



## Microsoft

### Exam Questions DP-300

Administering Relational Databases on Microsoft Azure (beta)

**NEW QUESTION 1**

- (Exam Topic 5)

You have an Azure Data Lake Storage Gen2 account named account1 that stores logs as shown in the following table.

Type	Designated retention period
Application	360 days
Infrastructure	60 days

You do not expect that the logs will be accessed during the retention periods.

You need to recommend a solution for account1 that meets the following requirements:

- > Automatically deletes the logs at the end of each retention period
- > Minimizes storage costs

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.

To minimize storage costs:

Store the infrastructure logs and the application logs in the Archive access tier.

Store the infrastructure logs and the application logs in the Cool access tier.

Store the infrastructure logs in the Cool access tier and the application logs in the Archive access tier.

To delete the logs automatically:

Azure Data Factory pipelines

Azure Blob storage lifecycle management rules

Immutable Azure Blob storage time-based retention policies

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

A picture containing text Description automatically generated

Box 1: Store the infrastructure logs in the Cool access tier the application logs in the Archive access tier Hot - Optimized for storing data that is accessed frequently.

Cool - Optimized for storing data that is infrequently accessed and stored for at least 30 days.

Archive - Optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements, on the order of hours.

Box 2: Azure Blob storage lifecycle management rules

Blob storage lifecycle management offers a rich, rule-based policy that you can use to transition your data to the best access tier and to expire data at the end of its lifecycle.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

**NEW QUESTION 2**

- (Exam Topic 5)

You have an Azure SQL database.

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

You run theselect \* from sys.database\_scoped\_configurationsTransact-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

**Answer:** C

**Explanation:**

OPTIMIZE\_FOR\_AD\_HOC\_WORKLOADS = { ON | OFF }

Enables or disables a compiled plan stub to be stored in cache when a batch is compiled for the first time. The default is OFF. Once the database scoped configuration OPTIMIZE\_FOR\_AD\_HOC\_WORKLOADS is enabled for a database, a compiled plan stub will be stored in cache when a batch is compiled for the first time. Plan stubs have a smaller memory footprint compared to the size of the full compiled plan.

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/alter-database-scoped-configuration-transact-sql>

**NEW QUESTION 3**

- (Exam Topic 5)

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 SQL 1 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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**NEW QUESTION 4**

- (Exam Topic 5)

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
package0. event_file
package0. event_stream
package0. ring_buffer
)
SET filename = 'https://gmstorageaccountxevent.blob.core.windows.net/gmcontainerxevent/anyfilenamexel242b.xel'
)
WITH
(MAX_MEMORY = 10 MB,
EVENT_RETENTION_MODE=
MAX_DISPATCH_LATENCY = 3 SEC
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
**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 SE
```

**NEW QUESTION 5**

- (Exam Topic 5)

You are designing an anomaly detection solution for streaming data from an Azure IoT hub. The solution must meet the following requirements:

- > Send the output to an Azure Synapse.
- > Identify spikes and dips in time series data.
- > Minimize development and configuration effort.

Which should you include in the solution?

- A. Azure SQL Database
- B. Azure Databricks
- C. Azure Stream Analytics

**Answer:** C

**Explanation:**

Anomalies can be identified by routing data via IoT Hub to a built-in ML model in Azure Stream Analytics Reference:  
<https://docs.microsoft.com/en-us/learn/modules/data-anomaly-detection-using-azure-iot-hub/> <https://docs.microsoft.com/en-us/azure/stream-analytics/azure-synapse-analytics-output>

**NEW QUESTION 6**

- (Exam Topic 5)

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.

## Answer Area

Backup type:

Backup option:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Full and log backups only

Make sure to take every backup on a separate backup media (backup files). Azure Database Migration Service doesn't support backups that are appended to a single backup file. Take full backup and log backups to separate backup files.

Box 2: WITH CHECKSUM

Azure Database Migration Service uses the backup and restore method to migrate your on-premises databases to SQL Managed Instance. Azure Database Migration Service only supports backups created using checksum.

Reference:

<https://docs.microsoft.com/en-us/azure/dms/known-issues-azure-sql-db-managed-instance-online>

**NEW QUESTION 7**

- (Exam Topic 5)

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

The Intelligent Insights diagnostics log identifies that several tables are missing indexes. You need to ensure that indexes are created for the tables.

What should you do?

- A. Run the DBCC SQLPERF command.
- B. Run the dbcc dbreindex command.
- C. Modify the automatic tuning settings for db1.
- D. Modify the Query Store settings for db1.

**Answer:** C

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/automatic-tuning-overview>

**NEW QUESTION 8**

- (Exam Topic 5)

You have an on-premises multi-tier application named App1 that includes a web tier, an application tier, and a Microsoft SQL Server tier. All the tiers run on Hyper-V virtual machines.

Your new disaster recovery plan requires that all business-critical applications can be recovered to Azure. You need to recommend a solution to fail over the database tier of App1 to Azure. The solution must provide the ability to test failover to Azure without affecting the current environment.

What should you include in the recommendation?

- A. Azure Backup
- B. Azure Information Protection
- C. Windows Server Failover Cluster
- D. Azure Site Recovery

**Answer:** D

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-test-failover-to-azure>

**NEW QUESTION 9**

- (Exam Topic 5)

You have an Azure SQL Database server named sqlsrv1 that hosts 10 Azure SQL databases. The databases perform slower than expected.

You need to identify whether the performance issue relates to the use of tempdb on sqlsrv1. What should you do?

- A. Run Query Store-based queries
- B. Review information provided by SQL Server Profiler-based traces
- C. Review information provided by Query Performance Insight

D. Run dynamic management view-based queries

**Answer:** D

**Explanation:**

The diagnostics log outputs tempDB contention details. You can use the information as the starting point for troubleshooting. You can use the Intelligent Insights performance diagnostics log of Azure SQL Database to troubleshoot performance issues.

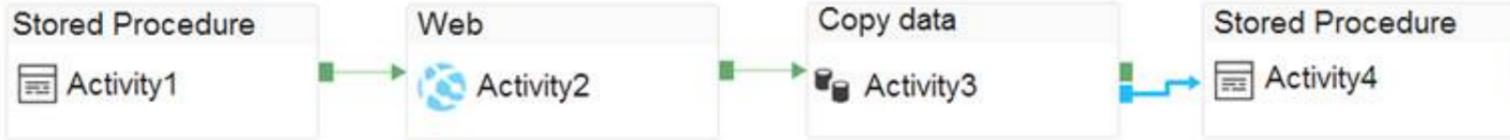
Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/intelligent-insights-troubleshoot-performance#tempdb> <https://docs.microsoft.com/en-us/azure/azure-sql/database/intelligent-insights-use-diagnostics-log>

**NEW QUESTION 10**

- (Exam Topic 5)

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.

**Statements**

**Yes**

**No**

An alert notification was sent after the failure of Activity1 in PipelineA.

An alert notification was sent after the failure of Activity3 in PipelineA.

An alert notification was sent after the failure of Activity1 in PipelineB.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Text Description automatically generated

Box 1: No

Just one failure within the 5-minute interval. Box 2: No

Just two failures within the 5-minute interval. Box 3: No

Just two failures within the 5-minute interval. Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/alerts/alerts-metric-overview>

**NEW QUESTION 10**

- (Exam Topic 5)

You are monitoring an Azure Stream Analytics job.

You discover that the Backlogged input Events metric is increasing slowly and is consistently non-zero. You need to ensure that the job can handle all the events. What should you do?

- A. Remove any named consumer groups from the connection and use \$default.
- B. Change the compatibility level of the Stream Analytics job.
- C. Create an additional output stream for the existing input stream.
- D. Increase the number of streaming units (SUs).

**Answer:** D

**Explanation:**

Backlogged Input Events: Number of input events that are backlogged. A non-zero value for this metric implies that your job isn't able to keep up with the number of incoming events. If this value is slowly increasing or consistently non-zero, you should scale out your job, by increasing the SUs.

Reference:

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-monitoring>

**NEW QUESTION 11**

- (Exam Topic 5)

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. SQLAgentReaderRole
- B. db.owner
- C. SQLAgentOperatorRole
- D. SQLAgentUserRole

**Answer:** C

**NEW QUESTION 13**

- (Exam Topic 5)

You have an Azure SQL Database managed instance. The instance starts experiencing performance issues.

You need to identify which query is causing the issue and retrieve the execution plan for the query. The solution must minimize administrative effort.

What should you use?

- A. the Azure portal
- B. Extended Events
- C. Query Store
- D. dynamic management views

**Answer:** D

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/performance/monitoring-performance-by-using-the-qu>

**NEW QUESTION 17**

- (Exam Topic 5)

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.

```

▼ applications
CREATE EXTERNAL TABLE
CREATE TABLE
CREATE VIEW
WITH (
    LOCATION = 'applications/',
    DATA_SOURCE = applications_ds,
    FILE_FORMAT = applications_file_format
)
AS
SELECT id, [address_housenumber] as addressnumber, [address_line1]
as addressline1
FROM
    (BULK 'https://contoso1.dfs.core.windows.net/
    applications/year=*/*.parquet',
    FORMAT = 'PARQUET') AS [r]
GO

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

Box 1: CREATE EXTERNAL TABLE

An external table points to data located in Hadoop, Azure Storage blob, or Azure Data Lake Storage. External tables are used to read data from files or write data to files in Azure Storage. With Synapse SQL, you can use external tables to read external data using dedicated SQL pool or serverless SQL pool.

Syntax:

CREATE EXTERNAL TABLE { database\_name.schema\_name.table\_name | schema\_name.table\_name | table\_name }

( <column\_definition> [ ,...n ] ) WITH (

LOCATION = 'folder\_or\_filepath', DATA\_SOURCE = external\_data\_source\_name, FILE\_FORMAT = external\_file\_format\_name

Box 2. OPENROWSET  
 When using serverless SQL pool, CETAS is used to create an external table and export query results to Azure Storage Blob or Azure Data Lake Storage Gen2.

Example: AS

SELECT decennialTime, stateName, SUM(population) AS population FROM

OPENROWSET(BULK

'https://azureopendatastorage.blob.core.windows.net/censusdatacontainer/release/us\_population\_county/year=/'

FORMAT='PARQUET') AS [r]

GROUP BY decennialTime, stateName GO

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-external-tables>

**NEW QUESTION 19**

- (Exam Topic 5)

You need to trigger an Azure Data Factory pipeline when a file arrives in an Azure Data Lake Storage Gen2 container.

Which resource provider should you enable?

- A. Microsoft.EventHub
- B. Microsoft.EventGrid
- C. Microsoft.Sql
- D. Microsoft.Automation

**Answer:** B

**Explanation:**

Event-driven architecture (EDA) is a common data integration pattern that involves production, detection, consumption, and reaction to events. Data integration scenarios often require Data Factory customers to trigger pipelines based on events happening in storage account, such as the arrival or deletion of a file in Azure Blob Storage account. Data Factory natively integrates with Azure Event Grid, which lets you trigger pipelines on such events.

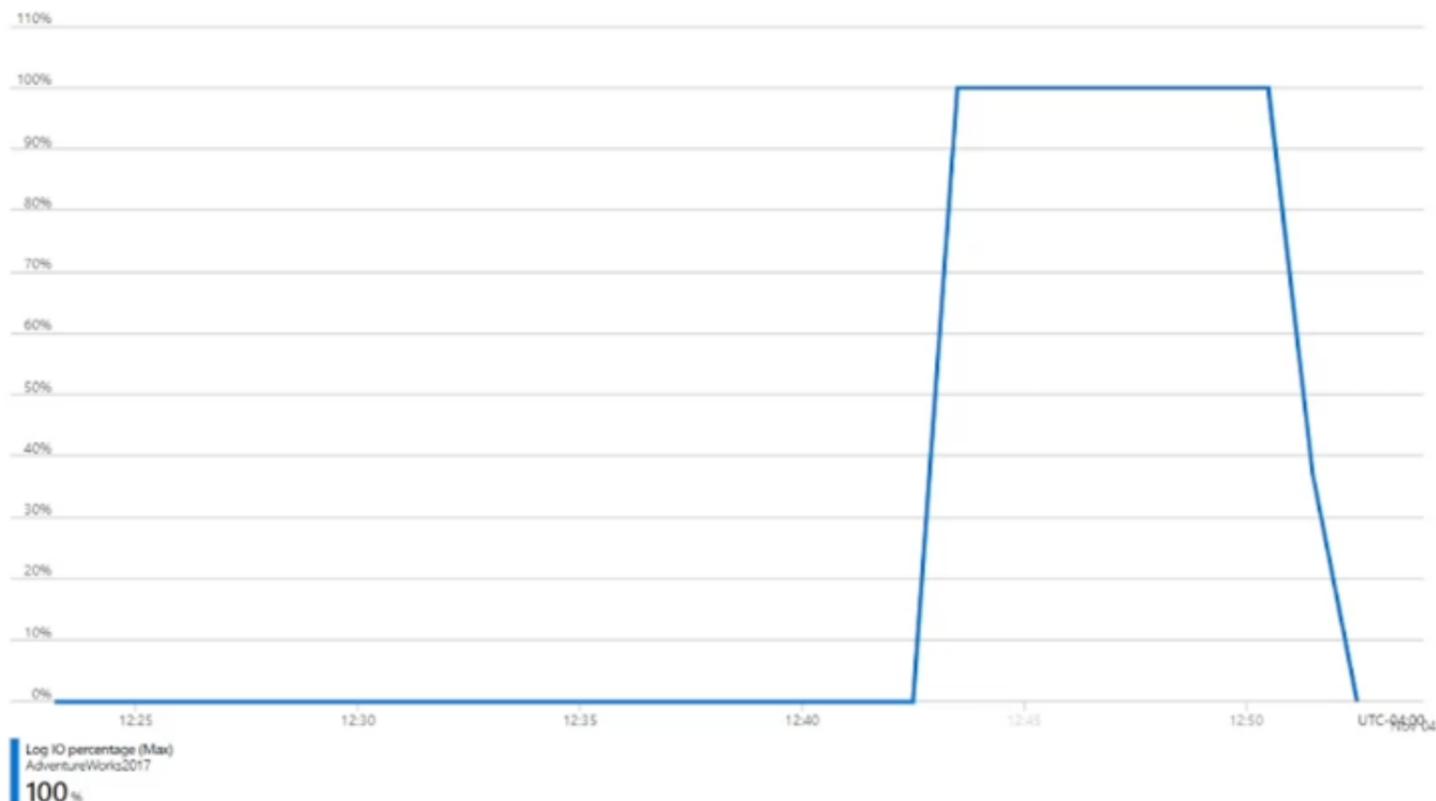
Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/how-to-create-event-trigger>

**NEW QUESTION 21**

- (Exam Topic 5)

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 10 percentage. The solution must minimize costs. What should you do?

- A. Increase the number of vCores.
- B. Change RecoverymodeltoSimple.
- C. Performcheckpoint operation.
- D. ChangeService tier toBusiness Critical.

**Answer: D**

**NEW QUESTION 26**

- (Exam Topic 5)

You plan to build a structured streaming solution in Azure Databricks. The solution will count new events in five minute intervals and report only events that arrive during the interval.

The output will be sent to a Delta Lake table. Which output mode should you use?

- A. complete
- B. append
- C. update

**Answer: A**

**Explanation:**

Complete mode: You can use Structured Streaming to replace the entire table with every batch.

Reference:

<https://docs.databricks.com/delta/delta-streaming.html>

**NEW QUESTION 30**

- (Exam Topic 5)

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.

**Actions**

**Answer Area**

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.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Set up the Active Directory Admin for AzSQL1. Step 2: Connect to DB1 by using the server administrator. Sign into your managed instance with an Azure AD login granted with the sysadmin role. Step 3: Create a user by using the FROM EXTERNAL PROVIDER clause. FROM EXTERNAL PROVIDER is available for creating server-level Azure AD logins in SQL Database managed instance. Azure AD logins allow database-level Azure AD principals to be mapped to server-level Azure AD logins. To create an Azure AD user from an Azure AD login use the following syntax: CREATE USER [AAD\_principal] FROM LOGIN [Azure AD login] Reference: <https://docs.microsoft.com/en-us/sql/t-sql/statements/create-user-transact-sql>

**NEW QUESTION 35**

- (Exam Topic 5)  
 You have an Azure SQL managed instance.  
 You need to restore a database named DB1 by using Transact-SQL.  
 Which command should you run? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

RESTORE  DB1 FROM

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Text Description automatically generated

**NEW QUESTION 39**

- (Exam Topic 5)  
 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.

Exposed Prefix:

	▼
0	
1	
3	
5	

Padding String:

	▼
X	
XXXXXX	
XXX-XXX	
XXX-XXX-	
x[3]-x[3]	

Exposed Suffix:

	▼
0	
1	
3	
5	

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: 0  
 Custom String : Masking method that exposes the first and last letters and adds a custom padding string in the middle. prefix,[padding],suffix  
 Box 2: xxx-xxx  
 Box 3: 5 Reference:  
<https://docs.microsoft.com/en-us/sql/relational-databases/security/dynamic-data-masking>

**NEW QUESTION 41**

- (Exam Topic 5)

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.

**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**



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Text Description automatically generated  
 Reference:  
<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/job-automation-managed-instance>

#### NEW QUESTION 43

- (Exam Topic 5)

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

You need to ensure that a user named User1 can configure proxy accounts for SQL Server Agent jobs. The solution must use the principle of least privilege. Which role should you assign to User1?

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

**Answer: A**

#### NEW QUESTION 48

- (Exam Topic 5)

You have An Azure SQL managed instance.

You need to configure the SQL Server Agent service to email job notifications. Which statement should you execute?

A)

```
EXECUTE msdb.dbo.sysmail_add_profile_sp @profile_name = 'sysadmin_dbmail_profile';
```

B)

```
EXECUTE msdb.dbo.sysmail_add_profile_sp @profile_name = 'application_dbmail_profile';
```

C)

```
EXECUTE msdb.dbo.sysmail_add_profile_sp @profile_name = 'AzureManagedInstance_dbmail_profile';
```

D)

```
EXECUTE msdb.dbo.sysmail_add_profile_sp @profile_name = 'sys_dbmail_profile';
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: B**

#### NEW QUESTION 49

- (Exam Topic 5)

You have an Azure subscription that contains a SQL Server on Azure Virtual Machines instance named SQLVMI. SQLVMI hosts a database named OBI.

You need to retrieve query plans from the Query Store on DB1. What should you do first?

- A. On SQLVMI1, install the SQL Server IaaS Agent extension.
- B. From Microsoft SQL Server Management Studio, modify the properties of the SQL Server instance.
- C. From Microsoft SQL Server Management Studio, modify the properties of DB 1.
- D. On SQLVMI1, install the Azure Monitor agent for Windows.

**Answer: B**

#### NEW QUESTION 52

- (Exam Topic 5)

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

The screenshot displays the 'Configure' interface for an Azure SQL database. Key elements include:

- Hardware Configuration:** Sliders for 'Max vCores' (set to 6) and 'Min vCores' (set to 0.75). A callout for 'Gen5' indicates 'up to 40 vCores, up to 120 GB memory'.
- Auto-pause delay:** A section with a radio button for 'Enable auto-pause' and a time selector set to 4 hours.
- Data max size:** A slider set to 800 GB.
- Cost summary:** A box showing 'Gen5 - General Purpose (GP\_5, Gen5\_0)' with a 'Cost per GB (in USD)' of 0.12 and an 'ESTIMATED STORAGE COST / MONTH' of 119.60 USD.

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.

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

no extra time  
 up to 10 minutes  
 up to one minute

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

intermittent and unpredictable  
 regular and high  
 steady and low

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application, email Description automatically generated  
 Reference:  
<https://docs.microsoft.com/en-us/azure/azure-sql/database/serverless-tier-overview>

**NEW QUESTION 56**

- (Exam Topic 5)

You have an Azure subscription that contains a storage account named databasebackups. You have an Azure SQL managed instance named DB1. You need to back up DB1 to databasebackups.

How should you complete the commands? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
CREATE CREDENTIAL
[https://databasebackups.blob.core.windows.net/Backups]
WITH IDENTITY = 'SHARED ACCESS SIGNATURE'
SECRET = 'sp=r&st=2023-02-02T19:23:08Z&se=2033-02-02T19:30:08Z&spr=https&sv=2021-06-08&sr=b&sig=B%2FxEYQi0C%4BqyYCeqlwHSz2QpRI%2FKcg3ZABz78J2kix3JZjk%3D'
BACKUP DATABASE DB1
TO URL =
'https://databasebackups.blob.core.windows.net/Backups/db1.bak'
WITH COPY_ONLY
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
 Answer Area

```
CREATE CREDENTIAL
[https://databasebackups.blob.core.windows.net/Backups]
WITH IDENTITY = 'SHARED ACCESS SIGNATURE'
SECRET = 'sp=r&st=2023-02-02T19:23:08Z&se=2033-02-02T19:30:08Z&spr=https&sv=2021-06-08&sr=b&sig=B%2FxEYQi0C%4BqyYCeqlwHSz2QpRI%2FKcg3ZABz78J2kix3JZjk%3D'
BACKUP DATABASE DB1
TO URL =
'https://databasebackups.blob.core.windows.net/Backups/db1.bak'
WITH COPY_ONLY
```

NEW QUESTION 59

- (Exam Topic 5)

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

**Answer:** C

**Explanation:**

A private endpoint is a network interface that uses a private IP address from your virtual network. This network interface connects you privately and securely to a service powered by Azure Private Link. By enabling a private endpoint, you're bringing the service into your virtual network.

The service could be an Azure service such as:

- > Azure Storage
- > Azure Cosmos DB
- > Azure SQL Database
- > Your own service using a Private Link Service. Reference:

<https://docs.microsoft.com/en-us/azure/private-link/private-endpoint-overview>

**NEW QUESTION 60**

- (Exam Topic 5)

You have an Azure subscription that contains 50 instances of SQL Server on Azure Virtual Machines. The instances host 500 Azure SQL databases. You need to ensure that all the databases have the same configuration. The solution must meet the following requirements:

- Auditing must be enabled.
- Azure Defender must be enabled.
- Public network access must be disabled.
- Administrative effort must be minimized.

Which two resources should you create in the subscription? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. an Azure Policy assignment
- B. an Azure Automation account
- C. an Azure Policy initiative
- D. an Azure Automation runbook
- E. an Azure Policy definition

**Answer:** CE

**NEW QUESTION 64**

- (Exam Topic 5)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some 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

**Answer:** A

**Explanation:**

If you need to transform data in a way that is not supported by Data Factory, you can create a custom activity with your own data processing logic and use the activity in the pipeline. You can create a custom activity to run R scripts on your HDInsight cluster with R installed.

Reference:

<https://docs.microsoft.com/en-US/azure/data-factory/transform-data>

**NEW QUESTION 69**

- (Exam Topic 5)

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.

**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



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Attach the SSISDB database

Step 2: Turn on the TRUSTWORTHY property and the CLR property

If you are restoring the SSISDB database to an SQL Server instance where the SSISDB catalog was never created, enable common language runtime (clr)

Step 3: Open the master key for the SSISDB database

Restore the master key by this method if you have the original password that was used to create SSISDB.

open master key decryption by password = 'LS1Setup!' --'Password used when creating SSISDB' Alter Master Key Add encryption by Service Master Key

Step 4: Encrypt a copy of the mater key by using the service master key Reference:

<https://docs.microsoft.com/en-us/sql/integration-services/backup-restore-and-move-the-ssis-catalog>

**NEW QUESTION 74**

- (Exam Topic 5)

You have SQL Server 2019 on an Azure virtual machine that runs Windows Server 2019. The virtual machine has 4 vCPUs and 28 GB of memory.

You scale up the virtual machine to 8 vCPUSs and 64 GB of memory.

You need to provide the lowest latency for tempdb.

What is the total number of data files that tempdb should contain?

- A. 2
- B. 4
- C. 8
- D. 64

**Answer:** C

**Explanation:**

The number of files depends on the number of (logical) processors on the machine. As a general rule, if the number of logical processors is less than or equal to eight, use the same number of data files as logical processors. If the number of logical processors is greater than eight, use eight data files and then if contention continues, increase the number of data files by multiples of 4 until the contention is reduced to acceptable levels or make changes to the workload/code.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/databases/tempdb-database>

**NEW QUESTION 77**

- (Exam Topic 5)

You have two Azure virtual machines named VM1 and VM2 that run Windows Server 2019. VM1 and VM2 each host a default Microsoft SQL Server 2019 instance. VM1 contains a database named DB1 that is backed up to a file named D:\DB1.bak.

You plan to deploy an Always On availability group that will have the following configurations:

- > VM1 will host the primary replica of DB1.
- > VM2 will host a secondary replica of DB1.

You need to prepare the secondary database on VM2 for the availability group.

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

▼ DATABASE MyDB1

BACKUP
CREATE
RESTORE

FROM DISK = 'D:\DB1.bak'

WITH

GO

▼
NORECOVERY
RECOVERY
STANDBY

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application, chat or text message Description automatically generated

Reference:

<https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/manually-prepare-a-secondar>

**NEW QUESTION 82**

- (Exam Topic 5)

You have an Azure SQL Database managed instance named sqldbmi1 that contains a database name Sales. You need to initiate a backup of Sales.

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.

BACKUP DATABASE Sales

▼
TO DISK = \\BackupSystem\BackupDisk1\Sales.bak'
TO DISK = 'X:\BAK\Sales.bak'
TO 'Sales_Backup'
TO URL = 'https://storage1.blob.core.windows.net/blob1/Sales.bak'

WITH STATS = 5,

▼
WITH COPY_ONLY;
WITH ENCRYPTION;
WITH FILE_SNAPSHOT;
WITH NO_TRUNCATE

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: TO URL = 'https://storage1.blob.core.windows.net/blob1/Sales.bak' Native database backup in Azure SQL Managed Instance.

You can backup any database using standard BACKUP T-SQL command: BACKUP DATABASE tpcc2501

TO URL = 'https://myacc.blob.core.windows.net/testcontainer/tpcc2501.bak'

WITH COPY\_ONLY

Box 2: WITH COPY\_ONLY

Reference:

<https://techcommunity.microsoft.com/t5/azure-sql-database/native-database-backup-in-azure-sql-managed-insta>

**NEW QUESTION 83**

- (Exam Topic 5)

You have an Azure subscription that contain an Azure SQL managed instance named SQLMI1 and a Log Analytics workspace named Workspace1.

You need to collect performance metrics for SQLMI1 and stream the metrics to Workspace1.

- A. Create the private endpoint connection on SQLMI1.
- B. Configure Azure SQL Analytics to use Workspace1.
- C. Modify the Computer + storage settings for SQLMI1.

D. Modify the diagnostic settings for SQLMI1.

**Answer:** B

**NEW QUESTION 87**

- (Exam Topic 5)

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. EnableLast\_Query\_Plan\_Stats in the master database
- B. EnableLightweight\_Query\_Profiling in DB1
- C. EnableLast\_Query\_Plan\_Stats in DB1
- D. EnableLightweight\_Query\_Profiling in the master database
- E. EnablePARAMETER\_SNIFFING in DB1

**Answer:** AC

**Explanation:**

Last\_Query\_Plan\_Stats allows you to enable or disable collection of the last query plan statistics (equivalent to an actual execution plan) in sys.dm\_exec\_query\_plan\_stats.

Lightweight profiling can be disabled at the database level using the LIGHTWEIGHT\_QUERY\_PROFILING database scoped configuration: ALTER DATABASE SCOPED CONFIGURATION SET LIGHTWEIGHT\_QUERY\_PROFILING = OFF;

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/performance/query-profiling-infrastructure>

**NEW QUESTION 90**

- (Exam Topic 5)

You have a Microsoft SQL Server 2019 database named DB1 and an Azure SQL managed instance named SQLMI1. You need to move a SQL Server Agent job from DB1 to SQLMI1. Which job attribute is unsupported in SQLMI1?

- A. log to table
- B. email notifications
- C. schedules
- D. output files

**Answer:** D

**NEW QUESTION 95**

- (Exam Topic 5)

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**

MSX:

	▼
SQL database SQL managed instances SQL virtual machines	

TSX:

	▼
SQL database SQL managed instances SQL virtual machines	

- A. Mastered
- B. Not Mastered

**Answer:** A

Explanation:

## Answer Area

MSX:  ▼

- SQL database
- SQL managed instances
- SQL virtual machines

TSX:  ▼

- SQL database
- SQL managed instances
- SQL virtual machines

### NEW QUESTION 98

- (Exam Topic 5)

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

The Intelligent Insights diagnostics log identifies queries that cause performance issues due to tempDB contention.

You need to resolve the performance issues. What should you do?

- A. Implement memory-optimized tables.
- B. Run the dbcc flushprocindbcommand.
- C. Replace the sequential index keys with nonsequential keys.
- D. Run the dbcc dbreindexcommand.

Answer: A

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/intelligent-insights-troubleshoot-performance#tempdb>

### NEW QUESTION 102

- (Exam Topic 5)

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 Pool1.

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.

MFA:  ▼

- Azure AD authentication
- Microsoft SQL Server authentication
- Passwordless authentication
- Windows authentication

Database-level authentication:  ▼

- Application roles
- Contained database users
- Database roles
- Microsoft SQL Server logins

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application, chat or text message Description automatically generated

Box 1: Azure AD authentication

Azure Active Directory authentication supports Multi-Factor authentication through Active Directory Universal Authentication.

Box 2: Contained database users

Azure Active Directory Uses contained database users to authenticate identities at the database level. Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-authentication>

**NEW QUESTION 104**

- (Exam Topic 5)

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.

Actions	Answer Area
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.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Text Description automatically generated

Reference:

<https://www.mssqltips.com/sqlservertip/2298/enforce-sql-server-database-naming-conventions-using-policy-bas>

**NEW QUESTION 108**

- (Exam Topic 5)

You have an Azure SQL managed instance.

You need to enable SQL Agent Job email notifications. What should you do?

- A. Use the Agent XPs option.
- B. Enable the SQL Server Agent.
- C. Run the sp\_configure command.
- D. Run the sp\_set\_agent\_properties command.

**Answer:** C

**NEW QUESTION 110**

- (Exam Topic 5)

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.

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

**Answer:** D

**Explanation:**

Columnstore tables and indexes are always stored with columnstore compression. You can further reduce the size of columnstore data by configuring an additional compression called archival compression.

Note: Columnstore — The columnstore index is also logically organized as a table with rows and columns, but the data is physically stored in a column-wise data

format.  
 Reference:  
<https://docs.microsoft.com/en-us/sql/relational-databases/data-compression/data-compression>

**NEW QUESTION 115**

- (Exam Topic 5)  
 You have an on-premises Microsoft SQL server that uses the FileTables and Filestream features. You plan to migrate to Azure SQL.  
 Which service should you use?

- A. Azure SQL Database
- B. SQL Server on an Azure Virtual Machine
- C. Azure SQL Managed Instance
- D. Azure Database for MySQL

**Answer: B**

**Explanation:**

Reference:  
<https://docs.microsoft.com/en-us/azure/azure-sql/migration-guides/database/sql-server-to-sql-database-overview>

**NEW QUESTION 118**

- (Exam Topic 5)  
 You have an Azure subscription that contains a logical SQL server named Server1. The master database of Server1 contains a user named User1. You need to ensure that User1 can create databases on Server1. Which database role should you assign to User1?

- A. db\_owner
- B. dbmanager
- C. dbo
- D. db\_ddladmin

**Answer: B**

**NEW QUESTION 121**

- (Exam Topic 5)  
 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

**Answer: B**

**Explanation:**

Azure SQL Database, Azure SQL Managed Instance, and Azure Synapse Analytics support dynamic data masking. Dynamic data masking limits sensitive data exposure by masking it to non-privileged users.  
 The Credit card masking method exposes the last four digits of the designated fields and adds a constant string as a prefix in the form of a credit card.  
 Example:  
 XXXX-XXXX-XXXX-1234

**NEW QUESTION 125**

- (Exam Topic 5)  
 You have a SQL Server on Azure Virtual Machines instance named VM1 . You run the following query.

```
BACKUP LOG DB1 TO DISK = '\\File1\SQLBackups\DB1.trn'
WITH NORECOVERY, COPY_ONLY, CONTINUE_AFTER_ERROR;
GO
```

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

**Answer Area**

Statements	Yes	No
The log file will be truncated.	<input type="radio"/>	<input type="radio"/>
DB1 will be placed in an offline state.	<input type="radio"/>	<input type="radio"/>
You are performing a tail-log backup.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

Statements	Yes	No
The log file will be truncated.	<input checked="" type="radio"/>	<input type="radio"/>
DB1 will be placed in an offline state.	<input type="radio"/>	<input checked="" type="radio"/>
You are performing a tail-log backup.	<input type="radio"/>	<input checked="" type="radio"/>

**NEW QUESTION 130**

- (Exam Topic 5)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some 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

**Answer:** B

**NEW QUESTION 131**

- (Exam Topic 5)

Your on-premises network contains a server that hosts a 60-TB database named DB 1. The network has a 10-Mbps internet connection.

You need to migrate DB 1 to Azure. The solution must minimize how long it takes to migrate the database. What should you use?

- A. Azure Migrate
- B. Data Migration Assistant (DMA)
- C. Azure Data BOX
- D. Azure Database Migration Service

**Answer:** C

**Explanation:**

<https://www.techtarget.com/searchitoperations/tip/Easily-transfer-VMs-to-the-cloud-with-Microsoft-Azure-Mig>

**NEW QUESTION 133**

- (Exam Topic 5)

You have the following Azure Resource Manager template.

```

...
  "variable": {
    "serverName": "azsqlserver0001"
  },
  "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"
      },
    },
    {
      "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.

Statements	Yes	No
The template deploys a serverless Azure SQL database.	<input type="radio"/>	<input type="radio"/>
The template deploys a database to an Azure SQL Database managed instance.	<input type="radio"/>	<input type="radio"/>
The pricing tier of the database deployment is based on DTUs.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

A screenshot of a computer Description automatically generated with low confidence

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/purchasing-models> <https://docs.microsoft.com/en-us/azure/azure-sql/database/single-database-create-arm-template-quickstart>

**NEW QUESTION 134**

- (Exam Topic 5)

You have an Azure subscription that contains an Azure SQL managed instance, a database named db1, and an Azure web app named Appl. Appl uses db1. You need to enable Resource Governor for a App1. The solution must meet the following requirements: App1 must be able to consume all available CPU resources.

App1 must have at least half of the available CPU resources always available.

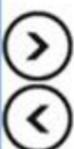
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order

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

**Actions**

- Create a plan.
- Create a classifier function in db1.
- Create a workload group.
- Create a classifier function in the master database.
- Create a resource pool that has the following configurations.
  - MAX\_CPU\_PERCENT = 100
  - MIN\_CPU\_PERCENT = 50

**Answer Area**



- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Actions**

- Create a plan.
- Create a classifier function in db1.
- Create a workload group.
- Create a classifier function in the master database.
- Create a resource pool that has the following configurations.
  - MAX\_CPU\_PERCENT = 100
  - MIN\_CPU\_PERCENT = 50

**Answer Area**

Create a resource pool that has the following configurations.

- MAX\_CPU\_PERCENT = 100
- MIN\_CPU\_PERCENT = 50

(Left arrow) Create a workload group.

Create a classifier function in the master database.

**NEW QUESTION 138**

- (Exam Topic 5)

You receive numerous alerts from Azure Monitor for an Azure SQL database.

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

**Answer: BD**

**Explanation:**

B: Dynamic Thresholds continuously learns the data of the metric series and tries to model it using a set of algorithms and methods. It detects patterns in the data such as seasonality (Hourly / Daily / Weekly), and is able to handle noisy metrics (such as machine CPU or memory) as well as metrics with low dispersion (such as availability and error rate).

D: Alert threshold sensitivity is a high-level concept that controls the amount of deviation from metric behavior required to trigger an alert.

Low – The thresholds will be loose with more distance from metric series pattern. An alert rule will only trigger on large deviations, resulting in fewer alerts.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-dynamic-thresholds>

**NEW QUESTION 143**

- (Exam Topic 5)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some 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 change the data file for the master database to autogrow by 10 percent. Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Reference:

<https://docs.microsoft.com/en-US/troubleshoot/sql/performance/recommendations-reduce-allocation-contention>

**NEW QUESTION 146**

- (Exam Topic 5)

You have SQL Server on Azure virtual machines in an availability group. You have a database named DB1 that is NOT in the availability group. You create a full database backup of DB1. You need to add DB1 to the availability group. Which restore option should you use on the secondary replica?

- A. Restore with Recovery
- B. Restore with Norecovery
- C. Restore with Standby

**Answer: B**

**Explanation:**

Prepare a secondary database for an Always On availability group requires two steps:

\* 1. Restore a recent database backup of the primary database and subsequent log backups onto each server instance that hosts the secondary replica, using RESTORE WITH NORECOVERY

\* 2. Join the restored database to the availability group. Reference:

<https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/manually-prepare-a-secondary-database-for-an-availability-group-sql-server>

**NEW QUESTION 150**

- (Exam Topic 5)

You have an Azure Synapse Analytics workspace named WS1 that contains an Apache Spark pool named Pool1.

You plan to create a database named DB1 in Pool1.

You need to ensure that when tables are created in DB1, the tables are available automatically as external tables to the built-in serverless SQL pool.

Which format should you use for the tables in DB1?

- A. JSON
- B. CSV
- C. Parquet
- D. ORC

**Answer: C**

**Explanation:**

Serverless SQL pool can automatically synchronize metadata from Apache Spark. A serverless SQL pool database will be created for each database existing in serverless Apache Spark pools.

For each Spark external table based on Parquet and located in Azure Storage, an external table is created in a serverless SQL pool database. As such, you can shut down your Spark pools and still query Spark external tables from serverless SQL pool.

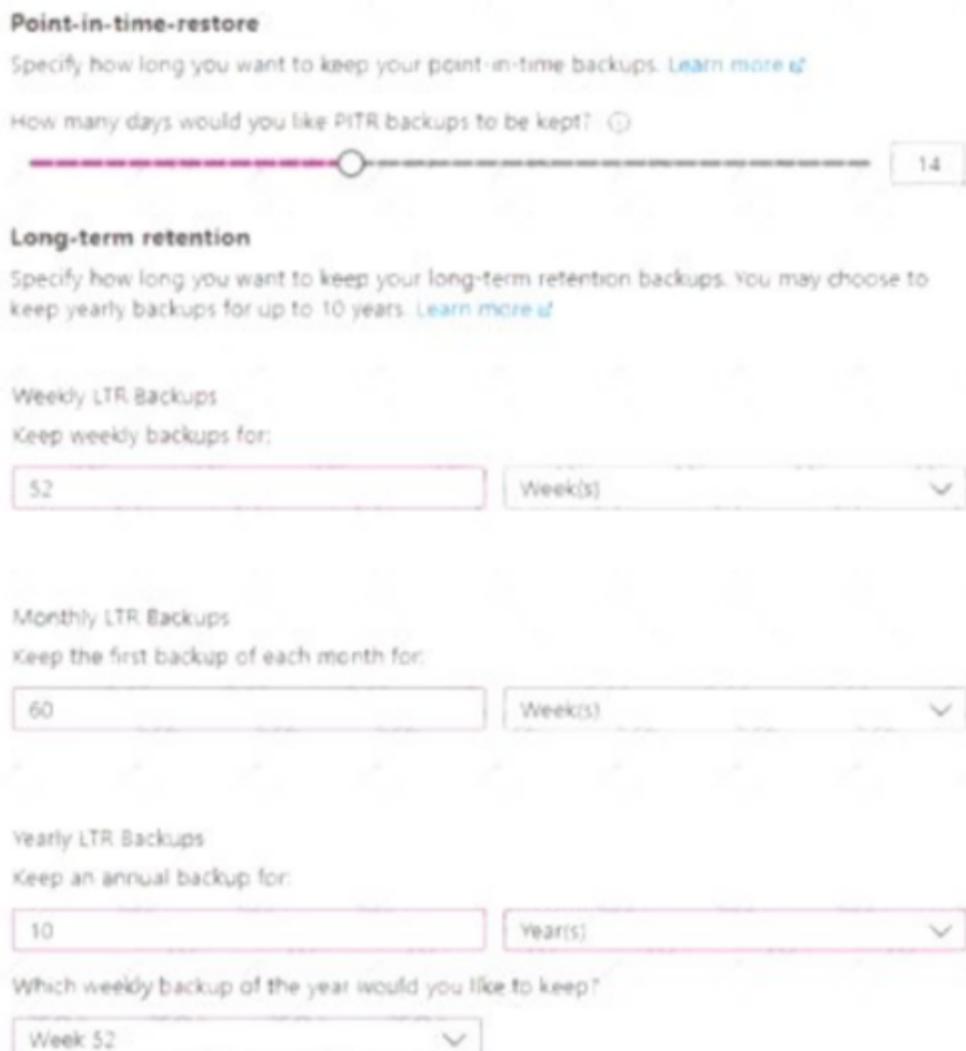
Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-storage-files-spark-tables>

**NEW QUESTION 151**

- (Exam Topic 5)

You configure backup for an Azure SQL database as shown in the following exhibit.



The screenshot shows the backup configuration for an Azure SQL database. It includes the following settings:

- Point-in-time-restore:** A slider set to 14 days.
- Long-term retention:**
  - Weekly LTR Backups: Keep weekly backups for 52 weeks.
  - Monthly LTR Backups: Keep the first backup of each month for 60 weeks.
  - Yearly LTR Backups: Keep an annual backup for 10 years.
  - Which weekly backup of the year would you like to keep? Week 52.

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 restore from a failure that occurred two days ago and caused minimal data loss, you must use a [answer choice]

- point-time restore (PITR) backup
- point-time restore (PITR) backup
- yearly long-term retention (LTR) backup.
- weekly long-term retention (LTR) backup.
- monthly long-term retention (LTR) backup

After the 52nd weekly backup runs, there will be [answer choice] in long term retention.

- 65 backup copies
- 1 backup copy
- 52 backup copies
- 64 backup copies
- 65 backup copies

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

To restore from a failure that occurred two days ago and caused minimal data loss, you must use a [answer choice]

- point-time restore (PITR) backup
- point-time restore (PITR) backup
- yearly long-term retention (LTR) backup.
- weekly long-term retention (LTR) backup.
- monthly long-term retention (LTR) backup

After the 52nd weekly backup runs, there will be [answer choice] in long term retention.

- 65 backup copies
- 1 backup copy
- 52 backup copies
- 64 backup copies
- 65 backup copies

NEW QUESTION 152

- (Exam Topic 5)

You have a database on a SQL Server on Azure Virtual Machines instance. The current state of Query Store for the database is shown in the following exhibit.



To change Operation Mode (Actual) to Read write without losing any data, you must modify the [answer choice] setting.

- Max Size (MB)
- Query Store Capture Mode
- Size Based Cleanup Mode
- Operation Mode (Requested)

Query Store will retain [answer choice] queries for evaluation.

- all
- none of the
- a selective set of

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text Description automatically generated

NEW QUESTION 156

- (Exam Topic 5)

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.

**Values**

**Answer Area**

- CustomerKey
- HASH
- ROUND\_ROBIN
- REPLICATE
- OrderDateKey
- SalesOrderNumber

```
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
)
WITH
(
    CLUSTERED COLUMNSTORE INDEX
, DISTRIBUTION = [ ] ([ProductKey])
, PARTITION ( [ ] ) RANGE RIGHT FOR VALUES
(20170101, 20180101, 20190101, 20200101, 20210101)
)
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

Box 1: HASH

Box 2: OrderDateKey

In most cases, table partitions are created on a date column.

A way to eliminate rollbacks is to use Metadata Only operations like partition switching for data management. For example, rather than execute a DELETE statement to delete all rows in a table where the order\_date was in October of 2001, you could partition your data early. Then you can switch out the partition with data for an empty partition from another table.

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-table-azure-sql-data-warehouse> <https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-dedicated-sql-pool>

**NEW QUESTION 160**

- (Exam Topic 5)

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

Azure SQL Database built-in intelligence automatically tunes your databases to optimize performance. Click here to learn more about automatic tuning

Inherit from:

- Server
- Azure defaults**
- Don't inherit

The database is inheriting automatic tuning configuration from Azure defaults.

Configure the automatic tuning options

OPTION	DESIRED STATE	CURRENT STATE
FORCE PLAN	ON OFF <b>INHERIT</b>	<b>ON</b> Auto-configured by Azure
CREATE INDEX	ON OFF <b>INHERIT</b>	<b>ON</b> Auto-configured by Azure
DROP INDEX	<b>ON</b> OFF INHERIT	<b>ON</b> 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.

Statements	Yes	No
Nonclustered indexes will be added to tables to improve performance.	<input type="radio"/>	<input type="radio"/>
Columns will be added to existing indexes automatically.	<input type="radio"/>	<input type="radio"/>
The query execution plan will revert to a previous plan if query performance degrades.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

We see: Tuning option: Create index ON

CREATE INDEX - Identifies indexes that may improve performance of your workload, creates indexes, and automatically verifies that performance of queries has improved.

Box 2: No

Box 3: Yes

FORCE LAST GOOD PLAN (automatic plan correction) - Identifies Azure SQL queries using an execution plan that is slower than the previous good plan, and queries using the last known good plan instead of the regressed plan.

**NEW QUESTION 164**

- (Exam Topic 5)

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.

P1:  ▼

- Set the Copy method to Bulk insert.
- Set the Copy method to PolyBase.
- Set the Isolation level to Repeatable read.
- Set the Partition option to Dynamic range.

P2:  ▼

- Set the Copy method to Bulk insert.
- Set the Copy method to PolyBase.
- Set the Isolation level to Repeatable read.
- Set the Partition option to Dynamic range.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, chat or text message Description automatically generated

P1: Set the Partition option to Dynamic Range.

The SQL Server connector in copy activity provides built-in data partitioning to copy data in parallel. P2: Set the Copy method to PolyBase

Polybase is the most efficient way to move data into Azure Synapse Analytics. Use the staging blob feature to achieve high load speeds from all types of data stores, including Azure Blob storage and Data Lake Store. (Polybase supports Azure Blob storage and Azure Data Lake Store by default.)

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-sql-data-warehouse> <https://docs.microsoft.com/en-us/azure/data-factory/load-azure-sql-data-warehouse>

**NEW QUESTION 166**

- (Exam Topic 5)

You have an instance of SQL Server on Azure Virtual Machines named SQL1.

SQL1 contains an Extended Events session named session1 that captures Microsoft SQL Server events. You need to correlate the session events with events captured by Event Tracing for Windows (ETW). What should you do for session1?

- A. Modify the Set Session Event Filters settings.
- B. Add a target.
- C. Add an action.
- D. Modify the Specify Session Data Storage settings.

**Answer: B**

#### NEW QUESTION 171

- (Exam Topic 5)

You plan to deploy two instances of SQL Server on Azure virtual machines in a highly available configuration that will use an Always On availability group. You need to recommend a deployment solution that meets the following requirements:

- Provides a Service Level Agreement (SLA) of at least 99.95%
  - Replicates databases in the same group synchronously
  - Minimizes the latency of database writes
- What should you recommend?

- A. Create a proximity group and an availability set
- B. Deploy each virtual machine to the availability set. Add both virtual machines to the proximity group.
- C. Create two proximity groups and a single availability set
- D. Deploy both virtual machines to the availability set
- E. Add one virtual machine to each proximity group.
- F. Create two proximity groups and two availability sets
- G. Deploy each virtual machine to a unique availability set
- H. Add one virtual machine to each proximity group.
- I. Create a proximity group and two availability sets
- J. Deploy each virtual machine to a unique availability set
- K. Add both virtual machines to the proximity group.

**Answer: A**

#### NEW QUESTION 175

- (Exam Topic 5)

You are developing an application that uses Azure Data Lake Storage Gen 2.

You need to recommend a solution to grant permissions to a specific application for a limited time period. What should you include in the recommendation?

- A. role assignments
- B. account keys
- C. shared access signatures (SAS)
- D. Azure Active Directory (Azure AD) identities

**Answer: C**

#### Explanation:

A shared access signature (SAS) provides secure delegated access to resources in your storage account. With a SAS, you have granular control over how a client can access your data. For example:

What resources the client may access.

What permissions they have to those resources. How long the SAS is valid.

Note: Data Lake Storage Gen2 supports the following authorization mechanisms:

- > Shared Key authorization
- > Shared access signature (SAS) authorization
- > Role-based access control (Azure RBAC)
- > Shared Key authorization
- > Shared access signature (SAS) authorization
- > Role-based access control (Azure RBAC)
- > Access control lists (ACL)

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview>

#### NEW QUESTION 177

- (Exam Topic 5)

You have an Azure SQL database.

You run the following PowerShell script.

```
$serverName = "SERVER1"
$resourceGroup = "RG1"
$dbName = "DB1"

Connect-AzAccount

$server = Get-AzSqlServer -ServerName $serverName -ResourceGroupName
$resourceGroup

Set-AzSqlDatabaseBackupShortTermRetentionPolicy -ResourceGroupName $resourceGroup
-ServerName $server `
-DatabaseName $dbName -RetentionDays 21

Set-AzSqlDatabaseBackupLongTermRetentionPolicy -ServerName $serverName -
DatabaseName $dbName `
-ResourceGroupName $resourceGroup -WeeklyRetention P52W -YearlyRetention PSY
-WeekOfYear 52
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
 NOTE:Each correct selection is worth one point.

Statements	Yes	No
DB1 can be restored to a specific point in time 30 days ago.	<input type="radio"/>	<input type="radio"/>
DB1 can be restored from a weekly backup performed six months ago.	<input type="radio"/>	<input type="radio"/>
DB1 can be restored from a yearly backup performed six years ago.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Text Description automatically generated

Reference:

<https://docs.microsoft.com/en-us/powershell/module/az.sql/set-azsqldatabasebackupshorttermretentionpolicy?vi> <https://docs.microsoft.com/en-us/powershell/module/az.sql/set-azsqldatabasebackuplongtermretentionpolicy?vie>

**NEW QUESTION 178**

- (Exam Topic 5)

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.

Actions	Answer Area
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	 

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Create an Azure Policy Initiative

The first step in enforcing compliance with Azure Policy is to assign a policy definition. A policy definition defines under what condition a policy is enforced and what effect to take.

With an initiative definition, you can group several policy definitions to achieve one overarching goal. An initiative evaluates resources within scope of the assignment for compliance to the included policies.

Step 2: Create an Azure Policy Initiative assignment

Assign the initiative definition you created in the previous step. Step 3: Run Azure Policy remediation tasks

To apply the Policy Initiative to the existing SQL databases. Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage>

**NEW QUESTION 180**

- (Exam Topic 5)

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

**Answer:** B

**NEW QUESTION 185**

- (Exam Topic 5)

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 queries.
- 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.

**Answer:** C

**Explanation:**

The performance capacity of a query is determined by the user's resource class.

Smaller resource classes reduce the maximum memory per query, but increase concurrency. Larger resource classes increase the maximum memory per query, but reduce concurrency.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/resource-classes-for-workloadman>

**NEW QUESTION 186**

- (Exam Topic 5)

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": "None",
    "dataDiskCount": 8, "logDisksCount": 1,
  }
}

"resources": [
  ...
  "osDisk": {
    ...
    "copy": [
      {
        "name": "dataDisks", "count": "[add(variables('dataDiskCount'), variables('logDisksCount'))]",
        "input": {
          "lun": "[copyIndex('dataDisks')]", "createOption": "empty",
          "caching": "[if(greaterOrEquals(copyIndex('dataDisks'), parameters('dataDiskCount')),
            variables('dataDisks').caching )]", "diskSizeGB": 1023,
        }
      }
    ]
  }
]

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
 Read only ReadWrite

**NEW QUESTION 190**

- (Exam Topic 5)  
 You have a Microsoft SQL Server 2019 instance in an on-premises datacenter. The instance contains a 4-TB database named DB1. You plan to migrate DB1 to an Azure SQL Database managed instance. What should you use to minimize downtime and data loss during the migration?

- A. database mirroring
- B. distributed availability groups
- C. Always On Availability Group
- D. Azure Database Migration Service

**Answer:** D

**NEW QUESTION 192**

- (Exam Topic 5)  
 You have an Azure Databricks workspace named workspace1 in the Standard pricing tier. Workspace1 contains an all-purpose cluster named cluster1. You need to reduce the time it takes for cluster1 to start and scale up. The solution must minimize costs. What should you do first?

- A. Upgrade workspace1 to the Premium pricing tier.
- B. Configure a global init script for workspace1.
- C. Create a pool in workspace1.
- D. Create a cluster policy in workspace1.

**Answer:** C

**Explanation:**  
 You can use Databricks Pools to Speed up your Data Pipelines and Scale Clusters Quickly. Databricks Pools, a managed cache of virtual machine instances that enables clusters to start and scale 4 times faster. Reference: <https://databricks.com/blog/2019/11/11/databricks-pools-speed-up-data-pipelines.html>

**NEW QUESTION 197**

- (Exam Topic 5)  
 You configure a long-term retention policy for an Azure SQL database as shown in the exhibit. (Click the Exhibit tab.)

### Configure policies ✕

SQL server

#### Point in Time Restore Configuration

Configure PiTR backup retention  Days

---

#### Long-term Retention Configurations

Weekly LTR Backups ⓘ

How long would you like weekly backups to be kept?

---

Monthly LTR Backups ⓘ

How long would you like the first backup of each month to be kept?

---

Yearly LTR Backups ⓘ

Which weekly backup of the year would you like to retain?

How long would you like this annual backup to be kept?

The first weekly backup occurred on January 4, 2020. The dates for the first 10 weekly backups are:

- > January 4, 2020
- > January 11, 2020
- > January 18, 2020
- > January 25, 2020
- > February 1, 2020
- > February 8, 2020
- > February 15, 2020
- > February 22, 2020
- > February 29, 2020
- > March 7, 2020

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.

The backup saved to long-term retention on January 4, 2020, will be retained for

▼
 

- 6 weeks
- 12 months
- 10 years

The backup saved to long-term retention on January 11, 2020 will be retained for

▼
 

- 6 weeks
- 12 months
- 10 years

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application, email Description automatically generated

**NEW QUESTION 201**

- (Exam Topic 5)

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.

**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.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Table Description automatically generated

Reference:

<https://www.sqlshack.com/an-overview-of-the-column-level-sql-server-encryption/>

**NEW QUESTION 202**

- (Exam Topic 5)

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

- \* Use block blob storage.
- \* Maximize security.

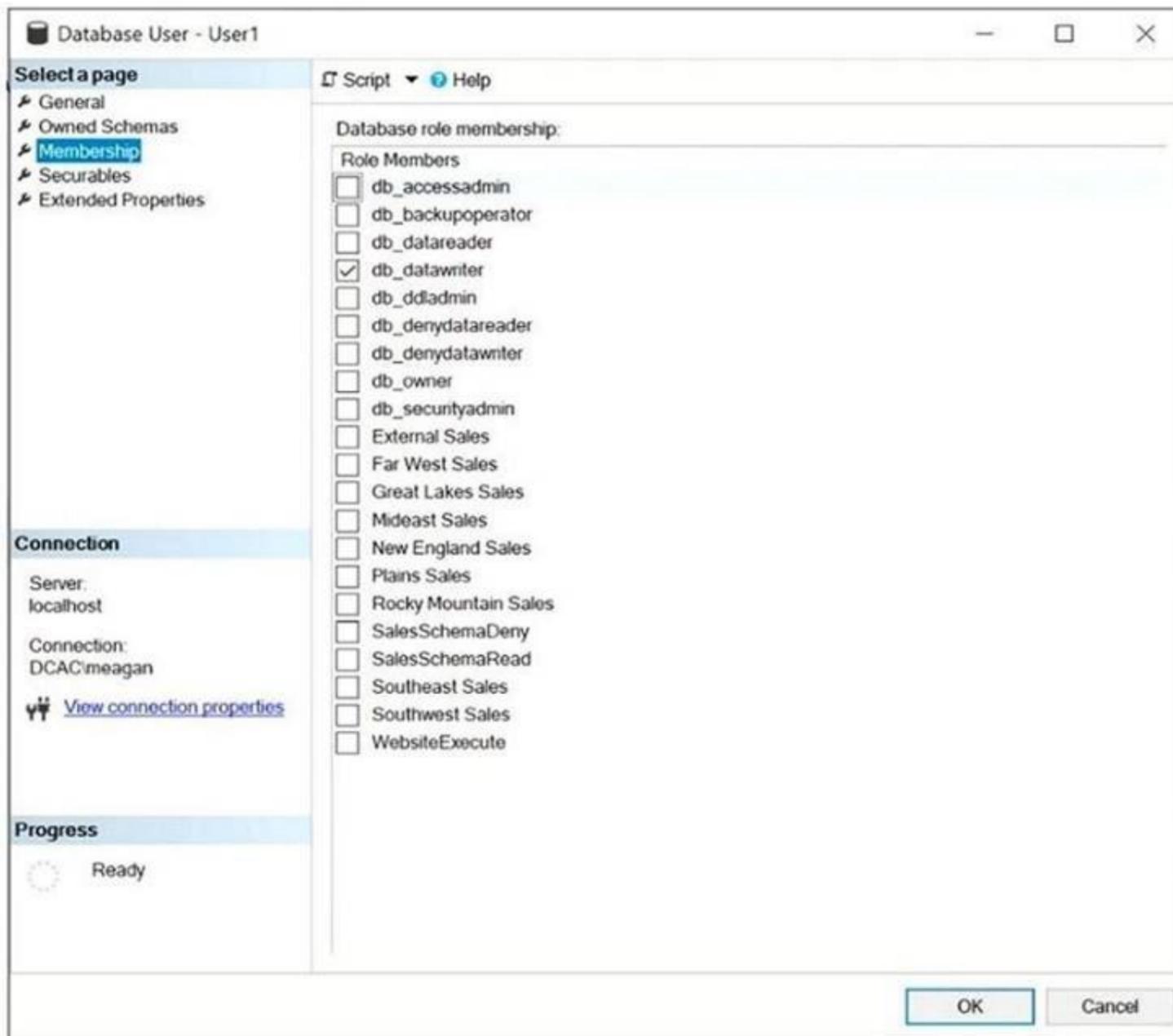
- A. Generate a shared access signature (SAS)
- B. Enable infrastructure encryption.
- C. Create an access policy.
- D. Rotate the storage keys

**Answer:** B

**NEW QUESTION 204**

- (Exam Topic 5)

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.

User1 can [answer choice].

	▼
add a column to Table1	
delete a row from Table1	
delete Table1	

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	

- A. Mastered
- B. Not Mastered

**Answer:** A

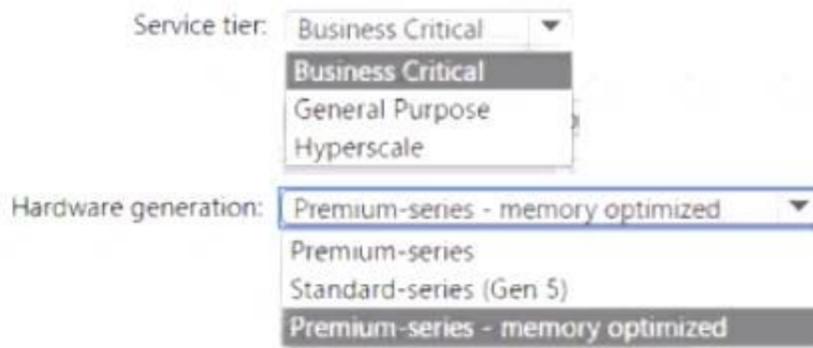
**Explanation:**

Box 1: delete a row from Table1  
 Members of the db\_datawriter fixed database role can add, delete, or change data in all user tables. Box 2: db\_datareader  
 Members of the db\_datareader fixed database role can read all data from all user tables. Reference:  
<https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/database-level-roles>

**NEW QUESTION 205**

- (Exam Topic 5)  
 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 apocopate options in the answer area.  
 NOTE: Each correct selection is worth one point.

Answer Area

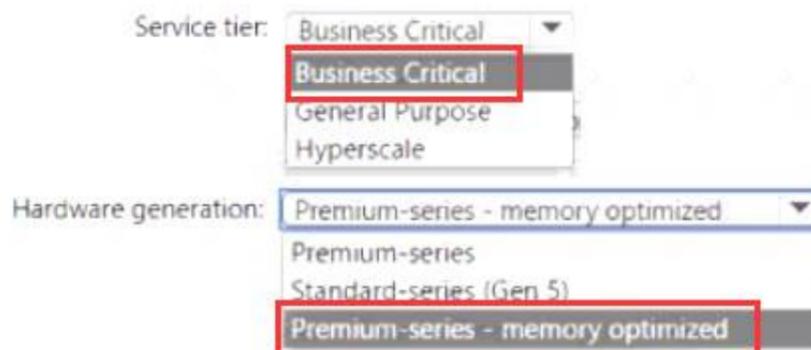


- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 207

- (Exam Topic 3)

Which windowing function should you use to perform the streaming aggregation of the sales data?

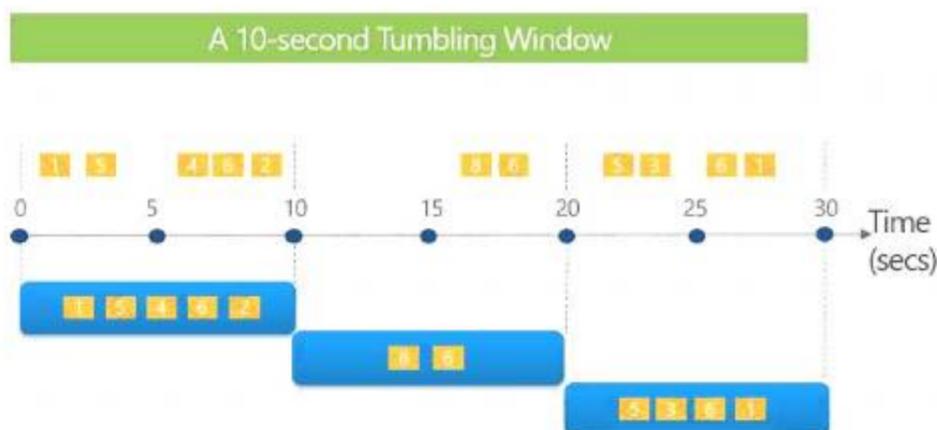
- A. Sliding
- B. Hopping
- C. Session
- D. Tumbling

Answer: D

Explanation:

Scenario: The sales data, including the documents in JSON format, must be gathered as it arrives and analyzed online by using Azure Stream Analytics. The analytics process will perform aggregations that must be done continuously, without gaps, and without overlapping. Tumbling window functions are used to segment a data stream into distinct time segments and perform a function against them, such as the example below. The key differentiators of a Tumbling window are that they repeat, do not overlap, and an event cannot belong to more than one tumbling window. Timeline Description automatically generated

Tell me the count of Tweets per time zone every 10 seconds



```
SELECT TimeZone, COUNT(*) AS Count
FROM TwitterStream TIMESTAMP BY CreatedAt
GROUP BY TimeZone, TumblingWindow(second,10)
```

Reference:

<https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/stream-analytics/stream-analytics-window-fun>

NEW QUESTION 211

- (Exam Topic 2)

You are evaluating the role assignments.

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

NOTE:Each correct selection is worth one point.

Statements	Yes	No
DBAGroup1 will be able to sign in to each customer's Azure SQL database by using Azure Data Studio.	<input type="radio"/>	<input type="radio"/>
DBAGroup1 will be able to assign the SQL DB Contributor role to other users.	<input type="radio"/>	<input type="radio"/>
DBAGroup2 will be able to create a new Azure SQL database on each customer's Azure SQL Database server.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

DBAGroup1 is member of the Contributor role.

The Contributor role grants full access to manage all resources, but does not allow you to assign roles in Azure RBAC, manage assignments in Azure Blueprints, or share image galleries.

Box 2: No

Box 3: Yes

DBAGroup2 is member of the SQL DB Contributor role.

The SQL DB Contributor role lets you manage SQL databases, but not access to them. Also, you can't manage their security-related policies or their parent SQL servers. As a member of this role you can create and manage SQL databases.

Reference:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

**NEW QUESTION 216**

- (Exam Topic 2)

What should you use to migrate the PostgreSQL database?

- A. Azure Data Box
- B. AzCopy
- C. Azure Database Migration Service
- D. Azure Site Recovery

**Answer:** C

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/dms/dms-overview>

**NEW QUESTION 220**

- (Exam Topic 1)

You are planning the migration of the SERVER1 databases. The solution must meet the business requirements.

What should you include in the migration plan? To answer, select the appropriate options in the answer area. NOTE:Each correct selection is worth one point.

Azure Database Migration Service pricing tier:

▼

- Standard 2-vCore
- Standard 4-vCore
- Premium 4-vCore

Required Azure resource:

▼

- A virtual network that has service endpoints
- A VPN gateway
- An Azure Logic app

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Azure Database Migration service Box 1: Premium 4-VCore

Scenario: Migrate the SERVER1 databases to the Azure SQL Database platform.

> Minimize downtime during the migration of the SERVER1 databases.

Premium 4-vCore is for large or business critical workloads. It supports online migrations, offline migrations, and faster migration speeds.

Reference: <https://azure.microsoft.com/pricing/details/database-migration/>

<https://docs.microsoft.com/en-us/azure/dms/tutorial-sql-server-azure-sql-online>

**NEW QUESTION 223**

- (Exam Topic 1)

You need to implement the monitoring of SalesSQLDb1. The solution must meet the technical requirements. How should you collect and stream metrics? To answer, select the appropriate options in the answer area. NOTE:Each correct selection is worth one point.

Collect metrics from:

	▼
The database only	
The elastic pool and the database	
The elastic pool only	
The server, the elastic pool, and the database	

Stream metrics to:

	▼
Azure Event Hubs	
Azure Log Analytics	
Azure Storage	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: The server, the elastic pool, and the database

Senario:

SalesSQLDb1 is in an elastic pool named SalesSQLDb1Pool.

Litware technical requirements include: all SQL Server and Azure SQL Database metrics related to CPU and storage usage and limits must be analyzed by using Azure built-in functionality.

Box 2: Azure Event hubs

Scenario: Migrate ManufacturingSQLDb1 to the Azure virtual machine platform. Event hubs are able to handle custom metrics.

**NEW QUESTION 228**

- (Exam Topic 1)

You need to implement authentication for ResearchDB1. The solution must meet the security and compliance requirements.

What should you run as part of the implementation?

- A. CREATE LOGINand theFROM WINDOWSclause
- B. CREATE USERand theFROM CERTIFICATEclause
- C. CREATE USERand theFROM LOGINclause
- D. CREATE USERand theASYMMETRIC KEYclause
- E. CREATE USERand theFROM EXTERNAL PROVIDERclause

**Answer:** E

**Explanation:**

Scenario: Authenticate database users by using Active Directory credentials.

(Create a new Azure SQL database named ResearchDB1 on a logical server named ResearchSrv01.) Authenticate the user in SQL Database or SQL Data Warehouse based on an Azure Active Directory user: CREATE USER [Fritz@contoso.com] FROM EXTERNAL PROVIDER;

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-user-transact-sql>

**NEW QUESTION 232**

- (Exam Topic 1)

You need to recommend a configuration for ManufacturingSQLDb1 after the migration to Azure. The solution must meet the business requirements.

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.

Quorum model:

▼
Cloud witness
Disk witness
File share witness

Azure resource for the availability group listener:

▼
Azure Application Gateway
Azure Basic Load Balancer

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Scenario: Business Requirements

Litware identifies business requirements include: meet an SLA of 99.99% availability for all Azure deployments.

Box 1: Cloud witness

If you have a Failover Cluster deployment, where all nodes can reach the internet (by extension of Azure), it is recommended that you configure a Cloud Witness as your quorum witness resource.

Box 2: Azure Basic Load Balancer

Microsoft guarantees that a Load Balanced Endpoint using Azure Standard Load Balancer, serving two or more Healthy Virtual Machine Instances, will be available 99.99% of the time.

Note: There are two main options for setting up your listener: external (public) or internal. The external (public) listener uses an internet facing load balancer and is associated with a publicVirtual IP (VIP) that is accessible over the internet. An internal listener uses an internal load balancer and only supports clients within the same Virtual Network.

Reference:

<https://technet.microsoft.com/windows-server-docs/failover-clustering/deploy-cloud-witness> [https://azure.microsoft.com/en-us/support/legal/sla/load-balancer/v1\\_0/](https://azure.microsoft.com/en-us/support/legal/sla/load-balancer/v1_0/)

**NEW QUESTION 236**

.....

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