



Vendor: Microsoft

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Case Study 1 - VanArsdel, Ltd (Question 1 - Question 8)

Case Study 2 - Trey Research (Question 53 - Question 57)

Case Study 3 - Contoso, Ltd (Question 58 - Question 62)

Case Study 4 - Lucerne Publishing (Question 63 - Question 68)

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Case Study 7 - Trey Research (Question 188 - Question 195)

Case Study 8 - Woodgrove Bank (Question 196 - Question 203)

QUESTION 1

You need to recommend a solution that allows partners to authenticate.
Which solution should you recommend?

- A. Configure the federation provider to trust social identity providers.
- B. Configure the federation provider to use the Azure Access Control service.
- C. Create a new directory in Azure Active Directory and create a user account for the partner.
- D. Create an account on the VanArsdel domain for the partner and send an email message that contains the password to the partner.

Answer: B

Explanation:

* Scenario: The partners all use Hotmail.com email addresses.

* In Microsoft Azure Active Directory Access Control (also known as Access Control Service or ACS), an identity provider is a service that authenticates user or client identities and issues security tokens that ACS consumes.

The ACS Management Portal provides built-in support for configuring Windows Live ID as an ACS Identity Provider.

Incorrect:

Not C, not D: Scenario: VanArsdel management does NOT want to create and manage user accounts for partners.

<https://msdn.microsoft.com/en-us/library/azure/gg185971.aspx>

QUESTION 2

You are designing a plan to deploy a new application to Azure.
The solution must provide a single sign-on experience for users.
You need to recommend an authentication type.
Which authentication type should you recommend?

- A. SAML credential tokens
- B. Azure managed access keys
- C. Windows Authentication
- D. MS-CHAP

Answer: A

Explanation:

A Microsoft cloud service administrator who wants to provide their Azure Active Directory (AD) users with sign-on validation can use a SAML 2.0 compliant SP-Lite profile based Identity

Provider as their preferred Security Token Service (STS) / identity provider. This is useful where the solution implementer already has a user directory and password store on-premises that can be accessed using SAML 2.0. This existing user directory can be used for sign-on to Office 365 and other Azure AD-secured resources.
<https://msdn.microsoft.com/en-us/library/azure/dn641269.aspx?f=255&MSPPErr=-2147217396>

QUESTION 3

You are designing an Azure application that processes graphical image files.
The graphical Images are processed in batches by remote applications that run on multiple servers.
You have the following requirements:

- The application must remain operational during batch-processing operations.
- Users must be able to roll back each image to a previous version.

You need to ensure that each remote application has exclusive access to an image while the application processes the image.
Which type of storage should you use to store the images?

- A. Table service
- B. Queue service
- C. Blob service
- D. A single Azure VHD that is attached to the web role

Answer: C

Explanation:

* Blob Leases allow you to claim ownership to a Blob. Once you have the lease you can then update the Blob or delete the Blob without worrying about another process changing it underneath you. When a Blob is leased, other processes can still read it, but any attempt to update it will fail. You can update Blobs without taking a lease first, but you do run the chance of another process also attempting to modify it at the same time.

* You can opt to use either optimistic or pessimistic concurrency models to manage access to blobs and containers in the blob service.

Azure Blob Storage Part 8: Blob Leases

<http://justazure.com/azure-blob-storage-part-8-blob-leases/>

Using Blob Leases to Manage Concurrency with Table Storage

<http://www.azurefromthetrenches.com/?p=1371>

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QUESTION 4

You are designing an Azure application that stores data.
You have the following requirements:

- The data storage system must support storing more than 500 GB of data.
- Data retrieval must be possible from a large number of parallel threads.
- Threads must not block each other.

You need to recommend an approach for storing data.
What should you recommend?

- A. Azure Notification Hubs
- B. A single SQL database in Azure
- C. Azure Queue storage
- D. Azure Table storage

Answer: D

Explanation:

* Azure Table Storage can be useful for applications that must store large amounts of nonrelational data, and need additional structure for that data. Tables offer key-based access to unschematized data at a low cost for applications with simplified data-access patterns. While Azure Table Storage stores structured data without schemas, it does not provide any way to represent relationships between the data.

* As a solution architect/developer, consider using Azure Table Storage when:

/ Your application stores and retrieves large data sets and does not have complex relationships that require server-side joins, secondary indexes, or complex server-side logic.

/ You need to achieve a high level of scaling without having to manually shard your dataset.

Azure Table Storage and Windows Azure SQL Database - Compared and Contrasted

<https://msdn.microsoft.com/en-us/library/azure/jj553018.aspx>

QUESTION 5

An application currently resides on an on-premises virtual machine that has 2 CPU cores, 4 GB of RAM, 20 GB of hard disk space, and a 10 megabit/second network connection.

You plan to migrate the application to Azure.

You have the following requirements:

- You must not make changes to the application.
- You must minimize the costs for hosting the application.

You need to recommend the appropriate virtual machine instance type.

Which virtual machine tier should you recommend?

- A. Network Optimized (A Series)
- B. General Purpose Compute, Basic Tier (A Series)
- C. General Purpose Compute, Standard Tier (A Series)
- D. Optimized Compute (D Series)

Answer: B

Explanation:

General purpose compute: Basic tier

An economical option for development workloads, test servers, and other applications that don't require load balancing, auto-scaling, or memory-intensive virtual machines.

CPU core range: 1-8

RAM range: 0.75 – 14 GB

Disk size: 20-240 GB

Incorrect answers:

Not A: Network optimized: fast networking with InfiniBand support Available in select data centers. A8 and A9 virtual machines feature Intel® Xeon® E5 processors. Adds a 40Gbit/s InfiniBand network with remote direct memory access (RDMA) technology. Ideal for Message Passing Interface (MPI) applications, high-performance clusters, modeling and simulations, video encoding, and other compute or network intensive scenarios.

Not C: CPU core range: 1-8

RAM range: 0.75 – 56 GB

Disk size: 20-605 GB

Not D: D-series virtual machines feature solid state drives (SSDs) and 60% faster processors than the A-series and are also available for web or worker roles in Azure Cloud Services. This series is ideal for applications that demand faster CPUs, better local disk performance, or higher memories.

Virtual Machines Pricing. Launch Windows Server and Linux in minutes

<http://azure.microsoft.com/en-us/pricing/details/virtual-machines/>

QUESTION 6

You are designing an Azure web application 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.

- A. Place the static content in Azure Table storage.
- B. Configure a CNAME DNS record for the Azure Content Delivery Network (CDN) domain.
- C. Place the static content in Azure Blob storage.
- D. Configure a custom domain name that is an alias for the Azure Storage domain.

Answer: BC

Explanation:

B: There are two ways to map your custom domain to a CDN endpoint.

1. Create a CNAME record with your domain registrar and map your custom domain and subdomain to the CDN endpoint

2. Add an intermediate registration step with Azure cdnverify

C: The Azure Content Delivery Network (CDN) offers developers a global solution for delivering highbandwidth content by caching blobs and static content of compute instances at physical nodes in the United States, Europe, Asia, Australia and South America.

The benefits of using CDN to cache Azure data include:

/ Better performance and user experience for end users who are far from a content source, and are using applications where many 'internet trips' are required to load content

/ Large distributed scale to better handle instantaneous high load, say, at the start of an event such as a product launch

Using CDN for Azure

<https://azure.microsoft.com/en-gb/documentation/articles/cdn-how-to-use/>

How to map Custom Domain to Content Delivery Network (CDN) endpoint

<https://github.com/Azure/azure-content/blob/master/articles/cdn-map-content-to-customdomain.md>

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QUESTION 7

You have an Azure website that runs on several instances.

You have a WebJob that provides additional functionality to the website.

The WebJob must run on all instances of the website.

You need to ensure that the WebJob runs even when the website is idle for long periods of time.

How should you create and configure the WebJob object? To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area

Requirement	Action
Create the WebJob object	<div> <div></div> <div> Create the WebJob as a scheduled task. Create the WebJob as an on-demand task. Create the WebJob as a continuously running task. </div> </div>
Configure the WebJob object	<div> <div></div> <div> Enable AlwaysOn for the website. Enable AlwaysOn for the database. Configure the WebJob to run continuously. </div> </div>

Answer:

Answer Area

Requirement	Action
Create the WebJob object	<div> <div></div> <div> Create the WebJob as a scheduled task. Create the WebJob as an on-demand task. Create the WebJob as a continuously running task. </div> </div>
Configure the WebJob object	<div> <div></div> <div> Enable AlwaysOn for the website. Enable AlwaysOn for the database. Configure the WebJob to run continuously. </div> </div>

Explanation:

* You can run programs or scripts in WebJobs in your App Service web app in three ways: on demand, continuously, or on a schedule.

* For continuous WebJobs there is an important feature called "always on" which is only available for a Standard Website, this will make sure your Website and WebJob are always up.

Run Background tasks with WebJobs

<http://azure.microsoft.com/en-us/documentation/articles/web-sites-create-web-jobs/>

QUESTION 8

You are designing an Azure web application.

All users must authenticate by using Active Directory Domain Services (AD DS) credentials.

You need to recommend an approach to enable single sign-on to the application for domain-authenticated users.

Which two actions should you recommend? Each correct answer presents part of the solution.

- A. Use Forms authentication to generate claims.
- B. Use the SQL membership provider in the web application.
- C. Use Windows Identity Foundation in the web application.
- D. Use Active Directory Federation Services (AD FS) to generate claims.

Answer: CD

Explanation:

What is Windows Identity Foundation?

<https://msdn.microsoft.com/en-us/library/ee748475.aspx>

DirSync with Single Sign-On

<https://msdn.microsoft.com/en-us/library/azure/dn441213.aspx>

QUESTION 9

Drag and Drop Question

You are designing the deployment of Azure Site Recovery with Hyper-V Replica.

The environment does not have System Center Virtual Machine Manager (VMM) deployed.

You need to instruct an implementation team to prepare the Azure environment for deployment.

Which three actions should you recommend be performed in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- Create a Hyper-V failover cluster.
- Define the source and target replicas.
- Create an Azure Recovery Services vault.
- Install System Center VMM.
- Enable replication for the virtual machines (VMs).

Answer area

Answer:

Actions

- Create a Hyper-V failover cluster.
- Define the source and target replicas.
- Create an Azure Recovery Services vault.
- Install System Center VMM.
- Enable replication for the virtual machines (VMs).

Answer area

- Create an Azure Recovery Services vault.
- Enable replication for the virtual machines (VMs).
- Install System Center VMM.

QUESTION 10

You need to recommend a solution for publishing one of the company websites to Azure and configuring it for remote debugging.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. From Visual Studio, attach the debugger to the solution.
- B. Set the application logging level to Verbose and enable logging.
- C. Set the Web Server logging level to Information and enable logging.

- D. Set the Web Server logging level to Verbose and enable logging.
- E. From Visual Studio, configure the site to enable Debugger Attaching and then publish the site.

Answer: AE

Explanation:

<https://azure.microsoft.com/en-us/documentation/articles/web-sites-dotnet-troubleshoot-visual-studio/>

QUESTION 11

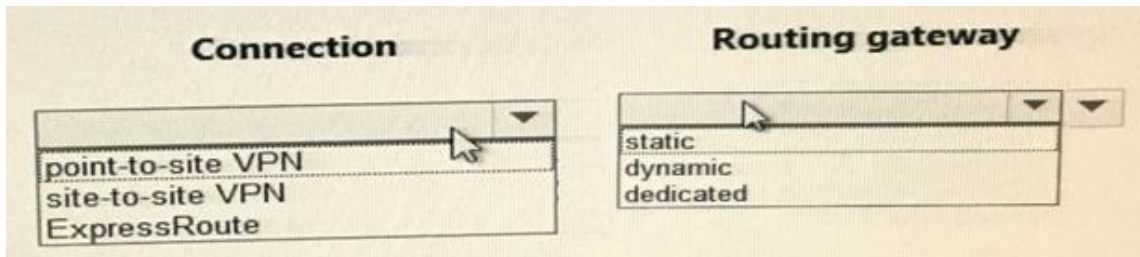
Hotspot Question

You plan to acquire a secure connection between a data center and Azure, for disaster recovery purposes. The company anticipate moving more than 5 terabytes (TB) of data during each failover instance.

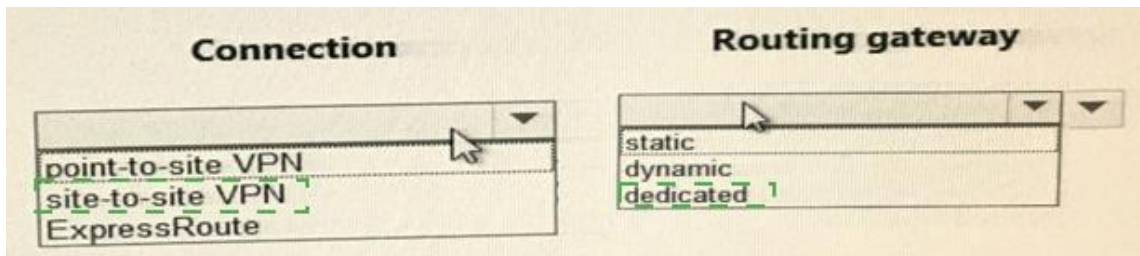
You have the following requirements:

- You must be able to monitor connection throughput and all network traffic.
- You need to recommend the correct configuration.

What should you recommend? To answer, select the appropriate connects and routing gateway from the lists in the answer area.



Answer:



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