AZ-305^{Q&As}

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Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

HOTSPOT

You have an Azure Active Directory (Azure AD) tenant.

You plan to use Azure Monitor to monitor user sign-ins and generate alerts based on specific user sign-in events.

You need to recommend a solution to trigger the alerts based on the events.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Send Azure AD logs to:

An Azure event hub
An Azure Log Analytics workspace
An Azure Storage account

Signal type to use for triggering the alerts:

Activity log
Log
Metric

Correct Answer:

Send Azure AD logs to:

An Azure event hub
An Azure Log Analytics workspace
An Azure Storage account

Signal type to use for triggering the alerts:

Activity log
Log
Metric

Box 1: An Azure Log Analytics workspace

To be able to create an alert we send the Azure AD logs to An Azure Log Analytics workspace.

Note: You can forward your AAD logs and events to either an Azure Storage Account, an Azure Event Hub, Log Analytics, or a combination of all of these.

Box 2: Log

Ensure Resource Type is an analytics source like Log Analytics or Application Insights and signal type as Log.

QUESTION 2

HOTSPOT

You need to implement the Azure RBAC role assignment. The solution must meet the authentication and authorization requirements.

How many assignment should you configure for the Network Contributor role for Role1? To answer, select appropriate in the answer area.

Hot Area:

Network Contribution:

1
2
15

Role1:

1
2
15

Correct Answer:

Network Contribution:

1
2
15

Role1:

1
2
15

QUESTION 3

DRAG DROP

Your on-premises network contains a server named Server1 that runs an ASP.NET application named App1.

You have a hybrid deployment of Azure Active Directory (Azure AD). You need to recommend a solution to ensure that users sign in by using their Azure AD account and Azure Multi-Factor Authentication (MFA) when they connect to App1

from the internet.

Which three Azure services should you recommend be deployed and configured in sequence?

To answer, move the appropriate services from the list of services to the answer area and arrange them in the correct order.

Select and Place:

Services	Answer Area	5 / 17
an Azure AD conditional access policy		
an internal Azure Load Balancer		
a public Azure Load Balancer		
an Azure AD managed identity		
Azure AD Application Proxy		
an App Service plan		
an Azure AD enterprise application		

Correct Answer:

Services	Answer Area
an Azure AD conditional access policy	Azure AD Application Proxy
an internal Azure Load Balancer	an Azure AD managed identity
a public Azure Load Balancer	an Azure AD enterprise application
an App Service plan	

QUESTION 4

You plan to automate the deployment of resources to Azure subscriptions.

What is a difference between using Azure Blueprints and Azure Resource Manager templates?

A. Azure Resource Manager templates remain connected to the deployed resources.

B. Only Azure Resource Manager templates can contain policy definitions.

C. Azure Blueprints remain connected to the deployed resources.

D. Only Azure Blueprints can contain policy definitions.

Correct Answer: C

With Azure Blueprints, the relationship between the blueprint definition (what should be deployed) and the blueprint assignment (what was deployed) is preserved. This connection supports improved tracking and auditing of deployments.

Azure Blueprints can also upgrade several subscriptions at once that are governed by the same blueprint.

Incorrect:

Not A: Nearly everything that you want to include for deployment in Azure Blueprints can be accomplished with a Resource Manager template. However, a Resource Manager template is a document that doesn\\'t exist natively in Azure ?each

is stored either locally or in source control. The template gets used for deployments of one or more Azure resources, but once those resources deploy there\\'s no active connection or relationship to the template.

Reference:

https://docs.microsoft.com/en-us/answers/questions/26851/how-is-azure-blue-prints-different-from-resource-m.html

QUESTION 5

You are developing a sates application that will contain several Azure cloud services and 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 XML messages.

What should you include in the recommendation?

A. Azure Data Lake

B. Azure Notification Hubs

C. Azure Queue Storage

D. Azure Service Fabric

Correct Answer: C

QUESTION 6

HOTSPOT

You have an Azure subscription that contains the storage accounts shown in the following table.

Name	Type	Performance
storage1	StorageV2	Standard
storage2	StorageV2	Premium
storage3	BlobStorage	Standard
storage4	FileStorage	Premium

You plan to implement two new apps that have the requirements shown in the following table.

Name	Requirement
App1	Use lifecycle management to migrate app data between storage tiers
App2	Store app data in an Azure file share

Which storage accounts should you recommend using for each app? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

App1:

Storage1 and storage2 only
Storage1 and storage3 only
Storage1, storage2, and storage3 only
Storage1, storage2, storage3, and storage4

App2:

Storage4 only
Storage1 and storage4 only
Storage1, storage2, and storage4 only
Storage1, storage2, storage3, and storage4

Correct Answer:

Answer Area

App1:

| Storage1 and storage2 only |
| Storage1 and storage3 only |
| Storage1, storage2, and storage3 only |
| Storage1, storage2, storage3, and storage4 |

App2:

| Storage4 only |
| Storage1 and storage4 only |
| Storage1, storage2, and storage4 only |
| Storage1, storage2, storage3, and storage4 |

In conclusion the correct answers are: Box1 --> Storage1 and Storage3 only Box2 --> Storage1 and Storage4 only

https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview
https://www.edureka.co/community/40011/different-storage-accounts-there-major-difference-between
https://insidemstech.com/tag/general-purpose-v2/ https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file- share?tabs=azure-portal#basics

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QUESTION 7

You need to implement the Azure RBAC role assignments for the Network Contributor role. The solution must meet the authentication and authorization requirements. What is the minimum number of assignments that you must use?

A. 1

B. 2

C. 5

D. 10

E. 15

Correct Answer: A

Scenario: The Network Contributor built-in RBAC role must be used to grant permissions to the network administrators for all the virtual networks in all the Azure subscriptions. RBAC roles must be applied at the highest level possible.

QUESTION 8

DRAG DROP

You plan to import data from your on-premises environment to Azure. The data Is shown in the following table.

On-premises source	Azure target
A Microsoft SQL Server 2012 database	An Azure SQL database
A table in a Microsoft SQL Server 2014 database	An Azure Cosmos DB account that uses the SQL API

What should you recommend using to migrate the data? To answer, drag the appropriate tools to the correct data sources-Each tool 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.

Select and Place:

Tools

AzCopy
Azure Cosmos DB Data Migration Tool
Data Management Gateway
Data Migration Assistant

Answer Area

From the SQL Server 2012 database: [Tool]

From the table in the SQL Server 2014 database: [Tool]

Correct Answer:

Tools

AzCopy
Data Management Gateway

Answer Area

From the SQL Server 2012 [Data Migration Assistant]

From the table in the SQL Server 2014 [Azure Cosmos DB Data Migration Tool]

Answer Area

From the SQL Server 2012 database: [Data Migration Assistant]

From the table in the SQL Server 2014 database: [Azure Cosmos DB Data Migration Tool]

References: https://docs.microsoft.com/en-us/azure/dms/tutorial-sql-server-to-azure-sql https://docs.microsoft.com/en-us/azure/cosmos-db/import-data

QUESTION 9

You have an Azure subscription named Subscription1.

You deploy a Linux virtual machine named VM1 to Subscription1.

You need to monitor the metrics and the logs of VM1.

What should you use?

A. the Azure PerformanceDiagnostics extension

B. Azure Analytic Services

C. Linux Diagnostic Extension (LAD) 10

D. Azure HDinsight

Correct Answer: A

You can use extensions to configure diagnostics on your VMs to collect additional metric data.

The basic host metrics are available, but to see more granular and VM-specific metrics, you need to install the Azure diagnostics extension on the VM. The Azure diagnostics extension allows additional monitoring and diagnostics data to be

retrieved from the VM.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-monitoring

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QUESTION 10

You plan to archive 10 TB of on-premises data files to Azure.

You need to recommend a data archival solution. The solution must minimize the cost of storing the data files.

Which Azure Storage account type should you include in the recommendation?

A. Standard StorageV2 (general purpose v2)

B. Standard Storage (general purpose v1)

C. Premium StorageV2 (general purpose v2)

D. Premium Storage (general purpose v1)

Correct Answer: A

Standard StorageV2 supports the Archive access tier, which would be the cheapest solution.

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction

QUESTION 11

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
VNet1	Virtual Network	*None*
LB1	Public load balancer	Includes a backend pool name BP1
VMSS1	Azure Virtual Machine Scale Sets	Included in BP1 Connected to VNet1
NVA1	Network Virtual Appliance (NVA)	Connected to VNet1 Performs security filtering of traffic for VMSS1
NVA2	Network Virtual Appliance (NVA)	Connected to VNet1 Performs security filtering of traffic for VMSS1

You need to recommend a load balancing solution that will distribute incoming traffic for VMSS1 across NVA1 and NVA2. The solution must minimize administrative effort. What should you include in the recommendation?

A. Gateway Load Balancer

B. Azure Front Door

C. Azure Application Gateway

D. Azure Traffic Manager

Correct Answer: A

Gateway Load Balancer is a fully managed service enabling you to deploy, scale, and enhance the availability of third party network virtual appliances (NVAs) in Azure. You can add your favorite third party appliance whether it\\'s a firewall, inline DDoS appliance, deep packet inspection system, or even your own custom appliance into the network path transparently ?all with a single action.

Reference: https://learn.microsoft.com/en-us/azure/load-balancer/whats-new

QUESTION 12

You have an Azure subscription.

You need to deploy an Azure Kubernetes Service (AKS) solution that will use Windows Server 2019 nodes.

The solution must meet the following requirements:

1.

Minimize the time it takes to provision compute resources during scale-out operations.

2.

Support autoscaling of Windows Server containers. Which scaling option should you recommend?

A. cluster autoscaler

B. horizontal pod autoscaler

C. Kubernetes version 1.20.2 or newer

D. Virtual nodes with Virtual Kubelet ACI

Correct Answer: A

Azure Container Instances (ACI) lets you quickly deploy container instances without additional infrastructure overhead. When you connect with AKS, ACI becomes a secured, logical extension of your AKS cluster. The virtual nodes

component, which is based on Virtual Kubelet, is installed in your AKS cluster that presents ACI as a virtual Kubernetes

node. Kubernetes can then schedule pods that run as ACI instances through virtual nodes, not as pods on VM nodes directly in your AKS cluster.

Your application requires no modification to use virtual nodes. Deployments can scale across AKS and ACI and with no delay as cluster autoscaler deploys new nodes in your AKS cluster.
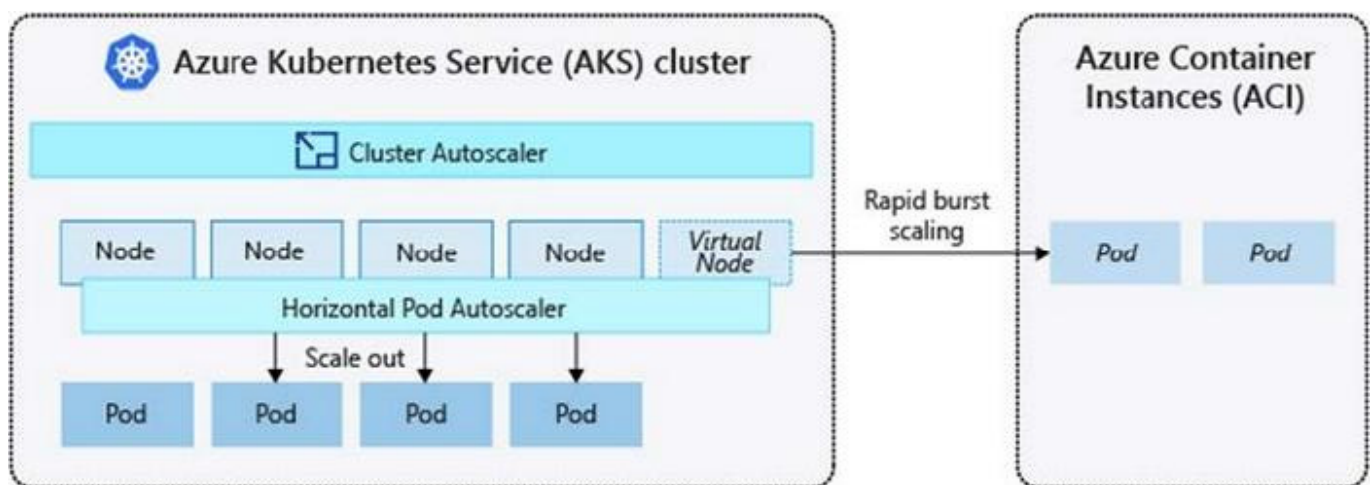
Note: AKS clusters can scale in one of two ways:

The cluster autoscaler watches for pods that can\\'t be scheduled on nodes because of resource constraints. The cluster then automatically increases the number of nodes.

The horizontal pod autoscaler uses the Metrics Server in a Kubernetes cluster to monitor the resource demand of pods. If an application needs more resources, the number of pods is automatically increased to meet the demand.

Reference:

https://docs.microsoft.com/en-us/azure/aks/concepts-scale5

QUESTION 13

HOTSPOT Your company, named Contoso, Ltd., has an Azure subscription that contains the following resources: An Azure Synapse Analytics workspace named contosoworkspace1

An Azure Data Lake Storage account named contosolake1 An Azure SQL database named contososql1 The product data of Contoso is copied from contososql1 to contosolake1.

Contoso has a partner company named Fabrikam Inc. Fabrikam has an Azure subscription that contains the following resources: A virtual machine named FabrikamVM1 that runs Microsoft SQL Server 2019 An Azure Storage account named fabrikamsa1

Contoso plans to upload the research data on FabrikamVM1 to contosolake1. During the upload, the research data must be transformed to the data formats used by Contoso.

The data in contosolake1 will be analyzed by using contosoworkspace1.

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

Upload and transform the FabrikamVM1 research data.

Provide Fabrikam with restricted access to snapshots of the data in contosoworkspace1.

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

Upload and transform the data:

Azure Data Box Gateway
Azure Data Share
Azure Synapse pipelines

Provide restricted access:

Azure Data Box Gateway
Azure Data Share
Azure Synapse pipelines

Correct Answer:

Answer Area

Upload and transform the data:

| Azure Data Box Gateway |
| Azure Data Share |
| **Azure Synapse pipelines** |

Provide restricted access:

| Azure Data Box Gateway |
| **Azure Data Share** |
| Azure Synapse pipelines |

Box 1: Azure Synapse pipelines

Upload and transform the FabrikamVM1 research data.

The lake database in Azure Synapse Analytics enables customers to bring together database design, meta information about the data that is stored and a possibility to describe how and where the data should be stored.

Box 2: Azure Data Share

Provide Fabrikam with restricted access to snapshots of the data in contosoworkspace1.

Azure Data Share enables organizations to securely share data with multiple customers and partners. Data providers are always in control of the data that they\'ve shared and Azure Data Share makes it simple to manage and monitor what

data was shared, when and by whom.

Azure Data Share currently offers snapshot-based sharing and in-place sharing.

Incorrect:

* Azure Data Box Gateway

Azure Data Box Gateway is a storage solution that enables you to seamlessly send data to Azure.

Use cases

Data Box Gateway can be leveraged for transferring data to the cloud such as cloud archival, disaster recovery, or if there is a need to process your data at cloud scale. Here are the various scenarios where Data Box Gateway can be used

for data transfer.

Cloud archival - Copy hundreds of TBs of data to Azure storage using Data Box Gateway in a secure and efficient manner. The data can be ingested one time or an ongoing basis for archival scenarios. Continuous data ingestion - Continuously ingest data into the device to copy to the cloud, regardless of the data size. As the data is written to the gateway device, the device uploads the data to Azure Storage. Initial bulk transfer followed by incremental transfer - Use Data Box for the bulk transfer in an offline mode (initial seed) and Data Box Gateway for incremental transfers

(ongoing feed) over the network.

Reference: https://learn.microsoft.com/en-us/azure/synapse-analytics/database-designer/concepts-lake-database https://learn.microsoft.com/en-us/azure/data-share/overview

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QUESTION 14

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

Correct Answer: A

https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/how-to-use-vm-token

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QUESTION 15

You plan to use an Azure Storage account to store data assets.

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

1.

Supports immutable storage

2.

Disables anonymous access to the storage account

3.

Supports access control list (ACL)-based Azure AD permissions What should you include in the recommendation?

A. Azure Files

B. Azure Data Lake Storage

C. Azure NetApp Files

D. Azure Blob Storage

Correct Answer: C

*

 An invaluable feature of NetApp Snapshot copies is their innate immutability. They can\\'t be changed. This is

especially important because an increasing number of ransomware attacks involve attackers encrypting your data and holding the

key hostage.

*

 docs.netapp.com. ONTAP, Configure access restrictions for anonymous users

By default, an anonymous, unauthenticated user (also known as the null user) can access certain information on the network. You can use a SMB server option to configure access restrictions for the anonymous user.

*

 Azure NetApp Files supports access control lists (ACLs) on NFSv4.1 volumes. ACLs provide granular file security via NFSv4.1.

ACLs contain access control entities (ACEs), which specify the permissions (read, write, etc.) of individual users or groups. When assigning user roles, provide the user email address if you\\'re using a Linux VM joined to an Active Directory Domain. Otherwise, provide user IDs to set permissions.

Reference: https://www.netapp.com/blog/protect-google-cloud-with-snapshot https://docs.netapp.com/us-en/ontap/smb-admin/configure-access-restrictions-anonymous-users-task.html https://learn.microsoft.com/en-us/azure/azure-netapp-files/configure-access-control-lists

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