# CERTSOUT

**Microsoft**

**AZ-104**

# Microsoft Azure Administrator Exam

**Version: Demo**

**[ Total Questions: 10]**

# IMPORTANT NOTICE

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**Exam Topic Breakdown**

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| TOTAL | 10 |

# Topic 5, Misc. Questions Set B

You have an Azure Active Directory (Azure AD) domain that contains 5,000 user accounts. You create a new user account named AdminUser1.

You need to assign the User administrator administrative role to AdminUser1.

What should you do from the user account properties?

   A.  From the Directory role blade, modify the directory role.

   B.  From the Groups blade, invite the user account to a new group.

   C.  From the Licenses blade, assign a new license.

**Answer: A**

## Explanation

Assign a role to a user

   ➡ Sign in to the Azure portal with an account that's a global admin or privileged role admin for the directory.

   ➡ Select Azure Active Directory, select Users, and then select a specific user from the list.

   ➡ For the selected user, select Directory role, select Add role, and then pick the appropriate admin roles from the Directory roles list, such as Conditional access administrator.

   ➡ Press Select to save.

References:
https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-users-assign-role-azure-p

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.

You have an Azure subscription that contains 10 virtual networks. The virtual networks are hosted in separate resource groups.

Another administrator plans to create several network security groups (NSGs) in the subscription.

You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.

Solution: You assign a built-in policy definition to the subscription.

Does this meet the goal?

    A.  Yes

    B.  No

**Answer: B**

## Explanation

Resource policy definition used by Azure Policy enables you to establish conventions for resources in your organization by describing when the policy is enforced and what effect to take. However, there are no built-in policy definitions. Though there are sample policy defintions.

Reference:

https://docs.microsoft.com/en-us/azure/azure-policy/policy-definition

# Topic 3, 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.

➡ Admin1 must receive email alerts regarding service outages.

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

Question #:3 - (Exam Topic 3)

You need to configure the Device settings to meet the technical requirements and the user requirements.

Which two settings should you modify? To answer, select the appropriate settings in the answer area.

## Answer Area

🖫 Save      ✖ Discard

Users may join devices to Azure AD ❶      | **All** | Selected | None |

Selected

No member selected

---

Additional local administrators on Azure AD joined devices ❶      | Selected | **None** |

Selected

No member selected

---

Users may register their devices with Azure AD ❶      | **All** | None |

Require Multi-Factor Auth to join devices ❶      | Yes | **No** |

Maximum number of devices per user ❶      50

---

Users may sync settings and app data across devices ❶      | All | Selected | **None** |

Selected

No member selected

**Answer:**

## Answer Area

💾 Save     ✖ Discard

Users may join devices to Azure AD ❶     | **All** | Selected | None |

Selected

No member selected

---

Additional local administrators on Azure AD joined devices ❶     | Selected | **None** |

Selected

No member selected

---

Users may register their devices with Azure AD ❶     | **All** | None |

Require Multi-Factor Auth to join devices ❶     | Yes | **No** |

Maximum number of devices per user ❶     50

---

Users may sync settings and app data across devices ❶     | All | Selected | **None** |

Selected

No member selected

## Explanation

Save    Discard

Users may join devices to Azure AD ⓘ    [ All ] [ Selected ] [ None ]

Selected
No member selected

Additional local administrators on Azure AD joined devices ⓘ    [ Selected ] [ None ]

Selected
No member selected

Users may register their devices with Azure AD ⓘ    [ All ] [ None ]

Require Multi-Factor Auth to join devices ⓘ    [ Yes ] [ No ]

Maximum number of devices per user ⓘ    50

Users may sync settings and app data across devices ⓘ    [ All ] [ Selected ] [ None ]

Box 1: Selected

Only selected users should be able to join devices

Box 2: Yes

Require Multi-Factor Auth to join devices.

From scenario:

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

➡ Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Question #:7 - (Exam Topic 3)

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. | ○ | ○ |
| Contoso requires a storage account that supports Azure Table storage. | ○ | ○ |
| Contoso requires a storage account that supports Azure File Storage. | ○ | ○ |

**Answer:**

| Statements | Yes | No |
| --- | --- | --- |
| Contoso requires a storage account that supports Blob storage. | ○ | ○ |
| Contoso requires a storage account that supports Azure Table storage. | | ○ |
| Contoso requires a storage account that supports Azure File Storage. | | ○ |

## Explanation

| Statements | Yes | No |
|---|---|---|
| Contoso requires a storage account that supports Blob storage. | ○ | ○ |
| Contoso requires a storage account that supports Azure Table storage. | ○ | ○ |
| Contoso requires a storage account that supports Azure File Storage. | ○ | ○ |

Statement 1: Yes

Contoso is moving the existing product blueprint files to Azure Blob storage which will ensure that the blueprint files are stored in the archive storage tier.

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

Statement 2: No

Azure Table storage stores large amounts of structured data. The service is a NoSQL datastore which accepts authenticated calls from inside and outside the Azure cloud. Azure tables are ideal for storing structured, non-relational data. Common uses of Table storage include:

1. Storing TBs of structured data capable of serving web scale applications

2. Storing datasets that don't require complex joins, foreign keys, or stored procedures and can be denormalized for fast access

3. Quickly querying data using a clustered index

4. Accessing data using the OData protocol and LINQ queries with WCF Data Service .NET Libraries

Statement 3: No

File Storage can be used if your business use case needs to deal mostly with standard File extensions like *.docx, *.png and *.bak then you should probably go with this storage option.

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-data-to-azure-blob-us

https://docs.microsoft.com/en-us/azure/storage/tables/table-storage-overview

https://www.serverless360.com/blog/azure-blob-storage-vs-file-storage

# Topic 2, Humongous Insurance

Overview

Existing Environment

Huongous Insurance is an insurance company that has three offices in Miami, Tokoyo, and Bankok. Each has 5000 users.

Active Directory Environment

Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com. The functional level of the forest is Windows Server 2012.

You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure

Each office has a local data center that contains all the servers for that office. Each office has a dedicated connection to the Internet.

Each office has several link load balancers that provide access to the servers.

Active Directory Issue

Several users in humongousinsurance.com have UPNs that contain special characters.

You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue

You attempt to assign a license in Azure to several users and receive the following error message: "Licenses not assigned. License agreement failed for one user."

You verify that the Azure subscription has the available licenses.

Requirements

Planned Changes

Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months. All the resources used by the Paris office users will be hosted in Azure.

Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD.

All client computers in the Paris office will be joined to an Azure AD domain.

Planned Azure Networking Infrastructure

You plan to create the following networking resources in a resource group named All_Resources:

➡ Default Azure system routes that will be the only routes used to route traffic

➡ A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2

➡ A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet

➡ A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4

You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the Use remote gateways setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.

Planned Azure Computer Infrastructure

Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements

Humongous Insurance identifies the following requirements for the company's departments:

➡ Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.

➡ During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements

Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

Question #:2 - (Exam Topic 2)

You need to resolve the licensing issue before you attempt to assign the license again.

What should you do?

A. From the Groups blade, invite the user accounts to a new group.

B. From the Profile blade, modify the usage location.

C. From the Directory role blade, modify the directory role.

**Answer: B**

## Explanation

Scenario: Licensing Issue

1. You attempt to assign a license in Azure to several users and receive the following error message: "Licenses not assigned. License agreement failed for one user."

2. You verify that the Azure subscription has the available licenses.

Solution:

License cannot be assigned to a user without a usage location specified.

Some Microsoft services aren't available in all locations because of local laws and regulations. Before you can assign a license to a user, you must specify the Usage location property for the user. You can specify the location under the User > Profile > Settings section in the Azure portal.

Reference:

https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/licensing-groups-resolve-problems

Question #:1 - (Exam Topic 2)

You need to resolve the Active Directory issue.

What should you do?

- A.  From Active Directory Users and Computers, select the user accounts, and then modify the User Principal Name value.

- B.  Run idfix.exe, and then use the Edit action.

- C.  From Active Directory Domains and Trusts, modify the list of UPN suffixes.

- D.  From Azure AD Connect, modify the outbound synchronization rule.

**Answer: B**

## Explanation

IdFix is used to perform discovery and remediation of identity objects and their attributes in an on-premises Active Directory environment in preparation for migration to Azure Active Directory. IdFix is intended for the Active Directory administrators responsible for directory synchronization with Azure Active Directory.

Scenario: Active Directory Issue

Several users in humongousinsurance.com have UPNs that contain special characters.

You suspect that some of the characters are unsupported in Azure AD.

References: https://www.microsoft.com/en-us/download/details.aspx?id=36832

# Topic 6, Misc. Questions Set C

You have an Azure subscription named Subscription1 that contains the quotas shown in the following table.

| Quota | Location | Usage |
|---|---|---|
| Standard BS Family vCPUs | West US | 0 of 20 |
| Standard D Family vCPUs | West US | 0 of 20 |
| Total Regional vCPUs | West US | 0 of 20 |

You deploy virtual machine to Subscription1 as shown in the following table.

| Name | Size | vCPUs | Location | Status |
|---|---|---|---|---|
| VM1 | Standard_B2ms | 2 | West US | Running |
| VM20 | Standard_B16ms | 16 | West US | Stopped (Deallocated) |

You plan to deploy the virtual machines shown in the following table.

| Name | Size | vCPUs |
|---|---|---|
| VM3 | Standard_B2ms | 1 |
| VM4 | Standard_D4s_v3 | 4 |
| VM5 | Standard_B16ms | 16 |

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

| Statements | Yes | No |
|---|---|---|
| You can deploy VM3 to West US. | O | O |
| You can deploy VM4 to West US. | O | O |
| You can deploy VM5 to West US. | O | O |

**Answer:**

| Statements | Yes | No |
|---|---|---|
| You can deploy VM3 to West US. | O | O |
| You can deploy VM4 to West US. | O | O |
| You can deploy VM5 to West US. | O | O |

## Explanation

The total regional vCPUs is 20 so that means a maximum total of 20 vCPUs across all the different VM sizes.

The deallocated VM with 16 vCPUs counts towards the total. VM20 and VM1 are using 18 of the maximum 20 vCPUs leaving only two vCPUs available.

## Answer Area

| Statements | Yes | No |
|---|---|---|
| You can deploy VM3 to West US. | O | O |
| You can deploy VM4 to West US. | O | O |
| You can deploy VM5 to West US. | O | O |

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/quotas

Question #:161 - (Exam Topic 6)

You have an Azure subscription that contains a resource group named RG26.

RG26 is sot to the West Europe location and is used to create temporary resources for a project. RG26 contains the resources shown in the following table.

| Name | Type | Location |
|---|---|---|
| VM1 | Virtual machine | North Europe |
| RGV1 | Recovery Services vault | North Europe |
| SQLDB01 | Azure SQL database | North Europe |
| AZSQL01 | Azure SQL database server | North Europe |
| sa001 | Storage account | West Europe |

**SQLD01 is backed up to RGV1.**

**When the project is complete, you attempt to delete RG26 from the Azure portal. The deletion fails.**

**You need to delete RG26.**

**What should you do first?**

    A.  Stop the backup of SQLDB01.

    B.  Delete sa001.

    C.  Delete VM1.

    D.  StopVM1.

**Answer: A**

## Explanation

You can't delete a vault that contains backup data. So in this case at first you have to delete the backup of 'SQLD01' before you attempt to delete the vault.

Reference:

https://docs.microsoft.com/en-us/azure/backup/backup-azure-delete-vault

# Topic 1, Litware, inc.

Overview

Litware, Ltd. 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 links.

Litware has data centers in the Montreal and Seattle offices. Each data center 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.

| Name | Role | Contains virtual machine |
|------|------|--------------------------|
| Server1 | VMWare vCenter server | VM1 |
| Server2 | Hyper-V-host | VM2 |

Litware uses two web applications named App1 and App2. Each instance on each web application requires 1GB of memory.

The Azure subscription contains the resources in the following table.

| Name | Type |
|------|------|
| VNet1 | Virtual network |
| VM3 | Virtual machine |
| VM4 | Virtual machine |

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

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.

Technical requirements

Litware must meet the following technical requirements:

• Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instance*.

• 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.

• Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.Litware.com.

• Connect the New Your office to VNet1 over the Internet by using an encrypted connection.

• Create a workflow to send an email message when the settings of VM4 are modified.

• Create a custom Azure role named Role1 that is based on the Reader role.

• Minimize costs whenever possible.

## Question #:6 - (Exam Topic 1)

You need to implement Role1.

Which command should you run before you create Role1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

| Find-RoleCapability | -Name "Reader" \| | ConvertFrom-Json |
| Get-AzureADDirectoryRole | | ConvertFrom-String |
| Get-AzureRmRoleAssignment | | ConvertTo-Json |
| Get-AzureRmRoleDefinition | | ConvertTo-Xml |

**Answer:**

**Answer Area**

| Find-RoleCapability | -Name "Reader" \| | ConvertFrom-Json |
| Get-AzureADDirectoryRole | | ConvertFrom-String |
| Get-AzureRmRoleAssignment | | ConvertTo-Json |
| *Get-AzureRmRoleDefinition* | | ConvertTo-Xml |

## Explanation

| Find-RoleCapability ▼ | -Name "Reader" \| | ConvertFrom-Json ▼ |
| Get-AzureADDirectoryRole | | ConvertFrom-String |
| Get-AzureRmRoleAssignment | | **ConvertTo-Json** |
| **Get-AzureRmRoleDefinition** | | ConvertTo-Xml |

---

**Question #:4 -** (Exam Topic 1)

You discover that VM3 does NOT meet the technical requirements.

You need to verify whether the issue relates to the NSGs.

What should you use?

  A.  Diagram in VNet1

B.  the security recommendations in Azure Advisor

C.  Diagnostic settings in Azure Monitor

D.  Diagnose and solve problems in Traffic Manager Profiles

E.  IP flow verify in Azure Network Watcher

**Answer: E**

## Explanation

Scenario: Litware must meet technical requirements including:

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

IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned. While any source or destination IP can be chosen, IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.

References:

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

# Topic 4, Misc. Questions Set A

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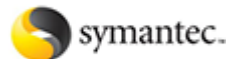
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