



# DP-201<sup>Q&As</sup>

Designing an Azure Data Solution

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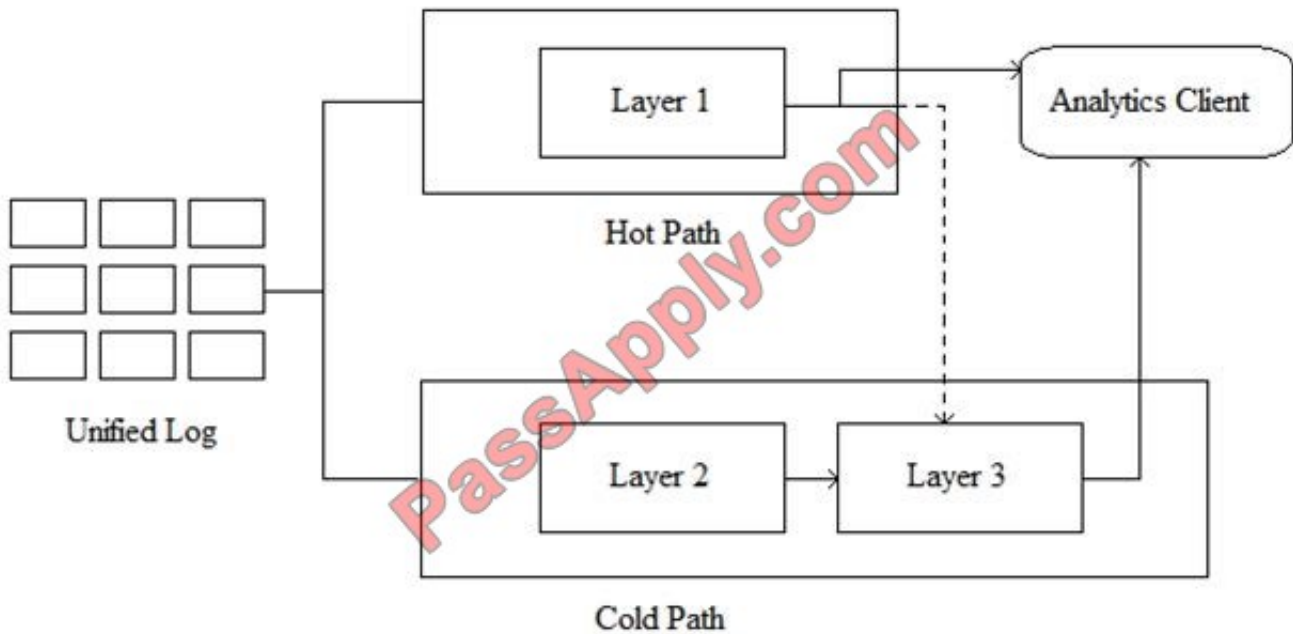
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### QUESTION 1

You are planning a design pattern based on the Lambda architecture as shown in the exhibit.



Which Azure service should you use for the hot path?

- A. Azure Synapse Analytics
- B. Azure SQL Database
- C. Azure Cosmos DB
- D. Azure Data Catalog

Correct Answer: C

In Azure, all of the following data stores will meet the core requirements supporting real-time processing:

1.  
Apache Spark in Azure Databricks
2.  
Azure Stream Analytics
3.  
HDInsight with Spark Streaming
4.  
HDInsight with Storm



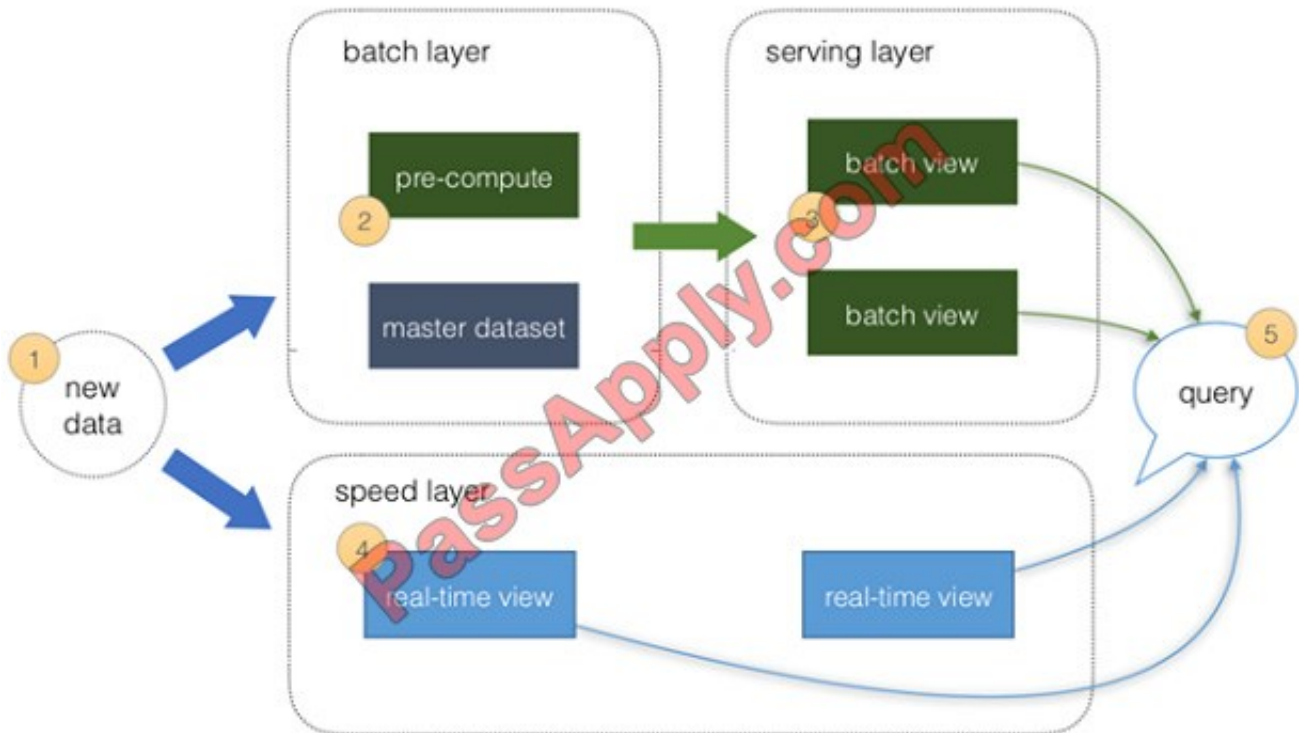
5.

Azure Functions

6.

Azure App Service WebJobs

Note: Lambda architectures use batch-processing, stream-processing, and a serving layer to minimize the latency involved in querying big data.



Reference: <https://azure.microsoft.com/en-us/blog/lambda-architecture-using-azure-cosmosdb-faster-performance-low-tco-low-devops/> <https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/stream-processing> <https://docs.microsoft.com/en-us/azure/cosmos-db/lambda-architecture>

## QUESTION 2

A company has many applications. Each application is supported by separate on-premises databases. You must migrate the databases to Azure SQL Database. You have the following requirements:

1.

Organize databases into groups based on database usage.

2.

Define the maximum resource limit available for each group of databases.

You need to recommend technologies to scale the databases to support expected increases in demand.



What should you recommend?

- A. Read scale-out
- B. Managed instances
- C. Elastic pools
- D. Database sharding

Correct Answer: C

SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single Azure SQL Database server

and share a set number of resources at a set price.

You can configure resources for the pool based either on the DTU-based purchasing model or the vCore-based purchasing model.

Incorrect Answers:

D: Database sharding is a type of horizontal partitioning that splits large databases into smaller components, which are faster and easier to manage.

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

### QUESTION 3

DRAG DROP

You have data on the 75,000 employees of your company. The data contains the properties shown in the following table.

Name	Data populated	Unique values	Distinct values
Employee ID	100%	Each value is unique	75,000
Employee Surname	99%	50% of values are unique	40,000
Employee Given Name	98%	40% of values are unique	20,000
Employee Birth Date	99%	20% of values are unique	200
Employment Start Date	100%	10% of values are unique	100
Current Department	100%	0% of values are unique	25

You need to store the employee data in an Azure Cosmos DB container. Most queries on the data will filter by the Current Department and the Employee Surname properties.

Which partition key and item ID should you use for the container? To answer, select the appropriate options in the



answer area.

NOTE: Each correct selection is worth one point.

Select and Place:

Employee ID    Employee Surname    Current Department

PassApply.com

Answer Area

Partition key:

Item ID:

Correct Answer:

   Employee Surname   

PassApply.com

Answer Area

Partition key:

Item ID:

Partition key: Current Department Item ID: Employee ID References:

<https://docs.microsoft.com/en-us/rest/api/storageservices/designing-a-scalable-partitioning-strategy-for-azure-table-storage>

#### QUESTION 4

You are designing a data storage solution for a database that is expected to grow to 50 TB. The usage pattern is singleton inserts, singleton updates, and reporting. Which storage solution should you use?

- A. Azure SQL. Database elastic pools
- B. Azure SQL Data Warehouse
- C. Azure Cosmos DB that uses the Gremlin API
- D. Azure SQL Database Hyperscale

Correct Answer: D



A Hyperscale database is an Azure SQL database in the Hyperscale service tier that is backed by the Hyperscale scale-out storage technology. A Hyperscale database supports up to 100 TB of data and provides high throughput and performance, as well as rapid scaling to adapt to the workload requirements. Scaling is transparent to the application connectivity, query processing, etc. work like any other Azure SQL database.

Incorrect Answers:

A: SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single Azure SQL Database server and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each database.

B: Rather than SQL Data Warehouse, consider other options for operational (OLTP) workloads that have large numbers of singleton selects.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-service-tier-hyperscale-faq>

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## QUESTION 5

References: <https://docs.microsoft.com/bs-cyrl-ba/azure/architecture/example-scenario/data/realtime-analytics-vehicle-iot?view=azurermps-4.4.1>

You need to design the authentication and authorization methods for sensors.

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

NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

Requirement	Method
Authentication	<ul style="list-style-type: none"><li>HMAC header</li><li>Resource Token</li><li>Azure Managed Identity</li><li>Storage account connection string</li></ul>
Authorization	<ul style="list-style-type: none"><li>Custom RBAC role</li><li>Cosmos DB user</li><li>Azure Active Directory user</li><li>IoT device identity</li></ul>

Correct Answer:



## Answer Area

Requirement	Method
Authentication	<div style="border: 1px solid black; padding: 5px;"><div style="text-align: right;">▼</div><ul style="list-style-type: none"><li>HMAC header</li><li style="background-color: #e0f2f1;">Resource Token</li><li>Azure Managed Identity</li><li>Storage account connection string</li></ul></div>
Authorization	<div style="border: 1px solid black; padding: 5px;"><div style="text-align: right;">▼</div><ul style="list-style-type: none"><li>Custom RBAC role</li><li style="background-color: #e0f2f1;">Cosmos DB user</li><li>Azure Active Directory user</li><li>IoT device identity</li></ul></div>

Sensor data must be stored in a Cosmos DB named treydata in a collection named SensorData

Sensors must have permission only to add items to the SensorData collection

Box 1: Resource Token

Resource tokens provide access to the application resources within a Cosmos DB database.

Enable clients to read, write, and delete resources in the Cosmos DB account according to the permissions they've been granted.

Box 2: Cosmos DB user

You can use a resource token (by creating Cosmos DB users and permissions) when you want to provide access to resources in your Cosmos DB account to a client that cannot be trusted with the master key.

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/secure-access-to-data>

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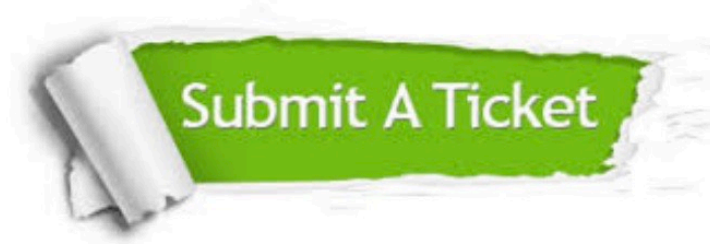
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