***Case Study 1:***

**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.

**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 the blueprint files are stored in the archive storage tier.

\* 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 -** 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.

(question belongs to scenario)



Answers:

1. YES
2. NO
3. YES

**Case Study 2 –**

**Introductory Info**

**Overview –**

Litware, Inc. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York. The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees. All the resources used by Litware are hosted on-premises. Litware creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named litware.onmicrosoft.com. The tenant uses the P1 pricing tier.

**Existing Environment –**

The network contains an Active Directory forest named litware.com. All domain controllers are configured as DNS servers and host the litware.com DNS zone. Litware has finance, human resources, sales, research, and information technology departments. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the department attribute set to their respective department. New users are added frequently. Litware.com contains a user named User1. All the offices connect by using private connections.

Litware has data centres in the Montreal and Seattle offices. Each office has a firewall that can be configured as a VPN device. All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.



Litware uses two web applications named App1 and App2. Each instance on each web application requires 1 GB of memory. The Azure subscription contains the resources in the following table.



The network security team implements several network security groups (NSGs)

**Requirements.**

**Planned Changes –**

Litware plans to implement the following changes:

Deploy Azure ExpressRoute to the Montreal office.

Migrate the virtual machines hosted on Server1 and Server2 to Azure.

Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).

Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Litware plans to divide the section into different departments into finance, human resources, sales, research, and information technology.

**Technical Requirements –**

Litware must meet the following technical requirements:

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.

Enable Azure Multi-Factor Authentication (MFA) for the users in the finance department only.

Create a custom Azure role named Role1 that is based on the Reader role. Minimize costs whenever possible.

**Question 1 –** How do you enable the MFA for the Finance department ?

1. Go to the Active Directory 🡪 Go to the particular user 🡪 Click on Per-User MFA 🡪 Select your Azure Account 🡪Click on Enable
2. Go to the Active Directory 🡪 Go to Users 🡪 Go to the particular user 🡪 Click on Per-User MFA 🡪 Select your Azure Account 🡪Click on User to whom you want to enable 🡪 Click on Enable.
3. Go to the particular user 🡪 Click on Per-User MFA 🡪 Select your Azure Account 🡪Click on User to whom you want to enable 🡪 Click on Enable.
4. Go to the Active Directory 🡪 Go to the particular user 🡪 Click on Per-User MFA 🡪Click on User to whom you want to enable 🡪 Click on Enable.

Answer -> B

**Question 2** – In order to assign the user 1 from finance department only to create the resources in the subscription, What RBAC role must be assigned to User1

A. Contributor

B. Reader

C. Owner

D. User access administrator.

Answer -> A