



Microsoft

AZ-305

**Designing Microsoft
Azure Infrastructure
Solutions**

Version: Demo

[Total Questions: 10]

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Exam Topic Breakdown

Exam Topic	Number of Questions
Topic 2 : Fabrikam, inc Case Study A	2
Topic 1 : Litware, Inc	2
Topic 4 : HABInsurance	2
Topic 5 : Misc. Questions	2
Topic 3 : Contoso	2
TOTAL	10

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Topic 2, 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. The R&D department is restricted to using on-premises resources 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.fabhkam.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 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.

Question #:1 - [\(Exam Topic 2\)](#)

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: A

Question #:2 - [\(Exam Topic 2\)](#)

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

Topic 1, Litware, Inc

Case Study

This is a case study. **Case studies are not timed separately. You can use as much exam time as you would like to complete each case.** However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

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To start the case study

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Overview. General Overview

Litware, Inc. is a medium-sized finance company.

Overview. Physical Locations

Litware has a main office in Boston.

Existing Environment. Identity Environment

The network contains an Active Directory forest named Litware.com that is linked to an Azure Active Directory (Azure AD) tenant named Litware.com. All users have Azure Active Directory Premium P2 licenses.

Litware has a second Azure AD tenant named dev.Litware.com that is used as a development environment.

The Litware.com tenant has a conditional access policy named capolicy1. Capolicy1 requires that when users manage the Azure subscription for a production environment by using the Azure portal, they must connect from a hybrid Azure AD-joined device.

Existing Environment. Azure Environment

Litware has 10 Azure subscriptions that are linked to the Litware.com tenant and five Azure subscriptions that are linked to the dev.Litware.com tenant. All the subscriptions are in an Enterprise Agreement (EA).

The Litware.com tenant contains a custom Azure role-based access control (Azure RBAC) role named Role1 that grants the DataActions read permission to the blobs and files in Azure Storage.

Existing Environment. On-premises Environment

The on-premises network of Litware contains the resources shown in the following table.

Name	Type	Configuration
SERVER1 SERVER2 SERVER3	Ubuntu 18.04 virtual machines hosted on Hyper-V	The virtual machines host a third-party app named App1. App1 uses an external storage solution that provides Apache Hadoop-compatible data storage. The data storage supports POSIX access control list (ACL) file-level permissions.
SERVER10	Server that runs Windows Server 2016	The server contains a Microsoft SQL Server instance that hosts two databases named DB1 and DB2.

Existing Environment. Network Environment

Litware has ExpressRoute connectivity to Azure.

Planned Changes and Requirements. Planned Changes

Litware plans to implement the following changes:

- Migrate DB1 and DB2 to Azure.
- Migrate App1 to Azure virtual machines.
- Deploy the Azure virtual machines that will host App1 to Azure dedicated hosts.

Planned Changes and Requirements. Authentication and Authorization Requirements

Litware identifies the following authentication and authorization requirements:

- Users that manage the production environment by using the Azure portal must connect from a hybrid Azure AD-joined device and authenticate by using Azure Multi-Factor Authentication (MFA).
- The Network Contributor built-in RBAC role must be used to grant permission to all the virtual networks in all the Azure subscriptions.
- To access the resources in Azure, App1 must use the managed identity of the virtual machines that will host the app.
- Role1 must be used to assign permissions to the storage accounts of all the Azure subscriptions.

- ➔ RBAC roles must be applied at the highest level possible.

Planned Changes and Requirements. Resiliency Requirements

Litware identifies the following resiliency requirements:

- ➔ Once migrated to Azure, DB1 and DB2 must meet the following requirements:
 - Maintain availability if two availability zones in the local Azure region fail.
 - Fail over automatically.
 - Minimize I/O latency.
- ➔ App1 must meet the following requirements:
 - Be hosted in an Azure region that supports availability zones.
 - Be hosted on Azure virtual machines that support automatic scaling.
 - Maintain availability if two availability zones in the local Azure region fail.

Planned Changes and Requirements. Security and Compliance Requirements

Litware identifies the following security and compliance requirements:

- ➔ Once App1 is migrated to Azure, you must ensure that new data can be written to the app, and the modification of new and existing data is prevented for a period of three years.
- ➔ On-premises users and services must be able to access the Azure Storage account that will host the data in App1.
- ➔ Access to the public endpoint of the Azure Storage account that will host the App1 data must be prevented.
- ➔ All Azure SQL databases in the production environment must have Transparent Data Encryption (TDE) enabled.
- ➔ App1 must not share physical hardware with other workloads.

Planned Changes and Requirements. Business Requirements

Litware identifies the following business requirements:

- ➔ Minimize administrative effort.
- ➔ Minimize costs.

Question #:3 - ([Exam Topic 1](#))

You need to configure an Azure policy to ensure that the Azure SQL databases have TDE enabled. The solution must meet the security and compliance requirements.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Create an Azure policy definition that uses the deployIfNotExists effect.	
Create a user-assigned managed identity.	
Invoke a remediation task.	<div> <div>⬅</div> <div>➡</div> </div>
Create an Azure policy assignment.	
Create an Azure policy definition that uses the Modify effect.	<div> <div>⬆</div> <div>⬇</div> </div>

Answer:

Actions

- Create an Azure policy definition that uses the deployIfNotExists effect.
- Create a user-assigned managed identity.
- Invoke a remediation task.
- Create an Azure policy assignment.
- Create an Azure policy definition that uses the Modify effect.

Answer Area

- Create an Azure policy definition that uses the deployIfNotExists effect.
- Create an Azure policy assignment.
- Invoke a remediation task.

Explanation

A picture containing text Description automatically generated

- Create an Azure policy definition that uses the deployIfNotExists effect.
- Create an Azure policy assignment.
- Invoke a remediation task.

Scenario: All Azure SQL databases in the production environment must have Transparent Data Encryption (TDE) enabled.

Step 1: Create an Azure policy definition that uses the deployIfNotExists identity.

The first step is to define the roles that deployIfNotExists and modify needs in the policy definition to successfully deploy the content of your included template.

Step 2: Create an Azure policy assignment

When creating an assignment using the portal, Azure Policy both generates the managed identity and grants it the roles defined in roleDefinitionIds.

Step 3: Invoke a remediation task

Resources that are non-compliant to a deployIfNotExists or modify policy can be put into a compliant state through Remediation. Remediation is accomplished by instructing Azure Policy to run the deployIfNotExists effect or the modify operations of the assigned policy on your existing resources and subscriptions, whether that assignment is to a management group, a subscription, a resource group, or an individual resource.

During evaluation, the policy assignment with deployIfNotExists or modify effects determines if there are non-compliant resources or subscriptions. When non-compliant resources or subscriptions are found, the details are provided on the Remediation page.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/how-to/remediate-resources>

Question #:4 - (Exam Topic 1)

You need to implement the Azure RBAC role assignments for the Network Contributor role. The solution must meet the authentication and authorization requirements.

What is the minimum number of assignments that you must use?

- A. 1
- B. 2
- C. 5
- D. 10
- E. 15

Answer: A

Explanation

Scenario: The Network Contributor built-in RBAC role must be used to grant permissions to the network administrators for all the virtual networks in all the Azure subscriptions.

RBAC roles must be applied at the highest level possible.

Topic 4, HABInsurance

Case Study

An insurance company, HABInsurance, operates in three states and provides home, auto, and boat insurance. Besides the head office, HABInsurance has three regional offices.

Current environment

General

An insurance company, HABInsurance, operates in three states and provides home, auto, and boat insurance. Besides the head office, HABInsurance has three regional offices.

Technology assessment

The company has two Active Directory forests: main.habinsurance.com and region.habinsurance.com. HABInsurance's primary internal system is Insurance Processing System (IPS). It is an ASP.Net/C# application running on IIS/Windows Servers hosted in a data center. IPS has three tiers: web, business logic API, and a datastore on a back end. The company uses Microsoft SQL Server and MongoDB for the backend. The system has two parts: Customer data and Insurance forms and documents. Customer data is stored in Microsoft SQL Server and Insurance forms and documents — in MongoDB. The company also has 10 TB of Human Resources (HR) data stored on NAS at the head office location. Requirements

General

HABInsurance plans to migrate its workloads to Azure. They purchased an Azure subscription. Changes

During a transition period, HABInsurance wants to create a hybrid identity model along with a Microsoft Office 365 deployment. The company intends to sync its AD forests to Azure AD and benefit from Azure AD administrative units functionality.

HABInsurance needs to migrate the current IPSCustomers SQL database to a new fully managed SQL database in Azure that would be budget-oriented, balanced with scalable compute and storage options. The management team expects the Azure database service to scale the database resources dynamically with minimal downtime. The technical team proposes implementing a DTU-based purchasing model for the new database.

HABInsurance wants to migrate Insurance forms and documents to Azure database service. HABInsurance plans to move IPS first two tiers to Azure without any modifications. The technology team discusses the possibility of running IPS tiers on a set of virtual machines instances. The number of instances should be adjusted automatically based on the CPU utilization. An SLA of 99.95% must be guaranteed for the compute infrastructure.

The company needs to move HR data to Azure File shares.

In their new Azure ecosystem, HABInsurance plans to use internal and third-party applications. The company considers adding user consent for data access to the registered applications

Later, the technology team contemplates adding a customer self-service portal to IPS and deploying a new IPS to multi-region ASK. But the management team is worried about performance and availability of the multi-region AKS deployments during regional outages.

What two parameters would you recommend set up to ensure that the new IPS Customers database will scale to meet the workload demands?

- A. Define the maximum of CPU cores
- B. Define the maximum resource limit per group of databases
- C. Define the maximum of Database Transaction Units
- D. Define the maximum of the allocated storage
- E. Define the maximum size for a database

Answer: C,E

Question #:5 - [\(Exam Topic 4\)](#)

A company is planning on deploying an application onto Azure. The application will be based on the .Net core programming language. The application would be hosted using Azure Web apps. Below is part of the various requirements for the application

Give the ability to correlate Azure resource usage and the performance data with the actual application configuration and performance data

Give the ability to visualize the relationships between application components

Give the ability to track requests and exceptions to specific lines of code from within the application Give the ability to actually analyse how uses return to an application and see how often they only select a particular drop-down value

Which of the following service would be best suited for fulfilling the requirement of

“Give the ability to correlate Azure resource usage and the performance data with the actual application configuration and performance data”

- A. Azure Application Insights
- B. Azure Service Map
- C. Azure Log Analytics
- D. Azure Activity Log

Answer: C

Question #:6 - (Exam Topic 4)

A company has an on-premises file server cbflserver that runs Windows Server 2019. Windows Admin Center manages this server. The company owns an Azure subscription. You need to provide an Azure solution to prevent data loss if the file server fails.

Solution: You decide to register Windows Admin Center in Azure and then configure Azure Backup.

Would this meet the requirement?

- A. Yes
- B. No

Answer: A

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Topic 5, Misc. Questions

Question #:7 - (Exam Topic 5)

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.

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Use the Azure Traffic Analytics solution in Azure Log Analytics to analyze the network traffic.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation

Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.

Reference:

<https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview>

<https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview>

Question #:8 - (Exam Topic 5)

You are designing an Azure Cosmos DB solution that will host multiple writable replicas in multiple Azure regions.

You need to recommend the strongest database consistency level for the design. The solution must meet the following requirements:

- Provide a latency-based Service Level Agreement (SLA) for writes.

➡ Support multiple regions.

Which consistency level should you recommend?

- A. bounded staleness
- B. strong
- C. session
- D. consistent prefix

Answer: A

Explanation

Each level provides availability and performance tradeoffs. The following image shows the different consistency levels as a spectrum.

Timeline Description automatically generated



Note: The service offers comprehensive 99.99% SLAs which covers the guarantees for throughput, consistency, availability and latency for the Azure Cosmos DB Database Accounts scoped to a single Azure region configured with any of the five Consistency Levels or Database Accounts spanning multiple Azure regions, configured with any of the four relaxed Consistency Levels.

Reference:

https://azure.microsoft.com/en-us/support/legal/sla/cosmos-db/v1_3/

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels#consistency-levels-and-latency>

Topic 3, Contoso

Case Study

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Existing Environment: Technical Environment

The on-premises network contains a single Active Directory domain named contoso.com.

Contoso has a single Azure subscription.

Existing Environment: Business Partnerships

Contoso has a business partnership with Fabrikam, Inc. Fabrikam users access some Contoso applications over the internet by using Azure Active Directory (Azure AD) guest accounts.

Requirements: Planned Changes

Contoso plans to deploy two applications named App1 and App2 to Azure.

Requirements: App1

App1 will be a Python web app hosted in Azure App Service that requires a Linux runtime. Users from Contoso and Fabrikam will access App1.

App1 will access several services that require third-party credentials and access strings. The credentials and access strings are stored in Azure Key Vault.

App1 will have six instances: three in the East US Azure region and three in the West Europe Azure region.

App1 has the following data requirements:

- ➔ Each instance will write data to a data store in the same availability zone as the instance.
- ➔ Data written by any App1 instance must be visible to all App1 instances.

App1 will only be accessible from the internet. App1 has the following connection requirements:

- ➔ Connections to App1 must pass through a web application firewall (WAF).
- ➔ Connections to App1 must be active-active load balanced between instances.
- ➔ All connections to App1 from North America must be directed to the East US region. All other connections must be directed to the West Europe region.

Every hour, you will run a maintenance task by invoking a PowerShell script that copies files from all the App1 instances. The PowerShell script will run from a central location.

Requirements: App2

App2 will be a NET app hosted in App Service that requires a Windows runtime. App2 has the following file storage requirements:

- ➔ Save files to an Azure Storage account.
- ➔ Replicate files to an on-premises location.
- ➔ Ensure that on-premises clients can read the files over the LAN by using the SMB protocol.

You need to monitor App2 to analyze how long it takes to perform different transactions within the application. The solution must not require changes to the application code.

Application Development Requirements

Application developers will constantly develop new versions of App1 and App2. The development process must meet the following requirements:

- ➔ A staging instance of a new application version must be deployed to the application host before the new version is used in production.
- ➔ After testing the new version, the staging version of the application will replace the production version.
- ➔ The switch to the new application version from staging to production must occur without any downtime of the application.

Identity Requirements

Contoso identifies the following requirements for managing Fabrikam access to resources:

- ➔ ➔ Every month, an account manager at Fabrikam must review which Fabrikam users have access permissions to App1. Accounts that no longer need permissions must be removed as guests.
- ➔ The solution must minimize development effort.

Security Requirement

All secrets used by Azure services must be stored in Azure Key Vault.

Services that require credentials must have the credentials tied to the service instance. The credentials must **NOT** be shared between services.

Question #:9 - (Exam Topic 3)

You need to recommend a solution to ensure that App1 can access the third-party credentials and access strings. The solution must meet the security requirements.

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.

Authenticate App1 by using:

- | | |
|--------------------------|------------------------------------|
| <input type="checkbox"/> | A certificate |
| <input type="checkbox"/> | A service principal |
| <input type="checkbox"/> | A system-assigned managed identity |
| <input type="checkbox"/> | A user-assigned managed identity |

Authorize App1 to retrieve Key Vault secrets by using:

- | | |
|--------------------------|---------------------|
| <input type="checkbox"/> | An access policy |
| <input type="checkbox"/> | A connected service |
| <input type="checkbox"/> | A private link |
| <input type="checkbox"/> | A role assignment |

Answer:

Authenticate App1 by using:

A certificate	
A service principal	
A system-assigned managed identity	
A user-assigned managed identity	

Authorize App1 to retrieve Key Vault secrets by using:

An access policy	
A connected service	
A private link	
A role assignment	

Explanation

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Authenticate App1 by using:

A certificate	
A service principal	
A system-assigned managed identity	
A user-assigned managed identity	

Authorize App1 to retrieve Key Vault secrets by using:

An access policy	
A connected service	
A private link	
A role assignment	

Scenario: Security Requirement

All secrets used by Azure services must be stored in Azure Key Vault.

Services that require credentials must have the credentials tied to the service instance. The credentials must NOT be shared between services.

Box 1: A service principal

A service principal is a type of security principal that identifies an application or service, which is to say, a piece of code rather than a user or group. A service principal's object ID is known as its client ID and acts like its username. The service principal's client secret acts like its password.

Note: Authentication with Key Vault works in conjunction with Azure Active Directory (Azure AD), which is responsible for authenticating the identity of any given security principal.

A security principal is an object that represents a user, group, service, or application that's requesting access to Azure resources. Azure assigns a unique object ID to every security principal.

Box 2: A role assignment

You can provide access to Key Vault keys, certificates, and secrets with an Azure role-based access control.

Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/general/authentication>

Question #:10 - (Exam Topic 3)

You need to recommend a solution that meets the application development requirements.

What should you include in the recommendation?

- A. the Azure App Configuration service
- B. Continuous Integration/Continuous Deployment (CI/CD) sources
- C. deployment slots
- D. an Azure Container Registry instance

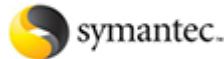
Answer: C

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