



**Microsoft**

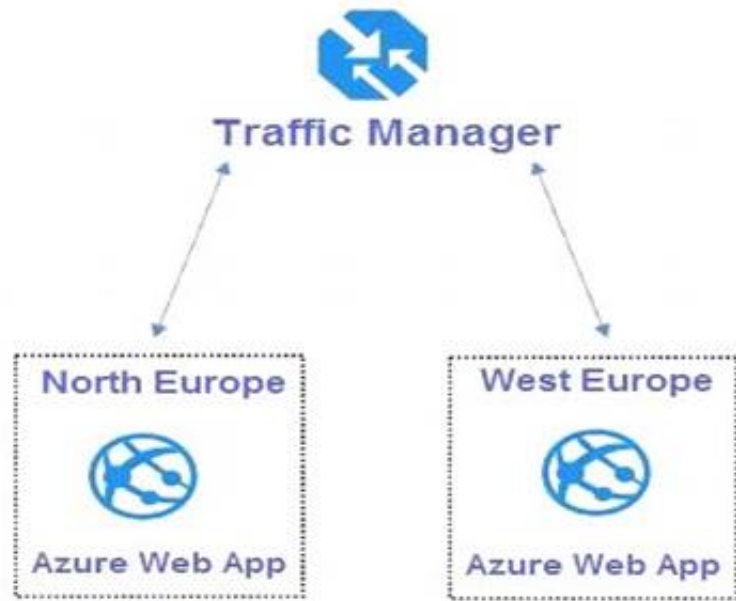
## **Exam Questions AZ-304**

Microsoft Azure Architect Design (beta)

### NEW QUESTION 1

- (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 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 type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: Yes

Any new deployments to Azure must be redundant in case an Azure region fails.

Traffic Manager uses DNS to direct client requests to the most appropriate service endpoint based on a traffic-routing method and the health of the endpoints. An endpoint is any Internet-facing service hosted inside or outside of Azure. Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to failure, including the failure of an entire Azure region.

Box 2: Yes

Recent changes in Azure brought some significant changes in autoscaling options for Azure Web Apps (i.e. Azure App Service to be precise as scaling happens on App Service plan level and has effect on all Web Apps running in that App Service plan).

Box 3: No

Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models.

Traffic Manager is resilient to failure, including the failure of an entire Azure region.

Reference:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview> <https://blogs.msdn.microsoft.com/hsirtl/2017/07/03/autoscaling-azure-web-apps/>

### NEW QUESTION 2

- (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 3

- (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 4**

- (Exam Topic 1)

To meet the authentication requirements of Fabrikam, what should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Minimum number of Azure AD tenants:	<div><div></div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>
Minimum number of custom domains to add:	<div><div></div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>
Minimum number of conditional access policies to create:	<div><div></div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: 2

The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.

Box 2: 1

Box 3: 1

Scenario:

Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails.

Administrators must be able authenticate to the Azure portal by using their corp.fabrikam.com credentials. All administrative access to the Azure portal must be secured by using multi-factor authentication.

Note:

Users must always authenticate by using their corp.fabrikam.com UPN identity.

The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.

Corp.fabrikam.com is a production forest that contains identities used for internal user and computer authentication.

Rd.fabrikam.com is used by the research and development (R&D) department only.

**NEW QUESTION 5**

- (Exam Topic 2)

You need to recommend a solution for protecting the content of the payment processing system. What should you include in the recommendation?

- A. Transparent Data Encryption (TDE)
- B. Azure Storage Service Encryption
- C. Always Encrypted with randomized encryption
- D. Always Encrypted with deterministic encryption

**Answer:** D

**NEW QUESTION 6**

- (Exam Topic 2)

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)
- B. long-term retention

- C. a Recovery Services vault
- D. 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 7

- (Exam Topic 2)

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.

### Answer Area

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 8

- (Exam Topic 3)

You have an Azure Active Directory (Azure AD) tenant.

You plan to deploy Azure Cosmos DB databases that will use the SQL API.

You need to recommend a solution to provide specific Azure AD user accounts with read access to the Cosmos DB databases.

What should you include in the recommendation?

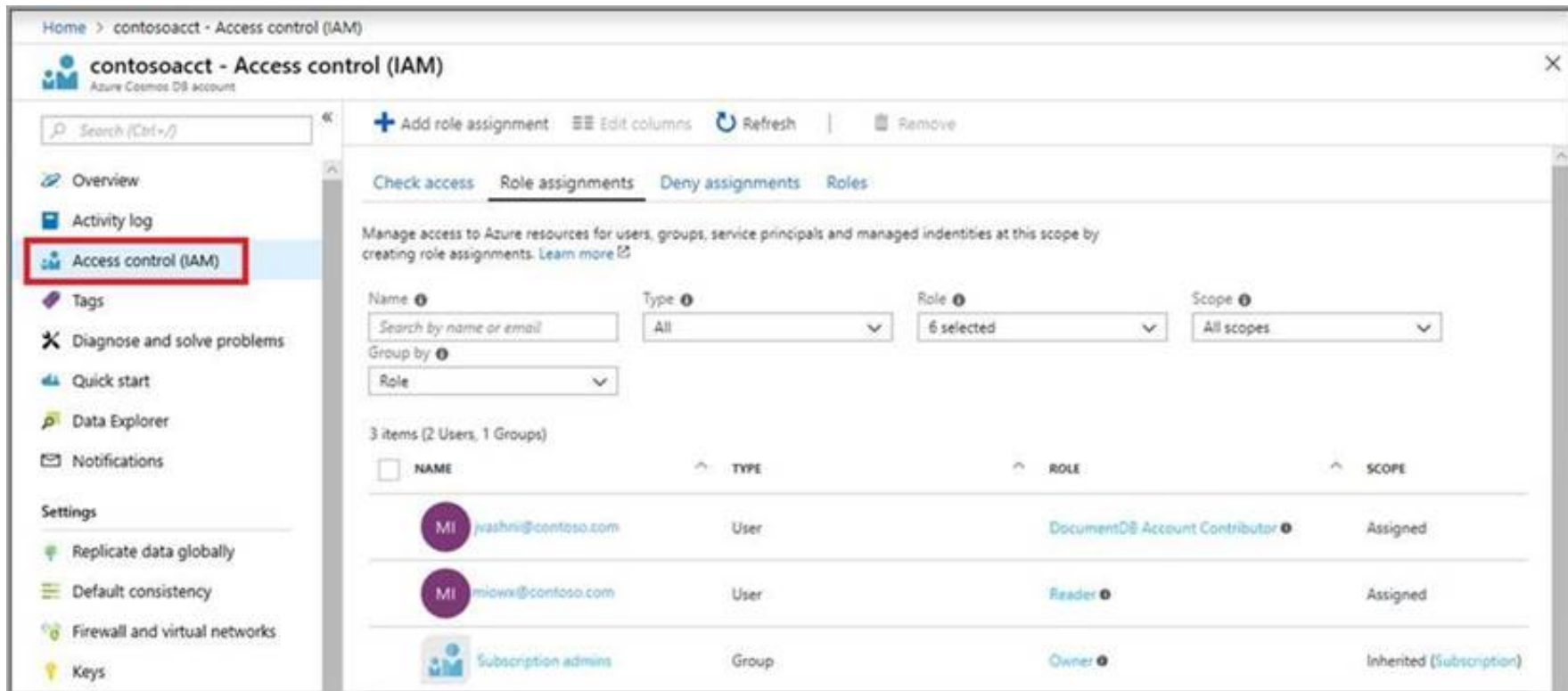
- A. a resource token and an Access control (IAM) role assignment
- B. shared access signatures (SAS) and conditional access policies
- C. master keys and Azure Information Protection policies
- D. certificates and Azure Key Vault

**Answer:** A

**Explanation:**

The Access control (IAM) pane in the Azure portal is used to configure role-based access control on Azure Cosmos resources. The roles are applied to users, groups, service principals, and managed identities in Active Directory. You can use built-in roles or custom roles for individuals and groups. The following screenshot shows Active Directory integration (RBAC) using access control (IAM) in the Azure portal:





Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/role-based-access-control>

### NEW QUESTION 9

- (Exam Topic 3)

You have an Azure App Service Web App that includes Azure Blob storage and an Azure SQL Database instance. The application is instrumented by using the Application Insights SDK.

You need to design a monitoring solution for the web app.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

Scenario	Azure monitoring service
Correlate Azure resource usage and performance data with application configuration and performance data.	<div> <div></div> <div> <div>Azure Application Insights</div> <div>Azure Service Map</div> <div>Azure Monitor Logs</div> <div>Azure Activity Log</div> </div> </div>
Visualize the relationships between application components.	<div> <div></div> <div> <div>Azure Application Insights</div> <div>Azure Service Map</div> <div>Azure Monitor Logs</div> <div>Azure Activity Log</div> </div> </div>
Track requests and exceptions to a specific line of code within the application.	<div> <div></div> <div> <div>Azure Application Insights</div> <div>Azure Service Map</div> <div>Azure Monitor Logs</div> <div>Azure Activity Log</div> </div> </div>
Analyze how many users return to the application and how often they select a particular dropdown value.	<div> <div></div> <div> <div>Azure Application Insights</div> <div>Azure Service Map</div> <div>Azure Monitor Logs</div> <div>Azure Activity Log</div> </div> </div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- \* 1. Azure Monitor Log
- \* 2. Azure Application Insights (application map in App insights)

- \* 3. Azure Application Insights
- \* 4. Azure Application insights

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-map?tabs=net> <https://docs.microsoft.com/en-us/azure/azure-monitor/insights/service-map>

#### NEW QUESTION 10

- (Exam Topic 3)

You architect a solution that calculates 3D geometry from height-map data. You have the following requirements:

Perform calculations in Azure.

Each node must communicate data to every other node.

Maximize the number of nodes to calculate multiple scenes as fast as possible. Require the least amount of effort to implement.

You need to recommend a solution.

Which two actions should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create a render farm that uses Azure Batch.
- B. Enable parallel file systems on Azure.
- C. Enable parallel task execution on compute nodes.
- D. Create a render farm that uses virtual machine (VM) scale sets.
- E. Create a render farm that uses virtual machines (VMs).

**Answer:** AC

#### NEW QUESTION 10

- (Exam Topic 3)

You have an existing implementation of Microsoft SQL Server Integration Services (SSIS) packages stored in an SSISDB catalog on your on-premises network.

The on-premises network does not have hybrid connectivity to Azure by using Site-to-Site VPN or ExpressRoute.

You want to migrate the packages to Azure Data Factory.

You need to recommend a solution that facilitates the migration while minimizing changes to the existing packages. The solution must minimize costs.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Store the SSISDB catalog by using:

Azure SQL Database
Azure Synapse Analytics
SQL Server on an Azure virtual machine
SQL Server on an on-premises computer

Implement a runtime engine for package execution by using:

Self-hosted integration runtime only
Azure-SQL Server Integration Services Integration Runtime (IR) only
Azure-SQL Server Integration Services Integration Runtime and self-hosted integration runtime

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: Azure SQL database

You can't create the SSISDB Catalog database on Azure SQL Database at this time independently of creating the Azure-SSIS Integration Runtime in Azure Data Factory. The Azure-SSIS IR is the runtime environment that runs SSIS packages on Azure.

Box 2: Azure-SQL Server Integration Service Integration Runtime and self-hosted integration runtime The Integration Runtime (IR) is the compute infrastructure used by Azure Data Factory to provide data

integration capabilities across different network environments. Azure-SSIS Integration Runtime (IR) in Azure Data Factory (ADF) supports running SSIS packages.

Self-hosted integration runtime can be used for data movement in this scenario. Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/create-azure-integration-runtime> <https://docs.microsoft.com/en-us/sql/integration-services/lift-shift/ssis-azure-connect-to-catalog-database>

#### NEW QUESTION 12

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