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**Microsoft**

# AZ-304

*Microsoft Azure Architect Design*



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### Question: 331

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>

### Question: 332

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:** D

Explanation:

Before you upload a Windows virtual machine (VM) from on-premises to Azure, you must prepare the virtual hard disk (VHD or VHDX).

Scenario: WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V.

Reference: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image>

### Question: 333

You are evaluating the components of the migration to Azure that require you to provision an Azure Storage account.

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

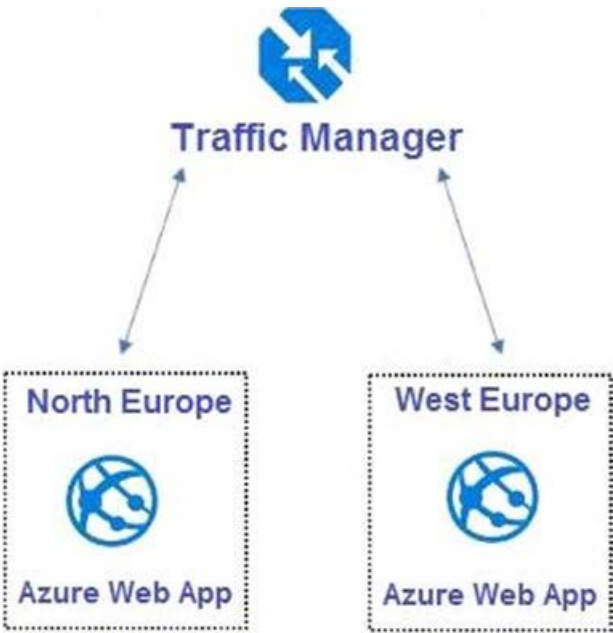
Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input type="radio"/>	<input type="radio"/>

Answer:

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input checked="" type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input checked="" type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input checked="" type="radio"/>	<input type="radio"/>

Question: 334

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 checked="" type="radio"/>

**Answer:**

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

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/>

**Question: 335**

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

### Question: 336

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>

### Question: 337

You need to recommend a solution for the user at Contoso to authenticate to the cloud-based sconces and the Azure AD-integrated application.

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

Install Azure AD Connect and set the user sign-in option to:

	▼
Federation with AD FS	
Pass-through Authentication	
Password Synchronization	

Implement load balancing for the components of the authentication solution by using:

	▼
Azure Application Gateway and a Basic Load Balancer	
Azure Application Gateway and a Standard Load Balancer	
Traffic Manager and a Basic Load Balancer	
Traffic Manager and a Standard Load Balancer	

Answer:  
Answer Area

Install Azure AD Connect and set the user sign-in option to:

	▼
Federation with AD FS	
Pass-through Authentication	
Password Synchronization	

Implement load balancing for the components of the authentication solution by using:

	▼
Azure Application Gateway and a Basic Load Balancer	
Azure Application Gateway and a Standard Load Balancer	
Traffic Manager and a Basic Load Balancer	
Traffic Manager and a Standard Load Balancer	

Question: 338

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	

Answer:  
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	

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>

Question: 339

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

- A . Azure Kubernetes Service (AKS)
- B . virtual machine scale sets
- C . availability sets
- D . App Service Environments (ASEs)

**Answer:** B

### Question: 340

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)

### Question: 341

#### Topic 2, Contoso, Ltd Case Study B

##### Overview

Contoso,Ltd is a US-base finance service company that has a main office New York and an office in San Francisco.

##### Payment Processing Query System

Contoso hosts a business critical payment processing system in its New York data center. The system has three tiers a front-end web app a middle -tier API and a back end data store implemented as a Microsoft SQL Server 2014 database All servers run Windows Server 2012 R2.

The front -end and middle net components are hosted by using Microsoft Internet Inform-non Services (IK) The application rode is written in C# and middle- tier API uses the Entity framework to communicate the SQL Server database. Maintenance of the database e performed by using SQL Server Ago-

The database is currently J IB and is not expected to grow beyond 3 TB.

The payment processing system has the following compliance related requirement

- Encrypt data in transit and at test. Only the front-end and middle-tier components must be able to access the



encryption keys that protect the data store.

- Keep backups of the two separate physical locations that are at least 200 miles apart and can be restored for up to seven years.
- Support blocking inbound and outbound traffic based on the source IP address, the destination IP address, and the port number
- Collect Windows security logs from all the middle-tier servers and retain the log for a period of seven years,
- Inspect inbound and outbound traffic from the front-end tier by using highly available network appliances.
- Only allow all access to all the tiers from the internal network of Contoso.

Tape backups are configured by using an on-premises deployment of Microsoft System Center Data Protection Manager (DPM) and then shipped offsite for long term storage

### Historical Transaction Query System

Contoso recently migrated a business-critical workload to Azure. The workload contains a .NET web server for querying the historical transaction data residing in Azure Table Storage. The .NET service is accessible from a client app that was developed in-house and on the client computer in the New York office. The data in the storage is 50 GB and is not expected to increase.

### Information Security Requirement

The IT security team wants to ensure that identity management is performed by using Active Directory.

Password hashes must be stored on premises only.

Access to all business-critical systems must rely on Active Directory credentials. Any suspicious authentication attempts must trigger multi-factor authentication prompts automatically. Legitimate users must be able to authenticate successfully by using multi-factor authentication.

### Planned Changes

Contoso plans to implement the following changes:

- \* Migrate the payment processing system to Azure.
- \* Migrate the historical transaction data to Azure Cosmos DB to address the performance issues.

### Migration Requirements

Contoso identifies the following general migration requirements:

Infrastructure services must remain available if a region or a data center fails. Failover must occur without any administrative intervention

- Whenever possible, Azure managed services must be used to minimize management overhead
- Whenever possible, costs must be minimized.

Contoso identifies the following requirements for the payment processing system:

- If a data center fails, ensure that the payment processing system remains available without any administrative intervention. The middle-tier and the web front end must continue to operate without any additional configurations-
- If that the number of compute nodes of the front-end and the middle tiers of the payment processing system can increase or decrease automatically based on CPU utilization.
- Ensure that each tier of the payment processing system is subject to a Service level Agreement (SLA) of 99.99 percent availability
- Minimize the effort required to modify the middle tier API and the back-end tier of the payment processing system.
- Generate alerts when unauthorized login attempts occur on the middle-tier virtual machines.
- Ensure that the payment processing system preserves its current compliance status.
- Host the middle tier of the payment processing system on a virtual machine.

Contoso identifies the following requirements for the historical transaction query system:

- Minimize the use of on-premises infrastructure service.
- Minimize the effort required to modify the .NET web service querying Azure Cosmos DB.
- If a region fails, ensure that the historical transaction query system remains available without any administrative intervention.

#### Current Issue

The Contoso IT team discovers poor performance of the historical transaction query as the queries frequently cause table scans.

#### Information Security Requirements

The IT security team wants to ensure that identity management is performed by using Active Directory.

Password hashes must be stored on-premises only.

Access to all business-critical systems must rely on Active Directory credentials. Any suspicious authentication attempts must trigger a multi-factor authentication prompt automatically. legitimate users must be able to authenticate successfully by using multi-factor authentication.

You need to recommend a solution for protecting the content of the back-end tier of the payment processing system.

What should you include in the recommendations?

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

**Answer:** A

### Question: 342

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: C**

Explanation:

Scenario:

- Ensure that the number of compute nodes of the front-end and the middle tiers of the payment processing system can increase or decrease automatically based on CPU utilization.
- Ensure that each tier of the payment processing system is subject to a Service Level Agreement (SLA) of 99.99 percent availability.

With Azure Load Balancer, you can scale your applications and create high availability for your services. Load Balancer supports inbound and outbound scenarios, provides low latency and high throughput, and scales up to millions of flows for all TCP and UDP applications.

Azure Load Balancer is available in two SKUs: Basic and Standard. There are differences in scale, features, and pricing. Standard SLA guarantees a 99.99% for data path with two healthy virtual machines. Basic SLA does not exist.

Reference: <https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-overview>

### Question: 343

You need to recommend a solution for the data store of the historical transaction query system.

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

Sizing requirements: 

A table that has unlimited capacity

A table that has a fixed capacity

Multiple tables that have unlimited capacity

Multiple tables that have fixed capacity

Resiliency: 

An additional read region

An availability set

An availability zone

Answer:  
Answer Area

Sizing requirements: 

A table that has unlimited capacity

A table that has a fixed capacity

Multiple tables that have unlimited capacity

Multiple tables that have fixed capacity

Resiliency: 

An additional read region

An availability set

An availability zone

Question: 344

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.

Minimum number of Azure AD tenants:

	▼
0	
1	
2	
3	
4	

Minimum number of custom domains to add:

	▼
0	
1	
2	
3	
4	

Minimum number of conditional access policies to create:

	▼
0	
1	
2	
3	
4	

**Answer:**

Minimum number of Azure AD tenants:

	▼
0	
1	
2	
3	
4	

Minimum number of custom domains to add:

	▼
0	
1	
2	
3	
4	

Minimum number of conditional access policies to create:

	▼
0	
1	
2	
3	
4	

## Question: 345

### Topic 1, Fabrikam, inc Case Study A

#### Overview:

#### Existing Environment

Fabrikam, Inc. is an engineering company that has offices throughout Europe. The company has a main office in London and three branch offices in Amsterdam Berlin, and Rome.

#### Active Directory Environment:

The network contains two Active Directory forests named corp.fabnkam.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.

#### Network Infrastructure:

Each office contains at least one domain controller from the corp.fabrikam.com domain. The main office contains all the domain controllers for the rd.fabrikam.com forest.

All the offices have a high-speed connection to the Internet.

An existing application named WebApp1 is hosted in the data center of the London office. WebApp1 is used by customers to place and track orders. WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V.

The IT department currently uses a separate Hyper-V environment to test updates to WebApp1.

Fabrikam purchases all Microsoft licenses through a Microsoft Enterprise Agreement that includes Software Assurance.

#### Problem Statement:

The use of Web App1 is unpredictable. At peak times, users often report delays. At other times, many resources for WebApp1 are underutilized.

#### Requirements:

#### Planned Changes:

Fabrikam plans to move most of its production workloads to Azure during the next few years.

As one of its first projects, the company plans to establish a hybrid identity model, facilitating an upcoming Microsoft Office 365 deployment

All R&D operations will remain on-premises.

Fabrikam plans to migrate the production and test instances of WebApp1 to Azure.

#### Technical Requirements:



Fabrikam identifies the following technical requirements:

- Web site content must be easily updated from a single point.
- User input must be minimized when provisioning new app instances.
- Whenever possible, existing on premises licenses must be used to reduce cost.
- Users must always authenticate by using their corp.fabrikam.com UPN identity.
- Any new deployments to Azure must be redundant in case an Azure region fails.
- Whenever possible, solutions must be deployed to Azure by using platform as a service (PaaS).
- An email distribution group named IT Support must be notified of any issues relating to the directory synchronization services.
- 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.

Database Requirements:

Fabrikam identifies the following database requirements:

- Database metrics for the production instance of WebApp1 must be available for analysis so that database administrators can optimize the performance settings.
- To avoid disrupting customer access, database downtime must be minimized when databases are migrated.
- Database backups must be retained for a minimum of seven years to meet compliance requirement

Security Requirements:

Fabrikam identifies the following security requirements:

- \* Company information including policies, templates, and data must be inaccessible to anyone outside the company
- \* Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails.
- \* Administrators must be able to 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.
- \* The testing of WebApp1 updates must not be visible to anyone outside the company.

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**

### Question: 346

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>

### Question: 347

You need to recommend a data storage strategy for WebApp1.

What should you include in 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: B**

### Question: 348

You need to design a solution for securing access to the historical transaction data.

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.

The Azure Cosmos DB account will be used to:

	▼
Create users and generate resource tokens	
Create users and request resource tokens	
Generate resource tokens and perform authentication	
Request resource tokens and perform authentication	

The .NET web service will be used to:

	▼
Create users and generate resource tokens	
Create users and request resource tokens	
Generate resource tokens and perform authentication	
Request resource tokens and perform authentication	

**Answer:**

The Azure Cosmos DB account will be used to:

	▼
Create users and generate resource tokens	
Create users and request resource tokens	
Generate resource tokens and perform authentication	
Request resource tokens and perform authentication	

The .NET web service will be used to:

	▼
Create users and generate resource tokens	
Create users and request resource tokens	
Generate resource tokens and perform authentication	
Request resource tokens and perform authentication	

**Question: 349**

Question Set 1

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployments in your subscription.

What should you include in the recommendation?

- A . the Change Tracking management solution
- B . Application Insights
- C . Azure Monitor action groups
- D . Azure Activity Log

**Answer: D**

Explanation:

Activity logs are kept for 90 days. You can query for any range of dates, as long as the starting date isn't more than 90 days in the past.

Through activity logs, you can determine:

- what operations were taken on the resources in your subscription
- who started the operation
- when the operation occurred
- the status of the operation
- the values of other properties that might help you research the operation

Reference: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/view-activity-logs>

### Question: 350

You have an Azure subscription that contains an Azure SQL database named DB1.

Several queries that query the data in DB1 take a long time to execute.

You need to recommend a solution to identify the queries that take the longest to execute.

What should you include in the recommendation?

- A . SQL Database Advisor
- B . Azure Monitor
- C . Performance Recommendations
- D . Query Performance Insight

### Answer: D

Explanation:

Query Performance Insight provides intelligent query analysis for single and pooled databases. It helps identify the top resource consuming and long-running queries in your workload. This helps you find the queries to optimize to improve overall workload performance and efficiently use the resource that you are paying for.

Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/database/query-performance-insight-use>



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