

# Microsoft

## Exam Questions AZ-305

Designing Microsoft Azure Infrastructure Solutions



### NEW QUESTION 1

- (Exam Topic 4)

You have an on-premises network and an Azure subscription. The on-premises network has several branch offices.

A branch office in Toronto contains a virtual machine named VM1 that is configured as a file server. Users access the shared files on VM1 from all the offices.

You need to recommend a solution to ensure that the users can access the shares files as quickly as possible if the Toronto branch office is inaccessible.

What should you include in the recommendation?

- A. a Recovery Services vault and Azure Backup
- B. an Azure file share and Azure File Sync
- C. Azure blob containers and Azure File Sync
- D. a Recovery Services vault and Windows Server Backup

**Answer: B**

#### Explanation:

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share.

You need an Azure file share in the same region that you want to deploy Azure File Sync. Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide>

### NEW QUESTION 2

- (Exam Topic 4)

You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB.

Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service 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.

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Diagram Description automatically generated

\* 1. AAD audit log -> Event Hub (other two choices, LAW, storage, but not available in this question) <https://docs.microsoft.com/en-us/azure/active-directory/reports-monitoring/tutorial-azure-monitor-stream-logs-t>

\* 2. Azure function has the Event hub trigger and Cosmos output binding

\* a. Event Hub trigger for function

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-event-hubs-trigger?tabs=csharp>

### NEW QUESTION 3

- (Exam Topic 4)

Your company, named Contoso, Ltd., implements several Azure logic apps that have HTTP triggers. The logic apps provide access to an on-premises web service.

Contoso establishes a partnership with another company named Fabrikam. Incl

Fabrikam does not have an existing Azure Active Directory (Azure AD) tenant and uses third-party OAuth 2.0 identity management to authenticate its users.

I Developers at Fabrikam plan to use a subset of the logic apps to build applications that will integrate with the on-premises web service of Contoso.

You need to design a solution to provide the Fabrikam developers with access to the logic apps. The solution must meet the following requirements:

- Requests to the logic apps from the developers must be limited to lower rates than the requests from the users at Contoso.
- The developers must be able to rely on their existing OAuth 2.0 provider to gain access to the logic apps.
- The solution must NOT require changes to the logic apps.
- The solution must NOT use Azure AD guest accounts. What should you include in the solution?

- A. Azure AD business-to-business (B2B)
- B. Azure AD Application Proxy
- C. Azure Front Door
- D. Azure API Management

**Answer: D**

#### Explanation:

API Management helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services.

You can secure API Management using the OAuth 2.0 client credentials flow. Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-key-concepts> <https://docs.microsoft.com/en-us/azure/api-management/api-management-features> <https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad#ena>

### NEW QUESTION 4

- (Exam Topic 4)

You need to design an Azure policy that will implement the following functionality:

- For new resources, assign tags and values that match the tags and values of the resource group to which the resources are deployed.
- For existing resources, identify whether the tags and values match the tags and values of the resource group that contains the resources.

- For any non-compliant resources, trigger auto-generated remediation tasks to create missing tags and values. The solution must use the principle of least privilege.
- What should you include in the design? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application, chat or text message Description automatically generated

Box 1: Modify

Modify is used to add, update, or remove properties or tags on a resource during creation or update. A common example is updating tags on resources such as costCenter. Existing non-compliant resources can be remediated with a remediation task. A single Modify rule can have any number of operations.

Box 2: A managed identity with the Contributor role

Managed identity

How remediation security works: When Azure Policy runs the template in the deployIfNotExists policy definition, it does so using a managed identity. Azure Policy creates a managed identity for each assignment, but must have details about what roles to grant the managed identity.

Contributor role

The Contributor role grants the required access to apply tags to any entity. Reference:

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

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/tag-resources> <https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects#modify>

**NEW QUESTION 5**

- (Exam Topic 4)

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

- Provide access to the full .NET framework.
- Provide redundancy if an Azure region fails.
- Grant administrators access to the operating system to install custom application dependencies. Solution: You deploy a Azure virtual machine scale set that uses autoscaling.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead, you should deploy two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile.

**NEW QUESTION 6**

- (Exam Topic 4)

You have an on-premises file server that stores 2 TB of data files.

You plan to move the data files to Azure Blob Storage In the West Europe Azure region,

You need to recommend a storage account type to store the data files and a replication solution for the storage account. The solution must meet the following requirements:

- Be available if a single Azure datacenter fails.

- Support storage tiers.
- Minimize cost.

What should you recommend? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Account Type: StorageV2

Replication solution: Zone-redundant storage (ZRS) <https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy#supported-azure-storage-services> <https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview#types-of-storage-accounts>

Data must be available if a single Azure datacenter fails. It means the storage account must support ZRS replication. Also, solution should support storage tiers.

Only General-purpose V2 supports ZRS and storage tiers.

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

**NEW QUESTION 7**

- (Exam Topic 4)

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 Azure Network Watcher to run IP flow

verify to analyze the network traffic

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

The Network Watcher Network performance monitor is a cloud-based hybrid network monitoring solution that helps you monitor network performance between various points in your network infrastructure. It also helps you monitor network connectivity to service and application endpoints and monitor the performance of Azure ExpressRoute.

Note:

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.

IP flow verify looks at the rules for all Network Security Groups (NSGs) applied to the network interface, such as a subnet or virtual machine NIC. Traffic flow is then verified based on the configured settings to or from that network interface. IP flow verify is useful in confirming if a rule in a Network Security Group is blocking ingress or egress traffic to or from a virtual machine.

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>

### NEW QUESTION 8

- (Exam Topic 4)

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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 deploys several virtual machines on-premises and to Azure. ExpressRoute is being deployed and configured for on-premises to Azure connectivity. Several virtual machines exhibit network connectivity issues.

You need to analyze the network traffic to identify whether packets are being allowed or denied to the virtual machines.

Solution: Use Azure Traffic Analytics in Azure Network Watcher to analyze the network traffic. Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

#### Explanation:

Instead use Azure Network Watcher IP Flow Verify, which allows you to detect traffic filtering issues at a VM level.

Note: 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.

Reference:

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

### NEW QUESTION 9

- (Exam Topic 4)

You have an application that is used by 6,000 users to validate their vacation requests. The application manages its own credential

Users must enter a username and password to access the application. The application does NOT support identity providers.

You plan to upgrade the application to use single sign-on (SSO) authentication by using an Azure Active Directory (Azure AD) application registration.

Which SSO method should you use?

- A. password-based
- B. OpenID Connect
- C. header-based
- D. SAML

**Answer: A**

### NEW QUESTION 10

- (Exam Topic 4)

You plan to deploy an Azure SQL database that will store Personally Identifiable Information (PII). You need to ensure that only privileged users can view the PII. What should you include in the solution?

- A. Transparent Data Encryption (TDE)
- B. Data Discovery & Classification
- C. dynamic data masking
- D. role-based access control (RBAC)

**Answer: D**

### NEW QUESTION 10

- (Exam Topic 4)

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 plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using an Azure policy to enforce the resource group location. Does this meet the goal?

- A. Yes
- B. No

**Answer: A**

#### Explanation:

Azure Resource Policy Definitions can be used which can be applied to a specific Resource Group with the App Service instances.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

### NEW QUESTION 12

- (Exam Topic 4)

You have an Azure Active Directory (Azure AD) tenant named contoso.com that has a security group named Group1. Group1 is configured for assigned membership. Group1 has 50 members, including 20 guest users.

You need to recommend a solution for evaluating the membership of Group1. The solution must meet the following requirements:

- The evaluation must be repeated automatically every three months

- Every member must be able to report whether they need to be in Group1
  - Users who report that they do not need to be in Group 1 must be removed from Group1 automatically
  - Users who do not report whether they need to be in Group1 must be removed from Group1 automatically. What should you include in the recommendation?
- A. implement Azure AD Identity Protection.  
B. Change the Membership type of Group1 to Dynamic User.  
C. Implement Azure AD Privileged Identity Management.  
D. Create an access review.

**Answer: D**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#learn-about-access-reviews> Have reviews recur periodically: You can set up recurring access reviews of users at set frequencies such as weekly, monthly, quarterly or annually, and the reviewers will be notified at the start of each review. Reviewers can approve or deny access with a friendly interface and with the help of smart recommendations.

An administrator creates an access review of Group C with 50 member users and 25 guest users. Makes it a self-review. 50 licenses for each user as self-reviewers.\*

<https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#example-licensing>

There are 4 requirements and every single one is only met by access reviews.

<https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#when-should-you-use-access-reviews>

Dynamic User is needed if a user must be automatically granted access on the basis of its attributes (department, jobtitle, location, etc.)

<https://techcommunity.microsoft.com/t5/itops-talk-blog/dynamic-groups-in-azure-ad-and-microsoft-365/ba-p/22>

Implementing Azure AD PIM is no solution and absolutely not necessary for access reviews. <https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#where-do-you-configure-access-reviews>

**NEW QUESTION 16**

- (Exam Topic 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:

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

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.

**Answer: D**

**Explanation:**

<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."

**NEW QUESTION 17**

- (Exam Topic 4)

You are designing an order processing system in Azure that will contain the Azure resources shown in the following table.

The order processing system will have the following transaction flow:

A customer will place an order by using App1.

When the order is received, App1 will generate a message to check for product availability at vendor 1 and vendor 2.

An integration component will process the message, and then trigger either Function1 or Function2 depending on the type of order.

Once a vendor confirms the product availability, a status message for App1 will be generated by Function1 or Function2.

All the steps of the transaction will be logged to storage1.

Which type of resource should you recommend for the integration component? D18912E1457D5D1DDCBD40AB3BF70D5D

Which type of resource should you recommend for the integration component?

- A. an Azure Data Factory pipeline  
B. an Azure Service Bus queue  
C. an Azure Event Grid domain  
D. an Azure Event Hubs capture

**Answer: A**

**Explanation:**

A data factory can have one or more pipelines. A pipeline is a logical grouping of activities that together perform a task.

The activities in a pipeline define actions to perform on your data.

Data Factory has three groupings of activities: data movement activities, data transformation activities, and control activities.

Azure Functions is now integrated with Azure Data Factory, allowing you to run an Azure function as a step in your data factory pipelines.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipelines-activities>

**NEW QUESTION 19**

- (Exam Topic 4)

You have an Azure Active Directory (Azure AD) tenant that syncs with an on-premises Active Directory domain. You have an internal web app named WebApp1 that is hosted on-premises. WebApp1 uses Integrated Windows authentication. Some users work remotely and do NOT have VPN access to the on-premises network. You need to provide the remote users with single sign-on (SSO) access to WebApp1. Which two features should you include in the solution? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Azure AD Application Proxy
- B. Azure AD Privileged Identity Management (PIM)
- C. Conditional Access policies
- D. Azure Arc
- E. Azure AD enterprise applications
- F. Azure Application Gateway

**Answer:** AC

**Explanation:**

A: Application Proxy is a feature of Azure AD that enables users to access on-premises web applications from a remote client. Application Proxy includes both the Application Proxy service which runs in the cloud, and the Application Proxy connector which runs on an on-premises server. You can configure single sign-on to an Application Proxy application.

C: Microsoft recommends using Application Proxy with pre-authentication and Conditional Access policies for remote access from the internet. An approach to provide Conditional Access for intranet use is to modernize applications so they can directly authenticate with AAD.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/app-proxy/application-proxy-config-ssso-how-to> <https://docs.microsoft.com/en-us/azure/active-directory/app-proxy/application-proxy-deployment-plan>

**NEW QUESTION 23**

- (Exam Topic 4)

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Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using an Azure policy initiative to enforce the location. Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

Azure Resource Policy Definitions can be used which can be applied to a specific Resource Group with the App Service instances.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

**NEW QUESTION 28**

- (Exam Topic 4)

You have an on-premises database that you plan to migrate to Azure.

You need to design the database architecture to meet the following requirements:

Support scaling up and down.

Support geo-redundant backups.

Support a database of up to 75 TB.

Be optimized for online transaction processing (OLTP).

What should you include in the design? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Azure SQL Database Azure SQL Database:

Database size always depends on the underlying service tiers (e.g. Basic, Business Critical, Hyperscale). It supports databases of up to 100 TB with Hyperscale service tier model.

Active geo-replication is a feature that lets you to create a continuously synchronized readable secondary database for a primary database. The readable secondary database may be in the same Azure region as the primary, or, more commonly, in a different region. This kind of readable secondary databases are also known as geo-secondaries, or geo-replicas.

Azure SQL Database and SQL Managed Instance enable you to dynamically add more resources to your database with minimal downtime.

Box 2: Hyperscale Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/active-geo-replication-overview> <https://medium.com/awesome-azure/azure-difference-between-azure-sql-database-and-sql-server-on-vm-compar>

**NEW QUESTION 33**

- (Exam Topic 4)

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

Provide access to the full .NET framework.

Provide redundancy if an Azure region fails.

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

Solution: You deploy two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview>

**NEW QUESTION 38**

- (Exam Topic 4)

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

- Provide access to the full .NET framework.
- Provide redundancy if an Azure region fails.
- 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

**Answer:** B

**Explanation:**

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

**NEW QUESTION 42**

- (Exam Topic 4)

You plan to deploy an application named App1 that will run on five Azure virtual machines. Additional virtual machines will be deployed later to run App1.

You need to recommend a solution to meet the following requirements for the virtual machines that will run

App1:

Ensure that the virtual machines can authenticate to Azure Active Directory (Azure AD) to gain access to an Azure key vault, Azure Logic Apps instances, and an Azure SQL database.

Avoid assigning new roles and permissions for Azure services when you deploy additional virtual machines.

Avoid storing secrets and certificates on the virtual machines. Which type of identity should you include in the recommendation?

- A. a service principal that is configured to use a certificate
- B. a system-assigned managed identity
- C. a service principal that is configured to use a client secret
- D. a user-assigned managed identity

**Answer:** D

**Explanation:**

Managed identities for Azure resources is a feature of Azure Active Directory.

User-assigned managed identity can be shared. The same user-assigned managed identity can be associated with more than one Azure resource.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

**NEW QUESTION 47**

- (Exam Topic 4)

You are planning an Azure Storage solution for sensitive data. The data will be accessed daily. The data set is less than 10 GB.

You need to recommend a storage solution that meets the following requirements:

- All the data written to storage must be retained for five years.
- Once the data is written, the data can only be read. Modifications and deletion must be prevented.
- After five years, the data can be deleted, but never modified.
- Data access charges must be minimized

What should you recommend? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

Box 1: General purpose v2 with Archive acce3ss tier for blobs

Archive - Optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements, on the order of hours.

Cool - Optimized for storing data that is infrequently accessed and stored for at least 30 days. Hot - Optimized for storing data that is accessed frequently.

Box 2: Storage account resource lock

As an administrator, you can lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. The lock overrides any permissions the user might have.

Note: You can set the lock level to CanNotDelete or ReadOnly. In the portal, the locks are called Delete and Read-only respectively.

CanNotDelete means authorized users can still read and modify a resource, but they can't delete the resource.

ReadOnly means authorized users can read a resource, but they can't delete or update the resource.

Applying this lock is similar to restricting all authorized users to the permissions granted by the Reader role.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

**NEW QUESTION 49**

- (Exam Topic 4)

You have an Azure subscription that contains an Azure Blob storage account named store1.

You have an on-premises file server named Server1 that runs Windows Server 2016. Server1 stores 500 GB of company files.

You need to store a copy of the company files from Server 1 in store1.

Which two possible Azure services achieve this goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point

- A. an Azure Batch account
- B. an integration account
- C. an On-premises data gateway
- D. an Azure Import/Export job
- E. Azure Data factory

**Answer:** DE

**Explanation:**

<https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-data-from-blobs> <https://docs.microsoft.com/en-us/answers/questions/311113/fastest-method-to-copy-500gb-table-from-on-premise>

**NEW QUESTION 50**

- (Exam Topic 4)

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployment in your subscription. What should you include in the recommendation?

- A. Azure Activity Log
- B. Azure Monitor action groups
- C. Azure Advisor
- D. Azure Monitor metrics

**Answer:** A

**Explanation:**

Activity logs are kept for 90 days. You can query for any range of dates, as long as the starting date isn't more than 90 days in the past. Through activity logs, you can determine:

what operations were taken on the resources in your subscription  
who started the operation  
when the operation occurred  
the status of the operation  
the values of other properties that might help you research the operation Reference:  
<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/view-activity-logs>  
<https://docs.microsoft.com/en-us/azure/automation/change-tracking>

**NEW QUESTION 55**

- (Exam Topic 4)

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping. You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages. What should you include in the recommendation?

- A. Azure Service Bus
- B. Azure Blob storage
- C. Azure Notification Hubs
- D. Azure Application Gateway

**Answer:** A

**Explanation:**

Service Bus is a transactional message broker and ensures transactional integrity for all internal operations against its message stores. All transfers of messages inside of Service Bus, such as moving messages to a dead-letter queue or automatic forwarding of messages between entities, are transactional. Reference:  
<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-transactions>  
"Service Bus offers a reliable and secure platform for asynchronous transfer of data and state." ... "Service Bus supports standard AMQP 1.0 and HTTP/REST protocols."  
<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-messaging-overview>

**NEW QUESTION 60**

- (Exam Topic 4)

You have the resources shown in the following table.

CDB1 hosts a container that stores continuously updated operational data. You are designing a solution that will use AS! to analyze the operational data daily. You need to recommend a solution to analyze the data without affecting the performance of the operational data store. What should you include in the recommendation?

- A. Azure Cosmos DB change feed
- B. Azure Data Factory with Azure Cosmos DB and Azure Synapse Analytics connectors
- C. Azure Synapse Analytics with PolyBase data loading
- D. Azure Synapse Link for Azure Cosmos DB

**Answer:** C

**NEW QUESTION 65**

- (Exam Topic 4)

You have the Azure resources shown in the following table.

You need to deploy a new Azure Firewall policy that will contain mandatory rules for all Azure Firewall deployments. The new policy will be configured as a parent policy for the existing policies.

What is the minimum number of additional Azure Firewall policies you should create?

- A. 1
- B. 2
- C. 3

**Answer:** B

**Explanation:**

Firewall policies work across regions and subscriptions. Place all your global configurations in the parent policy.

Note: Policies can be created in a hierarchy. You can create a parent/global policy that will contain configurations and rules that will apply to all/a number of firewall instances. Then you create a child policy that inherits from the parent; note that rules changes in the parent instantly appear in the child. The child is associated with a firewall and applies configurations/rules from the parent policy and the child policy instantly to the firewall.

Reference: <https://aidanfinn.com/?p=22006>

**NEW QUESTION 69**

- (Exam Topic 4)

You deploy several Azure SQL Database instances.

You plan to configure the Diagnostics settings on the databases as shown in the following exhibit.

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.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

In the exhibit, the SQLInsights data is configured to be stored in Azure Log Analytics for 90 days. However, the question is asking for the “maximum” amount of time that the data can be stored which is 730 days.

**NEW QUESTION 74**

- (Exam Topic 4)

You are designing a microservices architecture that will be hosted in an Azure Kubernetes Service (AKS) cluster. Apps that will consume the microservices will be hosted on Azure virtual machines. The virtual machines and the AKS cluster will reside on the same virtual network.

You need to design a solution to expose the microservices to the consumer apps. The solution must meet the following requirements:

- Ingress access to the microservices must be restricted to a single private IP address and protected by using mutual TLS authentication.
- The number of incoming microservice calls must be rate-limited.
- Costs must be minimized.

What should you include in the solution?

- A. Azure API Management Premium tier with virtual network connection
- B. Azure Front Door with Azure Web Application Firewall (WAF)
- C. Azure API Management Standard tier with a service endpoint
- D. Azure App Gateway with Azure Web Application Firewall (WAF)

**Answer:** A

**Explanation:**

One option is to deploy APIM (API Management) inside the cluster VNet.

The AKS cluster and the applications that consume the microservices might reside within the same VNet, hence there is no reason to expose the cluster publicly as all API traffic will remain within the VNet. For these scenarios, you can deploy API Management into the cluster VNet. API Management Premium tier supports VNet deployment.

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-kubernetes>

**NEW QUESTION 79**

- (Exam Topic 4)

You need to design a storage solution for an app that will store large amounts of frequently used data. The solution must meet the following requirements:

Maximize data throughput.

Prevent the modification of data for one year.

Minimize latency for read and write operations.

Which Azure Storage account type and storage service should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: BlockBlobStorage

Block Blob is a premium storage account type for block blobs and append blobs. Recommended for scenarios with high transactions rates, or scenarios that use smaller objects or require consistently low storage latency.

Box 2: Blob

The Archive tier is an offline tier for storing blob data that is rarely accessed. The Archive tier offers the lowest storage costs, but higher data retrieval costs and latency compared to the online tiers (Hot and Cool). Data must remain in the Archive tier for at least 180 days or be subject to an early deletion charge.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/archive-blob>

**NEW QUESTION 82**

- (Exam Topic 4)

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: Install and configure the Microsoft

Monitoring Agent and the Dependency Agent on all VMs. Use the Wire Data solution in Azure Monitor 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.

Note: Wire Data looks at network data at the application level, not down at the TCP transport layer. The solution doesn't look at individual ACKs and SYNs.

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>

**NEW QUESTION 86**

- (Exam Topic 4)

You have an Azure App Service web app that uses a system-assigned managed identity.

You need to recommend a solution to store their settings of the web app as secrets in an Azure key vault. The solution must meet the following requirements:

- Minimize changes to the app code,
- Use the principle of least privilege.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**NEW QUESTION 87**

- (Exam Topic 3)

You need to recommend an App Service architecture that meets the requirements for Appl. The solution must minimize costs.

What should you recommend?

- A. one App Service Environment (ASE) per availability zone
- B. one App Service plan per availability zone
- C. one App Service plan per region
- D. one App Service Environment (ASE) per region

**Answer: A**

**NEW QUESTION 90**

- (Exam Topic 3)

What should you implement to meet the identity requirements? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Requirements: 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.

Box 1: The Azure AD Privileged Identity Management (PIM) When should you use access reviews?

Too many users in privileged roles: It's a good idea to check how many users have administrative access, how many of them are Global Administrators, and if there are any invited guests or partners that have not been removed after being assigned to do an administrative task. You can recertify the role assignment users in Azure AD roles such as Global Administrators, or Azure resources roles such as User Access Administrator in the Azure AD Privileged Identity Management (PIM) experience.

Box 2: Access reviews

Azure Active Directory (Azure AD) access reviews enable organizations to efficiently manage group memberships, access to enterprise applications, and role assignments. User's access can be reviewed on a regular basis to make sure only the right people have continued access.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview>

**NEW QUESTION 92**

- (Exam Topic 2)

You need to recommend a solution to meet the database retention requirement. What should you recommend?

- A. Configure a long-term retention policy for the database.
- B. Configure Azure Site Recovery.
- C. Configure geo replication of the database.
- D. Use automatic Azure SQL Database backups.

**Answer:** A

**Explanation:**

<https://docs.microsoft.com/en-us/azure/azure-sql/database/long-term-retention-overview>

In Azure SQL Database, you can configure a database with a long-term backup retention policy (LTR) to automatically retain the database backups in separate Azure Blob storage containers for up to 10 years

**NEW QUESTION 97**

- (Exam Topic 2)

You need to recommend a strategy for migrating the database content of WebApp1 to Azure. What should you include in the recommendation?

- A. Use Azure Site Recovery to replicate the SQL servers to Azure.
- B. Use SQL Server transactional replication.
- C. Copy the BACPAC file that contains the Azure SQL database file to Azure Blob storage.
- D. Copy the VHD that contains the Azure SQL database files to Azure Blob storage

**Answer:** D

**Explanation:**

Before you upload a Windows virtual machine (VM) from on-premises to Azure, you must prepare the virtual hard disk (VHD or VHDX).

Scenario: 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.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image>

**NEW QUESTION 99**

- (Exam Topic 2)

You design a solution for the web tier of WebApp1 as shown in the exhibit.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

Any new deployments to Azure must be redundant in case an Azure region fails.

Traffic Manager uses DNS to direct client requests to the most appropriate service endpoint based on a traffic-routing method and the health of the endpoints. An endpoint is any Internet-facing service hosted inside or outside of Azure. Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to failure, including the failure of an entire Azure region.

Box 2: Yes

Recent changes in Azure brought some significant changes in autoscaling options for Azure Web Apps (i.e. Azure App Service to be precise as scaling happens on App Service plan level and has effect on all Web Apps running in that App Service plan).

Box 3: No

Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models.

Traffic Manager is resilient to failure, including the failure of an entire Azure region.

Reference:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview> <https://blogs.msdn.microsoft.com/hsirtl/2017/07/03/autoscaling-azure-web-apps/>

**NEW QUESTION 103**

- (Exam Topic 2)

You need to recommend a notification solution for the IT Support distribution group. What should you include in the recommendation?

- A. Azure Network Watcher
- B. an action group
- C. a SendGrid account with advanced reporting
- D. Azure AD Connect Health

**Answer:** D

**Explanation:**

References:

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

**NEW QUESTION 104**

- (Exam Topic 1)

You plan to migrate DB1 and DB2 to Azure.

You need to ensure that the Azure database and the service tier meet the resiliency and business requirements. What should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

#### NEW QUESTION 107

- (Exam Topic 1)

You plan to migrate App1 to Azure.

You need to recommend a network connectivity solution for the Azure Storage account that will host the App1 data. The solution must meet the security and compliance requirements.

What should you include in the recommendation?

- A. a private endpoint
- B. a service endpoint that has a service endpoint policy
- C. Azure public peering for an ExpressRoute circuit
- D. Microsoft peering for an ExpressRoute circuit

**Answer:** A

#### Explanation:

Private Endpoint securely connect to storage accounts from on-premises networks that connect to the VNet using VPN or ExpressRoutes with private-peering.

Private Endpoint also secure your storage account by configuring the storage firewall to block all connections on the public endpoint for the storage service.

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-faqs#microsoft-peering>

#### NEW QUESTION 110

- (Exam Topic 1)

You plan to migrate App1 to Azure. The solution must meet the authentication and authorization requirements. Which type of endpoint should App1 use to obtain an access token?

- A. Azure Instance Metadata Service (IMDS)
- B. Azure AD
- C. Azure Service Management
- D. Microsoft identity platform

**Answer:** D

#### Explanation:

Scenario: To access the resources in Azure, App1 must use the managed identity of the virtual machines that will host the app.

Managed identities provide an identity for applications to use when connecting to resources that support Azure Active Directory (Azure AD) authentication.

Applications may use the managed identity to obtain Azure AD tokens.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

#### NEW QUESTION 115

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