployed the Metrics Server for Kubernetes 1.8+.

https://learn.microsoft.com/en-us/azure/aks/concepts-scale

Kubernetes Event-driven Autoscaling (KEDA) is a single-purpose and lightweight component that strives to make application autoscaling simple and is a CNCF Incubation project. It applies event-driven autoscaling to scale your application to meet demand in a sustainable and cost-efficient manner with scale-to-zero.

https://learn.microsoft.com/en-us/azure/aks/keda-about

Question 19 Skipped

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?

Azure Load Balancer

AKS ingress controller

Azure Traffic Manager

Correct answer

Azure Front Door

Overall explanation

Azure Front Door supports SSL. Azure Front Door, which focuses on global load-balancing and site acceleration, and Azure CDN Standard, which offers static content caching and acceleration. The new Azure Front Door brings together security with CDN technology for a cloud-based CDN with threat protection and additional capabilities.

https://docs.microsoft.com/en-us/azure/frontdoor/front-door-overview

Question 20 Skipped

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 premium storage account that is configured for block blobs

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

a premium storage account that is configured for page blobs

Correct answer

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

Overall explanation

Default limits for Azure general-purpose v2 (GPv2), general-purpose v1 (GPv1), and Blob storage accounts include:

- Default maximum storage account capacity: 5 PiB

Blob storage supports Azure Data Lake Storage Gen2, Microsoft's enterprise big data analytics solution for the cloud. Azure Data Lake Storage Gen2 offers a hierarchical file system as well as the advantages of Blob storage.

Blob storage supports Azure Data Lake Storage Gen2, Microsoft's enterprise big data analytics solution for the cloud. Azure Data Lake Storage Gen2 offers a hierarchical file system as well as the advantages of Blob storage.

https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blobs-introduction

https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/azure-subscription-service-limits

Question 21 Skipped

You have an app named App1 that uses an on-premises Microsoft SQL Server database named DB1.

You plan to migrate DB1 to an Azure SQL-managed instance.

You need to enable customer-managed Transparent Data Encryption (TDE) for the instance. The solution must maximize encryption strength.

Which type of encryption algorithm and key length should you use for the TDE protector?

Correct answer

RSA 3072

AES 256

RSA 4096

RSA 2048

Overall explanation

RSA 3072 provides a higher level of encryption strength compared to RSA 2048. While RSA 4096 offers even stronger encryption, it is not supported by Azure SQL Database and Azure SQL Managed Instance for TDE protectors. By choosing RSA 3072 for the TDE protector, you ensure strong encryption for your Azure SQL Managed Instance while complying with the platform's requirements. This will help protect sensitive data and maintain compliance with relevant security standards and regulations.

https://learn.microsoft.com/en-us/azure/azure-sql/database/transparent-data-encryption-byok-overview

Question 22 Skipped

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 Recovery Services vault and Windows Server Backup

a Recovery Services vault and Azure Backup

Azure blob containers and Azure File Sync

Correct answer

an Azure file share and Azure File Sync

Overall explanation

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share.

https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide

Question 23 Skipped

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?

Azure Pipelines and Azure Service Fabric

Azure Logic Apps and Azure Event Grid

Correct answer

Azure Logic Apps and Azure Functions

Azure Functions and Azure Batch

Overall explanation

You can schedule a Powershell script with Azure Logic Apps.

When you want to run code that performs a specific job in your logic apps, you can create your own function by using Azure Functions. This service helps you create Node.js, C#, and F# functions so you don't have to build a complete app or infrastructure to run code. You can also call logic apps from inside Azure functions.

https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-azure-functions

Question 24 Skipped

You are designing an application that will aggregate content for users.

You need to recommend a database solution for the application. The solution must meet the following requirements:

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

What should you include in the recommendation?

Azure SQL Database Hyperscale

Azure SQL Database that uses active geo-replication

Correct answer

Azure Cosmos DB for NoSQL

Azure Cosmos DB for PostgreSQL

Overall explanation

Azure Cosmos DB is a globally distributed, multi-model database service that supports SQL commands, and multi-master writes and guarantees low-latency read operations. It supports a variety of NoSQL data models including document, key-value, graph, and column family. Azure Cosmos DB provides automatic and instant scalability, high availability, and low latency globally by replicating and synchronizing data across multiple Azure regions. On the other hand, Azure SQL Database and Azure SQL Database Hyperscale are traditional relational database services that do not natively support multi-master writes.

https://learn.microsoft.com/en-us/azure/cosmos-db/introduction

Question 25 Skipped

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?

Azure Logic Apps in the Consumption Plan

Azure Functions in the Consumption Plan

Azure Logic Apps in the integrated service environment

Correct answer

Azure Functions in the Premium Plan

Overall explanation

Virtual connectivity is included in the Premium plan.

https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale

Question 26 Skipped

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?

Azure Traffic Manager

Azure Service Fabric

Azure Data Lake

Correct answer

Azure Service Bus

Overall explanation

Asynchronous messaging options in Azure include Azure Service Bus, Event Grid, and Event Hubs.

https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/messaging

Question 27 Skipped

You have an Azure subscription.

Your on-premises network contains a file server named Server1. Server1 stores 500 GB 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 meet 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? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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.

Create a general-purpose v1 storage account. Create a blob container and copy the files to the blob container.

Correct selection

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.

Correct selection

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.

Create a general-purpose v1 storage account. Create a fie share in the storage account and copy the files to the file share.

Overall explanation

To minimize costs: The Archive tier is optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements (on the order of hours).

https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers

Question 28 Skipped

You are planning an Azure IoT Hub solution that will include 50,000 IoT devices.

Each device will stream data, including temperature, device ID, and time data. Approximately 50,000 records will be written every second. The data will be visualized in near real-time.

You need to recommend a service to store and query the data.

Which two services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

Correct selection

Azure Cosmos DB for NoSQL

Azure Event Grid

Correct selection

Azure Time Series Insights

Azure Table Storage

Overall explanation

- Azure Cosmos DB for NoSQL is a globally distributed, multi-model database service that can handle large amounts of data with low latency and high throughput. Its support for various consistency levels and partitioning strategies makes it suitable for handling IoT data at scale.

https://learn.microsoft.com/en-us/azure/cosmos-db/introduction

- Azure Time Series Insights is a fully managed, real-time analytics service specifically designed for time-series data generated by IoT devices. It provides storage, visualization, and advanced querying capabilities for time-series data, making it an ideal choice for handling data from a large number of IoT devices and visualizing it in near real time.

https://learn.microsoft.com/en-us/azure/time-series-insights/time-series-insights-explorer

Question 29 Skipped

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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?

No

Correct answer

Yes

Overall explanation

Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions while providing high availability and responsiveness.

https://learn.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview

Question 30 Skipped

You have an Azure subscription that contains a Basic Azure virtual WAN named VirtualWAN1 and the virtual hubs shown in the following table.

Name	Location
Hub1	US East
Hub2	US West

You have an ExpressRoute circuit in the US East Azure region.

You need to create an ExpressRoute association with VirtualWAN1.

What should you do first?

Enable the ExpressRoute premium add-on.

Create a gateway on Hub1.

Correct answer

Upgrade VirtualWAN1 to Standard.

Create a hub virtual network in US East.

Overall explanation

A basic Azure virtual WAN does not support express route. You have to upgrade to standard.

https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about

Question 31 Skipped

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?

Azure SQL Database Basic

Azure SQL Managed Instance General Purpose

Correct answer

Azure SQL Database Premium

Azure SQL Database Hyperscale

Overall explanation

Azure SQL Database Premium tier supports multiple redundant replicas for each database that are automatically provisioned in the same data center within a region. This design leverages the SQL Server AlwaysON technology and provides resilience to server failures with 99.99% availability SLA and RPO=0.

https://azure.microsoft.com/en-us/blog/azure-sql-database-now-offers-zone-redundant-premium-databases-and-elastic-pools/

Question 32 Skipped

Your company has offices in North America and Europe.

You plan to migrate to Azure.

You need to recommend a networking solution for the new Azure infrastructure. The solution must meet the following requirements:

- The Point-to-Site (P2S) VPN connections of mobile users must connect automatically to the closest Azure region.

- The offices in each region must connect to their local Azure region by using an ExpressRoute circuit.
- Transitive routing between virtual networks and on-premises networks must be supported.
- The network traffic between virtual networks must be filtered by using FQDNs.

What should you include in the recommendation?

Azure Route Server and Azure Network Function Manager

Correct answer

Azure Virtual WAN with a Secured Virtual Hub

Virtual Network Peering and Application Security Groups

Virtual Network Gateways and Network Security Groups (NSGs)

Overall explanation

Azure Virtual WAN with a Secured Virtual Hub, is the best recommendation for this scenario as it allows for automatic connection of mobile users to the closest Azure region, connection of offices to their local Azure region via ExpressRoute circuits, support for transitive routing, and filtering of network traffic between virtual networks by using FQDNs.

https://learn.microsoft.com/en-us/azure/firewall-manager/secured-virtual-hub

Question 33 Skipped

You plan to migrate on-premises MySQL databases to Azure Database for MySQL Flexible Server.

You need to recommend a solution for the Azure Database for MySQL Flexible Server configuration. The solution must meet the following requirements:

- The databases must be accessible if a data center fails.
- Costs must be minimized.

Which compute tier should you recommend?

Memory Optimized

Correct answer

General Purpose

Burstable

Overall explanation

The General Purpose compute tier provides a balance between performance and cost. It is suitable for most common workloads and offers a good combination of CPU and memory resources. It provides high availability and fault tolerance by utilizing Azure's infrastructure across multiple data centers. This ensures that the databases remain accessible even if a data center fails.

https://learn.microsoft.com/en-us/azure/mysql/flexible-server/concepts-high-availability

Question 34 Skipped

You are planning an Azure IoT Hub solution that will include 50,000 IoT devices.

Each device will stream data, including temperature, device ID, and time data. Approximately 50,000 records will be written every second. The data will be visualized in near real-time.

You need to recommend a service to store and query the data.

Which two services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

Correct selection

Azure Time Series Insights

Azure Event Grid

Correct selection

Azure Cosmos DB SQL API

Azure Table Storage

Overall explanation

- The processed data is stored in an analytical data store, such as Azure Data Explorer, HBase, Azure Cosmos DB, Azure Data Lake, or Blob Storage.
- Time Series Insights is a fully managed service for time series data. In this architecture, Time Series Insights performs the roles of stream processing, data store, and analytics and reporting. It accepts streaming data from either IoT Hub or Event Hubs and stores, processes, analyzes, and displays the data in near real-time.

https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/time-series

Question 35 Skipped

You are designing a microservices architecture that will be hosted in an Azure Kubernetes Service (AKS) cluster. Apps that will consume the microservices will be hosted on Azure virtual machines. The virtual machines and the AKS cluster will reside on the same virtual network.

You need to design a solution to expose the microservices to consumer apps. The solution must meet the following requirements:

- Ingress access to the microservices must be restricted to a single private IP address and protected by using mutual TLS authentication.
- The number of incoming microservice calls must be rate-limited.
- Costs must be minimized.

What should you include in the solution?

Correct answer

Azure API Management Premium tier with virtual network connection

Azure Front Door with Azure Web Application Firewall (WAF)

Azure API Management Standard tier with a service endpoint

Azure App Gateway with Azure Web Application Firewall (WAF)

Overall explanation

One option is to deploy APIM (API Management) inside the cluster VNet.

The AKS cluster and the applications that consume the microservices might reside within the same VNet, hence there is no reason to expose the cluster publicly as all API traffic will remain within the VNet. For these scenarios, you can deploy API Management into the cluster VNet. API Management Premium tier supports VNet deployment.

https://docs.microsoft.com/en-us/azure/api-management/api-management-kubernetes

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