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## Microsoft

### AZ-303



Microsoft Azure  
Architect Technologies

**Version: Demo**

**[ Total Questions: 10]**

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**Exam Topic Breakdown**

Exam Topic	Number of Questions
<a href="#">Topic 1 : Contoso, Ltd</a>	4
<a href="#">Topic 3 : Misc. Questions</a>	4
<a href="#">Topic 2 : Litware inc.</a>	2
TOTAL	10

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## Topic 1, Contoso, Ltd

### Overview

Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.

Contoso products are manufactured by using blueprint files that the company authors and maintains.

### Existing Environment

Currently, Contoso uses multiple types of servers for business operations, including the following:

- File servers
- Domain controllers
- Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.

You have a public-facing application named App1. App1 is comprised of the following three tiers:

- A SQL database
- A web front end
- A processing middle tier

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

### Requirements

### Planned Changes

Contoso plans to implement the following changes to the infrastructure:

- Move all the tiers of App1 to Azure.
- Move the existing product blueprint files to Azure Blob storage.
- Create a hybrid directory to support an upcoming Microsoft Office 365 migration project.

### Technical Requirements

Contoso must meet the following technical requirements:

- ➔ Move all the virtual machines for App1 to Azure.
- ➔ Minimize the number of open ports between the App1 tiers.
- ➔ Ensure that all the virtual machines for App1 are protected by backups.
- ➔ Copy the blueprint files to Azure over the Internet.
- ➔ Ensure that the blueprint files are stored in the archive storage tier.
- ➔ Ensure that partner access to the blueprint files is secured and temporary.
- ➔ Prevent user passwords or hashes of passwords from being stored in Azure.
- ➔ Use unmanaged standard storage for the hard disks of the virtual machines.
- ➔ Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

#### User Requirements

Contoso identifies the following requirements for users:

Ensure that only users who are part of a group named Pilot can join devices to Azure AD.

Designate a new user named Admin1 as the service administrator of the Azure subscription.

Ensure that a new user named User3 can create network objects for the Azure subscription.

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

You need to recommend an identify solution that meets the technical requirements.

What should you recommend?

- A. federated single-on (SSO) and Active Directory Federation Services (AD FS)
- B. password hash synchronization and single sign-on (SSO)
- C. cloud-only user accounts
- D. Pass-through Authentication and single sign-on (SSO)

**Answer: D**

#### Explanation

Active Directory Federation Services is a feature and web service in the Windows Server Operating System

that allows sharing of identity information outside a company's network.

Scenario: Technical Requirements include:

Prevent user passwords or hashes of passwords from being stored in Azure.

References: <https://www.sherweb.com/blog/active-directory-federation-services/>

### Question #:2 - (Exam Topic 1)

You need to recommend a solution for App1. The solution must meet the technical 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.

Number of virtual networks:

	▼
1	
2	
3	

Number of subnets per virtual network:

	▼
1	
2	
3	

Answer:

Number of virtual networks:

	▼
1	
2	
3	

Number of subnets per virtual network:

	▼
1	
2	
3	

**Explanation**

Number of virtual networks:

	▼
1	
2	
3	

Number of subnets per virtual network:

	▼
1	
2	
3	

Box 1: 3

One virtual network for every tier

Box 2: 1

Only one subnet for each tier, to minimize the number of open ports.

Scenario: You have a public-facing application named App1. App1 is comprised of the following three tiers:

- ➔ A SQL database
- ➔ A web front end
- ➔ A processing middle tier

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Technical requirements:

- ➔ Move all the virtual machines for App1 to Azure.
- ➔ Minimize the number of open ports between the App1 tiers.

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

You need to identify the storage requirements for Contoso.

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
Contoso requires a storage account that supports Blob storage.	<input type="radio"/>	<input type="radio"/>
Contoso requires a storage account that supports Azure Table storage.	<input type="radio"/>	<input type="radio"/>
Contoso requires a storage account that supports Azure File Storage.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Statements	Yes	No
Contoso requires a storage account that supports Blob storage.	<input checked="" type="radio"/>	<input type="radio"/>
Contoso requires a storage account that supports Azure Table storage.	<input type="radio"/>	<input checked="" type="radio"/>
Contoso requires a storage account that supports Azure File Storage.	<input type="radio"/>	<input checked="" type="radio"/>

### Explanation

Statements	Yes	No
Contoso requires a storage account that supports Blob storage.	<input type="radio"/>	<input type="radio"/>
Contoso requires a storage account that supports Azure Table storage.	<input type="radio"/>	<input type="radio"/>
Contoso requires a storage account that supports Azure File Storage.	<input type="radio"/>	<input type="radio"/>

Box 1: Yes

Contoso is moving the existing product blueprint files to Azure Blob storage.

Use unmanaged standard storage for the hard disks of the virtual machines. We use Page Blobs for these.

Box 2: No

Box 3: No

### Question #:4 - [\(Exam Topic 1\)](#)

You need to implement a backup solution for App1 after the application is moved.



What should you create first?

- A. a recovery plan
- B. an Azure Backup Server
- C. a backup policy
- D. a Recovery Services vault

**Answer: D**

### **Explanation**

A Recovery Services vault is a logical container that stores the backup data for each protected resource, such as Azure VMs. When the backup job for a protected resource runs, it creates a recovery point inside the Recovery Services vault.

Scenario:

There are three application tiers, each with five virtual machines.

Move all the virtual machines for App1 to Azure.

Ensure that all the virtual machines for App1 are protected by backups.

References: <https://docs.microsoft.com/en-us/azure/backup/quick-backup-vm-portal>

## Topic 3, Misc. Questions

### Question #:5 - (Exam Topic 3)

You are designing a solution to secure a company's Azure resources. The environment hosts 10 teams. Each team manages a project and has a project manager, a virtual machine (VM) operator, developers, and contractors.

Project managers must be able to manage everything except access and authentication for users. VM operators must be able to manage VMs, but not the virtual network or storage account to which they are connected. Developers and contractors must be able to manage storage accounts.

You need to recommend roles for each member.

What should you recommend? To answer, drag the appropriate roles to the correct employee types. Each role 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.

Roles	Answer area	Employee type	Role
Owner		Project manager	Role
Contributor		VM operators	Role
Reader		Developers	Role
Virtual Machine Contributor		Contractors	Role
Storage Account Contributor			

### Answer:

Roles	Answer area	Employee type	Role
Owner		Project manager	Contributor
Contributor		VM operators	Virtual Machine Contributor
Reader		Developers	Storage Account Contributor
Virtual Machine Contributor		Contractors	Storage Account Contributor
Storage Account Contributor			

### Explanation

Employee type	Role
Project manager	Contributor
VM operators	Virtual Machine Contributor
Developers	Storage Account Contributor
Contractors	Storage Account Contributor

**Question #6 - (Exam Topic 3)**

You have Azure virtual machines that have Update Management enabled. The virtual machines are configured as shown in the following table.

Name	Operating system	Resource group	Location
VM1	Windows Server 2012 R2	RG1	East US
VM2	Windows Server 2016	RG1	West US
VM3	Windows Server 2019	RG2	West US
VM4	Red Hat Enterprise Linux 7.7	RG2	West US
VM5	Ubuntu Server 18.04 LTS	RG1	East US
VM6	CentOS-based 7.7	RG1	East US

You need to ensure that all critical and security updates are applied to each virtual machine every month. What is the minimum number of update deployments you should create?

- A. 4
- B. 6
- C. 1
- D. 2

**Answer: A**

**Explanation**

One for the Windows VMs, and for each type of Linux VM.

Reference:

<https://docs.microsoft.com/en-us/azure/automation/update-management/overview>

**Question #7 - (Exam Topic 3)**

Your network contains an on-premises Active Directory domain. The domain contains the Hyper-V failover clusters shown in the following table.

Name	Number of nodes	Number of virtual machines
Cluster1	2	12
Cluster2	4	10
Cluster3	6	40

You plan to assess and migrate the virtual machines by using Azure Migrate.

What is the minimum number of Azure Migrate appliances and Microsoft Azure Recovery Services (MARS) agents required?

NOTE: Each correct selection is worth one point.

Azure Migrate appliances:

1

3

12

62

MARS agents:

1

3

12

62

**Answer:**

Azure Migrate appliances:

1
3
12
62

MARS agents:

1
3
12
62

### Explanation

Azure Migrate appliances:

1
3
12
62

MARS agents:

1
3
12
62

Box 1: 3

One appliance for each cluster.

Box 2: 12

One MARS agent for each node.

Reference:

<https://docs.microsoft.com/en-us/azure/migrate/tutorial-migrate-hyper-v>

Question #:8 - [\(Exam Topic 3\)](#)

Your company has an Azure Container Registry named Registry1.

You have an Azure virtual machine named Server1 that runs Windows Server 2019.

From Server1, you create a container image named image1.

You need to add image1 to Registry1.

Which command should you run on Server1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

	▼	push		▼	/image1
docker			registry1.azurecr.io		
AzCopy			registry1.onmicrosoft.com		
Robocopy			https://registry1.onmicrosoft.com		
esentutl			\\registry1.blob.core.windows.net		

**Answer:**

	▼	push		▼	/image1
docker			registry1.azurecr.io		
AzCopy			registry1.onmicrosoft.com		
Robocopy			https://registry1.onmicrosoft.com		
esentutl			\\registry1.blob.core.windows.net		

## Explanation

	▼	push		▼	/image1
docker			registry1.azurecr.io		
AzCopy			registry1.onmicrosoft.com		
Robocopy			https://registry1.onmicrosoft.com		
esentutl			\\registry1.blob.core.windows.net		

An Azure container registry stores and manages private Docker container images, similar to the way Docker Hub stores public Docker images. You can use the Docker command-line interface (Docker CLI) for login, push, pull, and other operations on your container registry.

Reference:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-get-started-docker-cli>

<https://docs.docker.com/engine/reference/commandline/push/>



## Topic 2, 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.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

### To start the case study

To display the first question in this case study, click the **Next** button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an **All Information** tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the **Question** button to return to the question.

### Overview. General Overview

Litware, Inc. is a medium-sized finance company. Litware recently acquired a financial services company named Fabrikam, Ltd.

### Overview. Physical Locations

Litware has a datacenter in Boston. Fabrikam has a datacenter in San Francisco.

### Existing Environment. Identity Environment

The network of Litware contains an Active Directory forest named Litware.com that syncs to an Azure Active Directory (Azure AD) tenant named Litware.com by using Azure AD Connect.

Azure AD Seamless Single Sign-on (Azure AD Seamless SSO) is enabled for the Litware.com tenant.

Users at Litware have a UPN suffix of Litware.com

Litware has an internal certification authority (CA) that is trusted by all devices.

The network of Fabrikam contains an Active Directory forest named fabrikam.com. Users at Fabrikam have a UPN suffix of fabrikam.com.

**Existing Environment. Azure Environment**

Litware has an Azure subscription named Sub1 that is linked to the Litware.com tenant. Sub1 contains the resources shown in the following table.

Name	Type	Azure region	Configuration
VNet1	Virtual network	East US	None
KV1	Azure key vault	East US	None
storage1	Storage account	East US	BlockBlobStorage
storage2	Storage account	East US	Storage (general purpose v1) Contains 500 GB of NoSQL data in Azure Table storage
VPN1	Virtual network gateway	East US	Deployed to VNet1
FW1	Azure Firewall	East US	Deployed to VNet1

Litware has Azure Resource Manager (ARM) templates that deploy Azure Policy definitions and assignments to a management group.

Fabrikam does NOT have an Azure environment.

**Existing Environment. On-Premises Environment**

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

Name	Operating system	Configuration
DC1	Windows Server 2019	Domain controller DNS server
WEB1	Windows Server 2016	Internet Information Services (IIS) server Hosts an internet facing ASP.NET web app named WebApp1

The on-premises network of Fabrikam contains a domain member server named SERVER1 that runs Windows Server 2019.

**Existing Environment. Network Environment**

Litware has a site-to-site VPN connection to VNet1.

The Litware and Fabrikam datacenters are not connected.

**Requirements. Planned Changes**

Litware plans to implement the following changes:

- Establish a trust relationship between the Litware and Fabrikam forests.
- Migrate data from the on-premises NoSQL datastores to Azure Table storage.



- ➔ Containerize WebApp1 and deploy the app to an Azure Kubernetes Service (AKS) cluster on VNet1.
- ➔ Create an Azure blueprint named BP1 and use the blueprint to provision a resource group named RG1.

### **Requirements. Deployment Requirements**

Litware identifies the following deployment requirements:

- ➔ The existing ARM templates must be used for deployments to Sub1.
- ➔ WebApp1 must be deployed to the AKS cluster without having to change the source code.

### **Requirements. Authentication and Authorization Requirements**

Litware identifies the following authentication and authorization requirements:

- ➔ The Fabrikam users must be able to authenticate to the Litware.com tenant by using Azure AD Seamless SSO.
- ➔ The Fabrikam users and the Litware users must be able to manage the Azure resources in Sub1.
- ➔ Company policy must prohibit the creation of guest user accounts in the Litware.com tenant.
- ➔ You must be able to configure deny permissions for RG1 and for the resources in RG1.
- ➔ WebApp1 running on the AKS cluster must be able to retrieve secrets from KV1.

### **Requirements. Security Requirements**

Litware identifies the following security requirements:

- ➔ On-premises Litware users must access KVI by using the private IP address of the key vault.
- ➔ Azure virtual machines must have all their disks encrypted, including the temporary disks.
- ➔ Azure Storage must encrypt all data by using keys issued by the internal CA of Litware.
- ➔ Inbound HTTPS traffic to WebApp1 must be inspected for SQL injection attacks.
- ➔ The principle of least privilege must be used.

### **Question #:9 - ([Exam Topic 2](#))**

You need to ensure that the virtual machine disks are encrypted. The solution must meet the security requirements.

Which three actions should you perform in Sub1 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**

- Create a key in KV1 and configure a disk encryption set.
- Register the Microsoft.Compute encryption provider feature.
- Deploy the virtual machines and set Encryption at host to **Yes**.
- Register the Microsoft.KeyVault resource provider.
- Deploy the virtual machines and enable Azure Disk Encryption.

**Answer Area****Answer:****Actions**

- Create a key in KV1 and configure a disk encryption set.
- Register the Microsoft.Compute encryption provider feature.
- Deploy the virtual machines and set Encryption at host to **Yes**.
- Register the Microsoft.KeyVault resource provider.
- Deploy the virtual machines and enable Azure Disk Encryption.

**Answer Area**

- Register the Microsoft.Compute encryption provider feature.
- Create a key in KV1 and configure a disk encryption set.
- Deploy the virtual machines and set Encryption at host to **Yes**.

**Explanation**

- Register the Microsoft.Compute encryption provider feature.
- Create a key in KV1 and configure a disk encryption set.
- Deploy the virtual machines and set Encryption at host to **Yes**.

Text Description automatically generated

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/disks-enable-host-based-encryption-portal>

**Question #:10 - (Exam Topic 2)**

You need to ensure that the NoSQL data is encrypted. The solution must meet the security requirements.

What should you do first?

- A. Upgrade storage2 to StorageV2 (general purpose v2).
- B. Create a new general-purpose v2 storage account.
- C. Create a new Azure Blob storage account.
- D. Modify the Encryption settings of storage2.

**Answer: B**

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/account-encryption-key-create?toc=%2Fazure%2Fstorage>

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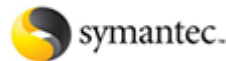
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