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Actual exam question from Microsoft's DP-300

Question #: 1

Topic #: 1

[All DP-300 Questions]

You have 20 Azure SQL databases provisioned by using the vCore purchasing model.

You plan to create an Azure SQL Database elastic pool and add the 20 databases.

Which three metrics should you use to size the elastic pool to meet the demands of your workload? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. total size of all the databases
- B. geo-replication support
- C. number of concurrently peaking databases * peak CPU utilization per database
- D. maximum number of concurrent sessions for all the databases
- E. total number of databases * average CPU utilization per database

Show Suggested Answer

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Actual exam question from Microsoft's DP-300

Question #: 2

Topic #: 1

[All DP-300 Questions]

DRAG DROP -

You have SQL Server 2019 on an Azure virtual machine that contains an SSISDB database.

A recent failure causes the master database to be lost.

You discover that all Microsoft SQL Server integration Services (SSIS) packages fail to run on the virtual machine.

Which four actions should you perform in sequence to resolve the issue? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct.

Select and Place:

Actions

Answer Area

Add a certificate to an Azure key vault

Enable Transparent Data Encryption (TDE)

Encrypt a copy of the master key by using the service master key

Turn on the TRUSTWORTHY property and the CLR property

Attach the SSISDB database

Open the master key for the SSISDB database









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Actual exam question from Microsoft's DP-300

Question #: 3

Topic #: 1

[All DP-300 Questions]

You have an Azure SQL database that contains a table named factSales. FactSales contains the columns shown in the following table.

Name	Data type
SalesID	Int
Product	Int
Total Number	Numeric(8,4)
Tax Number	Numeric(8,4)
SalesRep	Varchar(30)

FactSales has 6 billion rows and is loaded nightly by using a batch process. You must provide the greatest reduction in space for the database and maximize performance.

Which type of compression provides the greatest space reduction for the database?

- A. page compression
- B. row compression
- C. columnstore compression
- D. columnstore archival compression

FORUM

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Actual exam question from Microsoft's DP-300

Question #: 4

Topic #: 1

[All DP-300 Questions]

You have a Microsoft SQL Server 2019 database named DB1 that uses the following database-level and instance-level features.

- Clustered columnstore indexes
- Automatic tuning
- □ Change tracking
- □ PolyBase

You plan to migrate DB1 to an Azure SQL database.

What feature should be removed or replaced before DB1 can be migrated?

- A. Clustered columnstore indexes
- B. PolyBase
- C. Change tracking
- D. Automatic tuning

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Actual exam question from Microsoft's DP-300

Question #: 6

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You have an on-premises Microsoft SQL Server 2016 server named Server1 that contains a database named DB1.

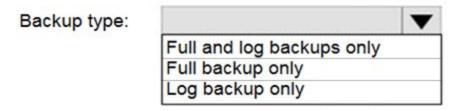
You need to perform an online migration of DB1 to an Azure SQL Database managed instance by using Azure Database Migration Service.

How should you configure the backup of DB1? To answer, select the appropriate options in the answer area.

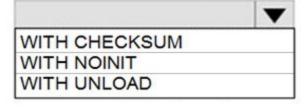
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area



Backup option:



Actual exam question from Microsoft's DP-300

Question #: 7

Topic #: 1

[All DP-300 Questions]

DRAG DROP -

You have a resource group named App1Dev that contains an Azure SQL Database server named DevServer1. DevServer1 contains an Azure SQL database named DB1. The schema and permissions for DB1 are saved in a Microsoft SQL Server Data Tools (SSDT) database project.

You need to populate a new resource group named App1Test with the DB1 database and an Azure SQL Server named TestServer1. The resources in App1Test must have the same configurations as the resources in App1Dev.

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

Select and Place:

Actions

Answer Area

Change the Active Directory Admin on TestServer1

Change the server name and related variables in the templates

From the database project, deploy the database schema and permissions



Add IP addresses to the firewall



From the Azure portal, export the Azure Resource Manager templates

From the Azure portal, deploy the templates.





Actual exam question from Microsoft's DP-300

Question #: 8

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You have an Azure Synapse Analytics dedicated SQL pool named Pool1 and an Azure Data Lake Storage Gen2 account named Account1.

You plan to access the files in Account1 by using an external table.

You need to create a data source in Pool1 that you can reference when you create the external table.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

CREATE EXTERNAL DATA SOURCE source1

WITH

```
PUSHDOWN = ON
TYPE = BLOB_STORAGE
TYPE = HADOOP
```

Actual exam question from Microsoft's DP-300

Question #: 9

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You plan to develop a dataset named Purchases by using Azure Databricks. Purchases will contain the following columns:

- □ ProductID
- □ ItemPrice
- □ LineTotal
- □ Quantity
- StoreID
- → Minute
- Month
- -> Hour
- Year
- □ Day

You need to store the data to support hourly incremental load pipelines that will vary for each StoreID. The solution must minimize storage costs.

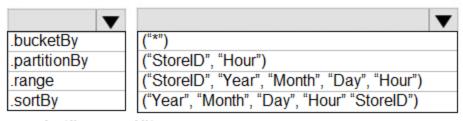
How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

df.write



.mode("append")



Actual exam question from Microsoft's DP-300

Question #: 11

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You are building a database in an Azure Synapse Analytics serverless SQL pool.

You have data stored in Parquet files in an Azure Data Lake Storage Gen2 container.

Records are structured as shown in the following sample.

```
"id":123,
    "address_housenumber": "19c",
    "address_line1": "Memory Lane",
    "applicant1_name": "Jane",
    "applicant2_name": "Dev"
```

The records contain two applicants at most.

You need to build a table that includes only the address fields.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
applications
CREATE EXTERNAL TABLE
CREATE TABLE
CREATE VIEW
WITH (
    LOCATION = 'applications/',
    DATA_SOURCE = applications ds,
     FILE_FORMAT = applications_file_format
)
SELECT id, [address_housenumber] as addressnumber, [address_line1]
as addressline1
FROM
                (BULK 'https://contosol.dfs.core.windows.net/
                applications/year=*/*.parquet',
CROSS APPLY
OPENJSON
OPENROWSET
     FORMAT = 'PARQUET') AS [r]
 GO
```

Q

[All DP-300 Questions]

Topic #: 1

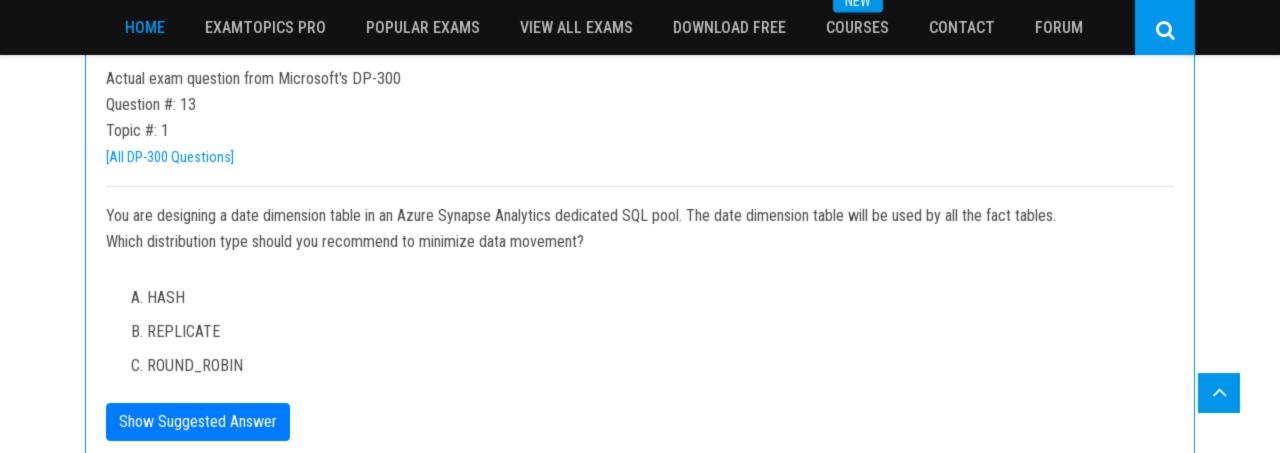
You have an Azure Synapse Analytics Apache Spark pool named Pool1.

You plan to load JSON files from an Azure Data Lake Storage Gen2 container into the tables in Pool1. The structure and data types vary by file.

You need to load the files into the tables. The solution must maintain the source data types.

What should you do?

- A. Load the data by using PySpark.
- B. Load the data by using the OPENROWSET Transact-SQL command in an Azure Synapse Analytics serverless SQL pool.
- C. Use a Get Metadata activity in Azure Data Factory.
- D. Use a Conditional Split transformation in an Azure Synapse data flow.



Actual exam question from Microsoft's DP-300

Question #: 14

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

From a website analytics system, you receive data extracts about user interactions such as downloads, link clicks, form submissions, and video plays.

The data contains the following columns:

Name	Sample value	
Date	15 Jan 2021	
EventCategory	Videos	
EventAction	Play	
EventLabel	Contoso Promotional	
ChannelGrouping	Social	
TotalEvents	150	
UniqueEvents	120	
SessionsWithEvents	99	

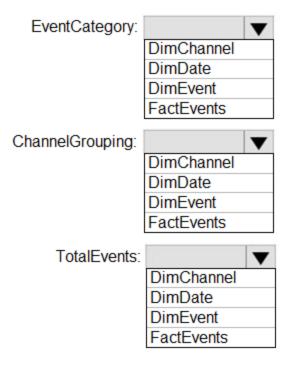
You need to design a star schema to support analytical queries of the data. The star schema will contain four tables including a date dimension.

To which table should you add each column? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area



Actual exam question from Microsoft's DP-300

Question #: 15

Topic #: 1

[All DP-300 Questions]

DRAG DROP -

You plan to create a table in an Azure Synapse Analytics dedicated SQL pool.

Data in the table will be retained for five years. Once a year, data that is older than five years will be deleted.

You need to ensure that the data is distributed evenly across partitions. The solutions must minimize the amount of time required to delete old data.

How should you complete the Transact-SQL statement? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all.

You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Values

Answer Area

```
CREATE

HASH

ROUND_ROBIN

REPLICATE

OrderDateKey

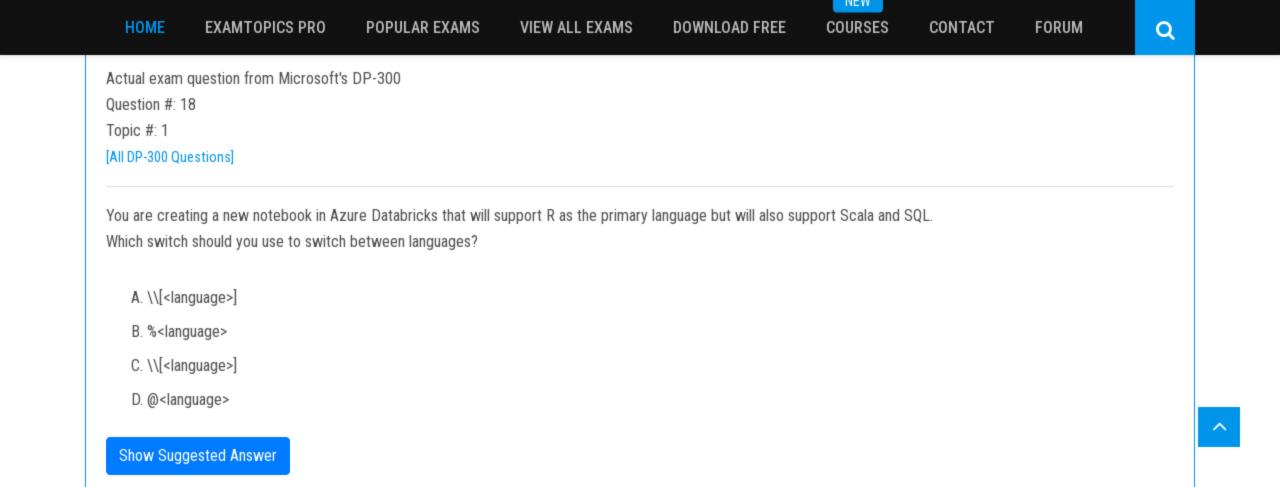
SalesOrderNumber

(

, D1

, PA
```

```
CREATE TABLE [dbo].[FactSales]
   [ProductKey]
                int NOT NULL
 , [OrderDateKey] int NOT NULL
 , [CustomerKey] int NOT NULL
 , [SalesOrderNumber] nvarchar ( 20 ) NOT NULL
 , [OrderQuantity]
                      smallint NOT NULL
 , [UnitPrice]
                      money
                                     NOT NULL
       CLUSTERED
                      COLUMNSTORE
                                     INDEX
  DISTRIBUTION =
                                    ([ProductKey])
  PARTITION ( [
                                  ] RANGE RIGHT FOR VALUES
              (20170101, 20180101, 20190101, 20200101, 20210101)
         )
```



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Actual exam question from Microsoft's DP-300

Question #: 19

Topic #: 1

[All DP-300 Questions]

DRAG DROP -

You are creating a managed data warehouse solution on Microsoft Azure.

You must use PolyBase to retrieve data from Azure Blob storage that resides in parquet format and load the data into a large table called FactSalesOrderDetails.

You need to configure Azure Synapse Analytics to receive the data.

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

Select and Place:

Actions

Answer Area

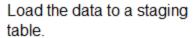
Create an external data source for Azure Blob storage.

Create a master key on database.

Enable Transparent Data Encryption.



Create the external table FactSalesOrderDetails.



Create an external file format to map the parquet files.





Actual exam question from Microsoft's DP-300

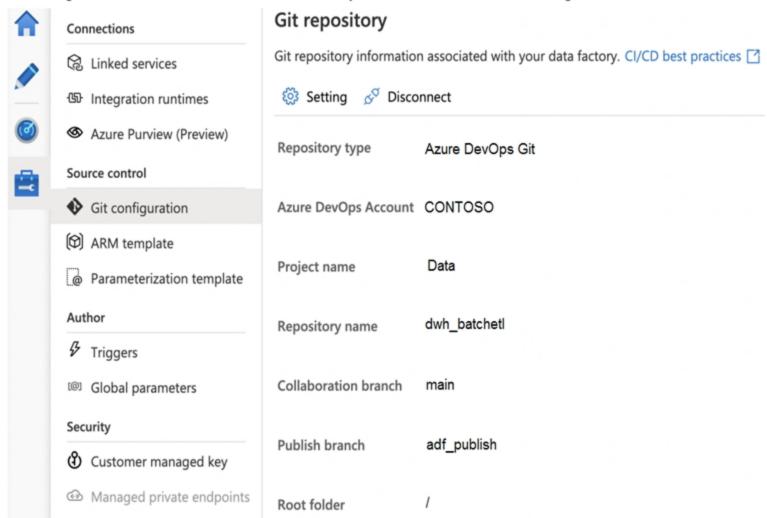
Question #: 20

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You configure version control for an Azure Data Factory instance as shown in the following exhibit.



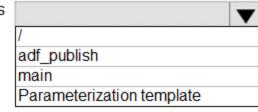
Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Azure Resource Manager (ARM) templates for the pipeline assets as stored in



A Data Factory Azure Resource Manager (ARM) template named contososales can be found in



Actual exam question from Microsoft's DP-300

Question #: 22

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You are performing exploratory analysis of bus fare data in an Azure Data Lake Storage Gen2 account by using an Azure Synapse Analytics serverless SQL pool.

You execute the Transact-SQL query shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

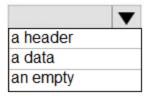
Hot Area:

Answer Area

The query results include only **[answer choice]** in the csv/busfare folder.

CSV files in the tripdata_2020 subfolder files that have files names beginning with "tripdata_2020" CSV files that have file names containing "tripdata_202" CSV files that have file named beginning with "tripdata_2020"

The query assumes that the first row in a CSV file is **[answer choice]** row.



Actual exam question from Microsoft's DP-300

Question #: 23

Topic #: 1

[All DP-300 Questions]

You have a SQL pool in Azure Synapse that contains a table named dbo.Customers. The table contains a column name Email.

You need to prevent nonadministrative users from seeing the full email addresses in the Email column. The users must see values in a format of aXXX@XXXX.com instead.

FORUM

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What should you do?

- A. From the Azure portal, set a mask on the Email column.
- B. From the Azure portal, set a sensitivity classification of Confidential for the Email column.
- C. From Microsoft SQL Server Management Studio, set an email mask on the Email column.
- D. From Microsoft SQL Server Management Studio, grant the SELECT permission to the users for all the columns in the dbo.Customers table except Email.

FORUM

Question #: 25

Topic #: 1

[All DP-300 Questions]

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.

You have an Azure Synapse Analytics dedicated SQL pool that contains a table named Table 1.

You have files that are ingested and loaded into an Azure Data Lake Storage Gen2 container named container1.

You plan to insert data from the files into Table1 and transform the data. Each row of data in the files will produce one row in the serving layer of Table1.

You need to ensure that when the source data files are loaded to container1, the DateTime is stored as an additional column in Table1.

Solution: In an Azure Synapse Analytics pipeline, you use a Get Metadata activity that retrieves the DateTime of the files.

Does this meet the goal?

A. Yes

B. No

COURSES

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Actual exam question from Microsoft's DP-300

Question #: 26

Topic #: 1

[All DP-300 Questions]

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.

You have an Azure Synapse Analytics dedicated SQL pool that contains a table named Table 1.

You have files that are ingested and loaded into an Azure Data Lake Storage Gen2 container named container1.

You plan to insert data from the files into Table1 and transform the data. Each row of data in the files will produce one row in the serving layer of Table1.

You need to ensure that when the source data files are loaded to container1, the DateTime is stored as an additional column in Table1.

Solution: You use an Azure Synapse Analytics serverless SQL pool to create an external table that has an additional DateTime column.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

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Actual exam question from Microsoft's DP-300

Question #: 27

Topic #: 1

[All DP-300 Questions]

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.

You have an Azure Synapse Analytics dedicated SQL pool that contains a table named Table 1.

You have files that are ingested and loaded into an Azure Data Lake Storage Gen2 container named container1.

You plan to insert data from the files into Table1 and transform the data. Each row of data in the files will produce one row in the serving layer of Table1.

You need to ensure that when the source data files are loaded to container1, the DateTime is stored as an additional column in Table1.

Solution: You use a dedicated SQL pool to create an external table that has an additional DateTime column.

Does this meet the goal?

A. Yes

B. No

IACAA

Actual exam question from Microsoft's DP-300

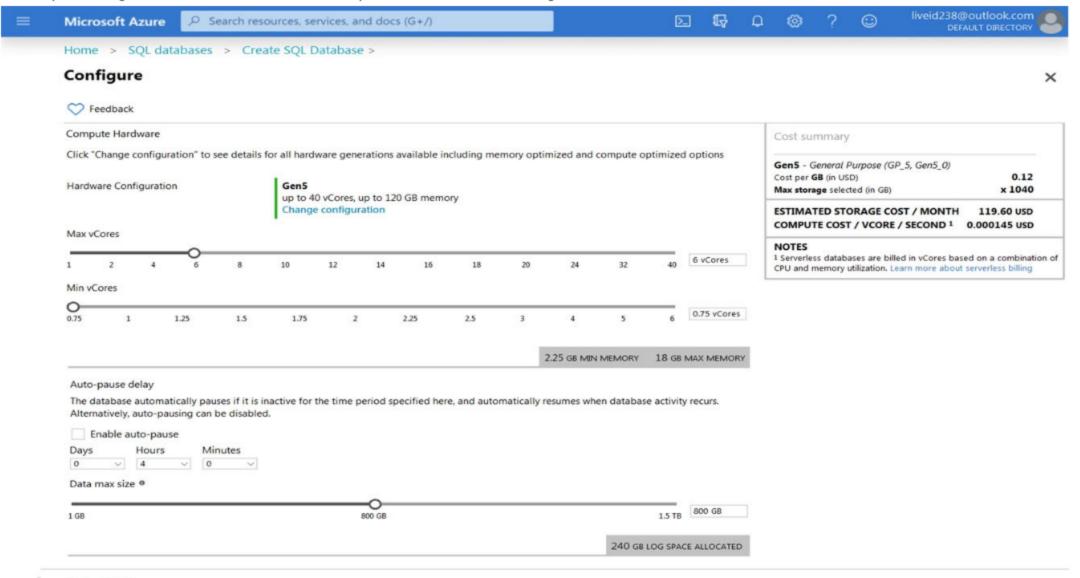
Question #: 28

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You are provisioning an Azure SQL database in the Azure portal as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

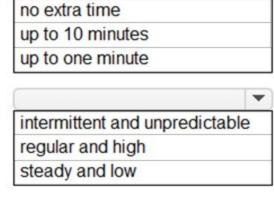
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

After four hours of inactivity, the database requires [answer choice] to resume operations for new activities.

The database configuration reduces the cost of **[answer choice]** usage patterns.



Actual exam question from Microsoft's DP-300

Question #: 29

Topic #: 1

[All DP-300 Questions]

You plan to deploy an app that includes an Azure SQL database and an Azure web app. The app has the following requirements:

- ⇒ The web app must be hosted on an Azure virtual network.
- The Azure SQL database must be assigned a private IP address.
- The Azure SQL database must allow connections only from a specific virtual network.

You need to recommend a solution that meets the requirements.

What should you include in the recommendation?

- A. Azure Private Link
- B. a network security group (NSG)
- C. a database-level firewall
- D. a server-level firewall

Show Suggested Answer

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FORUM

FORUM

Q

Actual exam question from Microsoft's DP-300

Question #: 30

Topic #: 1

[All DP-300 Questions]

You are planning a solution that will use Azure SQL Database. Usage of the solution will peak from October 1 to January 1 each year.

During peak usage, the database will require the following:

- ⇒ 24 cores
- ⇒ 500 GB of storage
- □ 124 GB of memory
- → More than 50,000 IOPS

During periods of off-peak usage, the service tier of Azure SQL Database will be set to Standard.

Which service tier should you use during peak usage?

- A. Business Critical
- B. Premium
- C. Hyperscale

Actual exam question from Microsoft's DP-300

Question #: 31

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You have an Azure subscription.

You need to deploy an Azure SQL resource that will support cross database queries by using an Azure Resource Manager (ARM) template.

How should you complete the ARM template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
"resources": [
      "type":
                  Microsoft.Sql/servers
                  Microsoft.Sql/servers/databases
                  Microsoft.Sql/managedInstances
       "name": "[parameters('targetName')]",
      "location": "[parameters('location')]",
      "sku": {
       "name": "[parameters('skuName')]"
      "dependsOn": [
         '[parameters('targetName')]",
         "[parameters('virtualNetworkName')]"
         "[variables('networkSecurityGroupName')]",
      "properties": {
        "administratorLogin": "[parameters('administratorLogin')]",
        "administratorLoginPassword": "[parameters('administratorLoginPassword')]",
        "subnetId": "[resourceId('Microsoft.Network/virtualNetworks/subnets', parameters('virtualNetworkName'),
        parameters('virtualNetworkName'), parameters('subnetName'))]",
       "storageSizeInGB": "[parameters('storageSizeInGB')]", "vCores": "[parameters('vCores')]",
        "licenseType": "[parameters('licenseType')]"
. . .
```

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Actual exam question from Microsoft's DP-300

Question #: 32

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You have the following Azure Resource Manager template.

```
"variable": {
  "serverName": "azsqldbserver0001"
"resources": [
  {
    "name": "[variables('serverName')]",
    "type": "Microsoft.Sql/servers",
    "apiVersion": "2019-06-01-preview",
    "location": "[parameters('location')]",
    "properties": {
      "administratorLogin": "[parameters('administratorLogin')]",
      "administratorLoginPassword": "[parameters('administratorLoginPassword')]",
      "version": "12.0"
    },
    "resources": [
      {
        "name": "[concat(variables('serverName'),'/',parameters('databaseName'))]",
        "type": "Microsoft.Sql/servers/databases",
        "apiVersion": "2020-08-01-preview",
        "location": "[parameters('location')]",
        "kind": "v12.0"
        "sku": {
          "name": "Standard",
          "tier": "Standard",
          "capacity": 10
        },
        "dependsOn": [
         "[concat('Microsoft.Sql/servers/', variables('serverName'))]"
        ],
        "properties": {
        },
        "resources": [
        ]
    ]
],
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
The template deploys a serverless Azure SQL database.	0	0
The template deploys a database to an Azure SQL Database managed instance.	0	0
The pricing tier of the database deployment is based on DTUs.	0	0

Actual exam question from Microsoft's DP-300

Question #: 33

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You have an on-premises Microsoft SQL Server 2019 instance that hosts a database named DB1.

You plan to perform an online migration of DB1 to an Azure SQL managed instance by using the Azure Database Migration Service.

You need to create a backup of DB1 that is accessible to the Azure Database Migration Service.

What should you run for the backup and where should you store the backup? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Run:

A full backup and a log backup appended to the same file by using the WITH CHECKSUM option

A full backup and a log backup to separate files by using the WITH CHECKSUM option

A full backup and a log backup to separate files by using the WITH FILE_SNAPSHOT option

Store the backup in:

A Recovery Services vault

An Azure Blob storage account

An SMB file share

Actual exam question from Microsoft's DP-300

Question #: 34

Topic #: 1

[All DP-300 Questions]

HOTSPOT -

You have an Azure subscription.

You plan to deploy an Azure SQL database by using an Azure Resource Manager template.

How should you complete the template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
"resources": [
   "type":
            "Microsoft.Sql/servers"
            "Microsoft.SqlVirtualMachines/sqlVirtualMachines"
            "Microsoft.Synapse/workspaces/sqldatabases"
   "apiVersion": "2020-02-02-preview",
   "name": "[parameters('name1')]",
   "location": "[parameters('location')]",
   "resources": [
       "type": "databases",
       "apiVersion": "2020-02-02-preview",
       "dependsOn":[
       "properties":[
       "tags":[
       "[resourceId('Microsoft.Sql/servers', concat(parameters('name1')))]"
```

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COURSES

Actual exam question from Microsoft's DP-300

Question #: 35

Topic #: 1

[All DP-300 Questions]

You have an on-premises Microsoft SQL Server 2019 server that hosts a database named DB1.

You have an Azure subscription that contains an Azure SQL managed instance named SQLMI1 and a virtual network named VNET1. SQLMI1 resides on VNET1.

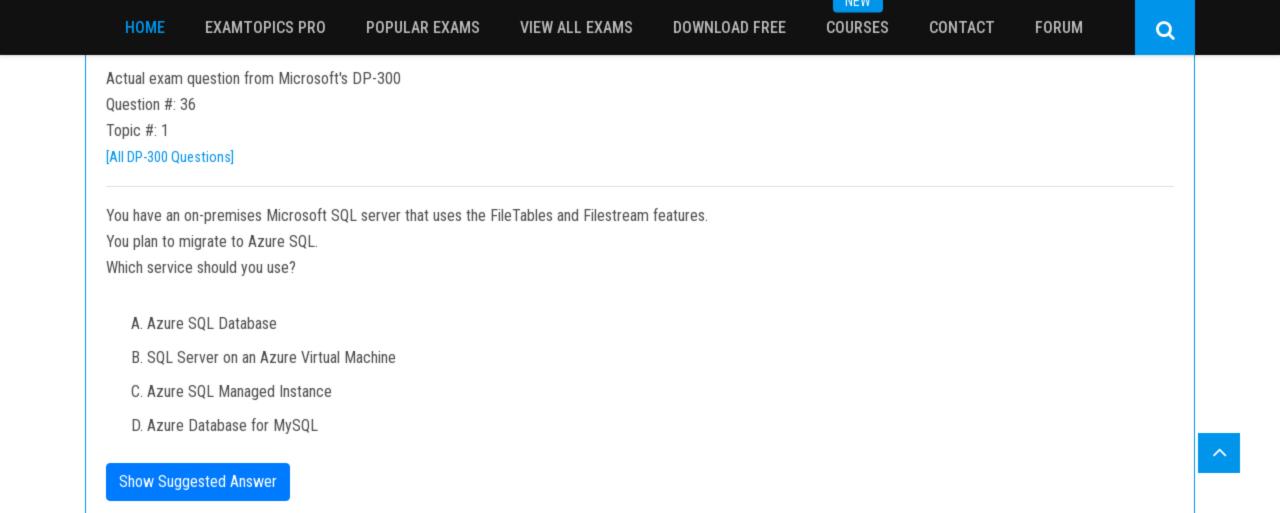
The on-premises network connects to VNET1 by using an ExpressRoute connection.

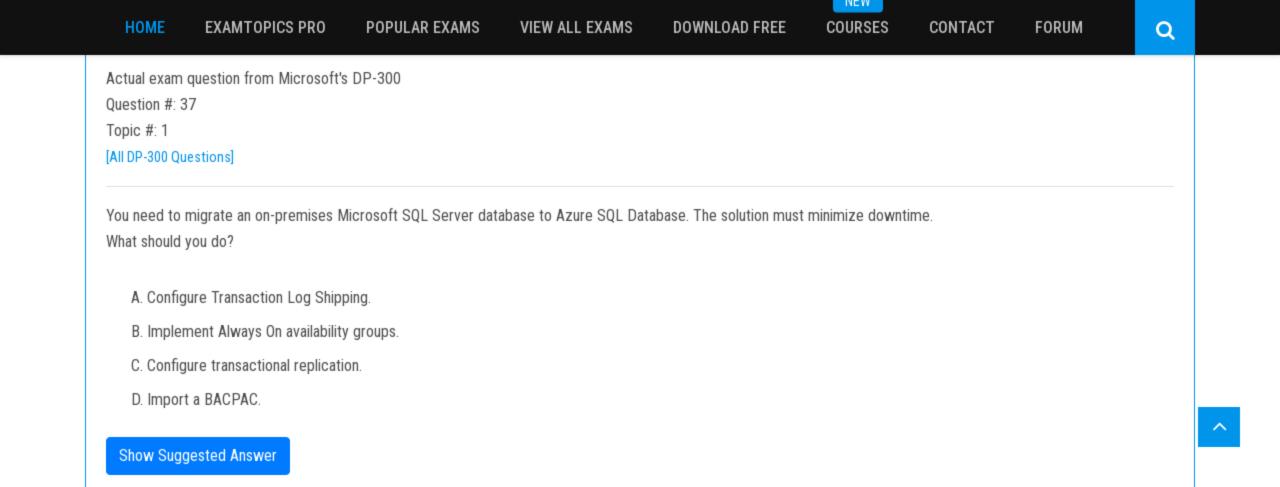
You plan to migrate DB1 to SQLMI1 by using Azure Database Migration Service.

You need to configure VNET1 to support the migration.

What should you do?

- A. Configure service endpoints.
- B. Configure virtual network peering.
- C. Deploy an Azure firewall.
- D. Configure network security groups (NSGs).





NEW

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Q

Actual exam question from Microsoft's DP-300

Question #: 40

Topic #: 1

[All DP-300 Questions]

You have an Azure subscription that contains an Azure SQL database. The database contains a table named tablet that uses partitioned columnstores.

You need to configure table1 to meet the following requirements:

- · Each partition must be compressed.
- · The compression ratio must be maximized.
- · You must be able to index the compressed data.

What should you use?

- A. page compression
- B. columnstore compression
- C. GZIP compression
- D. columnstore archival compression

Question #: 41

Topic #: 1

[All DP-300 Questions]

You have an Azure subscription linked to an Azure Active Directory (Azure AD) tenant. The subscription contains 10 virtual machines that run Windows Server 2019 and host Microsoft SQL Server 2019 instances.

You need to ensure that you can manage the SQL Server instances by using a single user account.

What should you do first?

- A. Enable a user-assigned managed identity on each virtual machine.
- B. Deploy an Azure Active Directory Domain Services (Azure AD DS) domain and join the virtual machines to the domain.
- C. Enable a system-assigned managed identity on each virtual machine.
- D. Join the virtual machines to the Azure AD tenant.

Show Suggested Answer

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FORUM

Question #: 42

Topic #: 1

[All DP-300 Questions]

DRAG DROP

-

You have an Azure subscription.

You plan to deploy a new Azure virtual machine that will host a Microsoft SQL Server instance.

You need to configure the disks on the virtual machine. The solution must meet the following requirements:

- · Minimize latency for transaction logs.
- · Minimize the impact on IO throughput of the virtual machine.

Which type of disk should you use for each workload? To answer, drag the appropriate disk types to the correct workloads. Each disk type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

isk Types	Answer Area
Local	
Premium SSD	
Standard HDD	TempDB:
Standard SSD	Transaction logs:
Ultra Disk	

Question #: 43

Topic #: 1

[All DP-300 Questions]

You have an Azure SQL Database elastic pool that contains 10 databases.

You receive the following alert.

Msg 1132, Level 16, state 1, Line 1

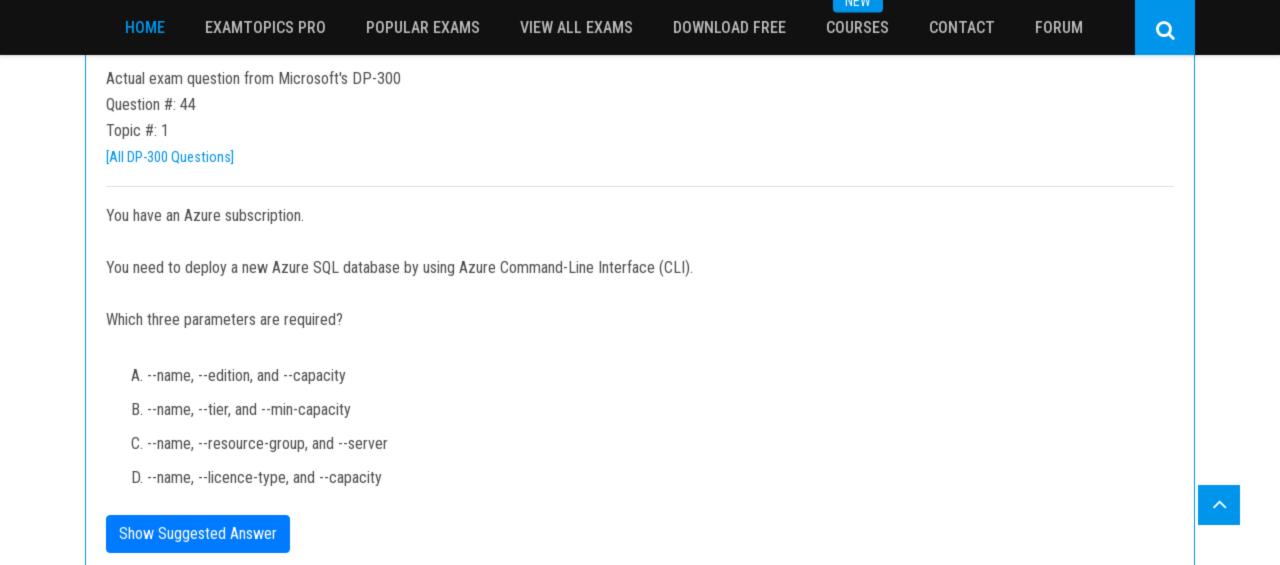
The elastic pool has reached its storage limit. The storage used for the elastic pool cannot exceed (76800) MBs.

You need to resolve the alert. The solution must minimize administrative effort.

Which three actions can you perform? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Increase the maximum storage of the elastic pool.
- B. Delete data from a database.
- C. Remove a database from the pool.
- D. Enable data compression.
- E. Shrink individual databases.



Actual exam question from Microsoft's DP-300

Question #: 45

Topic #: 1

[All DP-300 Questions]

HOTSPOT

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You have an Azure subscription.

You plan to migrate 10 on-premises Microsoft SQL Server instances to Azure.

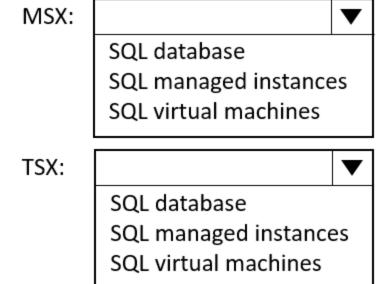
You need to ensure that the migrated environment can be managed by using multiserver administration and supports master/target (MSX/TSX) jobs.

The solution must minimize administrative effort.

Which SQL deployment options should you select as the master server (MSX) and the target server (TSX)? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Q

Actual exam question from Microsoft's DP-300

Question #: 46

Topic #: 1

[All DP-300 Questions]

You have two on-premises Microsoft SQL Server 2019 instances named SQL1 and SQL2.

You need to migrate the databases hosted on SQL1 to Azure. The solution must meet the following requirements:

- The service that hosts the migrated databases must be able to communicate with SQL2 by using linked server connections.
- · Administrative effort must be minimized.

What should you use to host the databases?

- A. a single Azure SQL database
- B. SQL Server on Azure Virtual Machines
- C. Azure SQL Managed Instance
- D. an Azure SQL Database elastic pool

Question #: 47

Topic #: 1

[All DP-300 Questions]

HOTSPOT

-

You have an on-premises Microsoft SQL Server 2016 instance that hosts a database named db1. You have an Azure subscription that contains an Azure SQL managed instance named MI1.

You plan to perform an online migration of db1 to MI1 by using Azure Database Migration Service.

You need to create the backups for the migration. The solution must minimize the number of backup files created.

Which type of backups should you create, and how should you store the backups? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Backup type:



Full only
Full and differential
Full and transaction log
Transaction log only

To store the backups:



Append all the backups to a single file. Append each backup to a separate file. Write each backup to a separate file.

Question #: 48

Topic #: 1

[All DP-300 Questions]

You have a SQL Server on Azure Virtual Machines instance named SQLVM1 that was deployed by using an Azure Marketplace SQL Server 2019 Enterprise image.

You need to change the Microsoft SQL Server instance on SQLVM1 to the Standard edition. The solution must ensure licensing compliance.

What should you do first?

- A. From the SQL Server Installation Center on SQLVM1, run the Edition Upgrade wizard.
- B. From SQLVM1, uninstall the SQL Server instance.
- C. From the SQL Server Installation Center on SQLVM1, run the Repair wizard.
- D. From the Azure portal, reconfigure SQLVM1.

Show Suggested Answer

 \cap

Question #: 49

Topic #: 1

[All DP-300 Questions]

Your on-premises network contains a Microsoft SQL Server 2016 server that hosts a database named db1.

You have an Azure subscription.

You plan to migrate db1 to an Azure SQL managed instance.

You need to create the SQL managed instance. The solution must minimize the disk latency of the instance.

Which service tier should you use?

- A. Business Critical
- B. Hyperscale
- C. General Purpose
- D. Premium

Actual exam question from Microsoft's DP-300

Question #: 51

Topic #: 1

[All DP-300 Questions]

H0TSP0T

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You have an Azure subscription.

You need to deploy an Azure SQL managed instance that meets the following requirements:

- · Optimize latency.
- · Maximize the memory-to-vCore ratio.

Which service tier and hardware generation should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Service tier:

Business Critical General Purpose

Hyperscale

Hardware generation:

Premium-series

Standard-series (Gen 5)

Premium-series - memory optimized

IN E VV

Actual exam question from Microsoft's DP-300

Question #: 52

Topic #: 1

[All DP-300 Questions]

You have a Microsoft SQL Server 2017 server.

You need to migrate the server to Azure. The solution must meet the following requirements:

- · Ensure that the latest version of SQL Server is used.
- · Support the SQL Server Agent service.
- · Minimize administrative effort.

What should you use?

- A. an Azure SQL Database elastic pool
- B. Azure SQL Database
- C. SQL Server on Azure Virtual Machines
- D. Azure SQL Managed Instance

Actual exam question from Microsoft's DP-300

Question #: 53

Topic #: 1

[All DP-300 Questions]

HOTSPOT

.

You have a Microsoft SQL Server 2017 server that hosts five databases.

You plan to migrate the databases to Azure.

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

- · Automatically scales compute based on the workload demand
- · Provides per-second billing

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

NOTE: Each correct selection is worth one point.

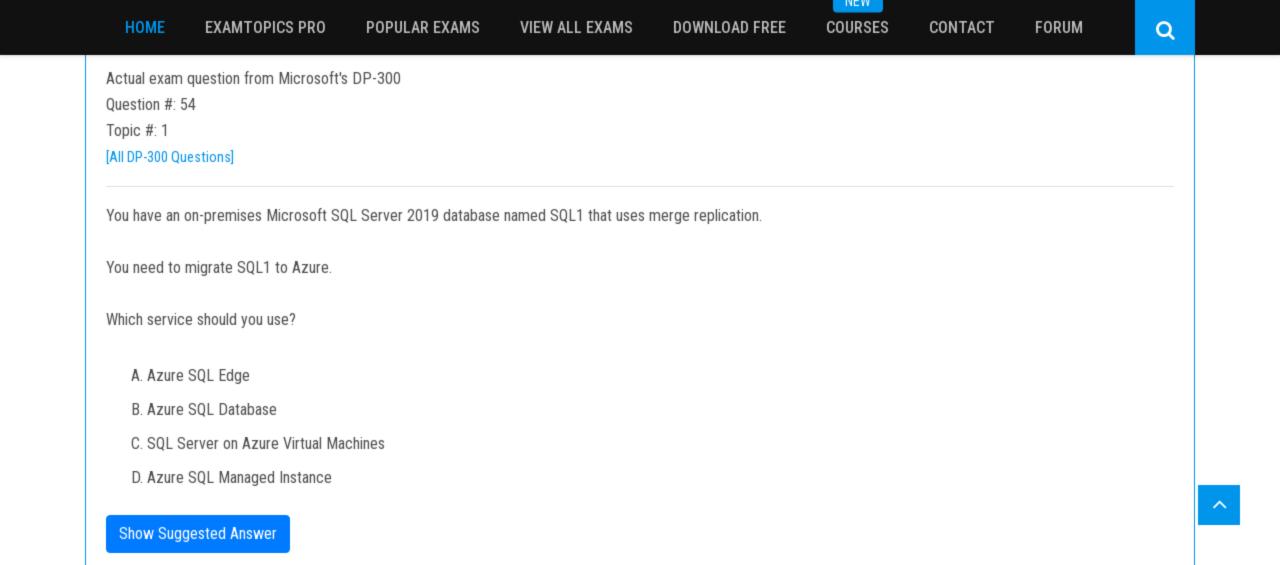
Answer Area

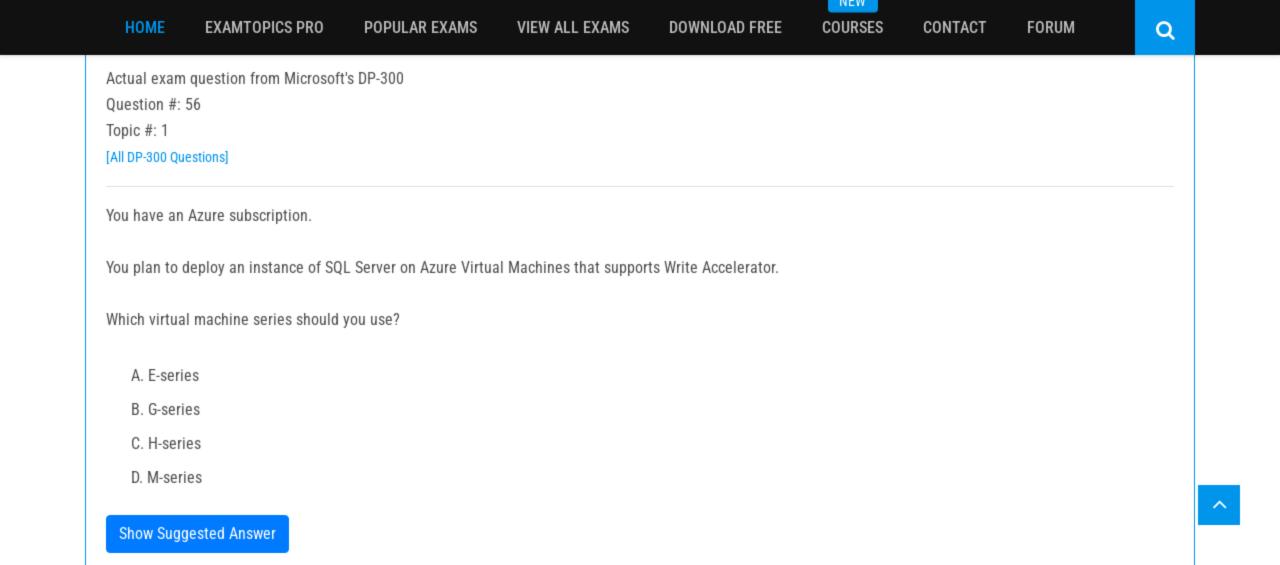
Azure service:

A single Azure SQL database in the provisioned compute tier A single Azure SQL database in the serverless computer tier An Azure SQL Database elastic pool Azure SQL Managed Instance

Service tier:

Basic General Purpose Standard





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Actual exam question from Microsoft's DP-300

Question #: 58

Topic #: 1

[All DP-300 Questions]

HOTSPOT

-

You have two on-premises servers that run Windows Server 2019 and host a Microsoft SQL server 2017 Always On availability group named AG1. AG1 contains a single database named DB1.

You have an Azure subscription. The subscription contains a virtual machine named VM1 that runs Linux.

You need to migrate DB1 to a SQL Server 2019 instance on VM1. The solution must minimize the downtime of DB1 during the migration.

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

NOTE: Each correct selection is worth one-point.

Answer Area

To prepare for the migration:

Add a secondary replica to AG1.

Create a SQL Server 2019 Always On availability group on VM1. Upgrade the on-premises SQL servers to SQL Server 2019.

To perform the migration, use:

A distributed availability group Azure Migrate Log shipping

Question #: 60

Topic #: 1

[All DP-300 Questions]

DRAG DROP

-

You have an Azure subscription that contains an instance of SQL Server on Azure Virtual Machines named SQLVM1 and a virtual machine named Server1 that runs Windows Server. SQLVM1 and Server1 are joined to an Active Directory Domain Services (AD DS) domain. Server1 hosts a file share named Share1.

You need to ensure that a SOL Server Agent job step on SQLVM1 can access the files in Share1. The solution must use the principle of least privilege.

Which three actions should you perform 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	Answer Area
Assign the proxy to the job step.	
Create a login.	
Create a database user.	
Create a credential.	
Create a proxy.	

Question #: 61

Topic #: 1

[All DP-300 Questions]

You have an Azure subscription.

You need to deploy an instance of SQL Server on Azure Virtual Machines. The solution must meet the following requirements:

- · Custom performance configuration, such as IOPS, capacity, and throughout, must be supported.
- · Costs must be minimized.

Which type of disk should you include in the solution?

- A. Premium SSD v2
- B. Premium SSD
- C. Standard SSD
- D. Ultra SSD

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Q

Question #: 62

Topic #: 1

[All DP-300 Questions]

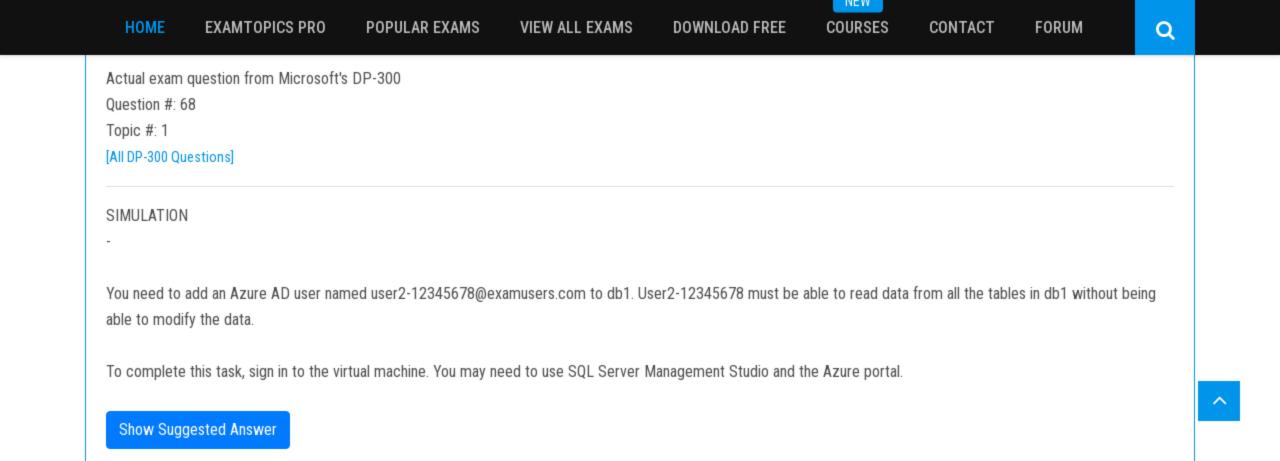
You have an on-premises datacenter that contains a 14-TB Microsoft SQL Server database.

You plan to create an Azure SQL managed instance and migrate the on-premises database to the new instance.

Which three service tiers support the SQL managed instance? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. General Purpose Standard
- B. Business Critical Memory Optimized Premium
- C. General Purpose Premium
- D. Business Critical Premium
- E. Business Critical Standard



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Actual exam question from Microsoft's DP-300

POPULAR EXAMS

Question #: 70

Topic #: 1

[All DP-300 Questions]

HOTSPOT

Case study

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To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

ADatum Corporation is a financial services company that has a main office in New York City.

Existing Environment. Licensing Agreement

Existing Environment. Network Infrastructure

ADatum has a Microsoft Volume Licensing agreement that includes Software Assurance.

ADatum has an on-premises datacenter and an Azure subscription named Sub1.

The datacenter is connected to Network1 by using a Site-to-Site (S2S) VPN.

Sub1 contains a virtual network named Network1 in the East US Azure region.

Existing Environment. Identity Environment

The on-premises network contains an Active Directory Domain Services (AD DS) forest.

The forest contains a single domain named corp.adatum.com.

The corp.adatum.com domain syncs with a Microsoft Entra tenant named adatum.com.

Name

Existing Environment. Database Environment

The datacenter contains the servers shown in the following table.

Operating system

		•
SVR1	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed.
		Has an Always On availability group named AG1
		that contains two databases named DB1 and DB2.
SVR2	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed.
		Has an Always On availability group named AG1
		that contains two databases named DB1 and DB2.
SVR3	Windows Server 2019	Has Microsoft SQL Server 2019 Enterprise installed
		that contains a database named DB3.

DB1 and DB2 are used for transactional and analytical workloads by an application named App1.

App1 runs on Microsoft Entra hybrid joined servers that run Windows Server 2022. App1 uses Kerberos authentication.

DB3 performance is monitored by using Extended Events sessions, with the event_file target set to a file share on a local disk of SVR3.

DB3 stores compliance data used by two applications named App2 and App3.

Resource allocation for DB3 is managed by using Resource Governor.

Description

Requirements. Planned Changes

ADatum plans to implement the following changes:

Deploy an Azure SQL managed instance named Instance1 to Network1.

- Migrate DB1 and DB2 to Instance1.
- · Migrate DB3 to Azure SQL Database. Following the migration of DB1 and DB2, hand over database development to remote developers who use Microsoft Entra joined Windows 11 devices.
- Following the migration of DB3, configure the database to be part of an auto-failover group.

Requirements. Availability Requirements

ADatum identifies the following post-migration availability requirements:

- For DB1 and DB2, offload analytical workloads to a read-only database replica in the same Azure region. Ensure that if a regional disaster occurs, DB1 and DB2 can be recovered from backups.
- After the migration, App1 must maintain access to DB1 and DB2. • For DB3, manage potential performance issues caused by resource demand changes by App2 and App3.
- Ensure that DB3 will still be accessible following a planned failover. Ensure that DB3 can be restored if the logical server is deleted.
- · Minimize downtime during the migration of DB1 and DB2.

Requirements. Security Requirements ADatum identifies the following security requirements for after the migration:

Ensure that only designated developers who use Microsoft Entra joined Windows 11 devices can access DB1 and DB2 remotely.

- Ensure that all changes to DB3, including ones within individual transactions, are audited and recorded.
- Requirements. Management Requirements

ADatum identifies the following post-migration management requirements:

 Continue using Extended Events to monitor DB3. In Azure SQL Database, automate the management of DB3 by using elastic jobs that have database-scoped credentials.

Requirements. Business Requirements

ADatum identifies the following business requirements:

- Minimize costs whenever possible, without affecting other requirements.

requirements.

Minimize administrative effort.

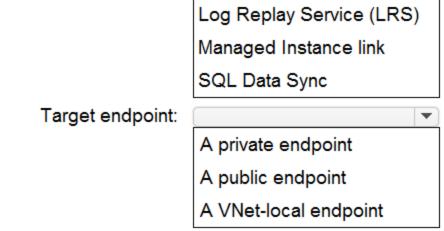
What should you recommend? To answer, select the appropriate options in the answer area.

You need to recommend which service and target endpoint to use when migrating the databases from SVR1 to Instance1. The solution must meet the availability

NOTE: Each correct selection is worth one point.

Answer Area

Migration service:



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Actual exam question from Microsoft's DP-300

Question #: 71

HOME

Topic #: 1

[All DP-300 Questions]

HOTSPOT

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The datacenter contains the servers shown in the following table.

Name

Existing Environment. Database Environment

Operating system

SVR1	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed.
		Has an Always On availability group named AG1
		that contains two databases named DB1 and DB2.
SVR2	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed.
		Has an Always On availability group named AG1
		that contains two databases named DB1 and DB2.
SVR3	Windows Server 2019	Has Microsoft SQL Server 2019 Enterprise installed
		that contains a database named DB3.

App1 runs on Microsoft Entra hybrid joined servers that run Windows Server 2022. App1 uses Kerberos authentication.

DB1 and DB2 are used for transactional and analytical workloads by an application named App1.

DB3 stores compliance data used by two applications named App2 and App3.

DB3 performance is monitored by using Extended Events sessions, with the event_file target set to a file share on a local disk of SVR3.

Resource allocation for DB3 is managed by using Resource Governor.

Description

Requirements. Planned Changes

ADatum plans to implement the following changes:

Deploy an Azure SQL managed instance named Instance1 to Network1.

- Migrate DB1 and DB2 to Instance1. Migrate DB3 to Azure SQL Database.
- Following the migration of DB1 and DB2, hand over database development to remote developers who use Microsoft Entra joined Windows 11 devices. • Following the migration of DB3, configure the database to be part of an auto-failover group.
- Requirements. Availability Requirements

ADatum identifies the following post-migration availability requirements:

- For DB1 and DB2, offload analytical workloads to a read-only database replica in the same Azure region. Ensure that if a regional disaster occurs, DB1 and DB2 can be recovered from backups.
- After the migration, App1 must maintain access to DB1 and DB2. • For DB3, manage potential performance issues caused by resource demand changes by App2 and App3.
- Ensure that DB3 will still be accessible following a planned failover. Ensure that DB3 can be restored if the logical server is deleted.
- Minimize downtime during the migration of DB1 and DB2. Requirements. Security Requirements

ADatum identifies the following security requirements for after the migration:

Ensure that only designated developers who use Microsoft Entra joined Windows 11 devices can access DB1 and DB2 remotely.

- · Ensure that all changes to DB3, including ones within individual transactions, are audited and recorded.
- Requirements. Management Requirements

ADatum identifies the following post-migration management requirements:

 Continue using Extended Events to monitor DB3. In Azure SQL Database, automate the management of DB3 by using elastic jobs that have database-scoped credentials.

Minimize costs whenever possible, without affecting other requirements.

- Requirements. Business Requirements
- ADatum identifies the following business requirements:

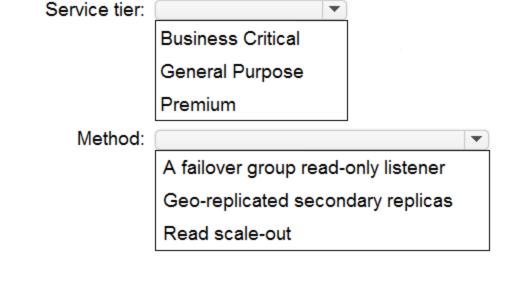
Minimize administrative effort.

You need to recommend a service tier and a method to offload analytical workloads for the databases migrated from SVR1. The solution must meet the availability and business requirements.

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

NOTE: Each correct selection is worth one point.

Answer Area



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FORUM

Actual exam question from Microsoft's DP-300

Question #: 1

Topic #: 2

[All DP-300 Questions]

You have a new Azure SQL database. The database contains a column that stores confidential information.

You need to track each time values from the column are returned in a query. The tracking information must be stored for 365 days from the date the query was executed.

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

NOTE: Each correct selection is worth one point.

- A. Turn on auditing and write audit logs to an Azure Storage account.
- B. Add extended properties to the column.
- C. Turn on auditing and write audit logs to an Event Hub
- D. Apply sensitivity labels named Highly Confidential to the column.
- E. Turn on Azure Defender for SQL

Show Suggested Answer

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FORUM

Q

Actual exam question from Microsoft's DP-300

Question #: 2

Topic #: 2

[All DP-300 Questions]

You have an Azure virtual machine named VM1 on a virtual network named VNet1. Outbound traffic from VM1 to the internet is blocked.

You have an Azure SQL database named SqlDb1 on a logical server named SqlSrv1.

You need to implement connectivity between VM1 and SqlDb1 to meet the following requirements:

- Ensure that all traffic to the public endpoint of SqlSrv1 is blocked.
- Minimize the possibility of VM1 exfiltrating data stored in SqlDb1.

What should you create on VNet1?

- A. a VPN gateway
- B. a service endpoint
- C. a private link
- D. an ExpressRoute gateway

Actual exam question from Microsoft's DP-300

Question #: 3

Topic #: 2

[All DP-300 Questions]

DRAG DROP -

You have a new Azure SQL database named DB1 on an Azure SQL server named AzSQL1.

The only user who was created is the server administrator.

You need to create a contained database user in DB1 who will use Azure Active Directory (Azure AD) for authentication.

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

Select and Place:

Actions

Connect to DB1 by using the Active Directory admin account.

Create a user by using the FROM EXTERNAL PROVIDER clause.

Connect to DB1 by using the server administrator account.

Set the Active Directory Admin for AzSQL1.

From the Azure portal, assign the SQL DB Contributor role to the user.

Create a login in the master database.

Answer Area









Question #: 4

Topic #: 2

[All DP-300 Questions]

HOTSPOT -

You have an Azure SQL database that contains a table named Customer. Customer has the columns shown in the following table.

Customer_ID	Customer_Name	Customer_Phone
11001	Contoso, Ltd.	555-555-0173
11002	Litware, Inc.	555-505-3124
11003	ADatum Corporation	555-689-4312

You plan to implement a dynamic data mask for the Customer_Phone column. The mask must meet the following requirements:

- The first six numerals of each customer's phone number must be masked.
- ⇒ The last four digits of each customer's phone number must be visible.
- Hyphens must be preserved and displayed.

How should you configure the dynamic data mask? To answer, select the appropriate options in the answer area.

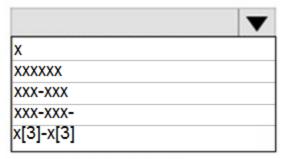
Hot Area:

Answer Area

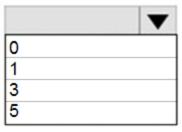
Exposed Prefix:

	•
0	
1	
3	
5	

Padding String:



Exposed Suffix:



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Actual exam question from Microsoft's DP-300

Question #: 5

Topic #: 2

[All DP-300 Questions]

DRAG DROP -

You have an Azure SQL database that contains a table named Employees. Employees contains a column named Salary.

You need to encrypt the Salary column. The solution must prevent database administrators from reading the data in the Salary column and must provide the most secure encryption.

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

Select and Place:

Actions

Answer Area

Encrypt the Salary column by using the randomized encryption type.

Create a column encryption key.

Enable Transparent Data Encryption (TDE).

Encrypt the Salary column by using the deterministic encryption type.

Apply a dynamic data mask to the Salary column.

Create a column master key.









Actual exam question from Microsoft's DP-300

Question #: 6

Topic #: 2

[All DP-300 Questions]

HOTSPOT -

You have an Azure SQL database named DB1 that contains two tables named Table1 and Table2. Both tables contain a column named a Column1. Column1 is used for joins by an application named App1.

You need to protect the contents of Column1 at rest, in transit, and in use.

How should you protect the contents of Column1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

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Encryption key:	The section of the se	
	Column encryption key	
	Database encryption key	
	Service master key	
Encryption type:		-
	Deterministic	
	Randomized	
	Transparent Data Encryption	n (TDE)

Question #: 7

Topic #: 2

[All DP-300 Questions]

You have 40 Azure SQL databases, each for a different customer. All the databases reside on the same Azure SQL Database server.

You need to ensure that each customer can only connect to and access their respective database.

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

NOTE: Each correct selection is worth one point.

- A. Implement row-level security (RLS).
- B. Create users in each database.
- C. Configure the database firewall.
- D. Configure the server firewall.
- E. Create logins in the master database.
- F. Implement Always Encrypted.

Show Suggested Answer

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Actual exam question from Microsoft's DP-300

Question #: 8

Topic #: 2

[All DP-300 Questions]

DRAG DROP -

You have an Azure SQL Database instance named DatabaseA on a server named Server1.

You plan to add a new user named App1 to DatabaseA and grant App1 db_datareader permissions. App1 will use SQL Server Authentication.

You need to create App1. The solution must ensure that App1 can be given access to other databases by using the same credentials.

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

Select and Place:

Actions

On the master database, run CREATE LOGIN
[APP1] FROM EXTERNAL PROVIDER;

On DatabaseA, run CREATE USER [APP1]
WITH PASSWORD = 'P@ssW0rd!';

On DatabaseA, run ALTER ROLE db_datareader ADD MEMBER [App1];

On the master database, run CREATE LOGIN
[App1] WITH PASSWORD = 'P@aaWOrd!';

On DatabaseA, run CREATE USER [App1] FROM LOGIN [App1];

Answer Area





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Actual exam question from Microsoft's DP-300

Question #: 9

Topic #: 2

[All DP-300 Questions]

You have an Azure virtual machine named VM1 on a virtual network named VNet1. Outbound traffic from VM1 to the internet is blocked.

You have an Azure SQL database named SqlDb1 on a logical server named SqlSrv1.

You need to implement connectivity between VM1 and SqlDb1 to meet the following requirements:

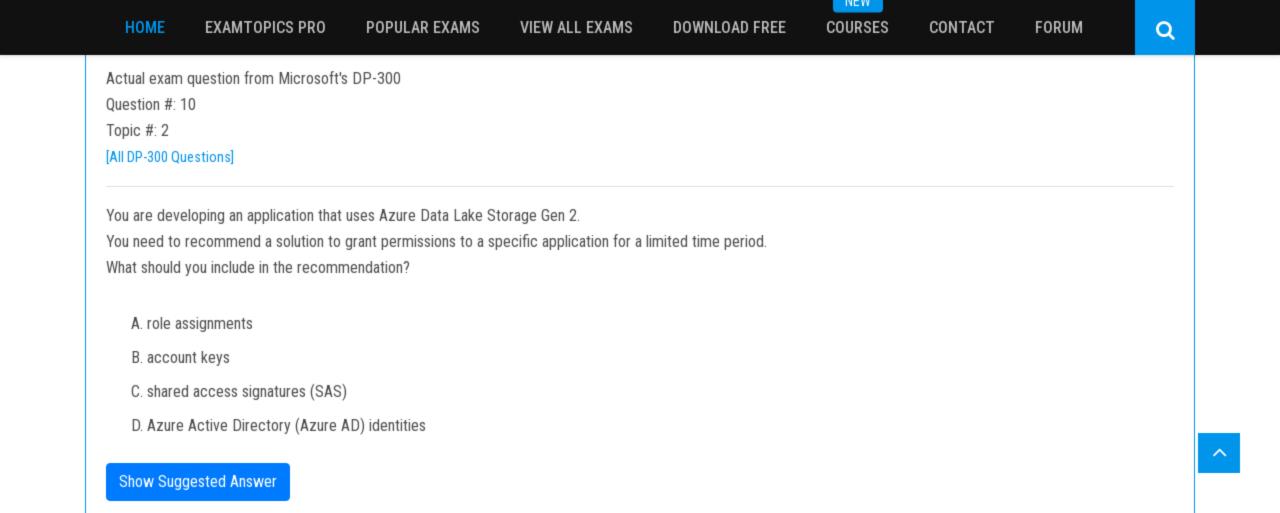
- ⇒ Ensure that VM1 cannot connect to any Azure SQL Server other than SqlSrv1.
- Restrict network connectivity to SqlSrv1.

What should you create on VNet1?

- A. a VPN gateway
- B. a service endpoint
- C. a private link
- D. an ExpressRoute gateway

Show Suggested Answer

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Q

Question #: 11

Topic #: 2

[All DP-300 Questions]

You are designing an enterprise data warehouse in Azure Synapse Analytics that will contain a table named Customers. Customers will contain credit card information. You need to recommend a solution to provide salespeople with the ability to view all the entries in Customers. The solution must prevent all the salespeople from viewing or inferring the credit card information.

What should you include in the recommendation?

- A. row-level security
- B. data masking
- C. Always Encrypted
- D. column-level security

IAC AA

Actual exam question from Microsoft's DP-300

Question #: 12

Topic #: 2

[All DP-300 Questions]

HOTSPOT -

You have an Azure subscription that is linked to a hybrid Azure Active Directory (Azure AD) tenant. The subscription contains an Azure Synapse Analytics SQL pool named Pool 1.

You need to recommend an authentication solution for Pool1. The solution must support multi-factor authentication (MFA) and database-level authentication.

Which authentication solution or solutions should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

MFA:

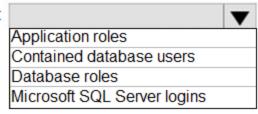
Azure AD authentication

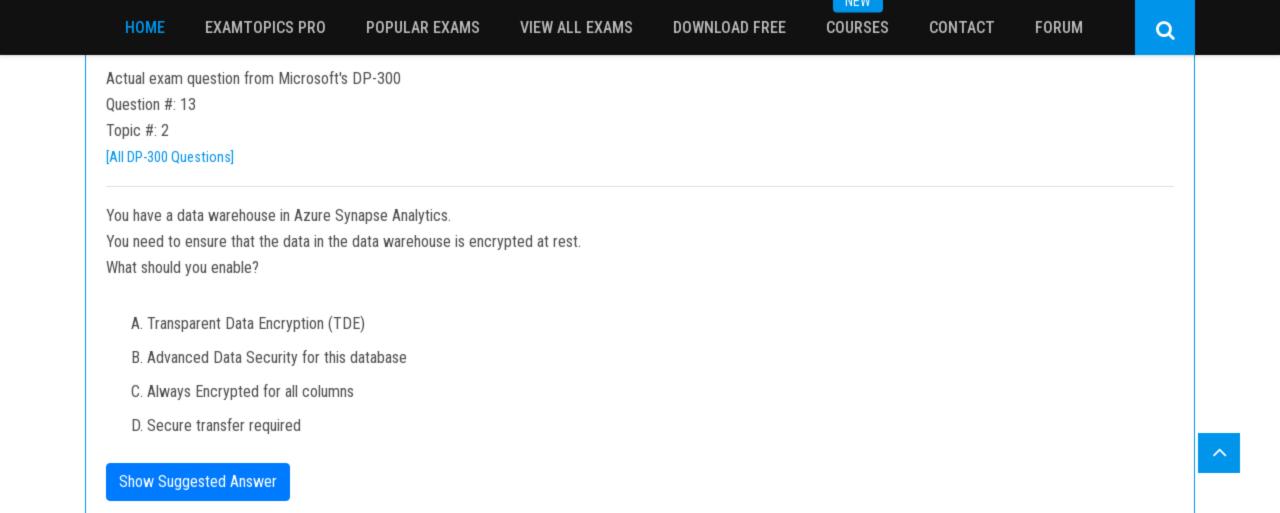
Microsoft SQL Server authentication

Passwordless authentication

Windows authentication

Database-level authentication:





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Actual exam question from Microsoft's DP-300

Question #: 16

Topic #: 2

[All DP-300 Questions]

You have an Azure subscription that contains a server named Server1. Server1 hosts two Azure SQL databases named DB1 and DB2.

You plan to deploy a Windows app named App1 that will authenticate to DB2 by using SQL authentication.

You need to ensure that App1 can access DB2. The solution must meet the following requirements:

- App1 must be able to view only DB2.
- Administrative effort must be minimized.

What should you create?

- A. a contained database user for App1 on DB2
- B. a login for App1 on Server1
- C. a contained database user from an external provider for App1 on DB2
- D. a contained database user from a Windows login for App1 on DB2

COURSES

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Actual exam question from Microsoft's DP-300

Question #: 17

Topic #: 2

[All DP-300 Questions]

You create five Azure SQL Database instances on the same logical server.

In each database, you create a user for an Azure Active Directory (Azure AD) user named User1.

User1 attempts to connect to the logical server by using Azure Data Studio and receives a login error.

You need to ensure that when User1 connects to the logical server by using Azure Data Studio, User1 can see all the databases.

What should you do?

- A. Create User1 in the master database.
- B. Assign User1 the db_datareader role for the master database.
- C. Assign User1 the db_datareader role for the databases that User1 creates.
- D. Grant SELECT on sys.databases to public in the master database.

Question #: 18

Topic #: 2

[All DP-300 Questions]

You have an Azure virtual machine named VM1 on a virtual network named VNet1. Outbound traffic from VM1 to the internet is blocked.

You have an Azure SQL database named SqlDb1 on a logical server named SqlSrv1.

You need to implement connectivity between VM1 and SqlDb1 to meet the following requirements:

- ⇒ Ensure that VM1 cannot connect to any Azure SQL Server other than SqlSrv1.
- Restrict network connectivity to SqlSrv1.

What should you create on VNet1?

- A. a VPN gateway
- B. a service endpoint
- C. a private endpoint
- D. an ExpressRoute gateway

Show Suggested Answer

 \sim

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Actual exam question from Microsoft's DP-300

Question #: 19

Topic #: 2

[All DP-300 Questions]

HOTSPOT -

You have an Azure SQL database named db1 that contains an Azure Active Directory (Azure AD) user named user1.

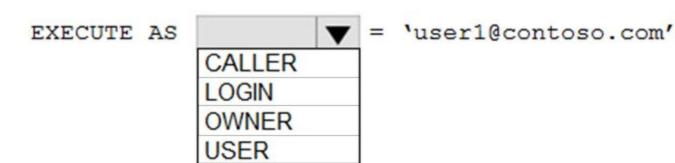
You need to test impersonation of user1 in db1 by running a SELECT statement and returning to the original execution context.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

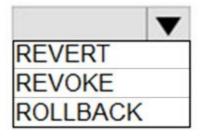
Hot Area:

Answer Area



GO

SELECT SUSER_SNAME()



GO

Actual exam question from Microsoft's DP-300

Question #: 20

Topic #: 2

[All DP-300 Questions]

DRAG DROP -

You have an Azure SQL database named DB1. DB1 contains a table that has a column named Col1.

You need to encrypt the data in Col1.

Which four actions should you perform for DB1 in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Answer Area

Create a database master key.

Create a column master key.

Open the symmetric key.



Create a certificate.



Update Col1.

Create a symmetric key.





Actual exam question from Microsoft's DP-300

Question #: 21

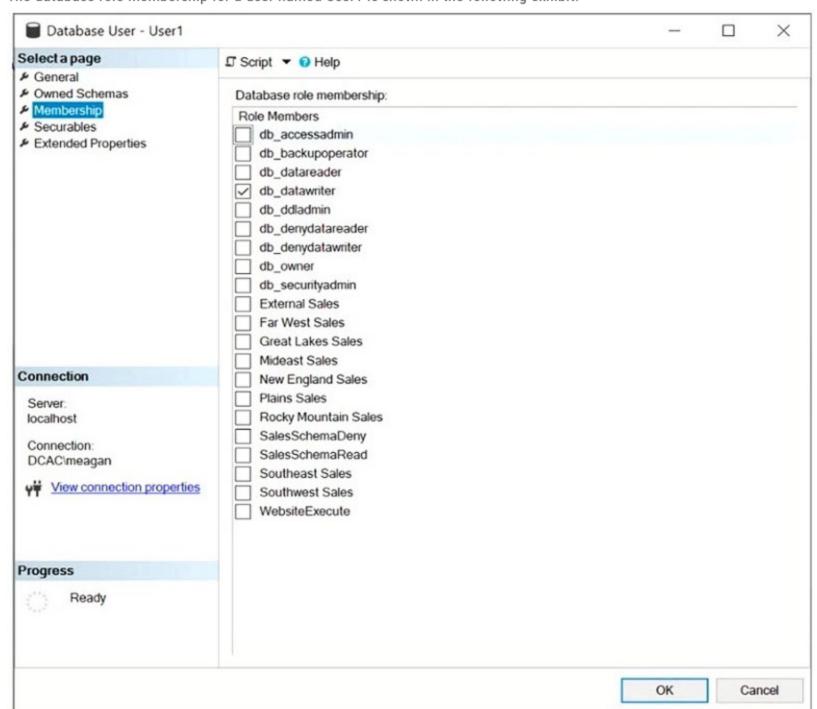
Topic #: 2

[All DP-300 Questions]

HOTSPOT -

You have a Microsoft SQL Server database named DB1 that contains a table named Table1.

The database role membership for a user named User1 is shown in the following exhibit.



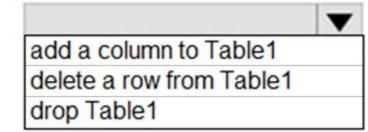
Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

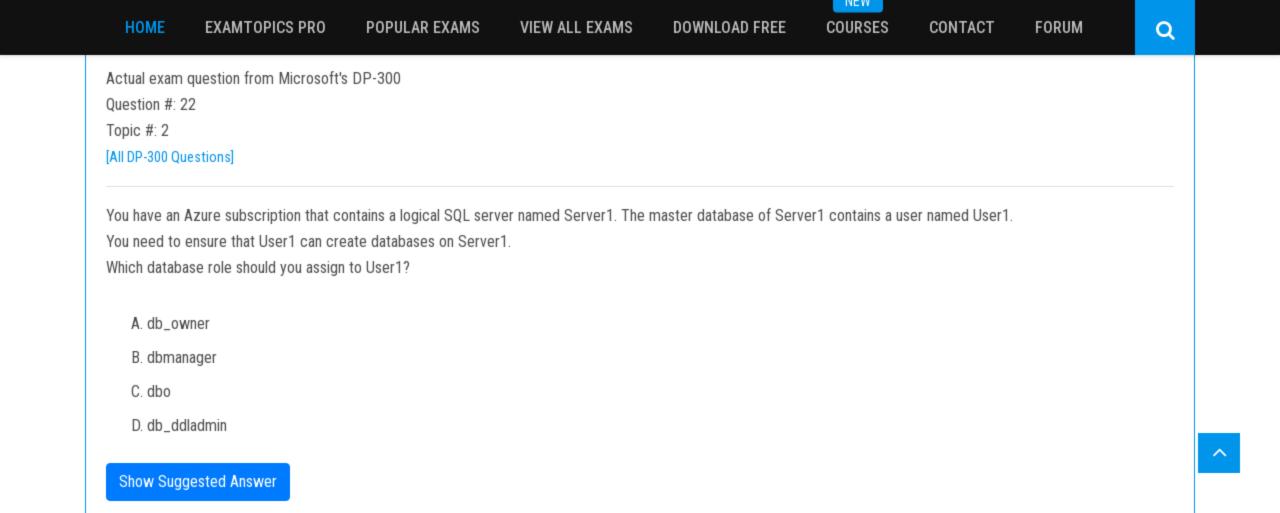
Answer Area

User1 can [answer choice].



To ensure that User1 can run queries to retrieve data from DB1, you must assign User1 the [answer choice] database role.

	•
db_datareader	
db_ddladmin	
db_denydatareader	
db_denydatawriter	



COURSES

NEW

FORUM

Question #: 23

Topic #: 2

[All DP-300 Questions]

You have an on-premises Microsoft SQL Server 2019 instance named SQL1 that hosts a database named db1. You have an Azure subscription that contains an Azure SQL managed instance named MI1 and an Azure Storage account named storage1.

You plan to migrate db1 to Ml1 by using the backup and restore process.

You need to ensure that you can back up db1 to storage1. The solution must meet the following requirements:

- Use block blob storage.
- Maximize security.

What should you do on storage1?

- A. Generate a shared access signature (SAS).
- B. Create an access policy.
- C. Rotate the storage keys.
- D. Enable infrastructure encryption.

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Actual exam question from Microsoft's DP-300

Question #: 24

Topic #: 2

[All DP-300 Questions]

You have an Azure SQL database named DB1.

A user named User1 has an Azure Active Directory (Azure AD) account.

You need to provide User1 with the ability to add and remove columns from the tables in DB1. The solution must use the principle of least privilege.

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

NOTE: Each correct selection is worth one point.

- A. Assign the database user the db_owner role.
- B. Create a contained database user.
- C. Create a login and an associated database user.
- D. Assign the database user the db_ddladmin role.

Actual exam question from Microsoft's DP-300

Question #: 25

Topic #: 2

[All DP-300 Questions]

HOTSPOT

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You have an Azure SQL database named DB1 that contains a table named Orders. The Orders table contains a row for each sales order. Each sales order includes the name of the user who placed the order.

You need to implement row-level security (RLS). The solution must ensure that the users can view only their respective sales orders.

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

NOTE: Each correct selection is worth one point.

Create:

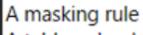
A materialized view in DB1

A security policy in the Orders table

₩

Database scoped credentials in DB1

Control access to the rows by using:



A table-valued function

The CONTAINS predicate

a

Question #: 26

Topic #: 2

[All DP-300 Questions]

DRAG DROP

-

You have an Azure subscription that contains an Azure SQL database named SQLDb1. SQLDb1 contains a table named Table1.

You plan to deploy an Azure web app named webapp1 that will export the rows in Table1 that have changed.

You need to ensure that webapp1 can identify the changes to Table1. The solution must meet the following requirements:

- Minimize compute times.
- · Minimize storage.

Which three actions should you perform 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

From webapp1, connect to SQLDb1, obtain the initial dataset and run the CHANGE TRACKING CURREWT VERSION() function.

Connect to SQLDb1 and run the following Transact-SQL statement EXEC sys.sp_cdc_enable_table

Connect to SQLDb1 and run the following Transact-SQL statement EXEC sys.sp cdc enable db

From webapp1, connect to SQLDb1, obtain the initial dataset, and run the CHANGETABLE () function.

Connect to SQLDb1 and run the following Transact-SQL statement ALTER DATABASE SQLDb1 SET CHANGE TRACKING = ON

Connect to SQLDb1 and run the following Transact-SQL statement
ALTER TABLE dbo.Table1 ENABLE CHANGE TRACKING

Answer Area



Actual exam question from Microsoft's DP-300

Question #: 27

Topic #: 2

[All DP-300 Questions]

H0TSP0T

-

You have an Azure subscription that is linked to an Azure Active Directory (Azure AD) tenant named contoso.com The subscription contains an Azure SQL database named SQL1 and an Azure web app named app1. App1 has the managed identity feature enabled.

You need to create a new database user for app1.

How should you complete the Transact-SQL statement? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

CREATE USER

[App1] [Contoso\app1] [App1@contoso.com] FROM

login Windows EXTERNAL PROVIDER

IAE AA

Actual exam question from Microsoft's DP-300

Question #: 28

Topic #: 2

[All DP-300 Questions]

DRAG DROP

You have an Azure subscription that contains an Azure SQL database named DB1.

You plan to perform a classification scan of DB1 by using Azure Purview.

You need to ensure that you can register DB1.

Which three actions should you perform 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	Answer Area
From the Purview Studio, create a scan trigger.	
Modify the Access control (IAM) settings for DB1.	0
Create a system-assigned managed identity.	\sim
Create a Purview account.	O
From the Purview Studio, create a scan rule set.	



Actual exam question from Microsoft's DP-300

Question #: 29

Topic #: 2

[All DP-300 Questions]

HOTSPOT

-

You have an Azure subscription that contains a group named Group1 and an Azure SQL managed instance that hosts a database named DB1.

You need to ensure that Group1 has read access to new tables created in DB1. The solution must use the principle of least privilege.

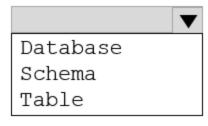
How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

GRANT





::[table] TO [Contoso\group1]

IACAA

Question #: 30

Topic #: 2

[All DP-300 Questions]

You have an instance of SQL Server on Azure Virtual Machines named VM1.

You plan to schedule a SQL Server Agent job that will rebuild indexes of the databases hosted on VM1.

You need to configure the account that will be used by the agent. The solution must use the principle of least privilege.

Which operating system user right should you assign to the account?

- A. Increase scheduling priority
- B. Log on as a service
- C. Profile system performance
- D. Log on as a batch job

Show Suggested Answer

Question #: 31

Topic #: 2

[All DP-300 Questions]

You have an Azure subscription that contains an instance of SQL Server on an Azure virtual machine named SQLVM1 and a user named User1. SQLVM1 hosts a database named DB1.

You need to ensure that User1 can create a scheduled task to perform a full backup of DB1. The solution must use the principle of least privilege.

Which built-in database role should you assign to User1?

- A. db_owner
- B. SQLAgentReaderRole
- C. SQLAgentUserRole
- D. SQLAgentOperatorRole

Show Suggested Answer

^

FORUM

Question #: 32

Topic #: 2

[All DP-300 Questions]

HOTSPOT

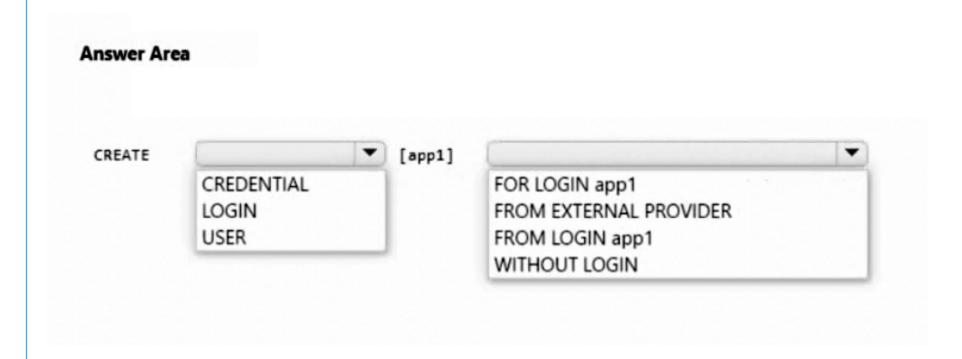
-

You have an Azure subscription that contains a logical SQL server. The server hosts two databases named db1 and db2 and an Azure AD service principal named app1.

You need to ensure that app1 can access db1. The solution must use the principle of least privilege.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Actual exam question from Microsoft's DP-300 Question #: 34

Topic #: 2

[All DP-300 Questions]

HOTSPOT -

You have an Azure SQL logical server.

You run the following script.

```
CREATE DATABASE Sales
GO
CREATE TABLE [dbo].[Orders]
  (
     [OrderID] INT NOT NULL,
     [OrderDescription] NVARCHAR (MAX) NOT NULL,
     [Timestamp] Datetime2 NOT NULL
)
WITH (
    SYSTEM_VERSIONING = ON,
    LEDGER = ON
    );
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

G0

Statements	Yes	No
The orders table will allow only rows to be inserted.	0	0
To create additional tables in the Sales database, the LEDGER = ON parameter must be used.	0	0
To ensure that a timestamp is added to each row in the orders table, the GENERATED ALWAYS column must be added to the script.	0	0

IACAA

INCAA

Actual exam question from Microsoft's DP-300

Question #: 37

Topic #: 2

[All DP-300 Questions]

You have an Azure SQL database named DB1. DB1 has a table named Table1 that contains the following columns.

Name	Type
Column1	Ntext
Column2	Geometry
Column3	Image
Column4	Varchar
Column5	Datetime2

You plan to enable Always Encrypted for Table 1.

Which two columns support encryption? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Column1
- B. Column2
- C. Column3
- D. Column4
- E. Column5

Actual exam question from Microsoft's DP-300

Question #: 38

Topic #: 2

[All DP-300 Questions]

HOTSPOT

-

You have an Azure subscription that contains an Azure SQL managed instance named SQL1.

You use the Microsoft Power BI service.

You need to configure connectivity from the Power BI service to SQL1. The solution must ensure that only the Power BI service can initiate connections to SQL1.

Which type of endpoint should you use for SQL1, and what should you use to control the connections to SQL1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Endpoint type:

▼

Private Public

Service

Control connections by using:

. .

A database-level firewall A network security group (NSG)

A server-level firewall

Virtual network firewall rules

Question #: 39

Topic #: 2

[All DP-300 Questions]

HOTSPOT

-

You have an Azure subscription.

You need to deploy a logical SQL server by using PowerShell. The solution must ensure that the logical SQL server can create Azure AD users and provide Transparent Data Encryption (TDE) with a customer-managed key.

How should you complete the command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

New-AzSQLServer -ResourceGroupName "RG1" -ServerName "SQL1" -Location "EastUS" -ErrorAction Stop

-Tags @{Environment="Databases";"Department"="Data Tech"}

- assignidentity
- federatedclientID
- keyid

- keyid

- keyid

"https://db1.vault.azure.net/keys/dbkey/01234234512345678901234561823942"

NEW

Actual exam question from Microsoft's DP-300

Question #: 40

Topic #: 2

[All DP-300 Questions]

You have an Azure subscription.

You create a logical SQL server that hosts four databases. Each database will be used by a separate customer.

You need to ensure that each customer can access only its own database. The solution must minimize administrative effort.

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

NOTE: Each correct selection is worth one point.

- A. Deny public access.
- B. Create a private endpoint.
- C. Create a database-level firewall rule.
- D. Create a network security group (NSG).
- E. Create a server-level firewall rule.

Question #: 41

Topic #: 2

[All DP-300 Questions]

DRAG DROP

-

You have an Azure key vault named Vault1 and a SQL server on Azure Virtual Machines instance named SQL1. SQL1 hosts a database named DB1.

You need to configure Transparent Data Encryption (TDE) on DB1 to use a key in Vault1.

Which four actions should you perform 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

On SQL1, create a cryptographic provider and a Microsoft SQL Server credential.

On SQL1, create a symmetric key.

On SQL1, create a login from the asymmetric key.

On SQL1, create a login from the symmetric key.

Create an Azure AD service principal and grant the service principal permissions for Vault1.

On SQL1, create an asymmetric key.

Answer Area





IA C AA

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Actual exam question from Microsoft's DP-300

Question #: 42

Topic #: 2

[All DP-300 Questions]

You have an Azure subscription that contains an instance of SQL Server on an Azure virtual machine named VM1 and an Azure Active Directory Domain Services (Azure AD DS) domain that contains two users named User1 and User 2.

On the default instance of SQL Server on VM1, you create a credential named Credential1 for User1.

You need to ensure that User2 can create a SQL Server Agent proxy that will use Credential1. The solution must use the principle of least privilege.

Which role should you assign to User2?

- A. SQLAgentUserRole
- B. SQLAgentReaderRole
- C. SQLAgentOperatorRole
- D. sysadmin

Question #: 43

Topic #: 2

[All DP-300 Questions]

DRAG DROP

-

You have an instance of SQL Server on Azure Virtual Machines named SQL1. SQL1 contains a database named DB1.

You need to enable Transparent Data Encryption (TDE) for DB1.

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

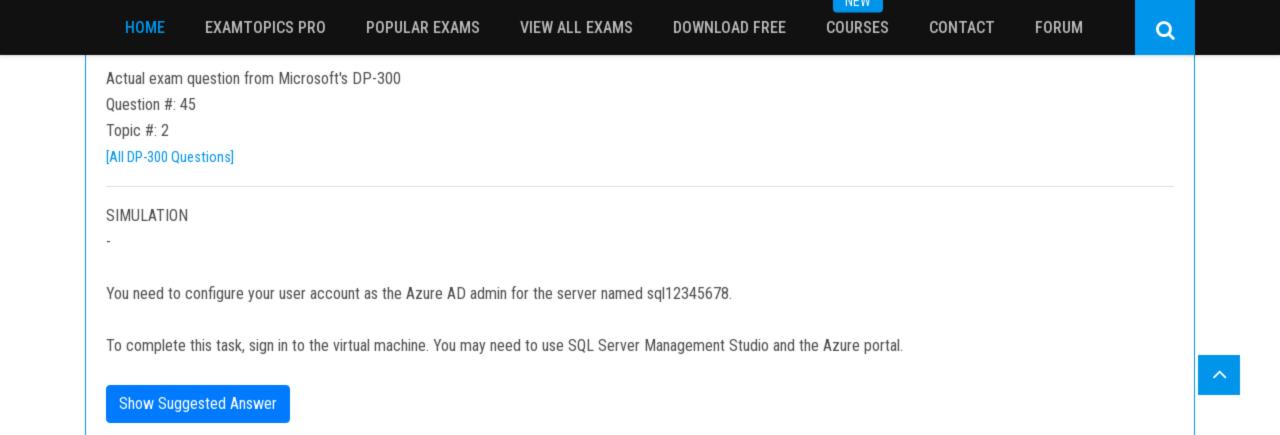
Objects

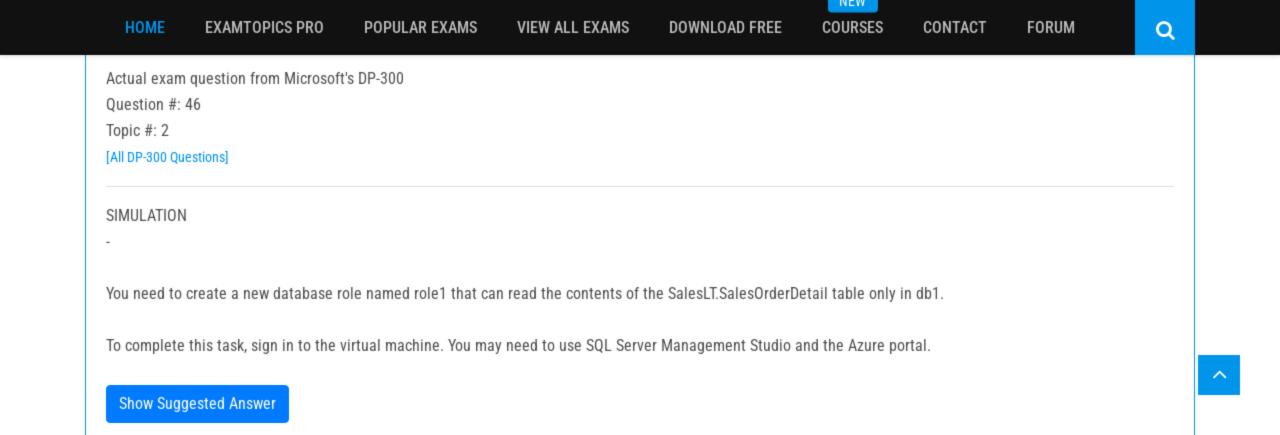
- a database encryption key in the master database
- a master key in the master database
- a certificate in DB1
- a certificate in the master database
- a master key in DB1
- a database encryption key in DB1

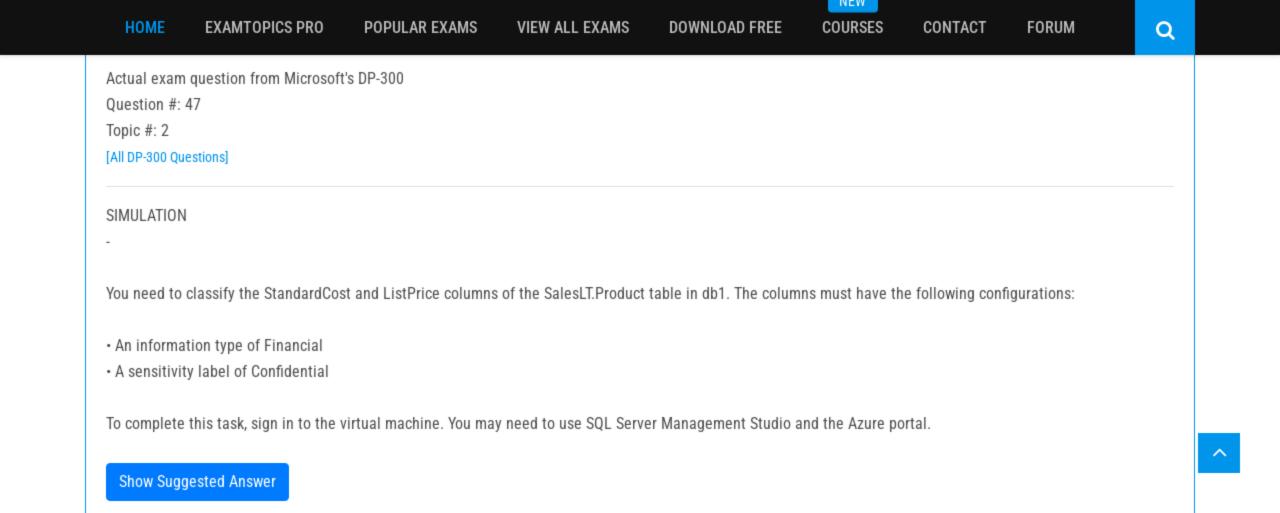
Answer Area

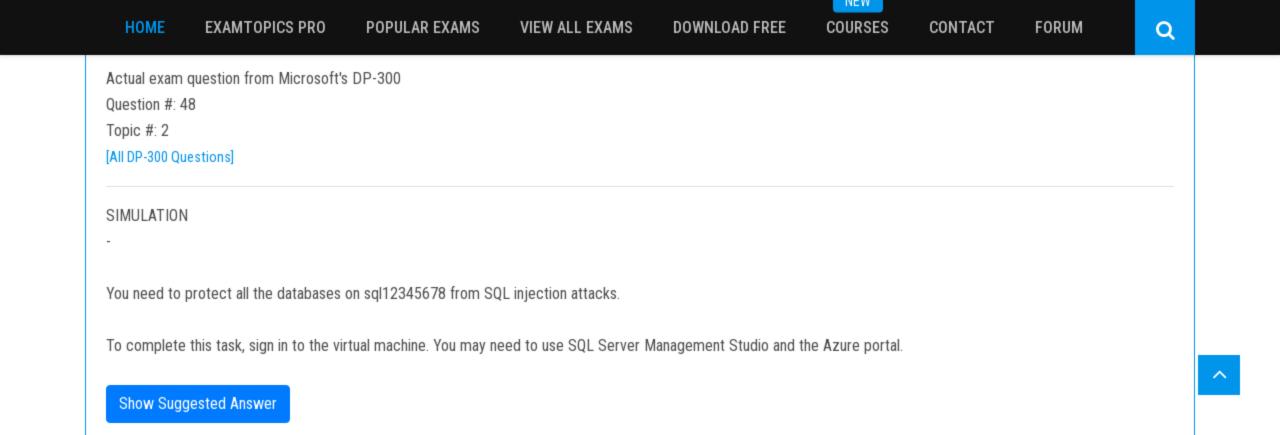
- 3)
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Actual exam question from Microsoft's DP-300

Question #: 49

Topic #: 2

[All DP-300 Questions]

Case study -

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

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To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview -

ADatum Corporation is a financial services company that has a main office in New York City.

Existing Environment. Licensing Agreement

ADatum has a Microsoft Volume Licensing agreement that includes Software Assurance.

Existing Environment. Network Infrastructure

ADatum has an on-premises datacenter and an Azure subscription named Sub1.

Sub1 contains a virtual network named Network1 in the East US Azure region.

The datacenter is connected to Network1 by using a Site-to-Site (S2S) VPN.

Existing Environment. Identity Environment

The on-premises network contains an Active Directory Domain Services (AD DS) forest.

The forest contains a single domain named corp.adatum.com.

The corp.adatum.com domain syncs with a Microsoft Entra tenant named adatum.com.

Existing Environment. Database Environment

The datacenter contains the servers shown in the following table.

Name	Operating system	Description			
SVR1	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed.			
		Has an Always On availability group named AG1			
		that contains two databases named DB1 and DB2.			
SVR2	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed.			
		Has an Always On availability group named AG1			
		that contains two databases named DB1 and DB2.			
SVR3	Windows Server 2019	Has Microsoft SQL Server 2019 Enterprise installed			
		that contains a database named DB3.			

DB1 and DB2 are used for transactional and analytical workloads by an application named App1.

App1 runs on Microsoft Entra hybrid joined servers that run Windows Server 2022. App1 uses Kerberos authentication.

DB3 stores compliance data used by two applications named App2 and App3.

DB3 performance is monitored by using Extended Events sessions, with the event_file target set to a file share on a local disk of SVR3.

Resource allocation for DB3 is managed by using Resource Governor.

Requirements. Planned Changes -

ADatum plans to implement the following changes:

- Deploy an Azure SQL managed instance named Instance1 to Network1.
 Migrate DR1 and DR2 to Instance1.
- Migrate DB1 and DB2 to Instance1.
 Migrate DB3 to Azuro SQL Databas
- Migrate DB3 to Azure SQL Database.
 Following the migration of DB1 and D
- Following the migration of DB1 and DB2, hand over database development to remote developers who use Microsoft Entra joined Windows 11 devices.
 Following the migration of DB3, configure the database to be part of an auto-failover group.

Following the migration of DB3, configure the database to be part of an auto-failover group.

Requirements. Availability Requirements

ADatum identifies the following post-migration availability requirements:

- For DB1 and DB2, offload analytical workloads to a read-only database replica in the same Azure region.
- Ensure that if a regional disaster occurs, DB1 and DB2 can be recovered from backups.
 After the migration, App1 must maintain access to DB1 and DB2.
- After the migration, App i must maintain access to DB1 and DB2.
 For DB3, manage potential performance issues caused by resource demand changes by App2 and App3.
- Ensure that DB3 will still be accessible following a planned failover.
- Ensure that DB3 can be restored if the logical server is deleted.
 Minimize downtime during the migration of DB1 and DB2.

William 12c downtime during the migration of DDT and DD2

ADatum identifies the following security requirements for after the migration:

- Ensure that only designated developers who use Microsoft Entra joined Windows 11 devices can access DB1 and DB2 remotely.
 Ensure that all changes to DB3, including ones within individual transactions, are audited and recorded.
- Ensure that all changes to DB3, including ones within individual transactions, are audited and recorder

ADatum identifies the following post-migration management requirements:

Requirements. Management Requirements

Requirements. Security Requirements

Continue using Extended Events to monitor DB3.

- In Azure SQL Database, automate the management of DB3 by using elastic jobs that have database-scoped credentials.
- Requirements. Business Requirements

ADatum identifies the following business requirements:

- Minimize costs whenever possible, without affecting other requirements.
 Minimize administrative effort.

You need to recommend a process to automate the management of DB3. The solution must meet the management requirements.

- A. Configure Microsoft Entra authentication for the logical server that hosts DB3.

What should be the first step of the process?

C. Create database-scoped credentials in DB3.

B. Configure a private endpoint for connectivity to DB3.

D. Create a database that has database-scoped credentials.

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Actual exam question from Microsoft's DP-300

Question #: 51

Topic #: 2

[All DP-300 Questions]

Case study -

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Name Onestina

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I			Has an Always On availability group named AG1			
l			that contains two databases named DB1 and DB2.			
	SVR3	Windows Server 2019	Has Microsoft SQL Server 2019 Enterprise installed			
			that contains a database named DB3.			

DB1 and DB2 are used for transactional and analytical workloads by an application named App1.

App1 runs on Microsoft Entra hybrid joined servers that run Windows Server 2022. App1 uses Kerberos authentication.

DB3 stores compliance data used by two applications named App2 and App3.

DB3 performance is monitored by using Extended Events sessions, with the event_file target set to a file share on a local disk of SVR3.

D----i--4i---

Resource allocation for DB3 is managed by using Resource Governor.

Requirements. Planned Changes -

ADatum plans to implement the following changes:

- Deploy an Azure SQL managed instance named Instance1 to Network1. Migrate DB1 and DB2 to Instance1.
- Migrate DB3 to Azure SQL Database.
- Following the migration of DB1 and DB2, hand over database development to remote developers who use Microsoft Entra joined Windows 11 devices. · Following the migration of DB3, configure the database to be part of an auto-failover group.

Requirements. Availability Requirements

ADatum identifies the following post-migration availability requirements:

- For DB1 and DB2, offload analytical workloads to a read-only database replica in the same Azure region. Ensure that if a regional disaster occurs, DB1 and DB2 can be recovered from backups.
- After the migration, App1 must maintain access to DB1 and DB2.
- For DB3, manage potential performance issues caused by resource demand changes by App2 and App3. Ensure that DB3 will still be accessible following a planned failover.
- Ensure that DB3 can be restored if the logical server is deleted. Minimize downtime during the migration of DB1 and DB2.

Requirements. Security Requirements

ADatum identifies the following security requirements for after the migration:

- Ensure that only designated developers who use Microsoft Entra joined Windows 11 devices can access DB1 and DB2 remotely. Ensure that all changes to DB3, including ones within individual transactions, are audited and recorded.

ADatum identifies the following post-migration management requirements:

Requirements. Management Requirements

Continue using Extended Events to monitor DB3.

- In Azure SQL Database, automate the management of DB3 by using elastic jobs that have database-scoped credentials.
- Requirements. Business Requirements

ADatum identifies the following business requirements:

Minimize administrative effort.

· Minimize costs whenever possible, without affecting other requirements.

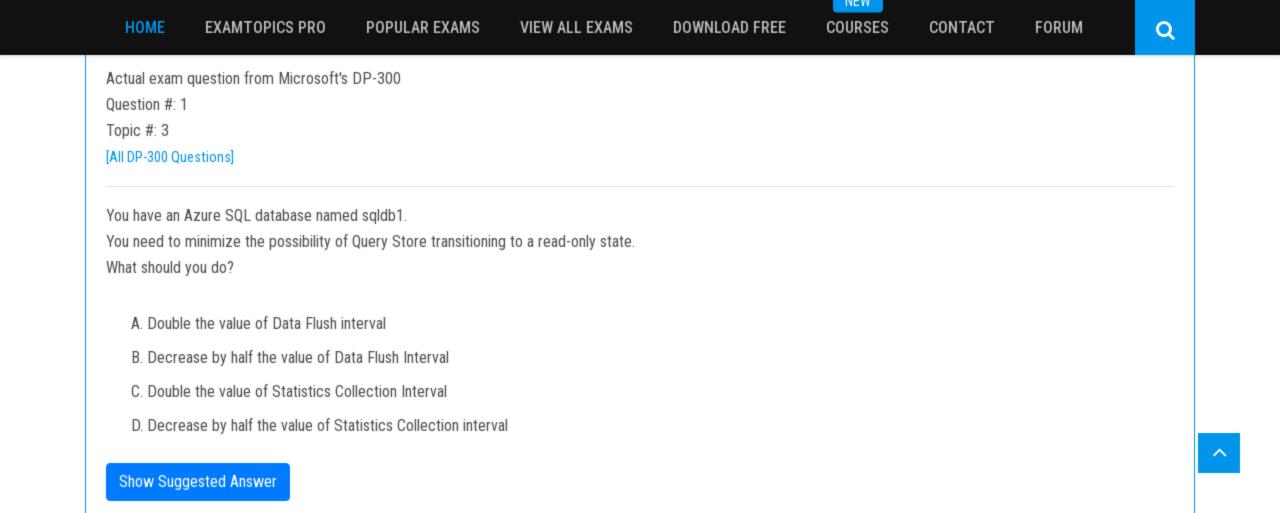
requirements.

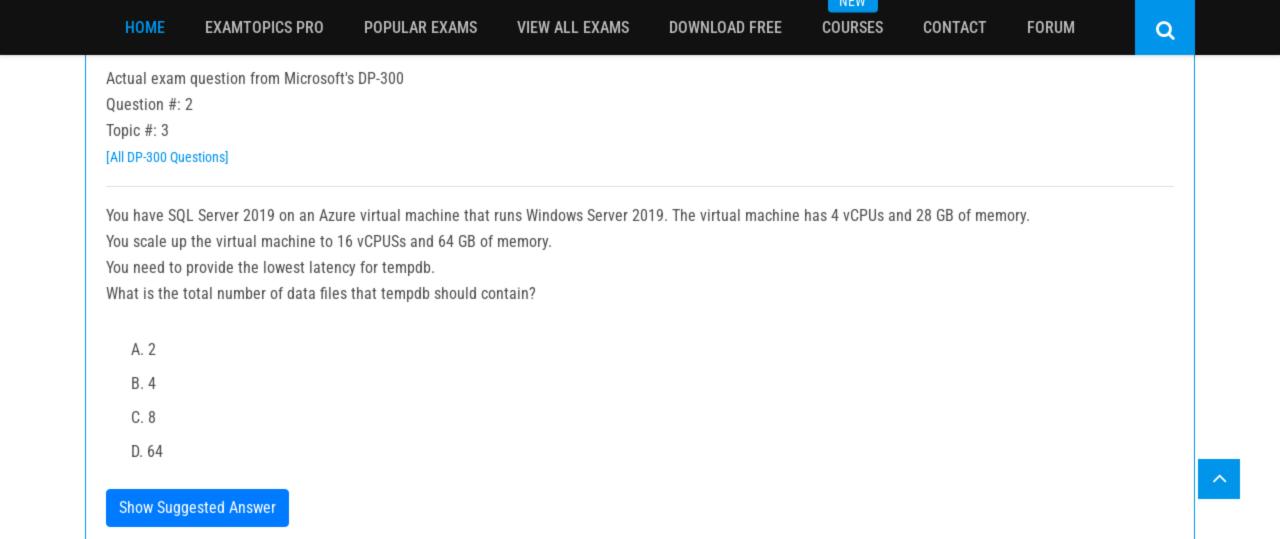
You need to recommend a solution that will enable remote developers to access DB1 and DB2. The solution must support the planned changes and meet the security

A. a public endpoint via a database-level firewall rule

What should you include in the recommendation?

- B. a Point-to-Site (P2S) VPN
 - C. a public endpoint via a server-level firewall rule
- D. a private endpoint





Actual exam question from Microsoft's DP-300

Question #: 3

Topic #: 3

[All DP-300 Questions]

HOTSPOT -

You have an Azure SQL database named db1.

You need to retrieve the resource usage of db1 from the last week.

How should you complete the statement? To answer, select the appropriate options in the answer area.

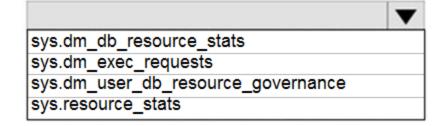
NOTE: Each correct selection is worth one point.

Hot Area:

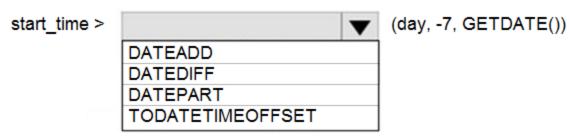
Answer Area

SELECT *

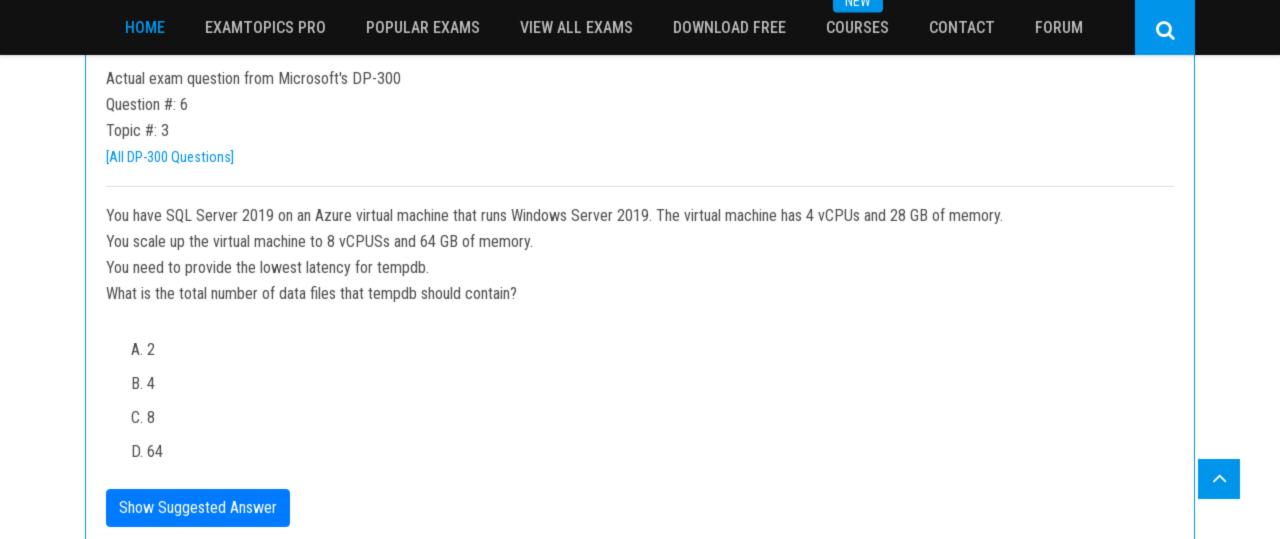
FROM



WHERE database_name = 'db1' AND



ORDER BY start_time DESC;



Actual exam question from Microsoft's DP-300

Question #: 8

Topic #: 3

[All DP-300 Questions]

You have an Azure virtual machine based on a custom image named VM1.

VM1 hosts an instance of Microsoft SQL Server 2019 Standard.

You need to automate the maintenance of VM1 to meet the following requirements:

- Automate the patching of SQL Server and Windows Server.
- Automate full database backups and transaction log backups of the databases on VM1.
- Minimize administrative effort.

What should you do first?

- A. Enable a system-assigned managed identity for VM1
- B. Register the Azure subscription to the Microsoft.Sql resource provider
- C. Install an Azure virtual machine Desired State Configuration (DSC) extension on VM1
- D. Register the Azure subscription to the Microsoft.SqlVirtualMachine resource provider

Show Suggested Answer

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Actual exam question from Microsoft's DP-300

Question #: 9

Topic #: 3

[All DP-300 Questions]

HOTSPOT -

You are building an Azure Stream Analytics job to retrieve game data.

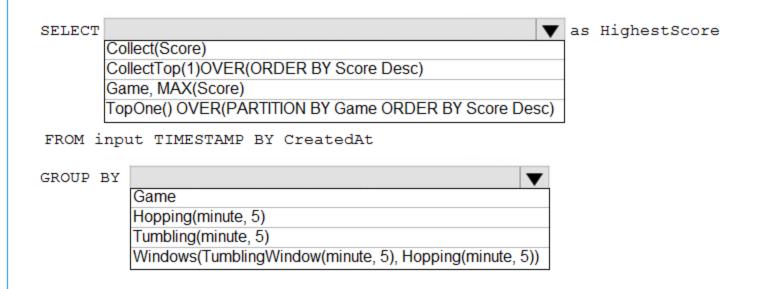
You need to ensure that the job returns the highest scoring record for each five-minute time interval of each game.

How should you complete the Stream Analytics query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area



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Actual exam question from Microsoft's DP-300

Question #: 11

Topic #: 3

[All DP-300 Questions]

DRAG DROP -

Your company analyzes images from security cameras and sends alerts to security teams that respond to unusual activity. The solution uses Azure Databricks.

You need to send Apache Spark level events, Spark Structured Streaming metrics, and application metrics to Azure Monitor.

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

Select and Place:

Answer Area Actions

Deploy Grafana to an Azure virtual machine.

Build a spark-listeners-loganalytics-1.0-SNAPSHOT.jar JAR file.

Create Dropwizard counters in the application code.



Configure the Databricks cluster to use the Databricks monitoring library.







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Actual exam question from Microsoft's DP-300

Question #: 12

Topic #: 3

[All DP-300 Questions]

You have an Azure data solution that contains an enterprise data warehouse in Azure Synapse Analytics named DW1.

Several users execute adhoc queries to DW1 concurrently.

You regularly perform automated data loads to DW1.

You need to ensure that the automated data loads have enough memory available to complete quickly and successfully when the adhoc queries run.

What should you do?

- A. Assign a smaller resource class to the automated data load gueries.
- B. Create sampled statistics to every column in each table of DW1.
- C. Assign a larger resource class to the automated data load queries.
- D. Hash distribute the large fact tables in DW1 before performing the automated data loads.

FORUM

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Actual exam question from Microsoft's DP-300

Question #: 14

Topic #: 3

[All DP-300 Questions]

You have an Azure Stream Analytics job.

You need to ensure that the job has enough streaming units provisioned.

You configure monitoring of the SU % Utilization metric.

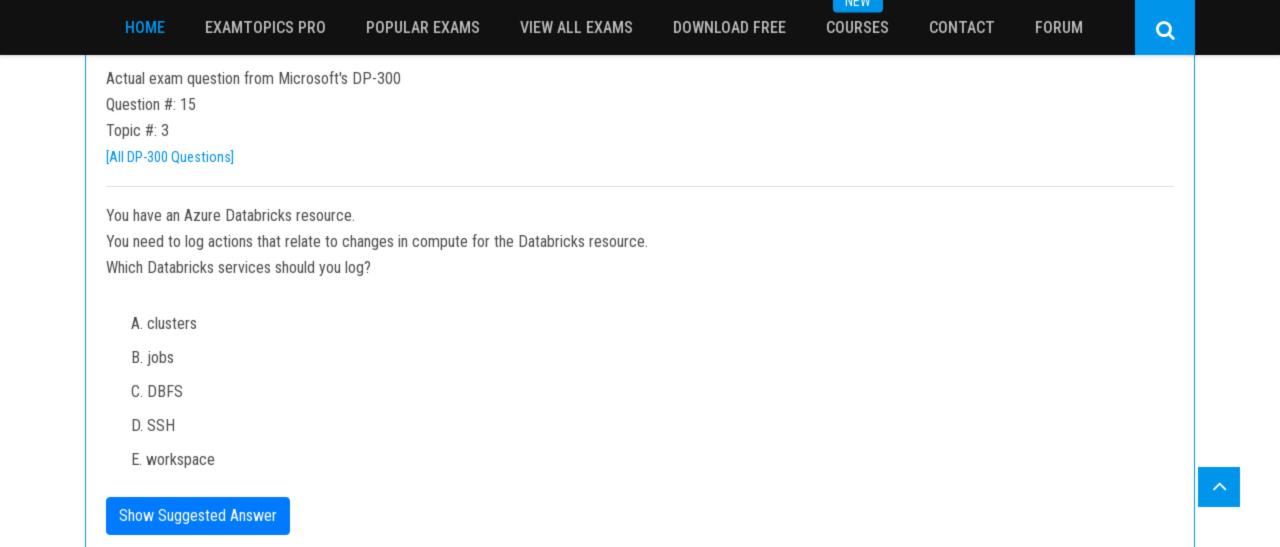
Which two additional metrics should you monitor? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Late Input Events
- B. Out of order Events
- C. Backlogged Input Events
- D. Watermark Delay
- E. Function Events

Show Suggested Answer

^



Actual exam question from Microsoft's DP-300

Question #: 19

Topic #: 3

[All DP-300 Questions]

You have an Azure Synapse Analytics dedicated SQL pool.

You run PDW_SHOWSPACEUSED('dbo.FactInternetSales'); and get the results shown in the following table.

ROWS	RESERVED_SPACE	DATA_SPACE	INDEX_SPACE	UNUSED_SPACE	PDW_NODE_ID	DISTRIBUTION_ID
694	2776	616	48	2112	1	1
407	2704	576	48	2080	1	2
53	2376	512	16	1848	1	3
58	2376	512	16	1848	1	4
168	2632	528	32	2072	1	5
195	2696	536	32	2128	1	6
5995	3464	1424	32	2008	1	7
0	2232	496	0	1736	1	8
264	2576	544	40	1992	1	9
3008	3016	960	32	2024	1	10
1550	2832	752	48	2032	1	50
1238	2832	696	40	2096	1	51
192	2632	528	32	2072	1	52
1127	2768	680	48	2040	1	53
1244	3032	704	64	2264	1	54
409	2632	568	32	2032	1	55
0	2232	496	0	1736	1	56
1437	2832	728	40	2064	1	57
0	2232	496	0	1736	1	58
384	2632	560	32	2040	1	59
225	2768	544	40	2184	1	60

Which statement accurately describes the dbo.FactInternetSales table?

- A. The table contains less than 10,000 rows.
- B. All distributions contain data.
- C. The table uses round-robin distribution
- D. The table is skewed.

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Actual exam question from Microsoft's DP-300

Question #: 20

Topic #: 3

[All DP-300 Questions]

DRAG DROP -

You have an Azure SQL managed instance named SQLMI1 that has Resource Governor enabled and is used by two apps named App1 and App2.

You need to configure SQLMI1 to limit the CPU and memory resources that can be allocated to App1.

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

Select and Place:

Actions

Create a workload group.

Create a user-defined classifier function.

Modify Resource Governor.

Create a contained database user.

Create a resource pool.

Answer Area





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Actual exam question from Microsoft's DP-300

Question #: 21

Topic #: 3

[All DP-300 Questions]

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.

You have SQL Server 2019 on an Azure virtual machine.

You are troubleshooting performance issues for a query in a SQL Server instance.

To gather more information, you query sys.dm_exec_requests and discover that the wait type is PAGELATCH_UP and the wait_resource is 2:3:905856.

You need to improve system performance.

Solution: You shrink the transaction log file.

Does this meet the goal?

A. Yes

B. No

IA E AA

Actual exam question from Microsoft's DP-300

Question #: 22

Topic #: 3

[All DP-300 Questions]

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.

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You are troubleshooting performance issues for a query in a SQL Server instance.

To gather more information, you query sys.dm_exec_requests and discover that the wait type is PAGELATCH_UP and the wait_resource is 2:3:905856.

You need to improve system performance.

Solution: You change the data file for the master database to autogrow by 10 percent.

Does this meet the goal?

A. Yes

B. No

Actual exam question from Microsoft's DP-300

Question #: 23

Topic #: 3

[All DP-300 Questions]

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.

You have SQL Server 2019 on an Azure virtual machine.

You are troubleshooting performance issues for a query in a SQL Server instance.

To gather more information, you query sys.dm_exec_requests and discover that the wait type is PAGELATCH_UP and the wait_resource is 2:3:905856.

You need to improve system performance.

Solution: You reduce the use of table variables and temporary tables.

Does this meet the goal?

- A. Yes
- B. No

Show Suggested Answer

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Actual exam question from Microsoft's DP-300

Question #: 25

Topic #: 3

[All DP-300 Questions]

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.

You have SQL Server 2019 on an Azure virtual machine.

You are troubleshooting performance issues for a query in a SQL Server instance.

To gather more information, you query sys.dm_exec_requests and discover that the wait type is PAGELATCH_UP and the wait_resource is 2:3:905856.

You need to improve system performance.

Solution: You create additional tempdb files.

Does this meet the goal?

A. Yes

B. No

Actual exam question from Microsoft's DP-300

Question #: 28

Topic #: 3

[All DP-300 Questions]

You have an Azure SQL managed instance named SQL1 and two Azure web apps named App1 and App2.

You need to limit the number of IOPs that App2 queries generate on SQL1.

Which two actions should you perform on SQL1? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Enable query optimizer fixes.
- B. Enable Resource Governor.
- C. Enable parameter sniffing.
- D. Create a workload group.
- E. Configure In-memory OLTP.
- F. Run the Database Engine Tuning Advisor.
- G. Reduce the Max Degree of Parallelism value.

Actual exam question from Microsoft's DP-300

Question #: 30

Topic #: 3

[All DP-300 Questions]

HOTSPOT -

You have an Azure subscription that contains an Azure SQL database.

The database fails to respond to queries in a timely manner.

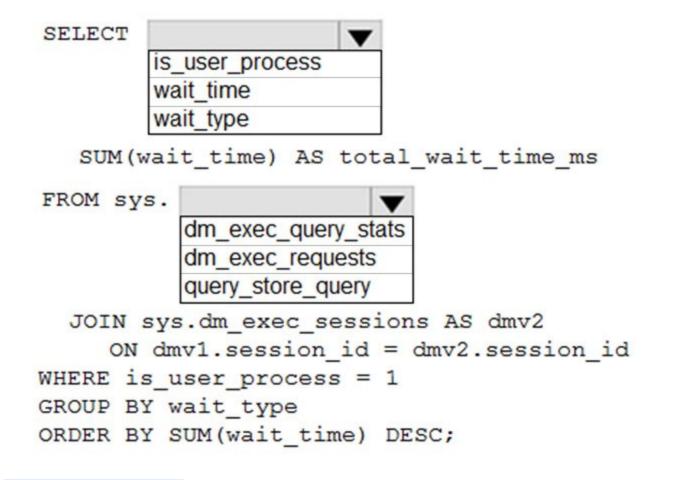
You need to identify whether the issue relates to resource_semaphore waits.

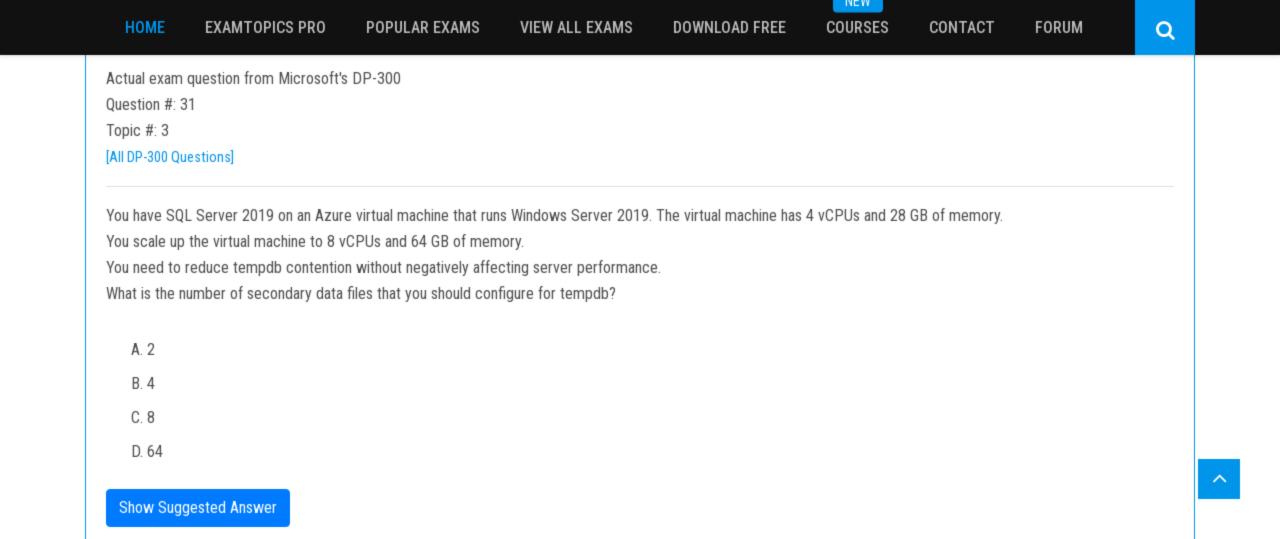
How should you complete the Transact-SQL query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area





Question #: 32

Topic #: 3

[All DP-300 Questions]

You receive numerous alerts from Azure Monitor for an Azure SQL Database instance.

You need to reduce the number of alerts. You must only receive alerts if there is a significant change in usage patterns for an extended period.

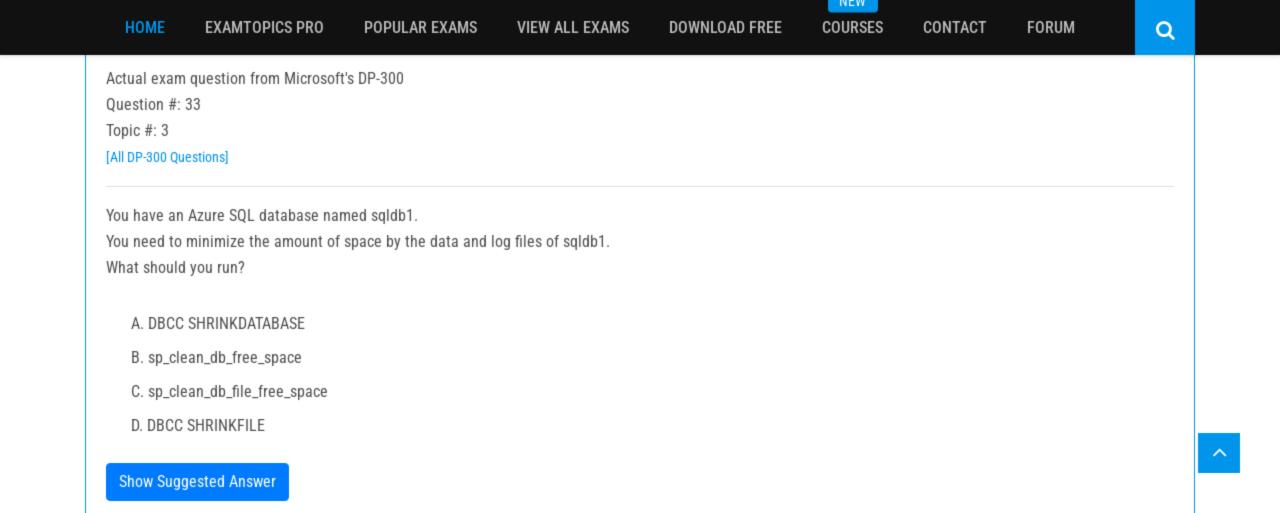
Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Set Threshold Sensitivity to High
- B. Set the Alert logic threshold to Dynamic
- C. Set the Alert logic threshold to Static
- D. Set Threshold Sensitivity to Low
- E. Set Force Plan to On

Show Suggested Answer

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Actual exam question from Microsoft's DP-300

Question #: 35

Topic #: 3

[All DP-300 Questions]

DRAG DROP -

You are building an Azure virtual machine.

You allocate two 1-TiB, P30 premium storage disks to the virtual machine. Each disk provides 5,000 IOPS.

You plan to migrate an on-premises instance of Microsoft SQL Server to the virtual machine. The instance has a database that contains a 1.2-TiB data file. The database requires 10,000 IOPS.

You need to configure storage for the virtual machine to support the database.

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

Select and Place:

Actions Answer Area

a virtual disk that uses the stripe layout

a virtual disk that uses the mirror layout

a volume

a virtual disk that uses the simple layout

a storage pool







Actual exam question from Microsoft's DP-300

Question #: 36

Topic #: 3

[All DP-300 Questions]

HOTSPOT

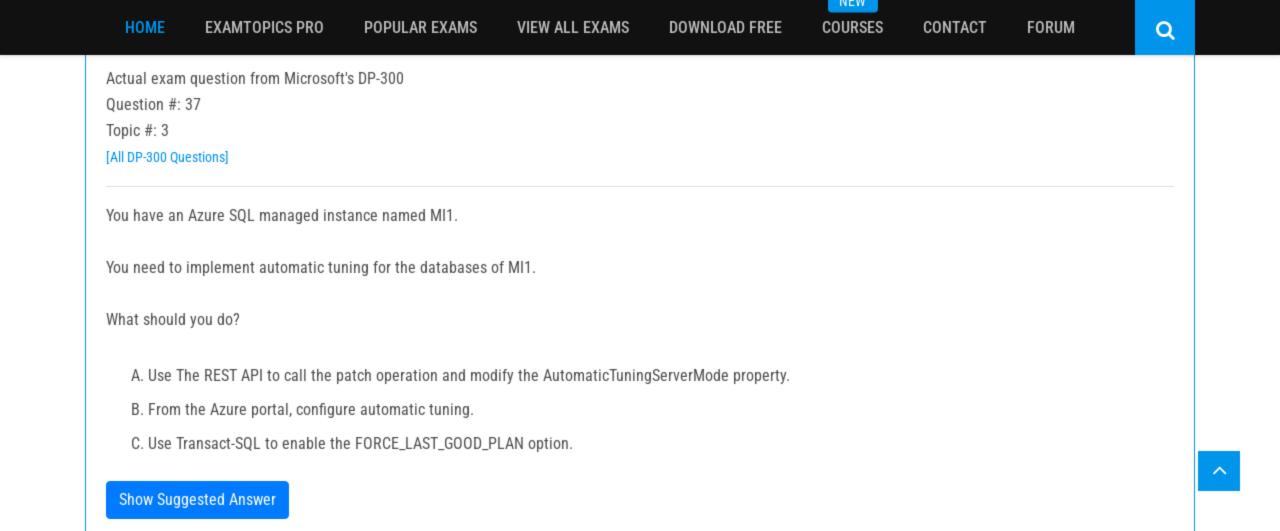
-

You need to use an Azure Resource Manager (ARM) template to deploy an Azure virtual machine that will host a Microsoft SQL Server instance. The solution must maximize disk I/O performance for the SQL Server database and log files.

How should you complete the template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
"variables": (
    "dataDisks": {
      "caching":
                                    "dataDiskCount": 8, "logDisksCount": 1,
                  None
                  ReadOnly
                  ReadWrite
"resources": [
    { "type": "Microsoft.Compute/virtualMachines",
        "storageProfile": {
          "osDisk": {
          }, "copy": [
           {"name": "dataDisks", "count": "[add(variables('dataDiskCount'), variables('logDisksCount'))]",
             "input": {"lun": "[copyIndex('dataDisks')]", "createOption": "empty",
             "caching": "[if(greaterOrEquals(copyIndex('dataDisks'),parameters('dataDiskCount')),
                                                                                                     None
              variables('dataDisks').caching )]", "diskSizeGB": 1023,
                                                                                                     ReadOnly
                                                                                                     ReadWrite
```



IN E W

Actual exam question from Microsoft's DP-300

Question #: 38

Topic #: 3

[All DP-300 Questions]

You have an Azure subscription that contains an Azure SQL database named db1.

You need to implement SQL insights for db1.

Which two resources should you create first? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. a storage account
- B. a virtual machine
- C. an Azure logic app
- D. an Azure function
- E. a Log Analytics workspace

Show Suggested Answer

IN E W

Actual exam question from Microsoft's DP-300

Question #: 39

Topic #: 3

[All DP-300 Questions]

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

Name	Туре
App1	Azure web app
db1	Azure SQL database in the serverless tier

App1 experiences transient connection errors and timeouts when it attempts to access db1 after extended periods of inactivity.

You need to modify db1 to resolve the issues experienced by App1 as soon as possible, without considering immediate costs.

What should you do?

- A. Enable automatic tuning for db1.
- B. Increase the number of vCores allocated to db1.
- C. Decrease the auto-pause delay for db1.
- D. Disable auto-pause delay for db1.

Question #: 40

Topic #: 3

[All DP-300 Questions]

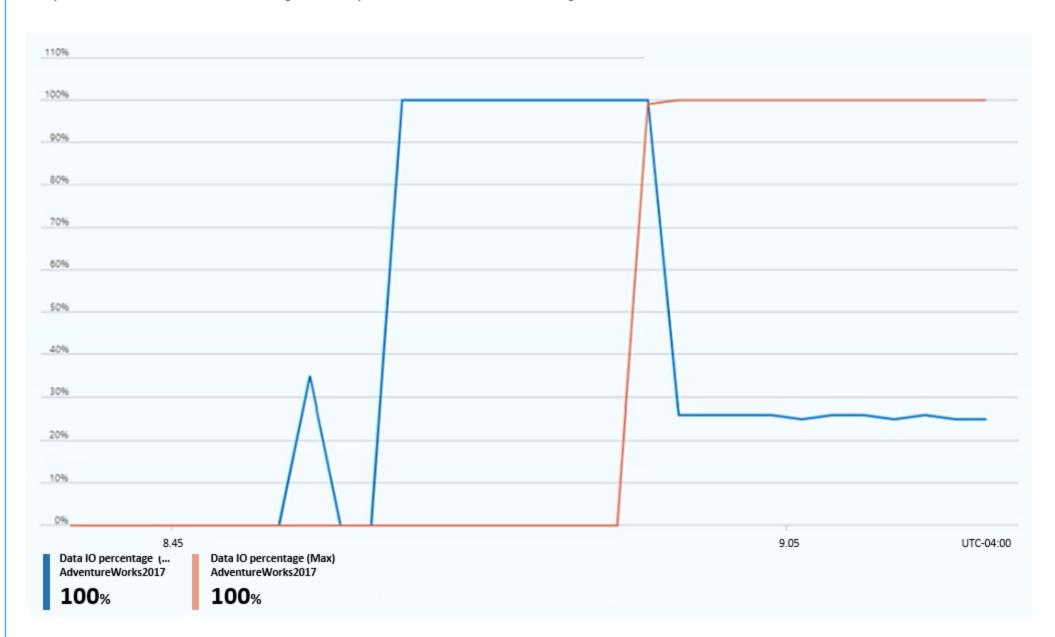
H0TSP0T

-

You have an Azure SQL database named DB1 that contains a table named Table1.

You run a query to load data into Table1.

The performance metrics of Table1 during the load operation are shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Answer Area

To reduce how long it takes to complete the query you must [answer choice].

scale the resource
use an elastic resource
perform query tuning

To reduce the log IO load of the operation, the query must be updated to use **[answer choice]** table.

a temporary
an In-Memory OTLP durable
an In-Memory OTLP non durable

Q

FORUM

Actual exam question from Microsoft's DP-300

Question #: 41

Topic #: 3

[All DP-300 Questions]

DRAG DROP

-

You have a database named db1.

The log for db1 contains the following entry.

Date 10/5/2021 10:57:08 AM

Log SQL Server (Current - 10/5/2021 11:26:00 AM)

Sources spid1595

Message

The transaction log for database 'db1' is full due to 'AVAILABILITY_REPLICA'

You need to ensure that db1 can process transactions.

Which three actions should you perform 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

Back up the transaction log file.

Remove db1 from the availability group.

Shrink the transaction log file.

Shrink db1.

Add db1 back to the availability group.

Answer Area

- 1
- 2
- 3



Question #: 43

Topic #: 3

[All DP-300 Questions]

HOTSPOT

-

You have an Azure subscription that contains an instance of SQL Server on Azure Virtual Machines named SQLVM1 and a user named User1. SQLVM1 hosts a database named DB1.

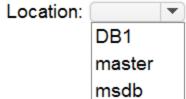
You need to ensure that User1 can perform the following tasks on DB1:

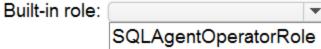
- · Create jobs.
- · View all jobs.
- · Modify, delete, and disable the jobs the user created.

The solution must use the principle of least privilege.

Which built-in database role should you assign to User1, and where is the role defined? To answer, select the appropriate options in the answer area.

Answer Area





SQLAgentReaderRole SQLAgentUserRole

Actual exam question from Microsoft's DP-300

Question #: 45

Topic #: 3

[All DP-300 Questions]

HOTSPOT

-

You have an Azure SQL database named DB1 in the General Purpose service tier.

You need to monitor DB1 by using SQL Insights.

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

Answer Area

To collect monitoring data, use:



A virtual machine An Azure function The Azure Monitor agent

To store monitoring data, create:



A Log Analytics workspace An Azure SQL database An Azure Storage account

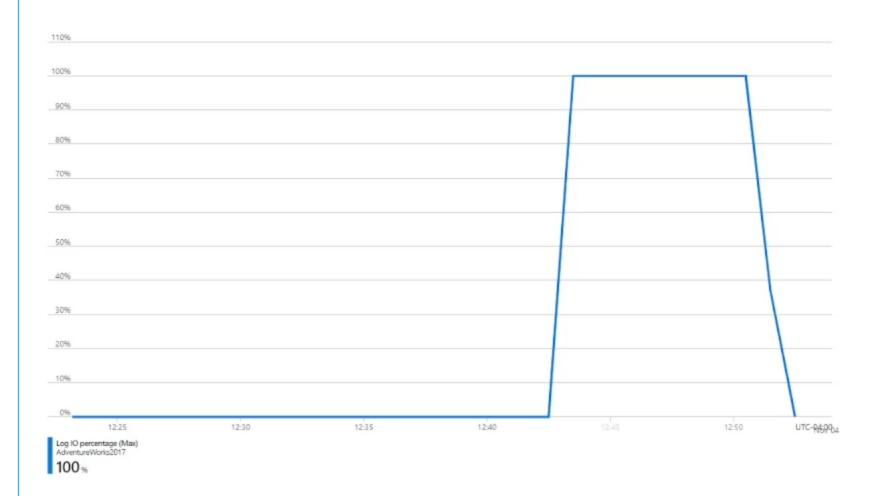
Question #: 46

Topic #: 3

[All DP-300 Questions]

You have an Azure SQL database named DB1 in the General Purpose service tier.

The performance metrics for DB1 are shown in the following exhibit.



You need to reduce the Log IO percentage. The solution must minimize costs.

What should you do?

- A. Change Service tier to Business Critical.
- B. Increase the number of vCores.
- C. Perform a checkpoint operation.
- D. Change Recovery model to Simple.

Question #: 47

Topic #: 3

[All DP-300 Questions]

You have an Azure SQL database named DB1 that contains a nonclustered index named index1.

End users report slow queries when they use index1.

You need to identify the operations that are being performed on the index.

Which dynamic management view should you use?

- A. Sys.dm_exec_query_plan_stats
- B. Sys.dm_db_index_physical_stats
- C. Sys.dm_db_index_operational_stats
- D. Sys.dm_db_index_useage_stats

Show Suggested Answer

FORUM

Actual exam question from Microsoft's DP-300

Question #: 48

Topic #: 3

[All DP-300 Questions]

HOTSPOT

-

You have an Azure SQL managed instance named SQLMI1 that hosts multiple databases.

You need to monitor the performance of SQLMI1 and identify which database uses the most memory and the most disk I/O.

Which objects should you query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

sys.dm_exec_query_stats
sys.dm_io_virtual_file_stats
sys.dm_os_buffer_descriptors
sys.dm_os_performance_counters

For disk I/O:

sys.dm_exec_query_stats sys.dm_io_virtual_file_stats sys.dm_os_buffer_descriptors sys.dm_os_performance_counters

Actual exam question from Microsoft's DP-300

Question #: 49

Topic #: 3

[All DP-300 Questions]

HOTSPOT

-

You have an Azure subscription that contains an instance of SQL Server on Azure Virtual Machines. The virtual machine hosts a database named DB1.

You need to monitor DB1 by using Extended Events. The solution must meet the following requirements:

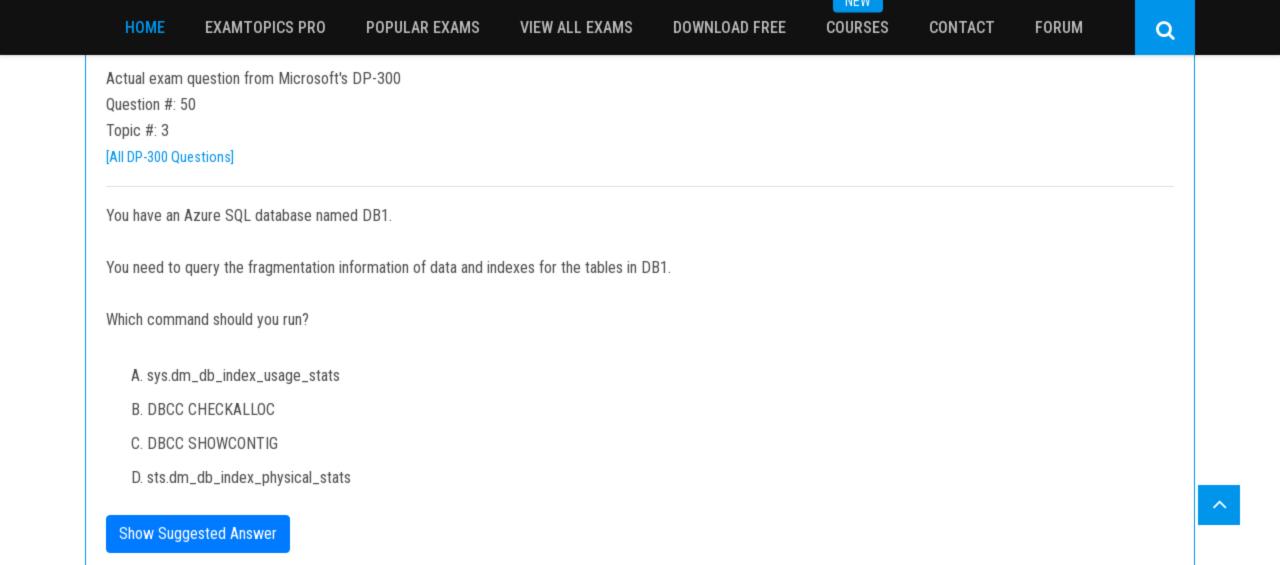
- · Capture raw event data and store the data in Azure Storage.
- · Minimize the performance impact of capturing extended events.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
Answer Area
```

```
CREATE EVENT SESSION session1 ON DATABASE
 ADD EVENT sqlserver.sql_statement_starting
   ACTION (sqlserver.sql_text)
   WHERE statement LIKE 'UPDATE gmTabEmployee%'
 ADD TARGET
   package0.
                event_file
                event_stream
                ring_buffer
     (
    SET filename = 'https://gmstorageaccountxevent.blob.core.windows.net/gmcontainerxevent/anyfilenamexel242b.xel'
     )
   WITH
     (MAX_MEMORY = 10 MB,
     EVENT_RETENTION_MODE=
                              ALLOW_MULTIPLE_EVENT_LOSS
                              ALLOW_SINGLE_EVENT_LOSS
                              NO_EVENT_LOSS
  MAX_DISPATCH_LATENCY = 3 SECONDS)
```



IN E W

Actual exam question from Microsoft's DP-300

Question #: 51

Topic #: 3

[All DP-300 Questions]

You have an Azure SQL managed instance named SQLMI1 that has the following settings:

- · vCores: 4
- · Service tier: General Purpose
- · Hardware generation: Standard-series (Gen5)

You discover that memory pressure on SQLMI1 is high.

You need to reduce the memory pressure on SQLMI1. The solution must minimize costs.

What should to do?

- A. Enable the Query Store.
- B. Change vCores to 8.
- C. Change Hardware generation to Premium-series.
- D. Change Service tier to Business Critical.

You have five instances of SQL Server on Azure Virtual Machines.

You need to monitor Microsoft SQL Server performance for all the instances by consolidating metrics into a single graphic display. The solution must minimize administrative effort.

What should you use?

- A. Azure Monitor
- B. Log Analytics
- C. SQL Insights
- D. Azure SQL Analytics

Show Suggested Answer

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Show Suggested Answer

Question #: 54

Topic #: 3

[All DP-300 Questions]

You have an Azure subscription that contains the following resources:

- 10 Azure SQL databases
- Five Azure SQL managed instances
- Five instances of SQL Server on Azure Virtual Machines

You need to implement a centralized monitoring solution for all the Azure SQL resources. The solution must minimize administrative effort.

What should you include in the solution?

- A. Log Analytics
- B. Azure SQL Analytics
- C. Query Performance Insight
- D. SQL Insights

Show Suggested Answer

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Q

Actual exam question from Microsoft's DP-300

Question #: 59

Topic #: 3

[All DP-300 Questions]

Case study -

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Overview -

ADatum Corporation is a financial services company that has a main office in New York City.

Existing Environment. Licensing Agreement

ADatum has a Microsoft Volume Licensing agreement that includes Software Assurance.

Existing Environment. Network Infrastructure

ADatum has an on-premises datacenter and an Azure subscription named Sub1.

Sub1 contains a virtual network named Network1 in the East US Azure region.

The datacenter is connected to Network1 by using a Site-to-Site (S2S) VPN.

Existing Environment. Identity Environment

The on-premises network contains an Active Directory Domain Services (AD DS) forest.

The forest contains a single domain named corp.adatum.com.

The corp.adatum.com domain syncs with a Microsoft Entra tenant named adatum.com.

Existing Environment. Database Environment

The datacenter contains the servers shown in the following table.

Name	Operating system	Description
SVR1	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed.
		Has an Always On availability group named AG1
		that contains two databases named DB1 and DB2.
SVR2	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed.
		Has an Always On availability group named AG1
		that contains two databases named DB1 and DB2.
SVR3	Windows Server 2019	Has Microsoft SQL Server 2019 Enterprise installed
		that contains a database named DB3.

DB1 and DB2 are used for transactional and analytical workloads by an application named App1.

App1 runs on Microsoft Entra hybrid joined servers that run Windows Server 2022. App1 uses Kerberos authentication.

DB3 stores compliance data used by two applications named App2 and App3.

DB3 performance is monitored by using Extended Events sessions, with the event_file target set to a file share on a local disk of SVR3.

Resource allocation for DB3 is managed by using Resource Governor.

Requirements. Planned Changes -

ADatum plans to implement the following changes:

- Deploy an Azure SQL managed instance named Instance1 to Network1.
- · Migrate DB1 and DB2 to Instance1.
- Migrate DB3 to Azure SQL Database.
- Following the migration of DB1 and DB2, hand over database development to remote developers who use Microsoft Entra joined Windows 11 devices.

· Following the migration of DB3, configure the database to be part of an auto-failover group.

Requirements. Availability Requirements

ADatum identifies the following post-migration availability requirements:

- For DB1 and DB2, offload analytical workloads to a read-only database replica in the same Azure region.
- Ensure that if a regional disaster occurs, DB1 and DB2 can be recovered from backups. After the migration, App1 must maintain access to DB1 and DB2.
- For DB3, manage potential performance issues caused by resource demand changes by App2 and App3.
- Ensure that DB3 will still be accessible following a planned failover.
- Ensure that DB3 can be restored if the logical server is deleted.

· Minimize downtime during the migration of DB1 and DB2.

Requirements. Security Requirements

ADatum identifies the following security requirements for after the migration:

- Ensure that only designated developers who use Microsoft Entra joined Windows 11 devices can access DB1 and DB2 remotely. · Ensure that all changes to DB3, including ones within individual transactions, are audited and recorded.

ADatum identifies the following post-migration management requirements:

Requirements. Management Requirements

Continue using Extended Events to monitor DB3.

- In Azure SQL Database, automate the management of DB3 by using elastic jobs that have database-scoped credentials.
- Requirements. Business Requirements

ADatum identifies the following business requirements:

Minimize administrative effort.

Minimize costs whenever possible, without affecting other requirements.

You need to recommend a solution to meet the security requirements and the business requirements for DB3.

What should you recommend as the first step of the solution?

Show Suggested Answer

- B. Run the ALTER TABLE statement and specify the ENABLE CHANGE_TRACKING Clause.
 - C. Run the ALTER DATABASE statement and specify the SET CHANGE_TRACKING = ON Clause.
- D. Run the sys.sp_cdc_enable_db stored procedure.

A. Run the sp_addarticle stored procedure.

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Q

Actual exam question from Microsoft's DP-300

Question #: 60

Topic #: 3

[All DP-300 Questions]

Case study -

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App1 runs on Microsoft Entra hybrid joined servers that run Windows Server 2022. App1 uses Kerberos authentication.

DB3 stores compliance data used by two applications named App2 and App3.

DB3 performance is monitored by using Extended Events sessions, with the event_file target set to a file share on a local disk of SVR3.

Resource allocation for DB3 is managed by using Resource Governor.

Requirements. Planned Changes -

ADatum plans to implement the following changes:

- Deploy an Azure SQL managed instance named Instance1 to Network1. · Migrate DB1 and DB2 to Instance1.
- Migrate DB3 to Azure SQL Database.
- Following the migration of DB1 and DB2, hand over database development to remote developers who use Microsoft Entra joined Windows 11 devices. • Following the migration of DB3, configure the database to be part of an auto-failover group.

Requirements. Availability Requirements

ADatum identifies the following post-migration availability requirements:

- For DB1 and DB2, offload analytical workloads to a read-only database replica in the same Azure region. Ensure that if a regional disaster occurs, DB1 and DB2 can be recovered from backups.
- After the migration, App1 must maintain access to DB1 and DB2.
- For DB3, manage potential performance issues caused by resource demand changes by App2 and App3.
- Ensure that DB3 will still be accessible following a planned failover.
- Ensure that DB3 can be restored if the logical server is deleted. Minimize downtime during the migration of DB1 and DB2.

Requirements. Security Requirements

ADatum identifies the following security requirements for after the migration:

- Ensure that only designated developers who use Microsoft Entra joined Windows 11 devices can access DB1 and DB2 remotely. • Ensure that all changes to DB3, including ones within individual transactions, are audited and recorded.

ADatum identifies the following post-migration management requirements:

Requirements. Management Requirements

Continue using Extended Events to monitor DB3.

- In Azure SQL Database, automate the management of DB3 by using elastic jobs that have database-scoped credentials.
- Requirements. Business Requirements

ADatum identifies the following business requirements:

Minimize costs whenever possible, without affecting other requirements.

- · Minimize administrative effort.

availability requirements.

You need to recommend a solution to ensure that the performance of DB3 is optimized after the migration to Azure SQL Database. The solution must meet

- What should you include in the recommendation?
 - B. a custom resource pool

A. vertical scaling

D. horizontal scaling

C. Resource Governor

Q

Actual exam question from Microsoft's DP-300

Question #: 61

Topic #: 3

[All DP-300 Questions]

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- Deploy an Azure SQL managed instance named Instance1 to Network1.
 Migrate DR1 and DR2 to Instance1.
- Migrate DB1 and DB2 to Instance1.
 Migrate DB3 to Azuro SQL Databas
- Migrate DB3 to Azure SQL Database.
 Following the migration of DB1 and D
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ADatum identifies the following post-migration management requirements:

Requirements. Management Requirements

Continue using Extended Events to monitor DB3.

- In Azure SQL Database, automate the management of DB3 by using elastic jobs that have database-scoped credentials.
- Requirements. Business Requirements

ADatum identifies the following business requirements:

- Minimize costs whenever possible, without affecting other requirements.
 Minimize administrative effort.

You need to identify the event_file target for monitoring DB3 after the migration to Azure SQL Database. The solution must meet the management requirements.

- What should you use as the event_file target?
- B. an Azure SQL database

A. a SQL Server filegroup

- C. an Azure Files share
- D. an Azure Blob Storage container

FORUM

Q

Actual exam question from Microsoft's DP-300

Question #: 1

Topic #: 4

[All DP-300 Questions]

You have SQL Server on an Azure virtual machine that contains a database named DB1.

You have an application that queries DB1 to generate a sales report.

You need to see the parameter values from the last time the query was executed.

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

NOTE: Each correct selection is worth one point.

- A. Enable Last_Query_Plan_Stats in the master database
- B. Enable Lightweight_Query_Profiling in DB1
- C. Enable Last_Query_Plan_Stats in DB1
- D. Enable Lightweight_Query_Profiling in the master database
- E. Enable PARAMETER_SNIFFING in DB1

Show Suggested Answer

Question #: 2

Topic #: 4

[All DP-300 Questions]

HOTSPOT -

You have SQL Server on an Azure virtual machine that contains a database named Db1.

You need to enable automatic tuning for Db1.

How should you complete the statements? To answer, select the appropriate answer in the answer area.

NOTE: Each correct selection is worth one point.

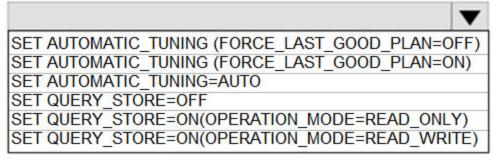
Hot Area:

Answer Area

ALTER DATABASE [Db1]

SET AUTOMATIC_TUNING (FORCE_LAST_GOOD_PLAN=OFF)
SET AUTOMATIC_TUNING (FORCE_LAST_GOOD_PLAN=ON)
SET AUTOMATIC_TUNING=AUTO
SET QUERY_STORE=OFF
SET QUERY_STORE=ON(OPERATION_MODE=READ_ONLY)
SET QUERY_STORE=ON(OPERATION_MODE=READ_WRITE)

GO ALTER DATABASE [Db1]



GO

Question #: 4

Topic #: 4

[All DP-300 Questions]

You have an Azure SQL database.

You discover that the plan cache is full of compiled plans that were used only once.

You run the select * from sys.database_scoped_configurations Transact-SQL command and receive the results shown in the following table.

configuration_id	name	value	is_value_default
1	LEGACY_CARDINALITY_ESTIMATION	0	1
2	QUERY_OPTIMIZER_HOTFIXES	0	1
3	OPTIMIZE_FOR_AD_HOC_WORKLOADS	0	1
4	ACCELERATED_PLAN_FORCING	1	1

You need relieve the memory pressure.

What should you configure?

- A. LEGACY_CARDINALITY_ESTIMATION
- B. QUERY_OPTIMIZER_HOTFIXES
- C. OPTIMIZE_FOR_AD_HOC_WORKLOADS
- D. ACCELERATED_PLAN_FORCING

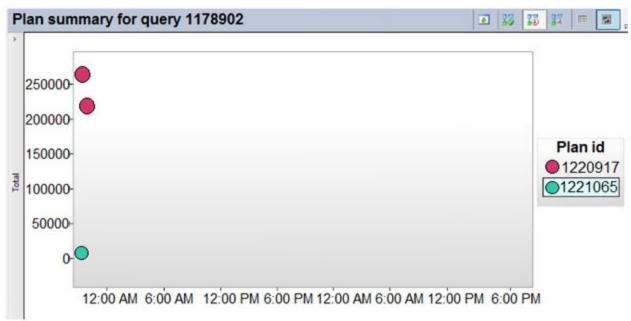
Question #: 5

Topic #: 4

[All DP-300 Questions]

You have SQL Server on an Azure virtual machine that contains a database named DB1.

You view a plan summary that shows the duration in milliseconds of each execution of query 1178902 as shown in the following exhibit:



What should you do to ensure that the query uses the execution plan which executes in the least amount of time?

- A. Force the query execution plan for plan 1221065.
- B. Run the DBCC FREEPROCCACHE command.
- C. Force the query execution plan for plan 1220917.
- D. Disable parameter sniffing.

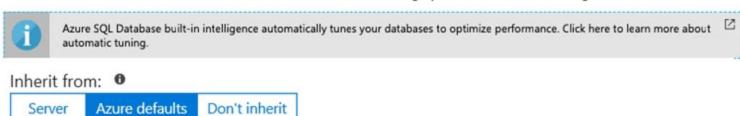
Question #: 6

Topic #: 4

[All DP-300 Questions]

HOTSPOT -

You have an Azure SQL database named DB1. The automatic tuning options for DB1 are configured as shown in the following exhibit.



The database is inheriting automatic tuning configuration from Azure defaults.

Configure the automatic tuning options 0

	OPTION	DESIRED STATE	CURRENT STATE
AD	FORCE PLAN	ON OFF INHERIT	ON Auto-configured by Azure
	CREATE INDEX	ON OFF INHERIT	ON Auto-configured by Azure
	DROP INDEX	ON OFF INHERIT	ON Forced by user

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Nonclustered indexes will be added to tables to improve performance.	0	0
Columns will be added to existing indexes automatically.	0	0
The query execution plan will revert to a previous plan if query performance degrades.	0	0

Question #: 9

Topic #: 4

[All DP-300 Questions]

You have an Azure SQL database. The database contains a table that uses a columnstore index and is accessed infrequently.

You enable columnstore archival compression.

What are two possible results of the configuration? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Queries that use the index will consume more disk I/O.
- B. Queries that use the index will retrieve fewer data pages.
- C. The index will consume more disk space.
- D. The index will consume more memory.
- E. Queries that use the index will consume more CPU resources.

Show Suggested Answer

^

FORUM

IA C AA

Actual exam question from Microsoft's DP-300

Question #: 11

Topic #: 4

[All DP-300 Questions]

You are designing a star schema for a dataset that contains records of online orders. Each record includes an order date, an order due date, and an order ship date. You need to ensure that the design provides the fastest query times of the records when querying for arbitrary date ranges and aggregating by fiscal calendar attributes.

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

NOTE: Each correct selection is worth one point.

- A. Create a date dimension table that has a DateTime key.
- B. Create a date dimension table that has an integer key in the format of YYYYMMDD.
- C. Use built-in SQL functions to extract date attributes.
- D. Use integer columns for the date fields.
- E. Use DateTime columns for the date fields.

Show Suggested Answer

^

Actual exam question from Microsoft's DP-300

Question #: 12

Topic #: 4

[All DP-300 Questions]

HOTSPOT -

You are designing an enterprise data warehouse in Azure Synapse Analytics that will store website traffic analytics in a star schema.

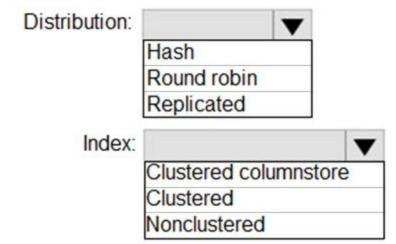
You plan to have a fact table for website visits. The table will be approximately 5 GB.

You need to recommend which distribution type and index type to use for the table. The solution must provide the fastest query performance.

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

NOTE: Each correct selection is worth one point.

Hot Area:



IAC AA

FORUM

Actual exam question from Microsoft's DP-300

Question #: 13

Topic #: 4

[All DP-300 Questions]

You have an Azure Data Factory pipeline that is triggered hourly.

The pipeline has had 100% success for the past seven days.

The pipeline execution fails, and two retries that occur 15 minutes apart also fail. The third failure returns the following error.

ErrorCode=UserErrorFileNotFound,

'Type=Microsoft.DataTransfer.Common.Shared.HybridDeliveryException,Message=ADLS

Gen2 operation failed for: Operation returned an invalid status code

'NotFound'. Account: 'contosoproduksouth' FileSystem: wwi.Path:

'BIKES/CARBON/year=2021/month=01/day=10/hour=06'. ErrorCode:

'PathNotFound'.Message: 'The specified path does not exist.'. RequestId:

'6d269b78-901f-001b-4924-e7a7bc000000'. TimeStamp: 'Sun, 10 Jan 2021 07:45:05

What is a possible cause of the error?

- A. From 06:00 to 07:00 on January 10, 2021, there was no data in wwi/BIKES/CARBON.
- B. The parameter used to generate year=2021/month=01/day=10/hour=06 was incorrect.
- C. From 06:00 to 07:00 on January 10, 2021, the file format of data in wwi/BIKES/CARBON was incorrect.
- D. The pipeline was triggered too early.

Actual exam question from Microsoft's DP-300

Question #: 14

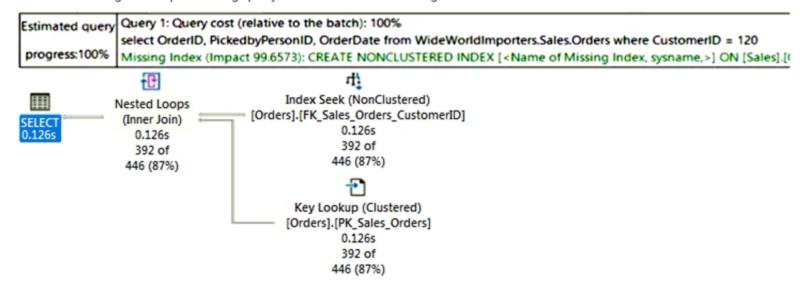
Topic #: 4

[All DP-300 Questions]

HOTSPOT -

You have an Azure SQL database

You are reviewing a slow performing query as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

The exhibit shows [answer choice].

an actual execution plan an estimated execution plan Live Query Statistics

The [answer choice] operator in the execution plan indicates that the query would benefit from performance tuning.

Index Seek

Key Lookup

Nested Loops

Q

IACAA

Actual exam question from Microsoft's DP-300

Question #: 16

Topic #: 4

[All DP-300 Questions]

HOTSPOT -

You have an Azure SQL database named db1 on a server named server1.

You use Query Performance Insight to monitor db1.

You need to modify the Query Store configuration to ensure that performance monitoring data is available as soon as possible.

Which configuration setting should you modify and which value should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configuration setting:

DATA_FLUSH_INTERVAL_SECONDS
INTERVAL_LENGTH_MINUTES
MAX_PLANS_PER_QUERY
QUERY_CAPTURE_MODE

Value:

1
60
CUSTOM
ON

Q

Actual exam question from Microsoft's DP-300

Question #: 19

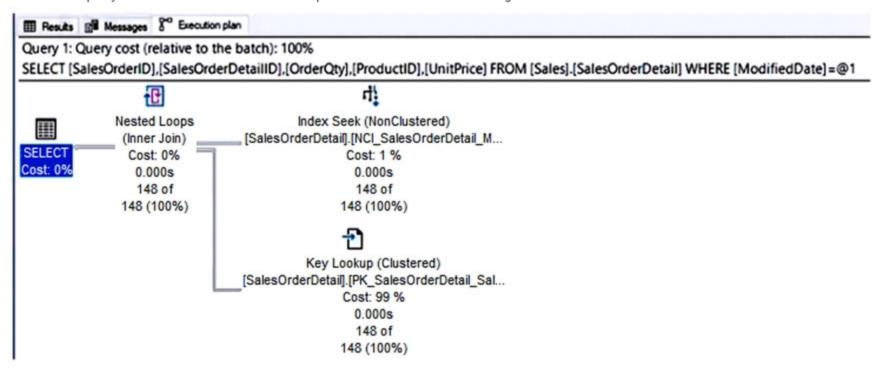
Topic #: 4

[All DP-300 Questions]

HOTSPOT -

You have an Azure SQL database.

You have a query and the associated execution plan as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

The performance issue stems from the **[answer choice]** operator.

Select
Index Seek
Key Lookup
Nested Loops

The performance issue can be resolved by adding include columns to the **[answer choice]**.

heap
clustered index
nonclustered index
nonclustered index

INC W

Q

Actual exam question from Microsoft's DP-300

Question #: 21

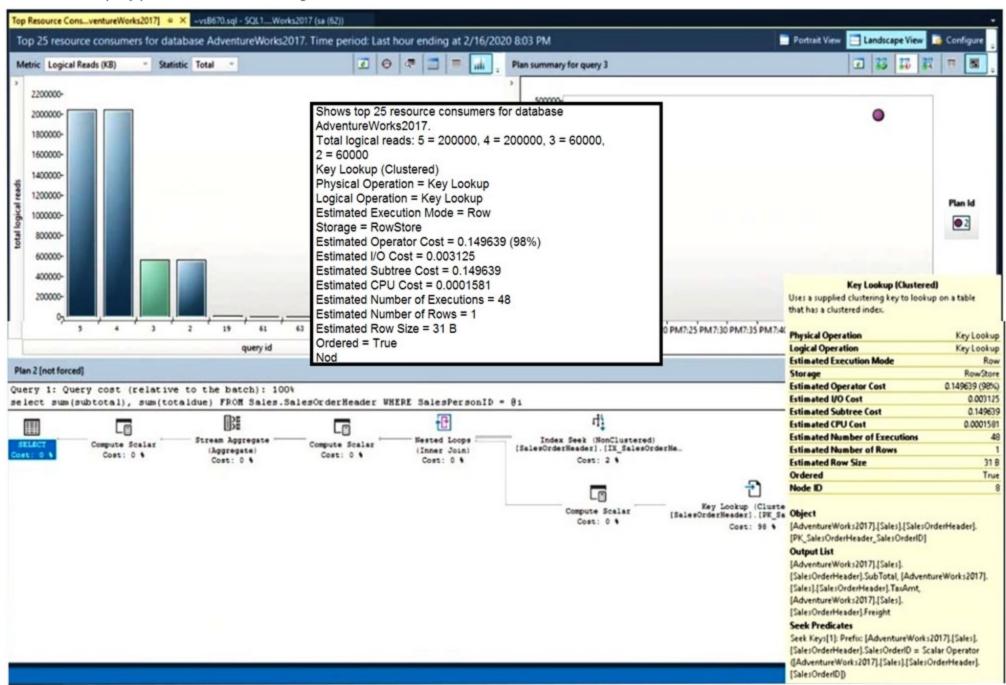
Topic #: 4

[All DP-300 Questions]

HOTSPOT -

You have SQL Server on an Azure virtual machine

You review the query plan shown in the following exhibit.



For each of the following statements, select yes if the statement is true. Otherwise, select no.

NOTE: Each correct selection is worth one point.

Hot Area:

Statements		No
You will reduce the I/O usage and the query execution time if you force the query plan.	0	0
You will increase the I/O usage and the query execution time if you create a new index on the SalesOrderHeader table.	0	0
You will reduce the I/O usage and the query execution time if you include the SubTotal, TaxAmt, and Freight columns in the PK_SalesOrderHeader_SalesOrderID index.	0	0

Actual exam question from Microsoft's DP-300

Question #: 22

Topic #: 4

[All DP-300 Questions]

A data engineer creates a table to store employee information for a new application. All employee names are in the US English alphabet. All addresses are locations in the United States. The data engineer uses the following statement to create the table.

```
CREATE TABLE dbo.Employee
```

```
INT IDENTITY(1,1) PRIMARY KEY CLUSTERED NOT NULL,
EmployeeID
FirstName
                 VARCHAR(100) NOT NULL,
LastName
                 VARCHAR(100) NOT NULL,
                 VARCHAR(100) NULL,
Title
LastHireDate
                 DATETIME NULL.
StreetAddress1
                 VARCHAR(500) NOT NULL,
                 VARCHAR(500) NOT NULL,
StreetAddress2
StreetAddress3
                 VARCHAR(500) NOT NULL,
City
                 VARCHAR(200) NOT NULL,
                 VARCHAR(20) NOT NULL,
StateName
                 VARCHAR(20) NULL,
Salary
                 VARCHAR(20) NOT NULL
PhoneNumber
```

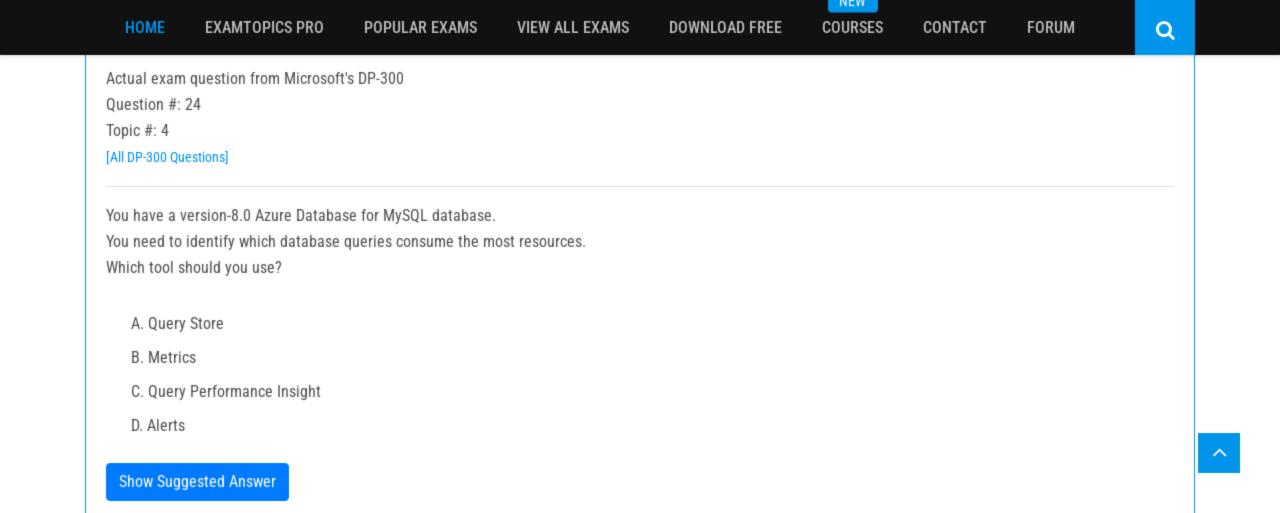
You need to recommend changes to the data types to reduce storage and improve performance.

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

NOTE: Each correct selection is worth one point.

- A. Change Salary to the money data type.
- B. Change Phone Number to the float data type.
- C. Change LastHireDate to the datetime2(7) data type.
- D. Change PhoneNumber to the bigint data type.
- E. Change LastHireDate to the date data type.

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Actual exam question from Microsoft's DP-300

Question #: 25

Topic #: 4

[All DP-300 Questions]

You have an Azure subscription that contains an Azure SQL database. The database contains a table named table 1.

You execute the following Transact-SQL statements.

```
CREATE CLUSTERED INDEX PK_index1 ON [dbo].[table1] ([Column1])
CREATE NONCLUSTERED INDEX [NCI_index2] ON [dbo].[table1] ([Column1]) ASC
```

You need to reduce the time it takes to perform analytic queries on the database.

Which configuration should you enable?

- A. ROW_MODE_MEMORY_GRANT_FEEDBACK
- B. BATCH_MODE_MEMORY_GRANT_FEEDBACK
- C. BATCH_MODE_ADAPTIVE_JOINS
- D. BATCH_MODE_ON_ROWSTORE

Actual exam question from Microsoft's DP-300

Question #: 26

Topic #: 4

[All DP-300 Questions]

DRAG DROP

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You create a new Azure SQL managed instance named SQL1 and enable Database Mail extended stored procedures.

You need to ensure that SQL Server Agent jobs running on SQL1 can notify administrators when a failure occurs.

Which three actions should you perform 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 Answer Area

Create a Database Mail account.

Create a profile named
AzureManagedInstance dbmail profile.

Create a profile named application_dbmail_profile.

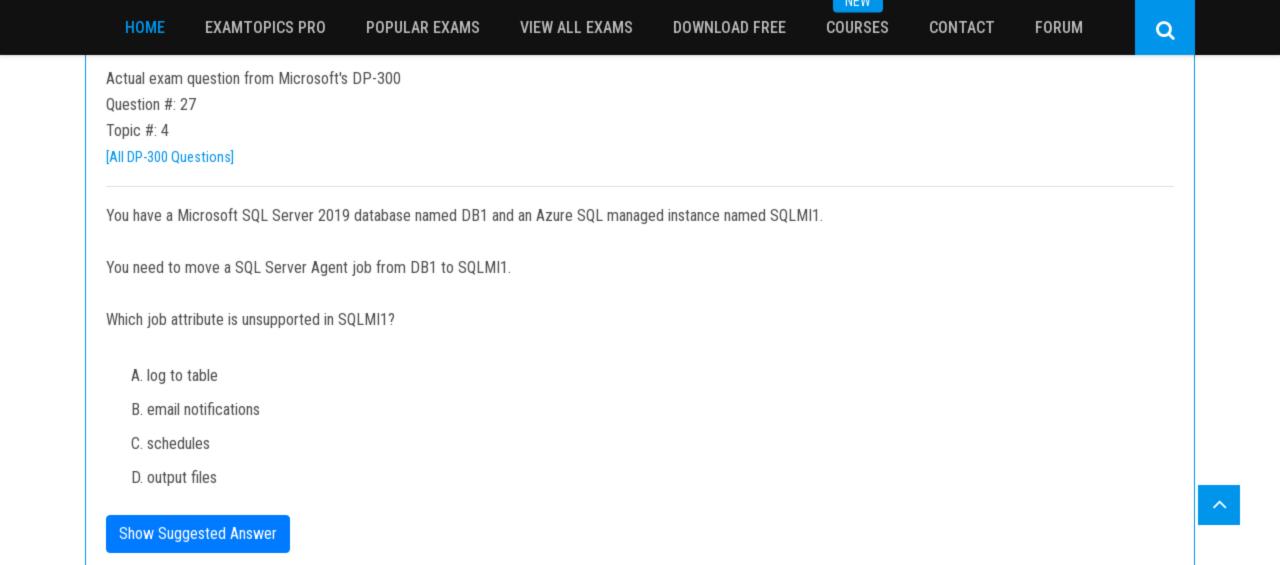
Enable email notifications upon failure.

Enable pager notifications upon failure.





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Actual exam question from Microsoft's DP-300

Question #: 28

Topic #: 4

[All DP-300 Questions]

DRAG DROP

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You create an Azure SQL managed instance and a job that performs backups.

You need to configure the job to notify a distribution group by email when the job fails. The solution must minimize administrative effort.

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

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Actions Commands Cmdlets Statements

Answer Area

Configure Database Mail.
Configure a job notification.
Configure an alert.
Configure SendGrid.
Create an operator.





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Actual exam question from Microsoft's DP-300

Question #: 1

Topic #: 5

[All DP-300 Questions]

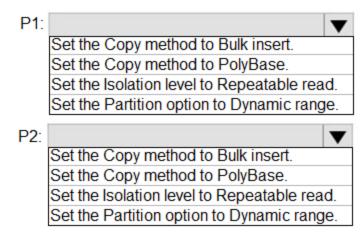
HOTSPOT -

You have an Azure Data Factory instance named ADF1 and two Azure Synapse Analytics workspaces named WS1 and WS2.

ADF1 contains the following pipelines:

- P1: Uses a copy activity to copy data from a nonpartitioned table in a dedicated SQL pool of WS1 to an Azure Data Lake Storage Gen2 account
- P2: Uses a copy activity to copy data from text-delimited files in an Azure Data Lake Storage Gen2 account to a nonpartitioned table in a dedicated SQL pool of WS2 You need to configure P1 and P2 to maximize parallelism and performance.

Which dataset settings should you configure for the copy activity of each pipeline? To answer, select the appropriate options in the answer area. Hot Area:



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Actual exam question from Microsoft's DP-300

Question #: 2

Topic #: 5

[All DP-300 Questions]

You have the following Azure Data Factory pipelines:

⇒ Ingest Data from System1

Ingest Data from System2 -

- Populate Dimensions
- □ Populate Facts

Ingest Data from System1 and Ingest Data from System2 have no dependencies. Populate Dimensions must execute after Ingest Data from System1 and Ingest Data from System 2. Populate Facts must execute after the Populate Dimensions pipeline. All the pipelines must execute every eight hours.

What should you do to schedule the pipelines for execution?

- A. Add a schedule trigger to all four pipelines.
- B. Add an event trigger to all four pipelines.
- C. Create a parent pipeline that contains the four pipelines and use an event trigger.
- D. Create a parent pipeline that contains the four pipelines and use a schedule trigger.

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Actual exam question from Microsoft's DP-300

Question #: 3

Topic #: 5

[All DP-300 Questions]

You have an Azure Data Factory pipeline that performs an incremental load of source data to an Azure Data Lake Storage Gen2 account.

Data to be loaded is identified by a column named LastUpdatedDate in the source table.

You plan to execute the pipeline every four hours.

You need to ensure that the pipeline execution meets the following requirements:

- Automatically retries the execution when the pipeline run fails due to concurrency or throttling limits.
- Supports backfilling existing data in the table.

Which type of trigger should you use?

- A. tumbling window
- B. on-demand
- C. event
- D. schedule

Question #: 4

Topic #: 5

[All DP-300 Questions]

You have an Azure Data Factory that contains 10 pipelines.

You need to label each pipeline with its main purpose of either ingest, transform, or load. The labels must be available for grouping and filtering when using the monitoring experience in Data Factory.

What should you add to each pipeline?

- A. an annotation
- B. a resource tag
- C. a run group ID
- D. a user property
- E. a correlation ID

Actual exam question from Microsoft's DP-300

Question #: 5

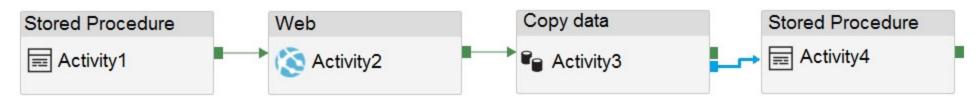
Topic #: 5

[All DP-300 Questions]

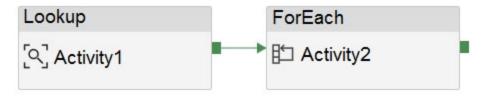
HOTSPOT -

You have an Azure data factory that has two pipelines named PipelineA and PipelineB.

PipelineA has four activities as shown in the following exhibit.



PipelineB has two activities as shown in the following exhibit.



You create an alert for the data factory that uses Failed pipeline runs metrics for both pipelines and all failure types. The metric has the following settings:

- → Operator: Greater than
- → Aggregation type: Total
- → Threshold value: 2
- Aggregation granularity (Period): 5 minutes
- ⇒ Frequency of evaluation: Every 5 minutes

Data Factory monitoring records the failures shown in the following table.

Pipeline	Activity	Time
PipelineA	Activity1	31-Jan-2020 10:44:00
PipelineA	Activity3	31-Jan-2020 10:47:00
PipelineB	Activity1	31-Jan-2020 10:50:00

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Statements	Yes	No
An alert notification was sent after the failure of Activity1 in Pipeli	neA. O	0
An alert notification was sent after the failure of Activity3 in Pipeli	neA. O	0
An alert notification was sent after the failure of Activity1 in Pipeli	neB. O	0

Actual exam question from Microsoft's DP-300

Question #: 6

Topic #: 5

[All DP-300 Questions]

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.

You have an Azure Data Lake Storage account that contains a staging zone.

You need to design a daily process to ingest incremental data from the staging zone, transform the data by executing an R script, and then insert the transformed data into a data warehouse in Azure Synapse Analytics.

Solution: You use an Azure Data Factory schedule trigger to execute a pipeline that executes mapping data flow, and then inserts the data into the data warehouse.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

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Actual exam question from Microsoft's DP-300

Question #: 7

Topic #: 5

[All DP-300 Questions]

Note: This guestion is part of a series of guestions that present the same scenario. Each guestion 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.

You have an Azure Data Lake Storage account that contains a staging zone.

You need to design a daily process to ingest incremental data from the staging zone, transform the data by executing an R script, and then insert the transformed data into a data warehouse in Azure Synapse Analytics.

Solution: You schedule an Azure Databricks job that executes an R notebook, and then inserts the data into the data warehouse.

Does this meet the goal?

A. Yes

B. No

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Actual exam question from Microsoft's DP-300

Question #: 8

Topic #: 5

[All DP-300 Questions]

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.

You have an Azure Data Lake Storage account that contains a staging zone.

You need to design a daily process to ingest incremental data from the staging zone, transform the data by executing an R script, and then insert the transformed data into a data warehouse in Azure Synapse Analytics.

Solution: You use an Azure Data Factory schedule trigger to execute a pipeline that executes an Azure Databricks notebook, and then inserts the data into the data warehouse.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

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Actual exam question from Microsoft's DP-300

Question #: 9

Topic #: 5

[All DP-300 Questions]

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.

You have an Azure Data Lake Storage account that contains a staging zone.

You need to design a daily process to ingest incremental data from the staging zone, transform the data by executing an R script, and then insert the transformed data into a data warehouse in Azure Synapse Analytics.

Solution: You use an Azure Data Factory schedule trigger to execute a pipeline that copies the data to a staging table in the data warehouse, and then uses a stored procedure to execute the R script.

Does this meet the goal?

- A. Yes
- B. No

Actual exam question from Microsoft's DP-300

Question #: 10

Topic #: 5

[All DP-300 Questions]

DRAG DROP -

You have an Azure subscription that contains an Azure SQL managed instance named SQLMi1 and a SQL Agent job named Backupdb. Backupdb performs a daily backup of the databases hosted on SQLMi1.

You need to be notified by email if the job fails.

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

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select. Select and Place:

Actions

Create a SQL Server Agent alert.

Create an operator.

Create an extended event.

Enable Database Mail.

Add a failure notification to the job.

Answer Area





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Actual exam question from Microsoft's DP-300

Question #: 11

Topic #: 5

[All DP-300 Questions]

DRAG DROP -

You have SQL Server on an Azure virtual machine.

You need to use Policy-Based Management in Microsoft SQL Server to identify stored procedures that do not comply with your naming conventions.

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

Select and Place:

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Export a built-in policy.

Create a custom policy based on a condition.

Create a custom condition based on a built-in facet.

View the policy history.

Import a policy file.

Run a policy evaluation.







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You have an Azure SQL managed instance named SQLMI1 that hosts 10 databases.

You need to implement alerts by using Azure Monitor. The solution must meet the following requirements:

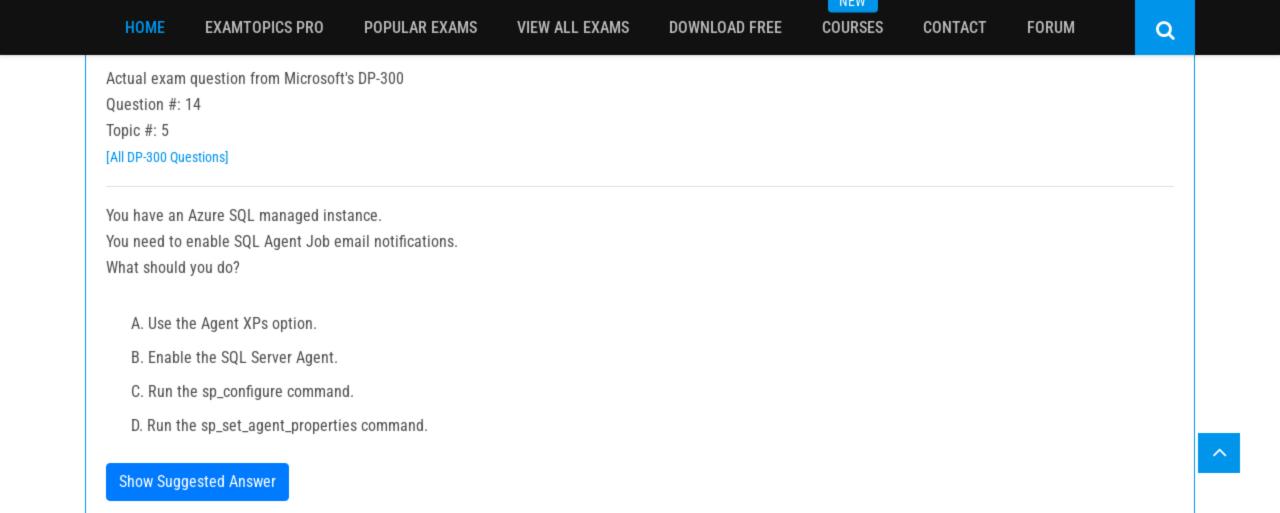
➡ Minimize costs.

[All DP-300 Questions]

Aggregate Intelligent Insights telemetry from each database.

What should you do?

- A. From the Diagnostic settings of each database, select Send to Log Analytics.
- B. From the Diagnostic settings of each database, select Stream to an event hub.
- C. From the Diagnostic settings of SQLMI1, select Send to Log Analytics.
- D. From the Diagnostic settings of SQLMI1, select Stream to an event hub.



Actual exam question from Microsoft's DP-300

Question #: 16

Topic #: 5

[All DP-300 Questions]

DRAG DROP -

You have SQL Server on an Azure virtual machine named SQL1.

SQL1 has an agent job to back up all databases.

You add a user named dbadmin1 as a SQL Server Agent operator.

You need to ensure that dbadmin1 receives an email alert if a job fails.

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

Select and Place:

Answer Area Actions

Create a job alert

Create a job notification

Enable Database Mail

Enable the email settings for the SQL Server Agent



Create a job target



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Actual exam question from Microsoft's DP-300

Question #: 17

Topic #: 5

[All DP-300 Questions]

DRAG DROP -

You need to apply 20 built-in Azure Policy definitions to all new and existing Azure SQL Database deployments in an Azure subscription. The solution must minimize administrative effort.

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

Select and Place:



Duplicate Azure Policy definitions

Run Azure Policy remediation tasks

Create an Azure Blueprints assignment



Create an Azure Policy initiative



Create an Azure Policy initiative assignment



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