> **Vendor: Microsoft**

> **Exam Code: AZ-305**

> **Exam Name: Designing Microsoft Azure Infrastructure Solutions**

> **Part of New Questions from PassLeader (Updated in Dec/2021)**

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NEW QUESTION 1
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

Answer: C
Explanation:
https://docs.microsoft.com/en-us/azure/migrate/migrate-appliance
https://docs.microsoft.com/enus/learn/modules/design-your-migration-to-azure/2-plan-your-azure-migration

NEW QUESTION 2
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 2016. 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? (Each correct answer presents a complete solution. Choose two.)

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

Answer: BC
Explanation:
https://docs.microsoft.com/en-us/azure/data-factory/introduction

NEW QUESTION 3
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?

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

Answer: D
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.
Incorrect:
Not B: Too slow.
Not C: Always On availability group RPO: Because replication to the secondary replica is asynchronous, there's some data loss.
https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-sql

NEW QUESTION 4
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.   A private endpoint.
B.   A service endpoint that has a service endpoint policy.
C.   Azure public peering for an ExpressRoute circuit.
D.   Microsoft peering for an ExpressRoute circuit.

Answer: A
Explanation:
- Private Endpoint securely connect to storage accounts from on-premises networks that connect to the VNet using VPN or ExpressRoutes with private-peering.
- Private Endpoint also secure your storage account by configuring the storage firewall to block all connections on the public endpoint for the storage service.
https://docs.microsoft.com/en-us/azure/expressroute/expressroute-faqs#microsoft-peering

NEW QUESTION 5
You are planning an Azure IoT Hub solution that will include 50,000 IoT devices. Each device will stream data, including temperature, device ID, and time data. Approximately 50,000 records will be written every second. The data will be visualized in near real time. You need to recommend a service to store and query the data. Which two services can you recommend? (Each correct answer presents a complete solution. Choose two.)

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

Answer: CD

Explanation:
C: 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.
D: 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

NEW QUESTION 6
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?

A.   Yes
B.   No

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

NEW QUESTION 7
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?

A.   Yes
B.   No

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

NEW QUESTION 8
You have an Azure Active Directory (Azure AD) tenant that syncs with an on-premises Active Directory domain. You have an internal web app named WebApp1 that is hosted on-premises. WebApp1 uses Integrated Windows authentication. Some users work remotely and do NOT have VPN access to the on-premises network. You need to provide the remote users with single sign-on (SSO) access to WebApp1. Which two features should you include in the solution? (Each correct answer presents part of the solution. Choose two.)

A.   Azure AD Application Proxy.
B.   Azure AD Privileged Identity Management (PIM).
C.   Conditional Access policies.

D. Azure Arc.
E. Azure AD enterprise applications.
F. Azure Application Gateway.

Answer: AC
Explanation:
A: Application Proxy is a feature of Azure AD that enables users to access on-premises web applications from a remote client. Application Proxy includes both the Application Proxy service which runs in the cloud, and the Application Proxy connector which runs on an on-premises server. You can configure single sign-on to an Application Proxy application.
C: Microsoft recommends using Application Proxy with pre-authentication and Conditional Access policies for remote access from the internet. An approach to provide Conditional Access for intranet use is to modernize applications so they can directly authenticate with AAD.
https://docs.microsoft.com/en-us/azure/active-directory/app-proxy/application-proxy-config-sso-how-to
https://docs.microsoft.com/en-us/azure/active-directory/app-proxy/application-proxy-deployment-plan

NEW QUESTION 9
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.

Answer: C

NEW QUESTION 10
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 Logic Apps and Azure Functions
C. Azure Pipelines and Azure Service Fabric
D. Azure Functions and Azure Batch

Answer: B
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

NEW QUESTION 11
HotSpot
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? (To answer, select the appropriate options in the answer area.)

Answer Area

Storage tier:

| Hot |
| Premium |
| Transaction optimized |

Redundancy:

| Geo-redundant storage (GRS) |
| Zone-redundant storage (ZRS) |
| Locally-redundant storage (LRS) |

Answer:

Answer Area

Storage tier:

Hot
Premium
Transaction optimized

Redundancy:

Geo-redundant storage (GRS)
Zone-redundant storage (ZRS)
Locally-redundant storage (LRS)

Explanation:
https://docs.microsoft.com/en-us/azure/storage/files/storage-files-planning

NEW QUESTION 12
Drag and Drop
You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux. You need to use Azure Monitor to design an alerting strategy for security-related events. Which Azure Monitor Logs tables should you query? (To answer, drag the appropriate tables to the correct log types. Each table may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Tables

| AzureActivity |

| AzureDiagnostics |

| Event |

| Syslog |

Answer Area

Events from Windows event logs: [Table]

Events from Linux system logging: [Table]

Answer:

Tables

| AzureActivity |

| AzureDiagnostics |

| Event |

| Syslog |

Answer Area

Events from Windows event logs: [Event]

Events from Linux system logging: [Syslog]

Explanation:
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/data-sources-windows-events
https://docs.microsoft.com/en-us/azure/azure-monitor/agents/data-sources-syslog

NEW QUESTION 13
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