



70-473^{Q&As}

Designing and Implementing Cloud Data Platform Solutions

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QUESTION 1

Scenario:

You are a network administrator for a company named Contoso, Ltd. The network is configured as shown in the exhibit.



You install the Remote Access server role on Server2.

Server2 has the following configured.

*Network address translation (NAT)

*The DHCP Server server role

The Security Policy of Contoso states that only TCP ports 80 and 443 are allowed from the internet to server2

You identify the following requirements:

*

Add 28 devices to subnet2 for a temporary project.

*

Configure Server2 to accept VPN connections from the internet.



*

Ensure that devices on Subnet2 obtain TCP/IP settings from DHCP on Server2.

End of Scenario:

You add a computer to subnet1. The computer has an IP address of 10.10.0.129

Web1 receives a request from the new computer and sends a response.

What should you do?

A.

10.10.0.129

B.

10.10.0.224

C.

131.107.0.223

D.

172.16.128.222

Correct Answer: A

QUESTION 2

Your company has five Microsoft Azure SQL databases.

You need to design a solution to ensure that database updates are deployed consistently across the five databases.

Which type of database links should you include in the solution?

A. OPENQUERY

B. Communication Link

C. a linked server

D. the Distributed Transaction Coordinator (DTC)

Correct Answer: B

Elastic database transactions for Azure SQL Database (SQL DB) allow you to run transactions that span several databases in SQL DB.

Use the following PowerShell cmdlets to manage cross-server communication relationships for elastic database transactions:

New-AzSqlServerCommunicationLink: Use this cmdlet to create a new communication relationship between two SQL



Database servers in Azure SQL Database. The relationship is symmetric which means both servers can initiate transactions

with the other server.

Get-AzSqlServerCommunicationLink: Use this cmdlet to retrieve existing communication relationships and their properties.

Remove-AzSqlServerCommunicationLink: Use this cmdlet to remove an existing communication relationship.

Incorrect Answers:

D: Elastic database transactions for Azure SQL Database (SQL DB) allow you to run transactions that span several databases in SQL DB. On premises, such a scenario usually required running Microsoft Distributed Transaction Coordinator (MSDTC). Since MSDTC is not available for Platform-as-a-Service application in Azure, the ability to coordinate distributed transactions has now been directly integrated into SQL DB.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-transactions-overview>

QUESTION 3

You have a Microsoft Azure SQL database that contains sales data of your company. Several columns in the database contain sensitive client information.

You need to prevent all the members of the sysadmin role from reading the sensitive data.

Solution: You implement Transparent Data Encryption (TDE).

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, implement the Dynamic Data Masking feature.

Dynamic Data Masking masks the sensitive data "on the fly" to protect sensitive data from non-privileged users using built-in or customized masking functions, without preventing them from retrieving the unmasked data.

References:

<https://www.sqlshack.com/using-dynamic-data-masking-in-sql-server-2016-to-protect-sensitive-data/>

QUESTION 4

You have a server named Server1 that runs Windows Server 2016. Server1 is located on the perimeter network, and only inbound TCP port 443 is allowed to connect Server1 from the Internet.

You install the Remote Access server role on Server1.

You need to configure Server1 to accept VPN connections over port 443.



Which VPN protocol should you use?

- A. PPTP
- B. L2TP
- C. SSTP
- D. IKEv2

Correct Answer: C

References:

<https://www.thomasmaurer.ch/2016/10/how-to-install-vpn-on-windows-server-2016/>

<https://www.lukasberan.com/2016/12/how-to-configure-sstp-vpn-on-windows-server/>

QUESTION 5

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 questions sets might have more than one correct solutions,

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 network contains an Active Directory forest named contoso.com. The forest contains a member server named Server1 that runs Windows Server 2016. All domain controllers run Windows Server 2012 R2.

Contoso.com has the following configuration:

```
PS C:\> (Get-ADForest).ForestMode  
Windows2008R2Forest
```

```
PS C:\> (Get-ADDomain).DomainMode  
Windows2008R2Domain
```

```
PS C:\>
```

You plan to deploy an Active Directory Federation Services (AD FS) farm on Server1 and to configure device registration.

You need to configure Active Directory to support the planned deployment.

Solution: You run adprep.exe from the Windows Server 2016 installation media.

Does this meet the goal?

- A. Yes
- B. No



Correct Answer: B

Device registration requires a forest functional level of Windows Server 2012 R2.

New installations of AD FS 2016 require the Active Directory 2016 schema (minimum version 85).

References:

[https://technet.microsoft.com/en-us/library/dd464018\(v=ws.10\).aspx](https://technet.microsoft.com/en-us/library/dd464018(v=ws.10).aspx) <https://technet.microsoft.com/en-us/windows-server-docs/identity/ad-fs/operations/configure-device-based-conditional-access-on-premises>

QUESTION 6

Your network contains an Active Directory domain named contoso.com. The domain contains two servers named Server1 and Server2 that run Windows Server 2016.

Each server has an operating system disk and four data disks. All of the disks are locally attached SATA disks.

Each disk is a basic disk, is initialized as an MBR disk, and has a single NTFS volume.

You plan to implement Storage Spaces Direct by using the data disks on Server1 and Server2.

You need to prepare the data disks for the Storage Spaces Direct implementation.

What should you do?

- A. Format the volumes on the data disks as exFAT.
- B. Initialize the data disks as GPT disks and create a ReFS volume on each disk.
- C. Convert the data disks to dynamic disks.
- D. Delete the volumes from the data disks.

Correct Answer: D

QUESTION 7

HOTSPOT

Your company's data center contains two databases named DB1 and DB2. Db1 contains 500 MB of data. DB2 contains 400 GB of data that is read-only. Both databases contain sensitive data. Each database regularly has more than 1,000

concurrent connections.

You need to migrate the databases to Microsoft Azure SQL Database. The solution must minimize costs. Which tier and service level should you choose for each database?

To answer, select the appropriate options in the answer area.



Hot Area:

Answer Area

DB1:

Standard tier and S1 service level
Standard tier and S2 service level
Premium tier and P1 service level
Premium tier and P2 service level

DB2:

Standard tier and S1 service level
Standard tier and S2 service level
Premium tier and P1 service level
Premium tier and P2 service level

Correct Answer:



Answer Area

DB1:
Standard tier and S1 service level
Standard tier and S2 service level
Premium tier and P1 service level
Premium tier and P2 service level

DB2:
Standard tier and S1 service level
Standard tier and S2 service level
Premium tier and P1 service level
Premium tier and P2 service level

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-dtu-resource-limits-single-databases#single-database-storage-sizes-and-compute-sizes>

QUESTION 8

DRAG DROP

You have a Microsoft Azure SQL database named Database1.

You need to implement the Always Encrypted feature for Database1.

In which sequence should you execute the code blocks? To answer, move all the code blocks from the list of code blocks to the answer area and arrange them in the correct order.

Select and Place:



Code blocks

```
KEY_STORE_PROVIDER_NAME= N'MSSQL_
CERTIFICATE_STORE',
KEY_PATH= N'CurrentUser/My/58780DB438796E91
AB5F0850071C75468CF910B3'
)
60

ALGORITHM = 'RSA_OAEP',
ENCRYPTED_VALUE= 0x1

CREATE COLUMN MASTER KEY [Masterkey]
WITH
(

CREATE COLUMN ENCRYPTION KEY [ColumnKey]
WITH VALUES
(
COLUMN_MASTER_KEY = [MasterKey]

)
60
```

Answer Area



Correct Answer:

Code blocks

```


```

Answer Area

```
CREATE COLUMN MASTER KEY [Masterkey]
WITH
(

KEY_STORE_PROVIDER_NAME= N'MSSQL_
CERTIFICATE_STORE',
KEY_PATH= N'CurrentUser/My/58780DB438796E91
AB5F0850071C75468CF910B3'
)
60

CREATE COLUMN ENCRYPTION KEY [ColumnKey]
WITH VALUES
(
COLUMN_MASTER_KEY = [MasterKey]

)

ALGORITHM = 'RSA_OAEP',
ENCRYPTED_VALUE= 0x1

)
60
```

Step 1 (Box 1-Box 2): Create a column master key in a key store.

Syntax:

CREATE COLUMN MASTER KEY key_name



WITH (

```
KEY_STORE_PROVIDER_NAME = \\'key_store_provider_name\\',
```

```
KEY_PATH = \\'key_path\\'
```

```
)
```

```
[;]
```

Step 2 (box 3-5): Create a column encryption key

The following example creates a column encryption key called MyCEK.

```
CREATE COLUMN ENCRYPTION KEY MyCEK
```

```
WITH VALUES
```

```
(
```

```
COLUMN_MASTER_KEY = MyCMK,
```

```
ALGORITHM = \\'RSA_OAEP\\',
```

```
ENCRYPTED_VALUE = xx
```

```
);
```

```
GO
```

References:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-column-master-key-transact-sql?view=sql-server-2017>

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-column-encryption-key-transact-sql?view=sql-server-2017>

QUESTION 9

You create a Storage Spaces Direct hyper-converged failover cluster. The cluster contains three nodes and a 1-TB Storage Spaces Direct volume.

The cluster will store virtual machines.

You plan to extend the volume by adding an additional 3 TB.

What is the minimum amount of extra disk capacity required to accommodate extending the volume?

- A. 3 TB on the coordinator node
- B. 3 TB per node
- C. 4 TB per node
- D. 4 TB on the coordinator node



Correct Answer: A

QUESTION 10

HOTSPOT

Your network contains an Active Directory forest named contoso.com.

Your company has a custom application named ERP1. ERP1 uses an Active Directory Lightweight Directory Services (AD LDS) server named Server1 to authenticate users.

You have a member server named Server2 that runs Windows Server 2016. You install the Active Directory Federation Services (AD FS) server role on Server2 and create an AD FS farm.

You need to configure AD FS to authenticate users from the AD LDS server.

Which cmdlets should you run? To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area

First cmdlet to run:

	▼
Add-AdfsRelyingPartyTrust	
New-AdfsLdapServerConnection	
Set-AdfsEndpoint	

Second cmdlet to run:

	▼
Add-AdfsLocalClaimsProviderTrust	
Enable-AdfsRelyingPartyTrust	
Set-AdfsEndpoint	

Correct Answer:



Answer Area

First cmdlet to run:

▼
Add-AdfsRelyingPartyTrust
New-AdfsLdapServerConnection
Set-AdfsEndpoint

Second cmdlet to run:

▼
Add-AdfsLocalClaimsProviderTrust
Enable-AdfsRelyingPartyTrust
Set-AdfsEndpoint

To configure your AD FS farm to authenticate users from an LDAP directory, you can complete the following steps:

Step 1: New-AdfsLdapServerConnection

First, configure a connection to your LDAP directory using the New-AdfsLdapServerConnection cmdlet:

```
$DirectoryCred = Get-Credential
```

```
$vendorDirectory = New-AdfsLdapServerConnection -HostName dirserver -Port50000 -SslMode None  
-AuthenticationMethod Basic -Credential $DirectoryCred
```

Step 2 (optional):

Next, you can perform the optional step of mapping LDAP attributes to the existing AD FS claims using the New-AdfsLdapAttributeToClaimMapping cmdlet.

Step 3: Add-AdfsLocalClaimsProviderTrust

Finally, you must register the LDAP store with AD FS as a local claims provider trust using the Add-AdfsLocalClaimsProviderTrust cmdlet:

```
Add-AdfsLocalClaimsProviderTrust -Name "Vendors" -Identifier "urn:vendors" -Type L
```

References: [https://technet.microsoft.com/en-us/library/dn823754\(v=ws.11\).aspx](https://technet.microsoft.com/en-us/library/dn823754(v=ws.11).aspx)

QUESTION 11

You have an application named App1 that connects to a Microsoft Azure SQL database named AppDB1. App1 uses columnstore indexes as part of the database schema.

You plan to deploy another Azure SQL database named AppDBDev that will be used as the development environment for App1.



You create a copy of AppDB1 for AppDBDev.

You need to identify which service tier must be used to store AppDBDev.

The solution must minimize the cost to store AppDBDev.

Which service tier should you identify?

- A. Basic
- B. Standard
- C. Premium
- D. Premium RS

Correct Answer: B

QUESTION 12

Your company has a Microsoft Azure SQL database that is hosted in the West US region and uses the S1 performance level.

You need to ensure that the database is available as quickly as possible if the database is deleted accidentally. The solution must minimize data loss.

What should you implement for the database?

- A. Active Geo-Replication
- B. database mirroring
- C. BACPAC exports
- D. log shipping

Correct Answer: A

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