AZ-305 Q&As

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

You plan to deploy an application that will run in a Linux-based Docker container.

You need to recommend a solution to host the application in Azure. The solution must meet the following requirements:

1.

Support a custom domain name and an associated SSL certificate.

2.

Scale-out automatically based on demand.

3.

Minimize administrative effort and costs. What should you include in the recommendation?

A. Azure App Service

B. Azure Container Instances

C. an Azure virtual machine

D. Azure Kubernetes Service (AKS)

Correct Answer: A

App Service not only adds the power of Microsoft Azure to your application, such as security, load balancing, autoscaling, and automated management. You can also take advantage of its DevOps capabilities, such as continuous deployment from Azure DevOps, GitHub, Docker Hub, and other sources, package management, staging environments, custom domain, and TLS/SSL certificates.

Key features of App Service include:

1.

Containerization and Docker - Dockerize your app and host a custom Windows or Linux container in App Service.

2.

Scale up or out manually or automatically. Host your apps anywhere in Microsoft\\'s global datacenter infrastructure, and the App Service SLA promises high availability. App Service can also host web apps natively on Linux for supported application stacks. It can also run custom Linux containers (also known as Web App for Containers).

Reference: https://docs.microsoft.com/en-us/azure/app-service/overview

QUESTION 2

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:

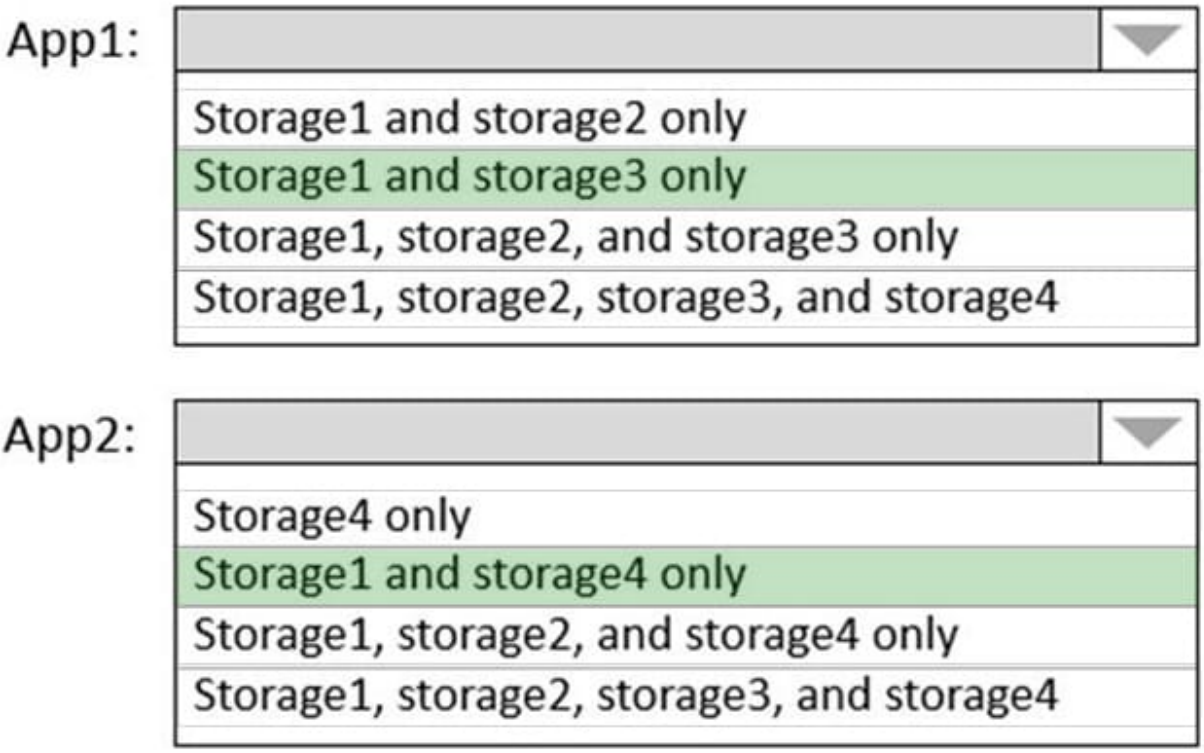
- Storage1 and storage2 only
- Storage1 and storage3 only
- Storage1, storage2, and storage3 only
- Storage1, storage2, storage3, and storage4

App2:

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

Correct Answer:

Answer Area



QUESTION 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Install and configure the Microsoft Monitoring Agent and the Dependency Agent on all VMs. Use the Wire Data solution in Azure Monitor to analyze the network traffic.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.

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

Reference: https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview

QUESTION 4

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:

1.

The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.

2.

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?

A. Azure SQL Database single databases

B. Azure SQL Database Managed Instance

C. Azure SQL Database elastic pools

D. SQL Server 2016 on Azure virtual machines

Correct Answer: B

SQL Managed Instance allows existing SQL Server customers to lift and shift their on-premises applications to the cloud with minimal application and database changes. At the same time, SQL Managed Instance preserves all PaaS capabilities (automatic patching and version updates, automated backups, high availability) that drastically reduce management overhead and TCO.

References: https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/transact-sql-tsql-differences-sql-server#clr https://docs.microsoft.com/en-gb/azure/azure-sql/database/transact-sql-tsql-differences-sql-server#transact-sql-syntax-not-supported-in-azure-sql-database

QUESTION 5

A company deploys Azure Active Directory (Azure AD) Connect to synchronize identity information from their on-premises Active Directory Domain Services (AD DS) directory to their Azure AD tenant. The identity information that is synchronized includes user accounts, credential hashes for authentication (password sync), and group memberships. The company plans to deploy several Windows and Linux virtual machines (VMs) to support their applications.

The VMs have the following requirements:

1.

Support domain join, LDAP read, LDAP bind, NTLM and Kerberos authentication, and Group Policy.

2.

Allow users to sign in to the domain using their corporate credentials and connect remotely to the VM by using Remote Desktop.

You need to support the VM deployment.

Which service should you use?

A. Active Directory Federation Services (AD FS)

B. Azure AD Privileged Identity Management

C. Azure Managed Identity

D. Azure AD Domain Services

Correct Answer: D

Azure AD Domain Services provides managed domain services such as domain join, group policy, LDAP, Kerberos/NTLM authentication that are fully compatible with Windows Server Active Directory.

Reference: https://docs.microsoft.com/en-us/azure/active-directory-domain-services/active-directory-ds-overview