

Exam Questions AZ-301

Microsoft Azure Architect Design

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NEW QUESTION 1

- (Exam Topic 1)

You need to recommend a solution to meet the database retention requirement. What should you recommend?

- A. Configure a long-term retention policy for the database.
- B. Configure Azure Site Recovery.
- C. Configure geo replication of the database.
- D. Use automatic Azure SQL Database backups.

Answer: A

NEW QUESTION 2

- (Exam Topic 1)

You design a solution for the web tier of WebApp1 as shown in the exhibit.



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

Statements	Yes	No
The design supports the technical requirements for redundancy.	<input checked="" type="radio"/>	<input type="radio"/>
The design supports autoscaling.	<input type="radio"/>	<input type="radio"/>
The design requires a manual configuration if an Azure region fails.	<input checked="" type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
The design supports the technical requirements for redundancy.	<input checked="" type="radio"/>	<input type="radio"/>
The design supports autoscaling.	<input type="radio"/>	<input checked="" type="radio"/>
The design requires a manual configuration if an Azure region fails.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 3

- (Exam Topic 1)

You need to recommend a notification solution for the IT Support distribution group. What should you include in the recommendation?

- A. Azure Network Watcher
- B. an action group
- C. a SendGrid account with advanced reporting
- D. Azure AD Connect Health

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-health-operations>

NEW QUESTION 4

- (Exam Topic 1)

What should you include in the identity management strategy to support the planned changes?

- A. Move all the domain controllers from corp.fabrikam.com to virtual networks in Azure.
- B. Deploy domain controllers for corp.fabrikam.com to virtual networks in Azure.
- C. Deploy a new Azure AD tenant for the authentication of new R&D projects.
- D. Deploy domain controllers for the rd.fabrikam.com forest to virtual networks in Azure.

Answer: B

Explanation:

Directory synchronization between Azure Active Directory (Azure AD) and corp.fabrikam.com must not be affected by a link failure between Azure and the on-premises network. (This requires domain controllers in Azure)

Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails. (This requires domain controllers on-premises)

NEW QUESTION 5

- (Exam Topic 2)

You have an Azure subscription for used for testing and development purposes only. The subscription contains Azure virtual machines that unmanaged, standard hard disk drives (HDD).

You need to recommend a recovery strategy for the virtual machines if an Azure region fails for a sustained period. The recovery time objective (WTO) can be up to seven days. The solution must minimize costs.

What should you include in the recommendation?

- A. Store the disks in a Standard_LRS storage account
- B. Configure Azure site Recover
- C. If a failure occurs, initiate a manual failure over.
- D. Store the disks in a Standard_GRS storage account
- E. Configure Azure Recover
- F. If a failure occurs, initiate a manual failover.
- G. Store the disks in a Standard_LRS storage account
- H. If a disaster occurs, manually create the virtual machines by used Azure Resources Manager templates.
- I. Store the disks in a Standard_GRS storage account
- J. If a disaster occurs, manually create the virtual machines by Azure Resource Manager templates.

Answer: B

NEW QUESTION 6

- (Exam Topic 2)

You are designing a virtual machine that will run Microsoft SQL Server and will contain two data disks. The first data disk will store log files, and the second data disk will store data. Both disks are P40 managed disks.

You need to recommend a caching policy for each disk. The policy must provide the best overall performance for the virtual machine.

Which caching policy should you recommend for each disk? To answer, drag the appropriate policies to the correct disks. Each policy 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.

Policies		Answer Area
None	<div>⏪</div> <div>⏩</div>	Log: <input type="text" value="Policy"/>
ReadOnly		Data: <input type="text" value="Policy"/>
ReadWrite		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-sql-performan>

NEW QUESTION 7

- (Exam Topic 2)

You have an Azure subscription that contains an Azure Cosmos DB account.

You need to recommend a solution to generate an alert from Azure Log Analytics when a request charge for a query exceeds 50 request units more than 20 times within a 15-minute window.

What should you recommend?

- A. Create a search query to identify when requestCharge_s exceeds 50. Configure an alert threshold of 20 and a period of 15.
- B. Create a search query to identify when duration_s exceeds 20 and requestCharge_s exceeds 50. Configure a period of 15.
- C. Create a search query to identify when requestCharge_s exceeds 20. Configure a period of 15 and a frequency of 20.
- D. Create a search query to identify when duration_s exceeds 20. Configure a period of 15.

Answer: A

NEW QUESTION 8

- (Exam Topic 2)

You have an on premises Active Directory forest and an Azure Active Directory Azure AD) tenant. All Azure AD users are assigned a Premium P1 license.

You deploy Azure AD Conned

Which two features ate available m this environment that can reduce operational overhead tot your company's help desk? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point

- A. sell- service password reset
- B. access review
- C. password writeback
- D. Azure AD Privileged Identity Management policies
- E. Microsoft Cloud App Security Conditional At access App Control

Answer: AD

NEW QUESTION 9

- (Exam Topic 2)

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 Cost Management
- B. Azure Migrate
- C. Azure pricing calculator
- D. Azure Advisor recommendations

Answer: A

NEW QUESTION 10

- (Exam Topic 2)

You have five .NET Core applications that run on 10 Azure virtual machines in the same subscription.

You need to recommend a solution to ensure that the applications can authenticate by using the same Azure Active Directory (Azure AD) identity. The solution must meet the following requirements:

Ensure that the applications can authenticate only when running on the 10 virtual machines.
 Minimize administrative effort.

What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

To provision the Azure AD identity:

▼
Create a system-assigned Managed Service Identity
Create a user-assigned Managed Service Identity
Register each application in Azure AD

To authenticate request a token by using:

▼
An Azure AD v1.0 endpoint
An Azure AD v2.0 endpoint
An Azure Instance Metadata Service Identity
OAuth2 endpoint

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

To provision the Azure AD identity:

▼
Create a system-assigned Managed Service Identity
Create a user-assigned Managed Service Identity
Register each application in Azure AD

To authenticate request a token by using:

▼
An Azure AD v1.0 endpoint
An Azure AD v2.0 endpoint
An Azure Instance Metadata Service Identity
OAuth2 endpoint

NEW QUESTION 10

- (Exam Topic 2)

You are designing a network connectivity strategy for a new Azure subscription. You identify the following requirements

- * The Azure virtual machines on a subnet named Subnet1 must be accessible only from the computers in your London office.
- * Engineers require access to the Azure virtual machines on a subnet named Subnet2 over the Internet on a specific TCP/IP management port.
- * The Azure virtual machines in the West Europe Azure region must be able to communicate on all ports to the Azure virtual machine in the North Europe Azure region.

You need to recommend which components must be used to meet the requirements.

What should you include in the recommendation? To answer, drag the appropriate components to the correct requirement. Each component may be used once, more than once.

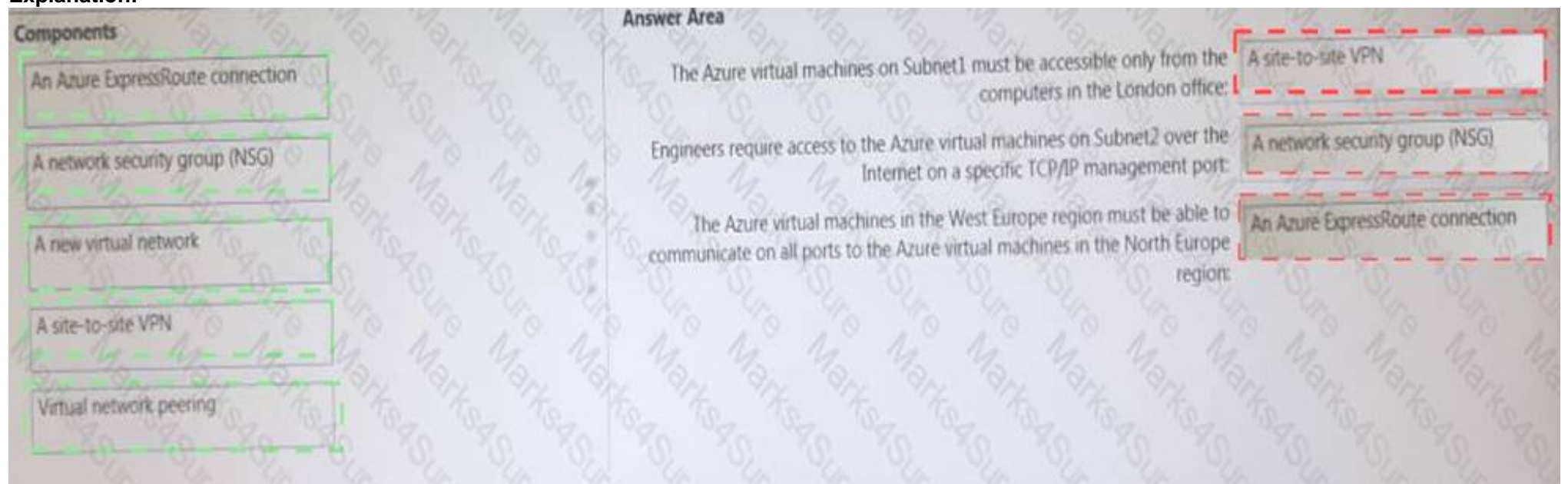
NOTE: Each correct selection is worth one point.

Components	Answer Area	Component
An Azure ExpressRoute connection	The Azure virtual machines on Subnet1 must be accessible only from the computers in the London office:	
A network security group (NSG)	Engineers require access to the Azure virtual machines on Subnet2 over the Internet on a specific TCP/IP management port:	
A new virtual network	The Azure virtual machines in the West Europe region must be able to communicate on all ports to the Azure virtual machine in the North Europe region:	
A site-to-site VPN		
Virtual network peering		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 14

- (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 an Isolated App Service plan on VNET1. Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 19

- (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: In Project1, create a resource group named Application2RG. Assign Project1admins the Owner role for Application2RG. Assign App2Dev the Contributor role for Application2RG.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 21

- (Exam Topic 2)

You have a hybrid deployment of Azure Active Directory (Azure AD).

You need to recommend a solution to ensure that the Azure AD tenant can be managed only from the computers on your on-premises network.

What should you include in the recommendation?

- A. Azure AD roles and administrators
- B. a conditional access policy
- C. Azure AD Application Proxy
- D. Azure AD Privileged Identity Management

Answer: B

NEW QUESTION 25

- (Exam Topic 2)

You have an on-premises Hyper-V cluster. The cluster contains Hyper-V hosts that run Windows Server 2016 Datacenter. The hosts are licensed under a Microsoft Enterprise Agreement that has Software Assurance.

The Hyper-V cluster hosts 3 virtual machines that run Windows Server 2012 R2. Each virtual machine runs a different workload. The workloads have predictable consumption patterns.

You plan to replace the virtual machines with Azure virtual machines that run Windows Server 2016. The virtual machines will be sized according to the consumption pattern of each workload.

You need to recommend a solution to minimize the compute costs of the Azure virtual machines.

Which two recommendations should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Purchase Azure Reserved Virtual Machine Instances for the Azure virtual machines
- B. Create a virtual machine scale set that uses autoscaling
- C. Configure a spending limit in the Azure account center
- D. Create a lab in Azure DevTest Labs and place the Azure virtual machines in the lab
- E. Activate Azure Hybrid Benefit for the Azure virtual machines

Answer: AE

NEW QUESTION 28

- (Exam Topic 2)

You have an Azure Active Directory (Azure AD) tenant. All user accounts are synchronized from an onpremises Directory and are configured for federated authentication. Active Directory Federation Services (AD FS) servers are published for external connection by using a farm Application proxy servers.

You need to recommend a solution to monitor the servers that integrate with Azure AD. The solution must meet the following requirements:

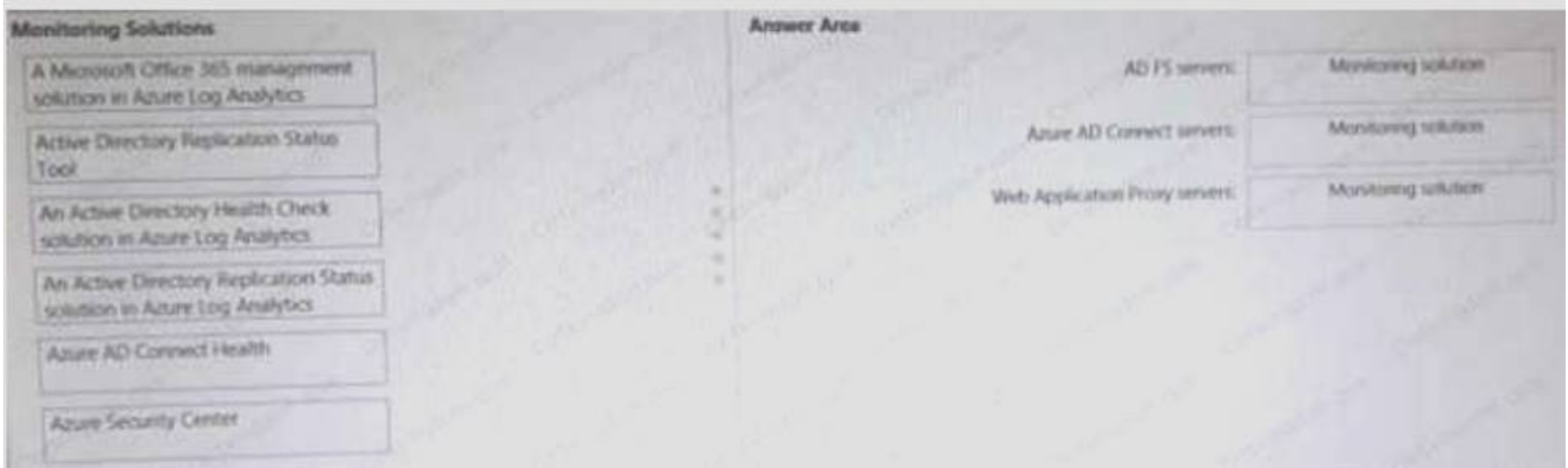
Identify any AD FS issue and their potential resolutions.

Identify any directory synchronization configuration issues and their potential resolutions.

Notify administrations when there are any issue affecting directory synchronization or AD FS operations. Which monitoring solution should you recommend for each server type? To answer, drag the appropriate monitoring solution to the correct types. Each monitoring solution may be used once, than once, or not at all.

You may need to drag the split bar between panes scroll to view content.

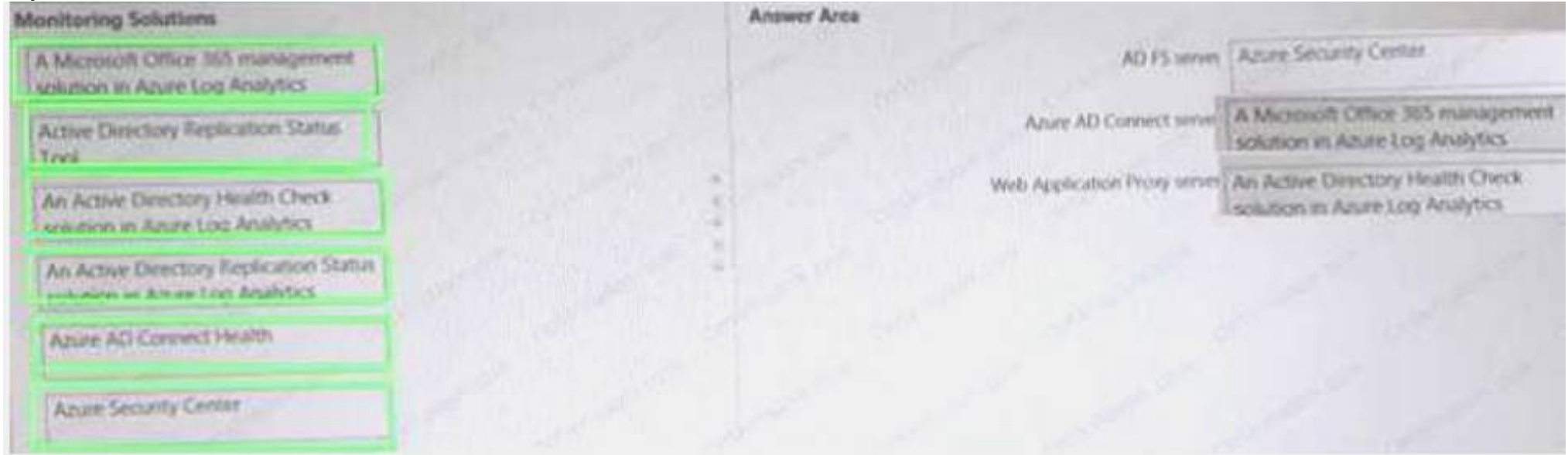
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 31

- (Exam Topic 2)

Your network contains an on-premises Active Directory forest.

You discover that when users change jobs within your company, the membership of the user group are not updated. As a result the users can resources that are no longer relevant to their job.

You plan to integrate Active Directory and Azure Active Directory (Azure AD) by using Azure AD Connect

You need to recommend a solution to ensure that group owners are emailed monthly m** the group membership they manage. What should you include in the recommendation?

- A. Azure AD Identify Protection
- B. Tenant Restrictions
- C. Azure AD access reviews
- D. conditional access policies

Answer: C

Explanation:

References:
<https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview>

NEW QUESTION 35

- (Exam Topic 2)

You plan to move a web application named App1 from an on-premises data center to Azure. App1 depends on a custom framework 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 data center becomes unavailable.

Costs must be minimized.

What should you include in the recommendation?

- A. In two Azure regions, deploy a Traffic Manager profile 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 a load balancer and a web app.

Answer: A

NEW QUESTION 40

- (Exam Topic 2)

You have an Azure subscription that contains a custom application named Application1. Application1 was developed by an external company named Fabric, Ltd. Developers at Fabrikam were assigned role-based access control (RBAC) permissions to the Application1 components. All users are licensed for the Microsoft 365 E5 plan.

You need to recommend a solution to verify whether the Fabric developers still require permissions to Application1. The solution must meet the following requirements.

* To the manager of the developers, send a monthly email message that lists the access permissions to Application1.

* If the manager does not verify access permission, automatically revoke that permission.

* Minimize development effort. What should you recommend?

- A. Create an Azure Automation runbook that runs the Get-AzureADUSAppRoleAssignment cmdlet.
- B. In Azure Active Directory (Azure AD) create an access review of Application1.
- C. In Azure Active Directory (AD) privileged identity managed, create a custom roles assignment for the Application1 resources.
- D. Create an Azure Automation runbook that runs the get-AzureRmRolesAssigned cmdlet.

Answer: A

NEW QUESTION 44

- (Exam Topic 2)

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 host the SSIS packages in Azure.

The solution must ensure that the packages can target the SQL Database instances as the destinations. What should you include in the recommendation?

- A. Azure Data Catalog
- B. SQL Server Migration Assistant (SSMS)
- C. Data Migration Assistant
- D. Azure Data Factory

Answer: A

NEW QUESTION 47

- (Exam Topic 2)

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 Azure Active Directory (Azure AD) 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 Azure AD-generated claims.

Minimize configuration and management effort.

What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

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

	▼
Azure AD	
Azure API Management	
The web APIs	

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

	▼
Azure AD	
Azure API Management	
The web APIs	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

	▼
Azure AD	
Azure API Management	
The web APIs	

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

	▼
Azure AD	
Azure API Management	
The web APIs	

NEW QUESTION 49

- (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 54

- (Exam Topic 3)

You need to recommend a solution for implementing the back-end tier of the payment processing system in Azure.

What should you include in the recommendation?

- A. an Azure SQL Database managed instance
- B. a SQL Server database on an Azure virtual machine
- C. an Azure SQL Database single database
- D. an Azure SQL Database elastic pool

Answer: C

NEW QUESTION 55

- (Exam Topic 3)

You need to recommend a solution for the collection of security logs the middle tier of the payment processing system.
What should you include in the recommendation?

- A. Azure Notification Hubs
- B. the Azure Diagnostics agent
- C. Azure Event Hubs
- D. the Azure Log Analytics agent

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/diagnostics-extension-overview>

NEW QUESTION 58

- (Exam Topic 3)

You need to recommend a solution for the network configuration of the front-end tier of the payment processing.
What should you include in the recommendation?

- A. Azure Application Gateway
- B. Traffic Manager
- C. a Standard Load Balancer
- D. a Basic load Balancer

Answer: B

NEW QUESTION 60

- (Exam Topic 3)

You need to recommend a solution for configuring the Azure Multi-Factor Authentication (MFA) settings. What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Azure AD license:

▼
Free
Basic
Premium P1
Premium P2

Access control for the sign-in risk policy:

▼
Allow access and require multi-factor authentication
Block access and require multi-factor authentication
Allow access and require Azure MFA registration
Block access

Access control for the multi-factor authentication registration policy:

▼
Allow access and require multi-factor authentication
Block access and require multi-factor authentication
Allow access and require Azure MFA registration
Block access

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-sign-in-risk-policy> <https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-mfa-policy>

NEW QUESTION 62

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