

DP-900^{Q&As}

Microsoft Azure Data Fundamentals

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QUESTION 1

Which Azure SQL offering supports automatic database scaling and automatic pausing of the database during inactive periods?

- A. Azure SQL Database Hyperscale
- B. Azure SQL managed instance
- C. Azure SQL Database serverless
- D. Azure SQL Database elastic pod

Correct Answer: B

QUESTION 2

You have an application that runs on Windows and requires access to a mapped drive. Which Azure service should you use?

- A. Azure Cosmos DB
- B. Azure Table storage
- C. Azure Files
- D. Azure Blob Storage

Correct Answer: A

QUESTION 3

Which two activities can be performed entirely by using the Microsoft Power BI service? Each correct answer presents a complete solution. (Choose two.) NOTE: Each correct selection is worth one point.

- A. report and dashboard creation
- B. report sharing and distribution
- C. data modeling
- D. data acquisition and preparation

Correct Answer: AD

QUESTION 4

When you create an Azure SQL database, which account can always connect to the database?

- A. the Azure Active director/ (Azure AO) account that created the database
- B. the Azure Active Directly Azure AD) administrator account
- C. the sa account
- D. the server admin login account of the logical server

Correct Answer: B

QUESTION 5

Which setting can only be configured during the creation of an Azure Cosmos DB account?

- A. geo-redundancy
- B. multi-region writes
- C. production or non-reduction account type
- D. API

Correct Answer: C

QUESTION 6

You have a SQL query that combines customer data and order data

The query includes calculated columns.

You need to persist the SQL query so that other users can use the query. What should you create?

- A. a table
- B. an index
- C. scalar function
- D. a view

Correct Answer: B

QUESTION 7

Match the Azure data factory components to the appropriate descriptions.

To answer, drag the appropriate component from the column on the left to its description on the right. Each component may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Dataset	A representation of data structures within data stores
Linked service	The information used to connect to external resources
Mapping data flow	A logical grouping of activities that performs a unit of work and can be scheduled
Pipeline	

Component

Component

Component

Correct Answer:

	A representation of data structures within data stores
	The information used to connect to external resources
Pipeline	A logical grouping of activities that performs a unit of work and can be scheduled

Dataset

Linked service

Mapping data flow

QUESTION 8

Match the Azure services to appropriate requirements.

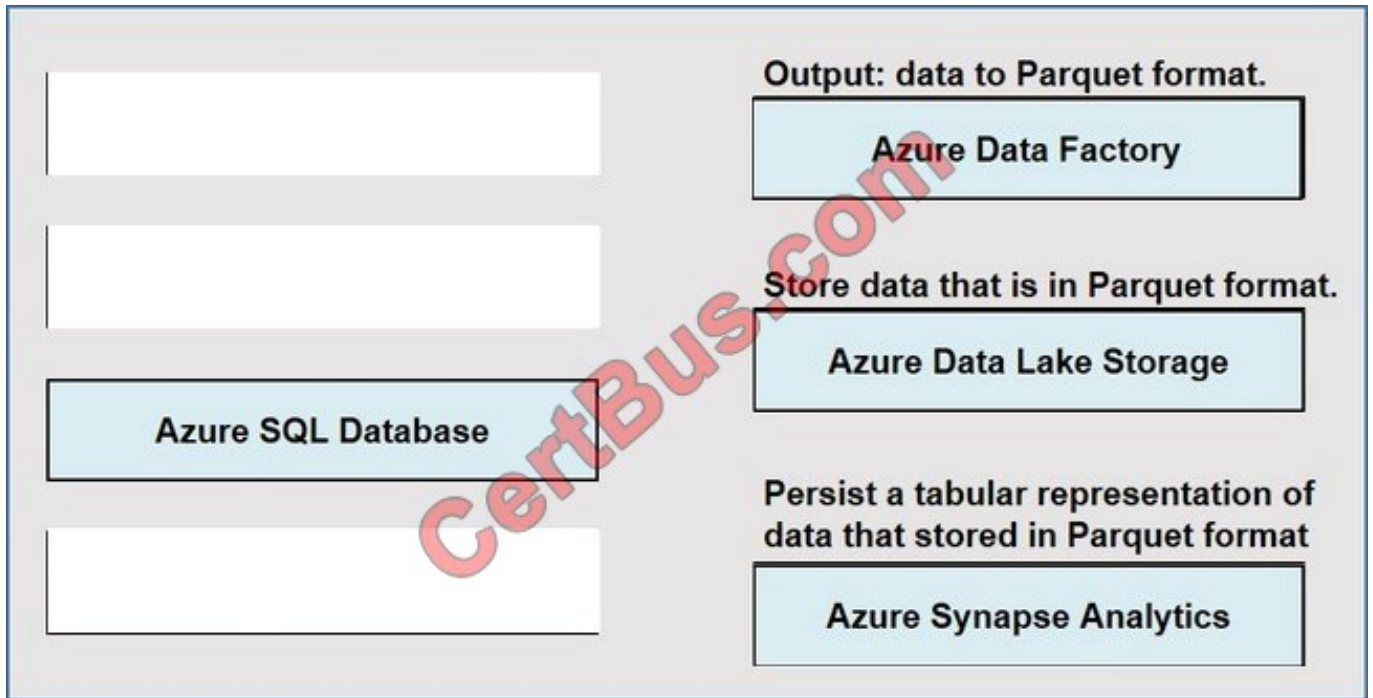
To answer, drag the appropriate services from the column on the left to its requirement on the right. Each service may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Azure Data Factory	Output: data to Parquet format. Azure Service
Azure Data Lake Storage	Store data that is in Parquet format. Azure Service
Azure SQL Database	Persist a tabular representation of data that stored in Parquet format Azure Service
Azure Synapse Analytics	

Correct Answer:



QUESTION 9

You have an Azure SQL database that you access directly from the internet.

You recently changed your external IP address.

After changing the IP address, you can no longer access the database. You can connect to other resources in Azure

What is a possible cause of the issue?

- A. a database-level firewall
- B. role-based access control (RSAC)
- C. Dynamic Host Configuration Protocol (DHCP)
- D. Domain Name Service (DNS)

Correct Answer: A

The Azure SQL Database firewall lets you decide which IP addresses may or may not have access to either your Azure SQL Server or your Azure SQL database. When creating an Azure SQL Database, the firewall needs to be configured before anyone will be able to access the database. By default, no external access to your SQL Database will be allowed until you explicitly assign permission by creating a firewall rule.

Reference: <https://www.sqlshack.com/configuring-the-azure-sql-database-firewall/>

QUESTION 10

What are two uses of data visualization? Each correct answer present a complete solution. NOTE: Each correct selection is worth one point.

- A. Represent trends and patterns over time.
- B. Communicate the significance of data.
- C. implement machine learning to predict future values.
- D. Consistently implement business logic across reports

Correct Answer: AC

QUESTION 11

HOTSPOT

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:

Yes No

Platform as a service (PaaS) database offerings in Azure require less setup and configuration effort than infrastructure as a service (IaaS) database offerings.

Platform as a service (PaaS) database offerings in Azure provide administrators with the ability to control and update the operating system version.

All platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.

Correct Answer:

Yes No

Platform as a service (PaaS) database offerings in Azure require less setup and configuration effort than infrastructure as a service (IaaS) database offerings.

Platform as a service (PaaS) database offerings in Azure provide administrators with the ability to control and update the operating system version.

All platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.

Box 1: Yes

Like IaaS, PaaS includes infrastructure -servers, storage, and networking -but also middleware, development tools, business intelligence (BI) services, database management systems, and more. PaaS is designed to support the complete

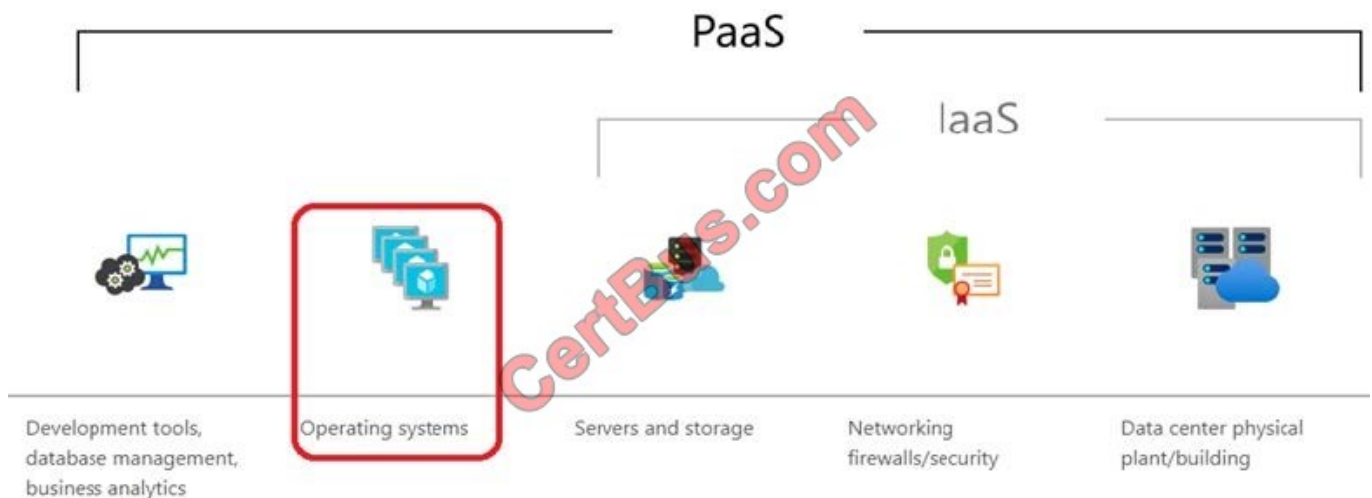
web application lifecycle: building, testing, deploying, managing, and updating.

PaaS allows you to avoid the expense and complexity of buying and managing software licenses, the underlying application infrastructure and middleware, container orchestrators such as Kubernetes, or the development tools and other

resources

Box 2: Yes

You manage the applications and services you develop, and the cloud service provider typically manages everything else.



Box 3: No

There really is no way to pause / stop billing for your Azure SQL Database.

Microsoft's official answer "Yes, you can export your database. Delete the Azure SQL database and that will pause billing. Then when you need it you can create a new database and import your previously exported DB."

Reference:

<https://azure.microsoft.com/en-us/overview/what-is-paas>

<https://feedback.azure.com/forums/217321-sql-database/suggestions/6931152-please-add-ability-to-temporarily-turn-off-on-sql>

QUESTION 12

DRAG DROP

Match the types of data stores to the appropriate scenarios.

To answer, drag the appropriate data store type from the column on the left to its scenario on the right. Each data store type may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Graph		Application users and their default language
Object		Medical images and their associated metadata
Key/value		Employee data that shows the relationships between employees

Correct Answer:

	Key/value	Application users and their default language
	Object	Medical images and their associated metadata
	Graph	Employee data that shows the relationships between employees

Reference: <https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/data-store-overview>

QUESTION 13

You have a SQL pool in Azure Synapse Analytics that is only used actively every night for eight hours. You need to minimize the cost of the SQL pool during idle times. The solution must ensure that the data remains intact. What should you do on the SQL pool?

- A. Scale down the data warehouse units (DWUs).
- B. Pause the pool.
- C. Create a user-defined restore point.
- D. Delete the pool

Correct Answer: B

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

QUESTION 14

DRAG DROP

Match the Azure Cosmos DB APIs to the appropriate data structures.

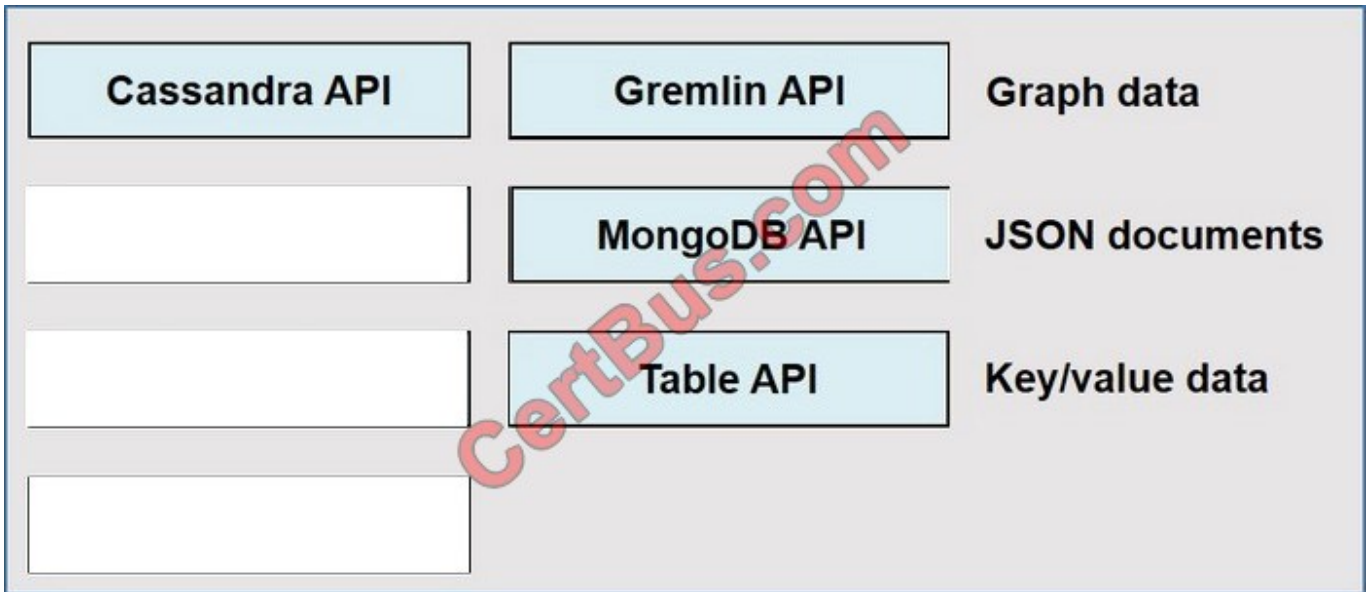
To answer, drag the appropriate API from the column on the left to its data structure on the right. Each API may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Cassandra API		Graph data
Gremlin API		JSON documents
MongoDB API		Key/value data
Table API		

Correct Answer:



Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/faq>

QUESTION 15

HOTSPOT

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

In batch processing,

	▼
data is always inserted one row at a time	
data is processed in real-time	
latency is expected	
processing can only execute serially	

Correct Answer:

In batch processing,

data is always inserted one row at a time
data is processed in real-time
latency is expected
processing can only execute serially

Reference: <https://www.bmc.com/blogs/what-is-batch-processing-batch-processing-explained/>

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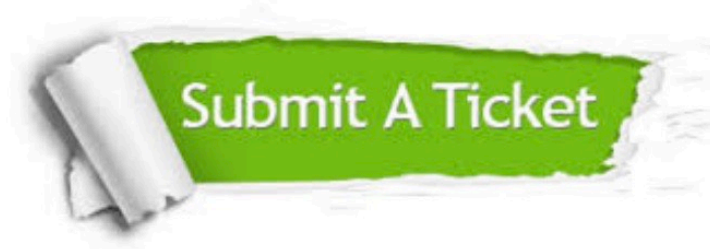
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