

## AZ-305<sup>Q&As</sup>

Designing Microsoft Azure Infrastructure Solutions

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## QUESTION 1

### HOTSPOT

You plan to deploy an Azure web app named App1 that will use Azure Active Directory (Azure AD) authentication.

App1 will be accessed from the internet by the users at your company. All the users have computers that run Windows 10 and are joined to Azure AD.

You need to recommend a solution to ensure that the users can connect to App1 without being prompted for authentication and can access App1 only from company-owned computers.

What should you recommend for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

The users can connect to App1 without being prompted for authentication:

	▼
An Azure AD app registration	
An Azure AD managed identity	
Azure AD Application Proxy	

The users can access App1 only from company-owned computers:

	▼
A Conditional Access policy	
An Azure AD administrative unit	
Azure Application Gateway	
Azure Blueprints	
Azure Policy	

Correct Answer:

Answer Area

The users can connect to App1 without being prompted for authentication:

	▼
An Azure AD app registration	
An Azure AD managed identity	
Azure AD Application Proxy	

The users can access App1 only from company-owned computers:

	▼
A Conditional Access policy	
An Azure AD administrative unit	
Azure Application Gateway	
Azure Blueprints	
Azure Policy	

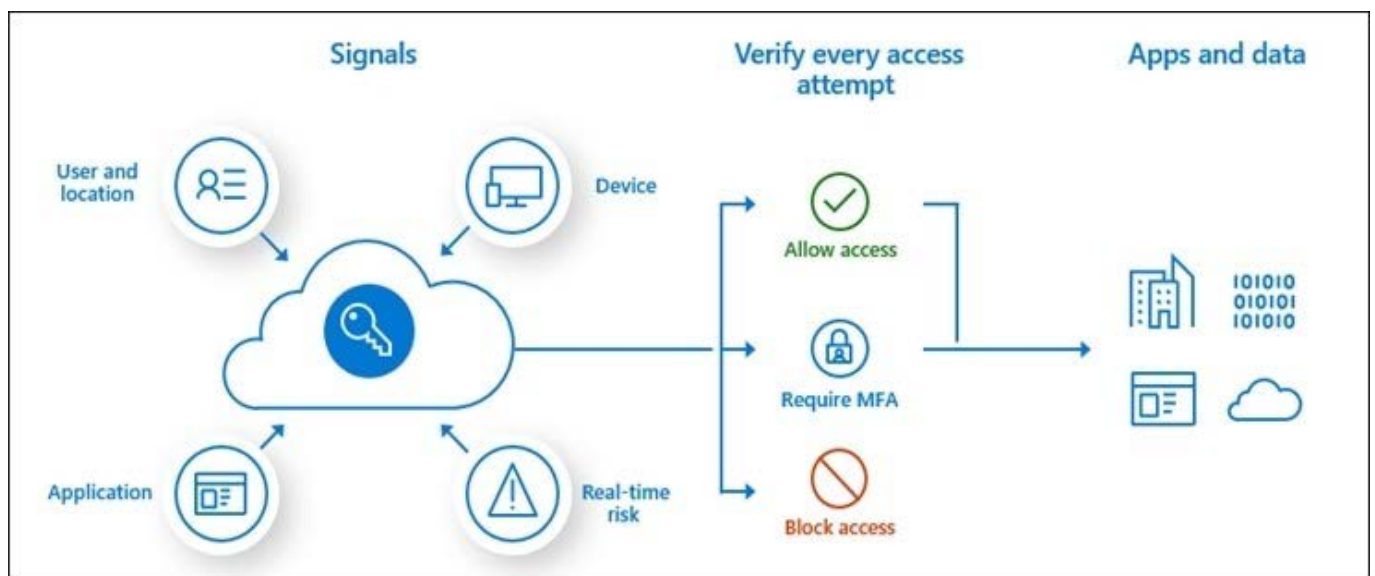
Box 1: An Azure AD app registration

Azure active directory (AD) provides cloud based directory and identity management services. You can use azure AD to manage users of your application and authenticate access to your applications using azure active directory. You register your application with Azure active directory tenant.

Box 2: A conditional access policy

Conditional Access policies at their simplest are if-then statements, if a user wants to access a resource, then they must complete an action.

By using Conditional Access policies, you can apply the right access controls when needed to keep your organization secure and stay out of your user's way when not needed.



## QUESTION 2

What should you recommend to meet the monitoring requirements for App2?

- A. VM insights
- B. Azure Application Insights
- C. Microsoft Sentinel
- D. Container insights

Correct Answer: B

Scenario: 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.

Unified cross-component transaction diagnostics.

The unified diagnostics experience automatically correlates server-side telemetry from across all your Application Insights monitored components into a single view. It doesn't matter if you have multiple resources. Application Insights detects

the underlying relationship and allows you to easily diagnose the application component, dependency, or exception that caused a transaction slowdown or failure.

Note: Components are independently deployable parts of your distributed/microservices application. Developers and operations teams have code-level visibility or access to telemetry generated by these application components.

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/app/transaction-diagnostics>

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## QUESTION 3

You are designing an application that will aggregate content for users.

You need to recommend a database solution for the application. The solution must meet the following requirements:

1.  
Support SQL commands.
  2.  
Support multi-master writes.
  3.  
Guarantee low latency read operations. What should you include in the recommendation?
- A. Azure Cosmos DB SQL API
  - B. Azure SQL Database that uses active geo-replication

C. Azure SQL Database Hyperscale

D. Azure Database for PostgreSQL

Correct Answer: A

With Cosmos DB's novel multi-region (multi-master) writes replication protocol, every region supports both writes and reads. The multi-region writes capability also enables:

1.

Unlimited elastic write and read scalability.

2.

99.999% read and write availability all around the world.

3.

Guaranteed reads and writes served in less than 10 milliseconds at the 99th percentile.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/distribute-data-globally>

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#### QUESTION 4

You plan to move a web application named App1 from an on-premises data center to Azure.

App1 depends on a custom COM component that is installed on the host server.

You need to recommend a solution to host App1 in Azure.

The solution must meet the following requirements:

1.

App1 must be available to users if an Azure data center becomes unavailable.

2.

Costs must be minimized.

What should you include in the recommendation?

A. In two Azure regions, deploy a load balancer and a virtual machine scale set.

B. In two Azure regions, deploy a Traffic Manager profile and a web app.

C. In two Azure regions, deploy a load balancer and a web app.

D. Deploy a load balancer and a virtual machine scale set across two availability zones.

Correct Answer: D

(<https://docs.microsoft.com/en-us/dotnet/azure/migration/app-service#com-and-com-components>)

Azure App Service does not allow the registration of COM components on the platform. If your app makes use of any COM components, these need to be rewritten in managed code and deployed with the site or application.

<https://docs.microsoft.com/en-us/dotnet/azure/migration/app-service>

"Azure App Service with Windows Containers If your app cannot be migrated directly to App Service, consider App Service using Windows Containers, which enables usage of the GAC, COM components, MSIs, full access to .NET FX APIs,

DirectX, and more."

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## QUESTION 5

### DRAG DROP

Your company has an Azure subscription that includes a number of Azure virtual machines, which are all part of the same virtual network.

Your company also has an on-premises Hyper-V server that hosts a virtual machine, named VM1, which must be replicated to Azure.

To achieve this, additional objects must be created in the Azure subscription.

Which of the following are the objects that must be created? Answer by dragging the correct option from the list to the answer area.

Select and Place:

## Options

## Answer

Hyper-V site

Storage account

Azure Recovery  
Services Vault

Azure Traffic  
Manager instance

Replication policy

Endpoint

Correct Answer:

## Options

## Answer

	Hyper-V site
Storage account	Azure Recovery Services Vault
	Replication policy
Azure Traffic Manager instance	
Endpoint	

---

### QUESTION 6

#### HOTSPOT

You have an Azure subscription named Subscription1 that is linked to a hybrid Azure Active Directory (Azure AD) tenant.

You have an on-premises datacenter that does NOT have a VPN connection to Subscription1. The datacenter contains a computer named Server1 that has Microsoft SQL Server 2016 installed. Server1 is prevented from accessing the internet.

An Azure logic app named LogicApp1 requires write access to a database on Server1.

You need to recommend a solution to provide LogicApp1 with the ability to access Server1.

What should you recommend deploying on-premises and in Azure? To answer, select the appropriate options in the answer area.



NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

On-premises:

	▼
A Web Application Proxy for Windows Server	
An Azure AD Application Proxy connector	
An On-premises data gateway	
Hybrid Connection Manager	

Azure:

	▼
A connection gateway resource	
An Azure Application Gateway	
An Azure Event Grid domain	
An enterprise application	

Correct Answer:

## Answer Area

On-premises:

	▼
A Web Application Proxy for Windows Server	
An Azure AD Application Proxy connector	
An On-premises data gateway	
Hybrid Connection Manager	

Azure:

	▼
A connection gateway resource	
An Azure Application Gateway	
An Azure Event Grid domain	
An enterprise application	

Box 1: An on-premises data gateway

For logic apps in global, multi-tenant Azure that connect to on-premises SQL Server, you need to have the on-premises data gateway installed on a local computer and a data gateway resource that's already created in Azure.

Box 2: A connection gateway resource

Reference:

<https://docs.microsoft.com/en-us/azure/connectors/connectors-create-api-sqlazure>

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## QUESTION 7

You have an on-premises application named App1 that uses an Oracle database.

You plan to use Azure Databricks to transform and load data from App1 to an Azure Synapse Analytics instance.

You need to ensure that the App1 data is available to Databricks.

Which two Azure services should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure Data Box Edge
- B. Azure Data Lake Storage
- C. Azure Data Factory
- D. Azure Data Box Gateway
- E. Azure Import/Export service

Correct Answer: CE

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## QUESTION 8

HOTSPOT

You have an Azure Resource Manager template named Template1 in the library as shown in the following exhibit.

## ARM Template

template1

```
1  {
2  |   "$schema": "https://schema.management.azure.com/
3  |   schemas/2015-01-01/deploymentTemplate.json#",
4  |   "contentVersion": "1.0.0.0",
5  |   "parameters": {},
6  |   "resources": [
7  |     {
8  |       "apiVersion": "2016-01-01",
9  |       "type": "Microsoft.Storage/storageAccounts",
10 |       "name": "[concat(copyIndex(), 'storage',
11 | uniqueString(resourceGroup().id))]",
12 |       "location": "[resourceGroup().location]",
13 |       "sku": {
14 |         "name": "Premium_LRS"
15 |       },
16 |       "kind": "Storage",
17 |       "properties": {},
18 |       "copy": {
19 |         "name": "storagecopy",
20 |         "count": 3,
21 |         "mode": "Serial",
22 |         "batchSize": 1
23 |       }
24 |     }
25 |   ]
26 | }
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Hot Area:

During the deployment of Template1, you can specify **[answer choice]**.

	▼
the number of resources to deploy	
the name of the resources to deploy	
the resource group to which to deploy the resources	
the permissions for the resources that will be deployed	

Template1 deploys **[answer choice]**.

	▼
a single storage account in one resource group	
three storage accounts in one resource group	
three resource groups that each has one storage account	
three resource groups that each has three storage accounts	

Correct Answer:

During the deployment of Template1, you can specify **[answer choice]**.

	▼
the number of resources to deploy	
the name of the resources to deploy	
the resource group to which to deploy the resources	
the permissions for the resources that will be deployed	

Template1 deploys **[answer choice]**.

	▼
a single storage account in one resource group	
three storage accounts in one resource group	
three resource groups that each has one storage account	
three resource groups that each has three storage accounts	

Reference: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/template-syntax>

## QUESTION 9

### HOTSPOT

You need to design an authentication solution that will integrate on-premises Active Directory and Azure Active Directory (Azure AD). The solution must meet the following requirements:

1.

Active Directory users must not be able to sign in to Azure AD-integrated apps outside of the sign-in hours configured in the Active Directory user accounts.

2.

Active Directory users must authenticate by using multi-factor authentication (MFA) when they sign in to Azure AD-integrated apps.

3.

Administrators must be able to obtain Azure AD-generated reports that list the Active Directory users who have leaked credentials.

4.

The infrastructure required to implement and maintain the solution must be minimized.

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.

Hot Area:

Integrate Active Directory and Azure AD by using:

Active Directory Federation Services
Pass-through authentication with Azure AD Seamless SSO
Pass-through authentication with Azure AD Seamless SSO and password hash synchronization
Password hash synchronization with Azure AD Seamless SSO

Implement MFA by using:

A third-party authentication solution
Azure MFA
The Active Directory Federation Services (AD FS) Azure MFA adapter

Correct Answer:

Integrate Active Directory and Azure AD by using:

Active Directory Federation Services
Pass-through authentication with Azure AD Seamless SSO
Pass-through authentication with Azure AD Seamless SSO and password hash synchronization
Password hash synchronization with Azure AD Seamless SSO

Implement MFA by using:

A third-party authentication solution
Azure MFA
The Active Directory Federation Services (AD FS) Azure MFA adapter

Box 1: Pass-through Authentication with Azure AD Seamless SSO

Azure AD Seamless SSO versus Active Directory Federation Services

Companies with a security requirement to immediately enforce on-premises user account states,

password policies, and sign-in hours might use Azure AD Pass-through Authentication.

You can combine Pass-through Authentication with the Seamless Single Sign-On feature.

Note: Azure AD supports the following authentication methods for hybrid identity solutions.

Azure AD password hash synchronization

Azure AD Pass-through Authentication

Box 2: Azure MFA

One key benefit with Azure AD Pass-through Authentication is that it works seamlessly with Azure MFA.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/choose-ad-authn>

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## QUESTION 10

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

1.

Provide access to the full .NET framework.

2.

Provide redundancy if an Azure region fails.

3.

Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy an Azure virtual machine to two Azure regions, and you deploy an Azure Application Gateway.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

You need to deploy two Azure virtual machines to two Azure regions, but also create a Traffic Manager profile.

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## QUESTION 11

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 manage an Active Directory domain named contoso.local.

You install Azure AD Connect and connect to an Azure Active Directory (Azure AD) tenant named contoso.com without syncing any accounts.

You need to ensure that only users who have a UPN suffix of contoso.com in the contoso.local domain sync to Azure AD.

Solution: You use the Synchronization Service Manager to modify the Metaverse Designer tab.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use Synchronization Rules Editor to create a synchronization rule.

Note: Filtering what objects are synced to Azure AD is a common request and there are many instances where filtering by OU just doesn't cut it. One option is to filter users by their UPN suffix so that only users with the public FQDN as their

UPN suffix are synced to Azure AD (e.g., john.doe@acme.com would be synced while jane.doe@internal.acme.com would not).

Filtering can be configured using either the GUI (Synchronization Rules Editor) or PowerShell.

Reference:

<https://www.sidekicktech.com/blog/field-notes/2019/upn-suffix-filtering-ad-connect/>

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## QUESTION 12

You plan provision a High Performance Computing (HPC) cluster in Azure that will use a third-party scheduler.

You need to recommend a solution to provision and manage the HPC cluster node.

What should you include in the recommendation?

A. Azure Lighthouse

B. Azure CycleCloud

C. Azure Purview

D. Azure Automation

Correct Answer: B

You can dynamically provision Azure HPC clusters with Azure CycleCloud. Azure CycleCloud is the simplest way to manage HPC workloads.

Note: Azure CycleCloud is an enterprise-friendly tool for orchestrating and managing High Performance Computing (HPC) environments on Azure. With CycleCloud, users can provision infrastructure for HPC systems, deploy familiar HPC schedulers, and automatically scale the infrastructure to run jobs efficiently at any scale. Through CycleCloud, users can create different types of file systems and mount them to the compute cluster nodes to support HPC workloads.

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

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### QUESTION 13

You have an Active Directory forest named contoso.com.

You install and configure AD Connect to use password hash synchronization as the single sign-on(SSO) method. Staging mode is enabled.

You review the synchronization results and discover that the Synchronization Service Manager does not display any sync jobs.

You need to ensure that the synchronization completes successfully.

What should you do?

- A. From Azure PowerShell, run Start-AdSyncSyncCycle -PolicyType Initial.
- B. Run Azure AD Connect and set the SSO method to Pass-through Authentication.
- C. From Synchronization Service Manager, run a full import.
- D. Run Azure AD Connect and disable staging mode.

Correct Answer: D

In staging mode, the server is active for import and synchronization, but it does not run any exports. A server in staging mode is not running password sync or password writeback, even if you selected these features during installation. When you disable staging mode, the server starts exporting, enables password sync, and enables password writeback.

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sync-staging-server>  
<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sync-operations>

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### QUESTION 14

You have an Azure subscription that contains a Basic Azure virtual WAN named VirtualWAN1 and the virtual hubs shown in the following table.



Name	Azure region
Hub1	US East
Hub2	US West

You have an ExpressRoute circuit in the US East region.

You need to create an ExpressRoute association to VirtualWAN1.

What should you do first?

- A. Upgrade VirtualWAN1 to Standard.
- B. Create a gateway on Hub1.
- C. Create a hub virtual network in US East.
- D. Enable the ExpressRoute premium add-on.

Correct Answer: A

To create an ExpressRoute association with VirtualWAN1, you need to upgrade VirtualWAN1 from the Basic tier to the Standard tier. ExpressRoute connectivity to a virtual WAN is only supported in the Standard tier of Azure Virtual WAN. Once you have upgraded VirtualWAN1 to the Standard tier, you can proceed with setting up the ExpressRoute association.

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#### QUESTION 15

You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:

1.

The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine.

2.

Costs must be minimized. What should you include in the solution?

- A. Azure Logic Apps in the integrated service environment
- B. Azure Functions in the Dedicated plan and the Basic Azure App Service plan
- C. Azure Logic Apps in the Consumption plan
- D. Azure Functions in the Consumption plan

Correct Answer: D

When you create a function app in Azure, you must choose a hosting plan for your app. There are three basic hosting plans available for Azure Functions: Consumption plan, Premium plan, and Dedicated (App Service) plan. For the Consumption plan, you don't have to pay for idle VMs or reserve capacity in advance.

Connect to private endpoints with Azure Functions As enterprises continue to adopt serverless (and Platform-as-a-Service, or PaaS) solutions, they often need a way to integrate with existing resources on a virtual network. These existing resources could be databases, file storage, message queues or event streams, or REST APIs.

Reference: <https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale>

<https://techcommunity.microsoft.com/t5/azure-functions/connect-to-private-endpoints-with-azure-functions/ba-p/1426615>

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale#hosting-plans-comparison>

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