

Exam Questions AZ-301

Microsoft Azure Architect Design

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NEW QUESTION 1

- (Exam Topic 1)

You need to recommend a data storage strategy for WebApp1. What should you include in the recommendation?

- A. an Azure SQL Database elastic pool
- B. a vCore-based Azure SQL database
- C. an Azure virtual machine that runs SQL Server
- D. a fixed-size DTU AzureSQL database.

Answer: D

NEW QUESTION 2

- (Exam Topic 1)

You need to recommend a strategy for migrating the database content of WebApp1 to Azure. What should you include in the recommendation?

- A. Use Azure Site Recovery to replicate the SQL servers to Azure.
- B. Use SQL Server transactional replication.
- C. Copy the BACPAC file that contains the Azure SQL database file to Azure Blob storage.
- D. Copy the VHD that contains the Azure SQL database files to Azure Blob storage

Answer: C

NEW QUESTION 3

- (Exam Topic 1)

You need to recommend a strategy for the web tier of WebApp1. The solution must minimize What should you recommend?

- A. Create a runbook that resizes virtual machines automatically to a smaller size outside of business hours.
- B. Configure the Scale Up settings for a web app.
- C. Deploy a virtual machine scale set that scales out on a 75 percent CPU threshold.
- D. Configure the Scale Out settings for a web app.

Answer: D

NEW QUESTION 4

- (Exam Topic 2)

You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following characteristics:

The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.

Stored procedures are implemented by using CLR.

You plan to move all the data from SQL Server to Azure.

You need to recommend an Azure service to host the databases. The solution must meet the following requirements:

Whenever possible, minimize management overhead for the migrated databases.

Minimize the number of database changes required to facilitate the migration.

Ensure that users can authenticate by using their Active Directory credentials.

What should you include in the recommendation?

- A. Azure SQL Database single databases
- B. Azure SQL Database Managed Instance
- C. Azure SQL Database elastic pools
- D. SQL Server 2016 on Azure virtual machines

Answer: B

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance>

NEW QUESTION 5

- (Exam Topic 2)

You are designing an Azure solution for a company that wants to move a .NET Core web application an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016. The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Solution: Deploy the web application by using an Azure Kubernetes Service (AKS) container on VNET1

Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 6

- (Exam Topic 2)

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 with not appear in 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 it an Azure region fails.
- Grant administrators access to the operating system to install custom application dependencies. Solution: You deploy an Azure virtual machine to two Azure regions, and you create a Traffic Manager profile.

Does this meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 7

- (Exam Topic 2)
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?

- A. Microsoft SQL Server Migration Assistant (SSMA)
B. Azure Data Factory
C. Data Migration Assistant
D. AzCopy

Answer: C

NEW QUESTION 8

- (Exam Topic 2)
Note: This question is part of 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 in the review screen. You have an Azure subscription that contains a resource group named RG1. You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers. You need to recommend a solution that meets the following requirements:
The researchers must be allowed to create Azure virtual machines.
The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.
Solution: Create a lab in Azure DevTest Lab. Configure the DevTest Labs settings. Assign the DevTest Labs User role to the ResearchUsers group. Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 9

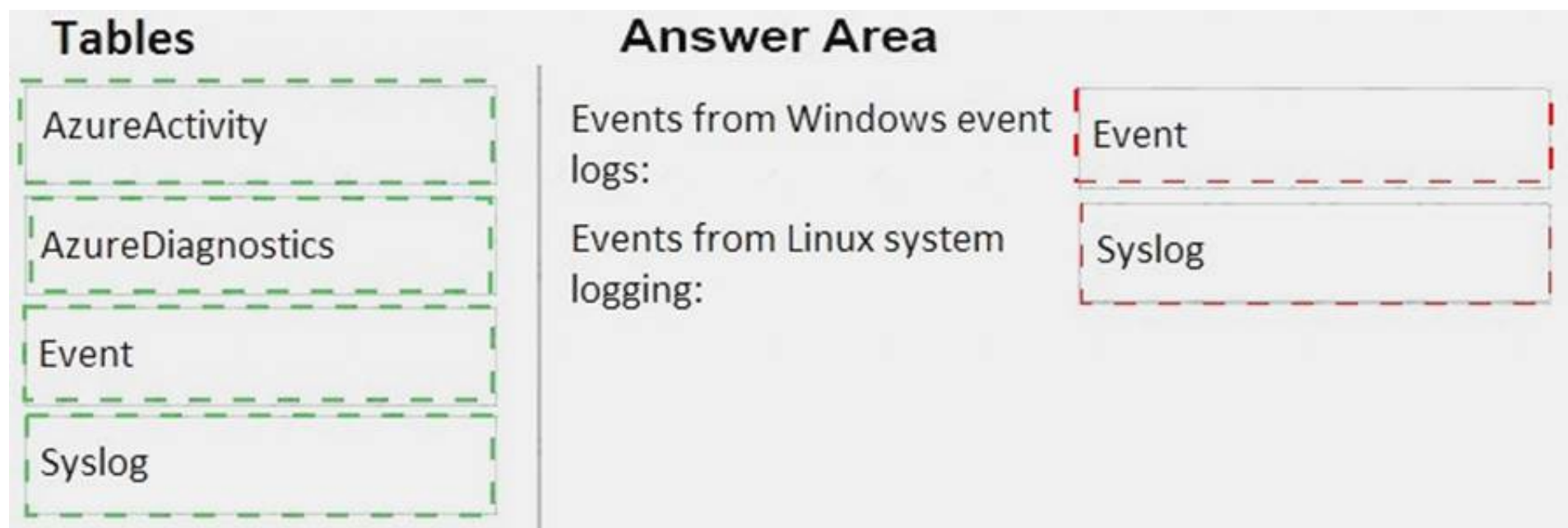
- (Exam Topic 2)
You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux. You need to use Azure Log Analytics design an alerting strategy for security-related events. Which Log Analytics tables should you query? To answer, drag the appropriate tables to the correct log types. Each value 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. NOTE: Each correct selection is worth one point.

Tables	Answer Area
AzureActivity	Events from Windows event logs: <div>Table</div>
AzureDiagnostics	Events from Linux system logging: <div>Table</div>
Event	
Syslog	

- A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 10

- (Exam Topic 2)

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 include in the recommendation?

- A. conditional access policies
- B. Azure Policy
- C. Azure Resource Manager templates
- D. role-based access control (RBAC)

Answer: B

NEW QUESTION 10

- (Exam Topic 2)

You are designing a data protection strategy for Azure virtual machines. All the virtual machines are in the Standard tier and use managed disks.

You need to recommend a solution that meets the following requirements:

The use of encryption keys is audited.

All the data is encrypted at rest always.

You manage the encryption keys, not Microsoft.

What should you include in the recommendation?

- A. BitLocker Drive Encryption (BitLocker)
- B. Azure Storage Service Encryption
- C. client-side encryption
- D. Azure Disk Encryption

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-overview>

NEW QUESTION 12

- (Exam Topic 2)

You are designing an Azure solution for a company that wants to move a .NET Core web application an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016. The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Deploy the web application to a web app hosted in a Premium App Service plan. Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 17

- (Exam Topic 2)

You have an on-premises network that uses on IP address space of 172.16.0.0/16 You plan to deploy 25 virtual machines to a new azure subscription.

You identity the following technical requirements.

All Azure virtual machines must be placed on the same subnet subnet1.

All the Azure virtual machines must be able to communicate with all on premises severs.

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, drag the appropriate network addresses to the correct subnet. Each network address 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.
 NOTE: Each correct selection is worth one point.

Network Addresses	Answer Area	
172.16.0.0/16	<div> <div>⏪</div> <div>⏩</div> </div>	Subnet1: <input type="text" value="Network address"/>
172.16.1.0/28		Gateway subnet: <input type="text" value="Network address"/>
192.168.0.0/24		
192.168.1.0/28		

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Network Addresses	Answer Area	
172.16.0.0/16	<div> <div>⏪</div> <div>⏩</div> </div>	Subnet1: <input type="text" value="192.168.0.0/24"/>
172.16.1.0/28		Gateway subnet: <input type="text" value="192.168.1.0/28"/>
192.168.0.0/24		
192.168.1.0/28		

NEW QUESTION 21

- (Exam Topic 2)

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 in 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?

- A. Yes
 B. No

Answer: A

NEW QUESTION 26

- (Exam Topic 2)

Your development team plans to use an Azure subscription to test new applications. The application will reside on Azure virtual machines. The developers will be responsible for managing the subscription shared resources will be used by more than one application.

You need to recommend a deployment solution that meets the following requirements: Minimize administration effort for the developers

Ensures that the testing environment can be recreated consistently

Ensures that the testing cycle is complete, all the resources, except for the shared resources associated to each application are deleted

What should you include in the recommendation?

- A. Use JSON templates to create the resource
 B. Place the shared resources in one resource group, the application-specific resources in separate resource group.
 C. Use JSON templates to create the resource
 D. Place the shared resources in one resource group- Place all the application - .specific in a resources in second resource group
 E. Use an Azure PowerShell script to create the resource
 F. Place the shared resources .and the application-specific resources in the resources group.
 G. Use an Azure PowerShell script to create the resource
 H. Place the shared resources in one resource group Place the application-specific resources in separate resources groups.

Answer: B

NEW QUESTION 30

- (Exam Topic 2)

Note: This question is part of 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 in the review screen.

You have an Azure subscription named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.

Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.

You identify the following requirements for Application2:

The members of App2Dev must be prevented from changing the role assignments in Azure.

The members of App2Dev must be able to create new Azure resources required by Application2.

All the required role assignments for Application2 will be performed by the members of Project1admins.

You need to recommend a solution for the role assignments of Application2.

Solution: Create a new Azure subscription named Project2. Assign Project1admins the User Access Administrator role for the Project2 subscription. Assign App2Dev the Owner role for the Project2 subscription.

Does this meet the goal?

A. Yes

B. No

Answer: B

NEW QUESTION 34

- (Exam Topic 2)

Your company has several Azure subscriptions that are part of a Microsoft Enterprise Agreement? The company's compliance team creates automatic alerts by using Ware Monitor.

You need to recommend a solution to apply the alerts automatically when new subscriptions are added to the Enterprise agreement.

What should you include in the recommendation?

A. Azure Pokey

B. Azure Resource Manager templates

C. Azure log Analytics alerts

D. Azure Monitor action groups

E. Azure Automation runboote

Answer: D

NEW QUESTION 36

- (Exam Topic 2)

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployment in your subscription What should you include in the recommend3tton,

A. Azure Activity Log

B. Azure Monitor action groups

C. Azure Advisor

D. Azure Monitor metrics

Answer: B

NEW QUESTION 37

- (Exam Topic 2)

You plan to deploy 200 Microsoft SQL Server databases to Azure by using SQL Database and Azure SQL Database Managed Instance.

You need to recommend a monitoring solution that provides a consistent monitoring approach for all deployments The solution must meet the following requirements: Support current-state analysis on metrics collected near -real-time multiple times per minutes and maintained for up to one hour.

Support longer term analysis based on metrics collected multiple timer per hour and maintained for up two weeks.

Support monitoring of the number of concurrent logins and concurrent sessions. What should you include in the recommendation?

A. Azure Monitor

B. dynamic management views

C. SQL Server-Profiler

D. trace flags

Answer: D

NEW QUESTION 38

- (Exam Topic 2)

You have 100 Standard F2vs-v2 Azure virtual machines. Each virtual machine has two network adapter. You need to increase the network performance of the workloads running an the virtual machine The solution must meet the following requirements.

*The CPU-to-memory ratio must remain the same.

*The solution must minimize costs. What should you do?

A. Enable SRIOV

B. Enable ROMA over InfiniBand

C. Install an additional network adapter.

D. Configure NIC teaming.

Answer: A

NEW QUESTION 42

- (Exam Topic 2)

You are planning the implementation of an order processing web service that will contain microservices hosted in an Azure Service Fabric cluster.

You need to recommend a solution to provide developers with the ability to proactively identify and fix performance issues. The developers must be able to simulate user connections to the order processing web service from the Internet, as well as simulate user transactions. The developers must be notified if the goals for the transaction response times are not met.

What should you include in the recommendation?

- A. container health
- B. Azure Network Watcher
- C. Application Insights
- D. Service Fabric Analytics

Answer: C

NEW QUESTION 44

- (Exam Topic 2)

You have an on-premises deployment of MongoDB.

You plan to migrate MongoDB to an Azure Cosmos DB account that uses the MongoDB API. You need to recommend a solution for migrating MongoDB to Azure Cosmos DB.

What should you include in the recommendation?

- A. mongorestore
- B. Data Migration Assistant
- C. Azure Storage Explorer
- D. Azure Cosmos DB Data Migration Tool

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/mongodb-migrate>

NEW QUESTION 45

- (Exam Topic 3)

You need to recommend a disaster recovery solution for the back-end tier of the payment processing system. What should you include in the recommendation?

- A. Always On Failover Cluster Instances
- B. active geo-replication
- C. Azure Site Recovery
- D. an auto-failover group

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auto-failover-group>

NEW QUESTION 47

- (Exam Topic 3)

You need to recommend a backup solution for the data store of the payment processing. What should you include in the recommendation?

A Microsoft System Center Data Protection Manager (DPM)

- A. long-term retention
- B. a Recovery Services vault
- C. Azure Backup Server

Answer: B

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-long-term-backup-retention-configure>

NEW QUESTION 50

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