Answer Sheet

Q1)

A Company needs to create a site-to-site VPN connection with an Azure Virtual network.

They want to implement redundancy and high availability for the connection.

Hence, they decide to implement an active- active configuration for the site-to-site connections.

How many public IP address need to be defined for such a setup?

- 1
- ✓ 2

Explanation:-Since do we need an active-active configuration we need 2 public IP addresses

- 3
- 4

Q2)

A Company needs to create a site-to-site VPN connection with an Azure Virtual network.

They want to implement redundancy and high availability for the connection.

Hence, they decide to implement an active- active configuration for the site-to-site connections.

Which of the following could be used as SKU's for the VPN gateway in Azure? Choose 3 answers from the options given below

- Basic
- ✓ VpnGw1

Explanation:-The applicable SKU's are given in the Microsoft documentation

- ✓ VpnGw2

Explanation:-The applicable SKU's are given in the Microsoft documentation

- ✓ VpnGw3

Explanation:-The applicable SKU's are given in the Microsoft documentation

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Q3)

A Team need to deploy resources using Azure resource manager templates.

You have to ensure that the users performing the deployment don't have the ability to view the connecting strings required by the application being deployed via the template.

Which of the following would you use for this requirement?

- A parameter file
- A storage account
- ✓ Azure Key vault
- Web config file

Q4)

Overview:

XYZ is an online training provider. they have several main offices and a couple of branch offices.

Existing Environment

1) Their existing environment consist of an active directory domain named XYZ.com. This is being hosted on a Windows Server.

2) A set of web servers hosted on a VMware environment.

3) A set of Microsoft SQL server database servers hosted on physical servers

4) The company has also set up an Azure AD tenant.

5) Their subscription currently consists of Azure AD basic licences.

Network Infrastructure:

1) Each of the main offices has a data centre in place.

2) Each office also has a dedicated internet connection

Requirements

Planned Changes

1) The company wants to set up new office in London

2) All the sources for the London office will be hosted in Azure

3) The on-premises active directory will be synchronized to Azure AD

4)All client computers in the London office will be joined to the Azure AD domain.

Planned Azure Networking Infrastructure

Name
XYZ- London
XYZ- office
XYZ- client

The following subnets will be in place

Virtual Network Name	Subnet

XYZ-London	Subnet A
XYZ- London	Subnet B
XYZ- client	Subnet C
XYZ- office	Subnet D
XYZ- office	Subnet E

The following additional settings will be in place

1) Default routes in Azure will be used to route traffic

2) A peering connection will be established between the virtual networks XYZ-London and XYZ-office

3)The peering connection for XYZ-London will have remote gateways enabled

4) A private DNS zone will be created named XYZ local. the registration network will be set to the XYZ-client virtual network

The company has the following additional requirements:

1) A number of web apps will be deployed. The initial settings of the web apps will be the same.

2) The senior management needs to have the ability to view the costs for Azure resources from the prior week.

The company wants to setup a disaster recovery solution for the web based servers. the workloads on this server need to be available in a secondary data centre in the event of a primary data centre failure.

Which of the following service could they use which would provide them the least RTO?

- Azure backup
- Azure data migration assistant
- Az copy tool
- ✔ Azure site recovery

Explanation:-For any sort of migration which requires a low low RTO, you need to choose Azure site recovery

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Q5)

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Network Infrastructure:

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Planned Changes

1) The company wants to set up new office in London

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XYZ- office
XYZ- client

The following subnets will be in place

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The company has the following additional requirements:

1) A number of web apps will be deployed. The initial settings of the web apps will be the same.

2) The senior management needs to have the ability to view the costs for Azure resources from the prior week.

The company wants to setup a disaster recovery solution for the web based servers. the workloads on this server need to be available in a secondary data centre in the event of a primary data centre failure.

The company wants to lift and shift the on-premise database to Azure with minimal application and database changes.

Which of the following could be used in Azure to host the database?Which of the following could be used in Azure to host the database?

- Azure SQL Database-single instance
- Azure SQL Database- pooled instance
- ✔ Azure SQL Database- managed instance

Explanation:-The ideal approach is to create a managed SQL instance

- Azure SQL Database- vCore model

Q6)

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The company has the following additional requirements:

1) A number of web apps will be deployed. The initial settings of the web apps will be the same.

2) The senior management needs to have the ability to view the costs for Azure resources from the prior week.

A Team needs to perform a packet capture for traffic that enters the virtual machines entering the "XYZ-London" network.

Which of the following could be used for this requirement?

- ✔ Azure network watcher

Explanation:-This can be accomplished with the help of the Azure network watcher service

- Azure firewalls
- Azure network security groups
- Azure virtual network gateways

Q7)

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The company has the following additional requirements:

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2) The senior management needs to have the ability to view the costs for Azure resources from the prior week.

A Development team wants to use a serverless compute service that could be used in conjunction with the web applications when they are migrated to Azure. They decide to use the Azure logic app service.

Would this fulfill the requirement?

- Correct
- ✅ Incorrect

Explanation:-This is a workflow-based service and is not a serverless computer service

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Q8)

You have an Azure subscription that contains a resource group named RG1. You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers. You need to recommend a solution that meets the following requirements: The researchers must be allowed to create Azure virtual machines. The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.

Solution: Create an Azure DevOps Project. Configure the DevOps Project settings.

Does this meet the goal?

- Correct
- ✅ Incorrect

Explanation:-Instead: On RG1, assign the Contributor role to the ResearchUsers group. Create a custom Azure Policy definition and assign the policy to RG1.

Q9)

Use the following login credentials as needed: To enter your username, place your cursor in the Sign inbox and click on the username below. To enter your password, place your cursor in the Enter password box and click on the password below. Azure Username: Tom-11234828@ExamUsers. comAzure Password: Nq9Md6+!BjIf the Azure portal does not load successfully in the browser, press CTRL-K to reload the portal in a new browser tab. The following information is for technical support purposes only: Lab Instance: 11234828A new corporate policy states that users must be able to authenticate to the web app by using their Azure Active Directory (Azure AD) credentials.

What should you add to the web app?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

- a custom domain
- a custom RBAC role
- ✅ two managed service identities

Explanation:-You can create a managed identity for App Service and Azure Functions applications and how to use it to access other resources. A managed identity from AzureActive Directory (AAD) allows your app to easily access other AAD-protected resources such as Azure Key Vault. References:https://docs. microsoft. com/en-us/azure/app-service/overview-managed-identity

- an authentication provider

Q10)

You manage an Azure environment for a company. The environment has over 25,000 licensed users and 100 mission-critical applications. You need to recommend a solution that provides advanced endpoint threat detection and remediation strategies.

What should you recommend?

- Azure Active Directory (Azure AD) authentication
- Microsoft Identity Manager
- Azure Active Directory Federation Services (AD FS)
- Azure Active Directory (AZ AD) Connect
- ✓ Azure Active Directory (Azure AD) Identity Protection

Explanation:-Identity Protection uses adaptive machine learning algorithms and heuristics to detect anomalies and risk detections that might indicate that an identity has beencompromised. Using this data, Identity Protection generates reports and alerts so that you can investigate these risk detections and take appropriate remediation ormitigation action. References:https://docs. microsoft. com/en-us/azure/security/fundamentals/threat-detectionDesign a Data Platform Solution

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Q11)

You are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases.You need to recommend a solution to report the costs for each department to deploy the app services and the databases.

The solution must provide a consolidatedview for cost reporting.

Solution: Create a resources group for each resource type. Assign tags to each resource group.

Does this meet the goal?

- ✓ Correct

Explanation:-Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing ormanagement. Reference:https://docs. microsoft. com/en-us/azure/azure-resource-manager/resource-group-using-tags

- Incorrect

Q12)

You are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases. You need to recommend a solution to report the costs for each department to deploy the app services and the databases.

The solution must provide a consolidatedview for cost reporting.Solution: Place all resources in the same resource group. Assign tags to each resource.

Does this meet the goal?

- Correct

Explanation:-Instead, create a resources group for each resource type. Assign tags to each resourceNote: Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing ormanagement. Reference:https://docs. microsoft. com/en-us/azure/azure-resource-manager/resource-group-using-tags

- ✓ Incorrect

Q13)

You are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases. You need to recommend a solution to report the costs for each department to deploy the app services and the databases.

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Does this meet the goal?

- Correct

Explanation:-Instead, create a resources group for each resource type. Assign tags to each resourceNote: Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing ormanagement. Reference:https://docs. microsoft. com/en-us/azure/azure-resource-manager/resource-group-using-tags

- ✓ Incorrect

Q14)

You have an Azure subscription that contains 100 virtual machines. You plan to design a data protection strategy to encrypt the virtual disks. You need to recommend a solution to encrypt the disks by using Azure Disk Encryption. The solution must provide the ability to encrypt operating system disks and data disks.

What should you include in the recommendation?

- a passphrase

Explanation:-For enhanced virtual machine (VM) security and compliance, virtual disks in Azure can be encrypted. Disks are encrypted by using

cryptographic keys that aresecured in an Azure Key Vault. You control these cryptographic keys and can audit their use. Reference:https://docs. microsoft. com/en-us/azure/virtual-machines/windows/encrypt-disks

- a certificate
- ✔ a key
- a secret

Q15)

You deploy Azure App Service Web Apps that connect to on-premises Microsoft SQL Server instances by using Azure ExpressRoute. You plan to migrate the SQLServer instances to Azure. Migration of the SQL Server instances to Azure must: Support automatic patching and version updates to SQL Server. Provide automatic backup services. Allow for the high-availability of the instances. Provide a native VNET with private IP addressing. Encrypt all data in transit. Be in a single-tenant environment with dedicated underlying infrastructure (compute, storage)You need to migrate the SQL Server instances to Azure.

Which Azure service should you use?

- Azure SQL Database with elastic pools
- SQL Server in Docker containers running on Azure Kubernetes Service (AKS)
- SQL Server Infrastructure-as-a-Service (IaaS) virtual machine (VM)
- SQL Server in a Docker container running on Azure Container Instances (ACI)
- ✔ Azure SQL Database Managed Instance

Explanation:-Azure SQL Database Managed Instance configured for Hybrid workloads. Use this topology if your Azure SQL Database Managed Instance is connected to youron-premises network. This approach provides the most simplified network routing and yields maximum data throughput during the migration. Reference:https://docs. microsoft. com/en-us/azure/dms/resource-network-topologies

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Q16)

You are designing an Azure Web App that includes many static content files. The application is accessed from locations all over the world by using a custom domain name. You need to recommend an approach for providing access to the static content with the least amount of latency.

Which two actions should you recommend?

Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- Configure a custom domain name that is an alias for the Azure Storage domain.
- ✔ Configure a CNAME DNS record for the Azure Content Delivery Network (CDN) domain.
- Place the static content in Azure Table storage.
- ✔ Place the static content in Azure Blob storage and enable Content Delivery Network (CDN) on the account.

Q17)

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. Different cloud serviceswill 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 would you include in your recommendation?

- Azure Traffic Manager
- Azure Data Lake
- Azure Blob storage
- ✔ Azure Service Bus

Explanation:-Asynchronous messaging can be implemented in a variety of different ways. With queues, topics, and subscriptions, Azure Service Bus supports asynchronism viaa store and forward mechanism. Reference:https://docs. microsoft. com/en-us/azure/service-bus-messaging/service-bus-async-messaging

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Q18)

You are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases. You need to recommend a solution to report the costs for each department to deploy the app services and the databases.

The solution must provide a consolidated view for cost reporting. Solution: Create a separate resource group for each department. Place the resources for each department in its respective resource group.

Does this meet the goal?

- Correct
- ✔ Incorrect

Explanation:-Instead create a resources group for each resource type. Assign tags to each resource group. Note: Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing ormanagement. Reference:https://docs. microsoft. com/en-us/azure/azure-resource-manager/resource-group-using-tags

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Q19) Fabrikam, Inc. is an engineering company that has offices throughout Europe. The company has a main office in London and three branch offices in Amsterdam, Berlin, and Rome.

Existing Environment -

Active Directory Environment -

The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.

Corp.fabrikam.com is a production forest that contains identities used for internal user and computer authentication.

Rd.fabrikam.com is used by their research and development (R&D) department only.

Network Infrastructure -

Each office contains at least one domain controller from the corp.fabrikam.com domain. The main office contains all the domain controllers for the rd.fabrikam.com forest.

All the offices have a high-speed connection to the Internet.

An existing application named WebApp1 is hosted in the data center of the London office. WebApp1 is used by customers to place and track orders. 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.

The IT department currently uses a separate Hyper-V environment to test updates to WebApp1.

Fabrikam purchases all Microsoft licenses through a Microsoft Enterprise Agreement that includes Software Assurance.

Problem Statements -

The use of WebApp1 is unpredictable. At peak times, users often report delays. At other times, many resources for WebApp1 are underutilized.

Requirements -

Planned Changes -

Fabrikam plans to move most of its production workloads to Azure during the next few years.

As one of its first projects, the company plans to establish a hybrid identity model, facilitating an upcoming Microsoft Office 365 deployment.

All R&D operations will remain on-premises.

Fabrikam plans to migrate the production and test instances of WebApp1 to Azure.

Technical Requirements -

Fabrikam identifies the following technical requirements:

Web site content must be easily updated from a single point.

User input must be minimized when provisioning new web app instances.

Whenever possible, existing on-premises licenses must be used to reduce cost.

Users must always authenticate by using their corp.fabrikam.com UPN identity.

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

Whenever possible, solutions must be deployed to Azure by using platform as a service (PaaS).

An email distribution group named IT Support must be notified of any issues relating to the directory synchronization services.

Directory synchronization between Azure Active Directory (Azure AD) and corp.fabrikam.com must not be affected by a link failure between Azure and the on- premises network.

Fabrikam identifies the following database requirements:

Database metrics for the production instance of WebApp1 must be available for analysis so that database administrators can optimize the performance settings.

To avoid disrupting customer access, database downtime must be minimized when databases are migrated.

Database backups must be retained for a minimum of seven years to meet compliance requirements.

Security Requirements -

Fabrikam identifies the following security requirements:

Company information including policies, templates, and data must be inaccessible to anyone outside the company.

Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails.

Administrators must be able authenticate to the Azure portal by using their corp.fabrikam.com credentials.

All administrative access to the Azure portal must be secured by using multi-factor authentication.

The testing of WebApp1 updates must not be visible to anyone outside the company.

You need to recommend a data storage strategy for WebApp1.

What should you include in the recommendation?

- an Azure SQL Database elastic pool
- an Azure virtual machine that runs SQL Server

- a fixed-size DTU Azure SQL database
- ✅ a vCore-based Azure SQL database

Q20)

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 would you include in the recommendation?

- Azure Traffic Manager
- AzureIncorrecttification Hubs
- Azure Blob storage
- ✅ Azure Queue storage

Explanation:-Asynchronous messaging can be implemented in a variety of different ways. With queues, topics, and subscriptions. The queue service REST API: The Queue service stores messages that may be read by any client who has access to the storage account. Incorrect Answers:B: Azure Notification Hubs provide an easy-to-use and scaled-out push engine that allows you to send notifications to any platform. This communication is notasynchronous, however. Reference:https://docs. microsoft. com/en-us/azure/service-bus-messaging/service-bus-async-messaginghttps://docs. microsoft. com/en-us/rest/api/storageservices/queue-service-rest-api

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Q21)

You have an Azure subscription that contains an Azure Cosmos DB account. You need to recommend a solution to generate an alert from Azure Log Analytics when a request charge for a query exceeds 50 request units more than 20 times within a 15-minute window.

What should you recommend?

- ✅ Create a search query to identify when requestCharge_s exceeds 50. Configure an alert threshold of 20 and a period of 15.
- Create a search query to identify when duration_s exceeds 20 and requestCharge_s exceeds 50. Configure a period of 15.
- Create a search query to identify when requestCharge_s exceeds 20. Configure a period of 15 and a frequency of 20.
- Create a search query to identify when duration_s exceeds 20. Configure a period of 15.

Q22)

You have 70 TB of files on your on-premises file server. You need to recommend a solution for importing data to Azure. The solution must minimize cost.

What Azure service should you recommend?

- Azure StorSimple
- Azure Stack
- ✅ Azure Data Box

Explanation:-Microsoft has engineered an extremely powerful solution that helps customers get their data to the Azure public cloud in a cost-effective, secure, and efficientmanner with powerful Azure and machine learning at play. The solution is called Data Box. Data Box and is in general availability status. It is a rugged device that allows organizations to have 100 TB of capacity on which to copy their data and then send itto be transferred to Azure. Incorrect Answers:A: StoreSimple would not be able to handle 70 TB of data. References:https://www. vembu. com/blog/what-is-microsoft-azure-data-box-disk-edge-heavy-gateway-overview/

- Azure Batch

Q23)

You have an Azure subscription. Your on-premises network contains a file server named Server1. Server1 stores 5 TB of company files that are accessed rarely. You plan to copy the files to Azure Storage. You need to implement a storage solution for the files that meet the following requirements: The files must be available within 24 hours of being requested. Storage costs must be minimized.

Which two possible storage solutions achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- ✅ Create a general-purpose v2 storage account that is set to the Cool access tier. Create a file share in the storage account and copy the files to the file share.
- Create a general-purpose v2 storage account that is set to the Host access tier. Create a blob container, copy the files to the blob container, and set each file tothe Archive access tier.
- Create a general-purpose v1 storage account. Create a file share in the storage account and copy the files to the file share.
- Create an Azure Blob storage account that is set to the Cool access tier. Create a blob container, copy the files to the blob container, and set each file to theArchive access tier.
- ✅ Create a general-purpose v1 storage account. Create a blob container and copy the files to the blob container.

Q24)

You are designing a data protection strategy for Azure virtual machines. All the virtual machines are in the Standard tier and use managed disks. You need to recommend a solution that meets the following requirements: The use of encryption keys is audited. All the data is encrypted at rest always. You manage the encryption keys, not Microsoft.

What should you include in the recommendation?

- BitLocker Drive Encryption (BitLocker)

- Azure Storage Service Encryption
- client-side encryption
- ✅ Azure Disk Encryption

Explanation:-Reference:https://docs. microsoft. com/en-us/azure/security/azure-security-disk-encryption-overview

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Q25)

You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following characteristics:The largest database is currently 3 TB. None of the databases will ever exceed 4 TB. Stored procedures are implemented by using CLR. You plan to move all the data from SQL Server to Azure. You need to recommend an Azure service to host the databases. The solution must meet the following requirements: Whenever possible, minimize management overhead for the migrated databases. Minimize the number of database changes required to facilitate the migration. Ensure that users can authenticate by using their Active Directory credentials.

What should you include in the recommendation?

- Azure SQL Database single databases
- ✅ Azure SQL Database Managed Instance

Explanation:-Reference:https://docs. microsoft. com/en-us/azure/sql-database/sql-database-managed-instance

- Azure SQL Database elastic pools
- SQL Server 2016 on Azure virtual machines

Q26)

You plan to create an Azure Cosmos DB account that uses the SQL API. The account will contain data added by a web application. The web application will send data daily. You need to recommend a notification solution that meets the following requirements: Sends email notification when data is received from IoT devices. Minimizes compute cost.

What should you include in the recommendation?

- Deploy an Azure logic app that has the Azure Cosmos DB connector configured to use a SendGrid action.
- ✅ Deploy a function app that is configured to use the Consumption plan and a SendGrid binding.

Explanation:-You can send email by using SendGrid bindings in Azure Functions. Azure Functions supports an output binding for SendGrid. Note: When you're using the Consumption plan, instances of the Azure Functions host are dynamically added and removed based on the number of incomingevents. Reference:https://docs. microsoft. com/en-us/azure/azure-functions/functions-bindings-sendgridhttps://docs. microsoft. com/en-us/azure/azure-functions/functions-scale#consumption-plan

- Deploy an Azure logic app that has a SendGrid connector configured to use an Azure Cosmos DB action.
- Deploy a function app that is configured to use the Consumption plan and an Azure Event Hubs binding.

Q27)

You have Azure virtual machines that run a custom line-of-business web application. You plan to use a third-party solution to parse event logs from the virtual machines stored in an Azure storage account.

You need to recommend a solution to save the event logs from the virtual machines to the Azure Storage account. The solution must minimize costs and complexity.

What should you include in the recommendation?

- ✅ Azure VM Diagnostics Extension

Explanation:-The Azure Diagnostics VM extension enables you to collect monitoring data, such as performance counters and event logs, from your Windows VM. You cangranularly specify what data you want to collect and where you want the data to go, such as an Azure Storage account or an Azure Event Hub. Reference:https://docs. microsoft. com/en-us/azure/virtual-machines/windows/extensions-diagnostics

- Azure Monitor Metrics
- event log subscriptions
- Azure Monitor Logs

Q28)

Use the following login credentials as needed: To enter your username, place your cursor in the Sign inbox and click on the username below. To enter your password, place your cursor in the Enter password box and click on the password below. Azure Username: Tom-11234828@ExamUsers. comAzure Password: Nq9Md6+!BjIf the Azure portal does not load successfully in the browser, press CTRL-K to reload the portal in a new browser tab. The following information is for technical support purposes only: Lab Instance: 11234828You needs to ensure that all the virtual machines in the resource groups are available in one region during platform updates.

What should you modify?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

- ✅ the number of update domains

Explanation:-Update DomainWhen you created VMs on the IaaS service model, then Microsoft is not responsible for automatic system updates. You have complete control over that. Theplanned maintenance event comes in this phase, where we planned for server or virtual machine updating. Sometimes we need to update some own software, or some updates come from Microsoft due to performance, security, etc. it is not automatically updated yourvirtual machine, then we need to plane it for updates. So how is that done without taking your service offline? Update Domains. References:https://azure. codefari. com/2018/12/what-are-availability-set-fault-domain. html

- the number of virtual machines in the availability set
- the replication settings of the storage account
- the number of fault domains

Q29)

Use the following login credentials as needed:To enter your username, place your cursor in the Sign in box and click on the username below. To enter your password, place your cursor in the Enter password box and click on the password below. Azure Username: Tom-11234828@ExamUsers. comAzure Password: Nq9Md6+!BjIf the Azure portal does not load successfully in the browser, press CTRL-K to reload the portal in a new browser tab.

The following information is for technical support purposes only: Lab Instance: 11234828After Web01 is backed up, to where will Azure replicate the backup?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

- multiple data centers in different regions
- multiple storage locations in the same data center
- ✔ multiple data centers in the same region

Q30)

You have an Azure Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier. You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: For File1, you set Access tier to Cool.

Does this meet the goal?

- Correct
- ✔ Incorrect

Explanation:-Instead use the hot access tier. The hot access tier has higher storage costs than cool and archive tiers, but the lowest access costs. Example usage scenarios for the hot access tier include:Data that's in active use or expected to be accessed (read from and written to) frequently. Data that's staged for processing and eventual migration to the cool access tier. References:https://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-storage-tiers

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Q31)

You have an Azure Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier. You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: You move File1 to a new storage account. For File1, you set Access tier to Archive.

Does this meet the goal?

- Correct
- ✔ Incorrect

Explanation:-Instead use the hot access tier. The hot access tier has higher storage costs than cool and archive tiers, but the lowest access costs. Example usage scenarios for the hot access tier include:Data that's in active use or expected to be accessed (read from and written to) frequently. Data that's staged for processing and eventual migration to the cool access tier. References:https://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-storage-tiers

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Q32)

You have an Azure Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier. You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: For File1, you set Access tier to Hot.

Does this meet the goal?

- ✔ Correct

Explanation:-The hot access tier has higher storage costs than cool and archive tiers, but the lowest access costs. Example usage scenarios for the hot access tier include:Data that's in active use or expected to be accessed (read from and written to) frequently. Data that's staged for processing and eventual migration to the cool access tier. References:https://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-storage-tiers

- Incorrect

Q33)

You have an application named App1. App1 generates log files that must be archived for five years. The log files must be readable by App1 but must not be modified.

Which storage solution should you recommend for archiving?

- ✔ Use an Azure Blob storage account and a time-based retention policy

Explanation:-Immutable storage for Azure Blob storage enables users to store business-critical data objects in a WORM (Write Once, Read Many) state. Immutable storage supports:Time-based retention policy support: Users can set policies to store data for a specified interval. When a time-based retention policy is set, blobs can be createdand read, but not modified or deleted. After the retention period has expired, blobs can be deleted but not overwritten. References:https://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-immutable-storageDesign a Business Continuity Strategy

- Ingest the log files into an Azure Log Analytics workspace
- Use an Azure Blob Storage account configured to use the Archive access tier
- Use an Azure file share that has access control enabled

Q34)

You plan to deploy a payroll system to Azure. The payroll system will use Azure virtual machines that run SUSE Linux Enterprise Server and Windows. You need to recommend a business continuity solution for the payroll system.

The solution must meet the following requirements: Minimize costs. Provide business continuity if an Azure region fails. Provide a recovery time objective (RTO) of 120 minutes. Provide a recovery point objective (RPO) of five minutes.

What should you include in the recommendation?

- Microsoft System Center Data Protection Manager (DPM)
- Azure Site Recovery
- ✅ unmanaged disks that use geo-redundant storage (GRS)

Explanation:-If your storage account has GRS enabled, then your data is durable even in the case of a complete regional outage or a disaster in which the primary region isn'trecoverable. Note: The recovery time objective (RTO) is the targeted duration of time and a service level within which a business process must be restored after a disaster (ordisruption) in order to avoid unacceptable consequences associated with a break in business continuity. Incorrect Answers:B: Azure Site Recovery would not protect against an Azure region failure. Azure Site Recovery guarantees a two-hour Recovery Time Objective. Reference:https://docs. microsoft. com/en-us/azure/storage/common/storage-redundancy-grshttps://azure. microsoft. com/en-us/support/legal/sla/site-recovery/v1_0/

- Azure Backup

Q35)

The accounting department at your company migrates to new financial accounting software. The accounting department must keep file-based database backups for seven years for compliance purposes. It is unlikely that the backups will be used to recover data.

You need to move the backups to Azure. The solution must minimize costs.

Where should you store the backups?

- Azure SQL Database
- ✅ Azure Blob storage that uses the Archive tier
- a Recovery Services vault
- Azure Blob storage that uses the Cool tier

Q36)

You plan to store data in Azure Blob storage for many years. The stored data will be accessed rarely. You need to ensure that the data in Blob storage is always available for immediate access. The solution must minimize storage costs.

Which storage tier should you use?

- ✅ Cool

Explanation:-Azure cool tier is equivalent to the Amazon S3 Infrequent Access (S3-IA) storage in AWS that provides a low cost high performance storage for infrequently accessdata. Note: Azure's cool storage tier, also known as Azure cool Blob storage, is for infrequently-accessed data that needs to be stored for a minimum of 30 days. Typicaluse cases include backing up data before tiering to archival systems, legal data, media files, system audit information, datasets used for big data analysis andmore. The storage cost for this Azure cold storage tier is lower than that of hot storage tier. Since it is expected that the data stored in this tier will be accessed lessfrequently, the data access charges are high when compared to hot tier. There are no additional changes required in your applications as these tiers can beaccessed using APIs in the same manner that you access Azure storage. Incorrect Answers:B: Even though Azure archive storage offers the lowest cost in terms of data storage, its data retrieval charges are higher than that of hot and cool tiers. In fact, thedata in the archive tier remains offline until the tier of the data is changed using a process called hydration. The process of hydrating data in the archive storage tierand moving it to either hot or cool tier could take up to 15 hours and, hence, it is only intended for data that can afford that kind of access delay. C: The storage cost for this Azure cold storage tier is lower than that of hot storage tier. Reference:https://cloud. netapp. com/blog/low-cost-storage-options-on-azure

- Archive
- Hot

Q37)

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 Recovery Services vault and Azure Backup
- ✅ an Azure file share and Azure File Sync

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 fileserver. 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. Incorrect Answers:A: Backups would be a slower solution. Reference:https://docs. microsoft. com/en-us/azure/storage/files/storage-sync-files-deployment-guide

- Azure blob containers and Azure File Sync
- a Recovery Services vault and Windows Server Backup

Q38)

You have an Azure subscription for used for testing and development purposes only. The subscription contains Azure virtual machines that unmanaged, standard hard disk drives (HDD). You need to recommend a recovery strategy for the virtual machines if an Azure region fails for a sustained period. The recovery time objective (RTO) can be up to seven days.

The solution must minimize costs.

What should you include in the recommendation?

Store the disks in a Standard_LRS storage account. Configure Azure site Recovery. If a failure occurs, initiate a manual failover.

Store the disks in a Standard_GRS storage account. Configure Azure Recovery. If a failure occurs, initiate a manual failover.

Explanation:-Geo-redundant storage (GRS) is designed to provide at least 99. 99999999999999% (16 9's) durability of objects over a given year by replicating your data to asecondary region that is hundreds of miles away from the primary region. If your storage account has GRS enabled, then your data is durable even in the case of acomplete regional outage or a disaster in which the primary region isn't recoverable. GRS replicates your data to another data center in a secondary region, but that data is available to be read only if Microsoft initiates a failover from the primary tosecondary region. Incorrect Answers:A, C: If a datacenter-level disaster (for example, fire or flooding) occurs, all replicas in a storage account using LRS may be lost or unrecoverable. To mitigate thisrisk, Microsoft recommends using zone-redundant storage (ZRS), geo-redundant storage (GRS), or geo-zone-redundant storage (GZRS). Reference:https://docs. microsoft. com/en-us/azure/storage/common/storage-redundancy-grs

Store the disks in a Standard_LRS storage account. If a disaster occurs, manually create the virtual machines by used Azure Resources Manager templates.

Store the disks in a Standard_GRS storage account. If a disaster occurs, manually create the virtual machines by used Azure Resources Manager templates.

Q39)

You plan to deploy a payroll system to Azure. The payroll system will use Azure virtual machines that run SUSE Linux Enterprise Server and Windows. You need to recommend a business continuity solution for the payroll system.

The solution must meet the following requirements: Minimize costs. Provide business continuity if an Azure region fails. Provide a recovery time objective (RTO) of 30 minutes. Provide a recovery point objective (RPO) of five minutes.

What should you include in the recommendation?

Azure Site Recovery

unmanaged disks that use geo-redundant storage (GRS)

Explanation:-If your storage account has GRS enabled, then your data is durable even in the case of a complete regional outage or a disaster in which the primary region isn't recoverable. Note: The recovery time objective (RTO) is the targeted duration of time and a service level within which a business process must be restored after a disaster (or disruption) in order to avoid unacceptable consequences associated with a break in business continuity.
Incorrect Answers:
Azure Site Recovery would not protect against an Azure region failure. Azure Site Recovery guarantees a two-hour Recovery Time Objective.
Link -
https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-grs https://azure.microsoft.com/en-us/support/legal/sla/site-recovery/v1_0/ and https://docs.microsoft.com/en-us/azure/storage/common/storage-disaster-recovery-guidance

Microsoft System Center Data Protection Manager (DPM)

Azure Backup

Q40) You have an Azure Storage account that contains the data shown in the following exhibit. You need to identify which files can be accessed immediately from the storage account. Which files should you identify?

File1. bin only

File2. bin only

File3. bin only

File1. bin and File2. bin only

Explanation:-Hot - Optimized for storing data that is accessed frequently. Cool - Optimized for storing data that is infrequently accessed and stored for at least 30 days. 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). Note: Lease state of the blob. Possible values: available|leased|expired|breaking|brokenReferences:https://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-storage-tiers

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Q41)

You plan to use Azure Site Recovery to protect several on-premises physical server workloads. Each server workload is independent of the other. The workloads are stateless. You need to recommend a failover strategy to ensure that if the on-premises data center fails, the workloads are available in Azure as quickly as possible.

Which failover strategy should you include in the recommendation?

Latest

Latest app-consistent

Latest multi-VM processed

Latest processed

Explanation:-Reference:https://docs. microsoft. com/en-us/azure/site-recovery/site-recovery-failover

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Q42)

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?

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

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

Explanation:-The job of Azure Load Balancer is to direct traffic inside a region. This is combined with Azure Traffic Manager, where traffic manager routes interior to a region between virtual machines.

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

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

Q43)

You have an on-premises Hyper-V cluster that hosts 20 virtual machines. Some virtual machines run Windows Server 2016 and some run Linux. You plan to migrate the virtual machines to an Azure subscription. You need to recommend a solution to replicate the disks of the virtual machines to Azure. The solution must ensure that the virtual machines remain available during the migration of the disks.

Solution: You recommend implementing an Azure Storage account that has a file service and a blob service, and then using the Data Migration Assistant.

Does this meet the goal?

- Correct
- ✅ Incorrect

Explanation:-Data Migration Assistant is used to migrate SQL databases. Instead use Azure Site Recovery. References:https://docs. microsoft. com/en-us/azure/site-recovery/site-recovery-overview

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Q44)

You have an on-premises Hyper-V clusters that hosts 20 virtual machines. Some virtual machines run Windows Server 2016 and some run Linux. You plan to migrate the virtual machines to an Azure subscription. You need to recommend a solution to replicate the disks of the virtual machines to Azure. The solution must ensure that the virtual machines remain available during the migration of the disks.

Solution: You recommend implementing an Azure Storage account, and then running AzCopy.

Does this meet the goal?

- Correct
- ✅ Incorrect

Explanation:-AzCopy only copy files, not the disks. Instead use Azure Site Recovery. References:https://docs. microsoft. com/en-us/azure/site-recovery/site-recovery-overview

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Q45)

You have an on-premises Hyper-V clustern that hosts 20 virtual machines. Some virtual machines run Windows Server 2016 and some run Linux. You plan to migrate the virtual machines to an Azure subscription. You need to recommend a solution to replicate the disks of the virtual machines to Azure. The solution must ensure that the virtual machines remain available during the migration of the disks.

Solution: You recommend implementing a Recovery Services vault, and then using Azure Site Recovery.

Does this meet the goal?

- ✅ Correct

Explanation:-Site Recovery can replicate on-premises VMware VMs, Hyper-V VMs, physical servers (Windows and Linux), Azure Stack VMs to Azure. Note: Site Recovery helps ensure business continuity by keeping business apps and workloads running during outages. Site Recovery replicates workloads runningon physical and virtual machines (VMs) from a primary site to a secondary location. When an outage occurs at your primary site, you fail over to secondary location,and access apps from there. After the primary location is running again, you can fail back to it. References:https://docs. microsoft. com/en-us/azure/site-recovery/site-recovery-overview

- Incorrect

Q46)

You need to ensure that connections to Web01 and Web02 are available if a single zone fails.

What should you modify?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

- the availability set
- the size of the virtual machines
- ✅ the SKU of the load balancer

Explanation:-Azure Standard Load Balancer supports availability zones scenarios. You can use Standard Load Balancer to optimize availability in your end-to-end scenario byaligning resources with zones and distributing them across zonesReferences:https://docs. microsoft. com/en-us/azure/load-balancer/load-balancer-standard-availability-zones

- the Azure Traffic Manager configurations

Q47)

You have an Azure Storage v2 account named Storage1. You plan to archive data to Storage1. You need to ensure that the archived data cannot be deleted for five years. The solution must prevent administrators from deleting the data.

Solution: You create a file share, and you configure an access policy.

Does this meet the goal?

- Correct
- ✅ Incorrect

Explanation:-Instead of a file share, an immutable Blob storage is required. Time-based retention policy support: Users can set policies to store data for a specified interval. When a time-based retention policy is set, blobs can be createdand read, but not modified or deleted. After the retention period has expired, blobs can be deleted but not overwritten. Note: Set retention policies and legal holds1. Create a new container or select an existing container to store the blobs that need to be kept in the immutable state. The container must be in a general-purposev2 or Blob storage

account. 2. Select Access policy in the container settings. Then select Add policy under Immutable blob storage. 3. To enable time-based retention, select Time-based retention from the drop-down menu. 4. Enter the retention interval in days (acceptable values are 1 to 146000 days). References:https://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-immutable-storagehttps://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-immutability-policies-manage

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Q48)

You have an Azure Storage v2 account named Storage1. You plan to archive data to Storage1. You need to ensure that the archived data cannot be deleted for five years. The solution must prevent administrators from deleting the data.

Solution: You create an Azure Blob storage container, and you configure a legal hold access policy.

Does this meet the goal?

✅ Correct

Explanation:-Immutable storage for Azure Blob storage enables users to store business-critical data objects in a WORM (Write Once, Read Many) state. This state makes thedata non-erasable and non-modifiable for a user-specified interval. For the duration of the retention interval, blobs can be created and read, but cannot be modifiedor Immutable storage is available for general-purpose v2 and Blob storage accounts in all Azure regions. Note: Set retention policies and legal holds1. Create a new container or select an existing container to store the blobs that need to be kept in the immutable state. The container must be in a general-purposev2 or Blob storage account. 2. Select Access policy in the container settings. Then select Add policy under Immutable blob storage. Either3A. To enable legal holds, select Add Policy. Select Legal hold from the drop-down menu. Or3B. To enable time-based retention, select Time-based retention from the drop-down menu. 4. Enter the retention interval in days (acceptable values are 1 to 146000 days). References:https://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-immutable-storagehttps://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-immutability-policies-manage

⚪ Incorrect

Q49)

You have an Azure Storage v2 account named Storage1. You plan to archive data to Storage1. You need to ensure that the archived data cannot be deleted for five years. The solution must prevent administrators from deleting the data.

Solution: You create a file share and snapshots.

Does this meet the goal?

⚪ Correct

✅ Incorrect

Explanation:-Instead you could create an Azure Blob storage container, and you configure a legal hold access policy. References:https://docs. microsoft. com/en-us/azure/storage/blobs/storage-blob-immutable-storage

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Q50)

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?

⚪ Premium Storage (general purpose v1)

✅ Standard StorageV2 (general purpose v2)

Explanation:-Standard StorageV2 supports the Archive access tier, which would be the cheapest solution. Incorrect Answers:A, D: Each Premium storage account offers 35 TB of disk and 10 TB of snapshot capacityReferences:https://docs. microsoft. com/en-us/azure/storage/common/storage-introductionDesign for Deployment, Migration and Integration

⚪ Standard Storage (general purpose v1)

⚪ Premium StorageV2 (general purpose v2)

Q51)

You have an on-premises deployment of MongoDB. You plan to migrate MongoDB to an Azure Cosmos DB account that uses the MongoDB API. You need to recommend a solution for migrating MongoDB to Azure Cosmos DB.

What should you include in the recommendation?

⚪ Azure Storage Explorer

✅ Azure Cosmos DB Data Migration Tool

Explanation:-Link - https://docs.microsoft.com/en-us/azure/cosmos-db/import-data

⚪ Data Migration Assistant

⚪ mongorestore

Q52)

Your company plans to publish APIs for its services by using Azure API Management. You discover that service responses include the AspNet-Version header. You need to recommend a solution to remove AspNet-Version from the response of the published APIs.

What should you include in the recommendation?

⚪ a new product

⚪ a modification to the URL scheme

✅ a new policy

Explanation:-Set a new transformation policy to transform an API to strip response headers. References:https://docs. microsoft. com/en-us/azure/api-management/transform-api

a new revision

Q53)

Your company has 300 virtual machines hosted in a Vmware environment. The virtual machines vary in size and have various utilization levels. You plan to move all the virtual machines to Azure. You need to recommend how many and what size Azure virtual machines will be required to move the current workloads to Azure. The solution must minimize administrative effort.

What should you use to make the recommendation?

- Azure Advisor
- ✓ Azure Migrate
- Azure Pricing calculator
- Azure Cost Management

Q54)

You are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016. The database server will not move to Azure. A separate networking team is responsible for configuring network permissions. The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1. You need to recommend a solution for deploying the web application.

Solution: Deploy the web application to a web app hosted in a Standard App Service plan. Create and configure an Azure App Service Hybrid Connections endpoint. On the on-premises network, deploy the Hybrid Connection Manager. Configure the Hybrid Connection Manager to access both the Hybrid Connection endpoint and the SQL Server instance.

Does this meet the goal?

- Correct
- ✓ Incorrect

Explanation:-Instead, use VNet Integration. Note: VNet Integration gives your web app access to resources in your virtual network. VNet Integration is often used to enable access from apps to a databasesand web services running in your VNet. Reference:https://docs. microsoft. com/en-us/azure/app-service/web-sites-integrate-with-vnet

Q55)

A company has custom ASP. NET and Java applications that run old versions of Windows and Linux. The company plans to place applications in containers. You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration.

Solution: You create an Azure virtual network, public IP address, and load balancer. Then add virtual machines (VMs) to the solution and deploy individual containers on them.

Does the solution meet the goal?

- Correct
- ✓ Incorrect

Explanation:-Instead you should deploy each application to an Azure Container instance. Note: Docker Containers are the global standard and are natively supported in Azure, offering enterprises an interesting and flexible way to migrate legacy apps forboth future proofing and cost benefits. Reference:https://docs. microsoft. com/en-us/dotnet/standard/modernize-with-azure-and-containers/modernize-existing-apps-to-cloud-optimized/deploy-existing-net-apps-aswindows-containers

Q56)

A company has custom ASP. NET and Java applications that run old versions of Windows and Linux. The company plans to place applications in containers. You need to design a solution that includes networking, service discovery, and load balancing for the applications.

The solution must support storage orchestration. Solution: Deploy a Kubernetes cluster that has the desired number of instances of the applications.

Does the solution meet the goal?

- Correct
- ✓ Incorrect

Explanation:-Instead you should deploy each application to an Azure Container instance. Note: Docker Containers are the global standard and are natively supported in Azure, offering enterprises an interesting and flexible way to migrate legacy apps forboth future proofing and cost benefits. Reference:https://docs. microsoft. com/en-us/dotnet/standard/modernize-with-azure-and-containers/modernize-existing-apps-to-cloud-optimized/deploy-existing-net-apps-aswindows-containers

Q57)

A company has custom ASP. NET and Java applications that run old versions of Windows and Linux. The company plans to place applications in containers. You need to design a solution that includes networking, service discovery, and load balancing for the applications.

The solution must support storage orchestration.

Solution: You deploy each application to an Azure Container instance. Does the solution meet the goal?

- ✓ Correct

Explanation:-Docker Containers are the global standard and are natively supported in Azure, offering enterprises an interesting and flexible way to

migrate legacy apps for bothfuture proofing and cost benefits. Containers are modular and portable. Docker containers are supported on any server operating system (Linux and Windows), in any major public cloud (MicrosoftAzure, Amazon AWS, Google, IBM), and in on-premises and private or hybrid cloud environments. Reference:https://docs. microsoft. com/en-us/dotnet/standard/modernize-with-azure-and-containers/modernize-existing-apps-to-cloud-optimized/deploy-existing-net-apps-aswindows-containers

- Incorrect

Q58)

You manage an application instance. The application consumes data from multiple databases. Application code references database tables using a combination ofthe server, database, and table name. You need to migrate the application instance to Azure.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- ✓ SQL Server Stretch Database
- SQL Server in an Azure virtual machine
- Azure SQL Database
- ✓ SQL Managed Instance

Q59)

You have 100 Microsoft SQL Server Integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations. You plan to migrate the 10 on-premises databases to Azure SQL Database. You need to recommend a solution to host the SSIS packages in Azure. The solution must ensure that the packages can target the SQL Database instances as their destinations.

What should you include in the recommendation?

- ✓ Azure Data Factory

Explanation:-We can use the Azure portal to provision an Azure-SQL Server Integration Services (SSIS) integration runtime (IR) in Azure Data Factory (ADF). Link - https://docs.microsoft.com/en-us/azure/data-factory/tutorial-deploy-ssis-packages-azure

- SQL Server Migration Assistant (SSMA)
- Data Migration Assistant
- Azure Data Catalog

Q60)

A company has custom ASP. NET and Java applications that run on old versions of Windows and Linux. The company plans to place applications in containers. You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration. Solution: You deploy each application to an Azure Web App that has container support.

Does the solution meet the goal?

- Correct
- ✓ Incorrect
