



DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

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 streaming data that is received by Azure Event Hubs and stored in Azure Blob storage. The data contains social media posts that relate to a keyword of Contoso.

You need to count how many times the Contoso keyword and a keyword of Litware appear in the same post every 30 seconds. The data must be available to Microsoft Power BI in near real-time.

Solution: You create an Azure Stream Analytics job that uses an input from Event Hubs to count the posts that have the specified keywords, then and send the data directly to Power BI.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

DirectQuery mode is required for automatic page refresh.

Reference: <https://docs.microsoft.com/en-us/power-bi/service-real-time-streaming> <https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-twitter-sentiment-analysis-trends>

QUESTION 2

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 plan to store delimited text files in an Azure Data Lake Storage account that will be organized into department folders.

You need to configure data access so that users see only the files in their respective department folder.

Solution: From the storage account, you enable a hierarchical namespace, and you use RBAC.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B



Disable the hierarchical namespace. And instead of RBAC use access control lists (ACLs).

Note: Azure Data Lake Storage implements an access control model that derives from HDFS, which in turn derives from the POSIX access control model.

Blob container ACLs does not support the hierarchical namespace, so it must be disabled.

References:

<https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-known-issues>

<https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-access-control>

QUESTION 3

You need to design the vehicle images storage solution. What should you recommend?

- A. Azure Media Services
- B. Azure Premium Storage account
- C. Azure Redis Cache
- D. Azure Cosmos DB

Correct Answer: B

Premium Storage stores data on the latest technology Solid State Drives (SSDs) whereas Standard Storage stores data on Hard Disk Drives (HDDs). Premium Storage is designed for Azure Virtual Machine workloads which require

consistent high IO performance and low latency in order to host IO intensive workloads like OLTP, Big Data, and Data Warehousing on platforms like SQL Server, MongoDB, Cassandra, and others. With Premium Storage, more customers

will be able to lift-and-shift demanding enterprise applications to the cloud.

Scenario: Traffic sensors will occasionally capture an image of a vehicle for debugging purposes.

You must optimize performance of saving/storing vehicle images.

The impact of vehicle images on sensor data throughout must be minimized.

References:

<https://azure.microsoft.com/es-es/blog/introducing-premium-storage-high-performance-storage-for-azure-virtual-machine-workloads/>

QUESTION 4

You need to ensure that security policies for the unauthorized detection system are met. 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

| Setting | Value |
|-----------------------|---|
| Audit log destination | <ul style="list-style-type: none">Storage queueEvent HubEvent GridBlob storage |
| Detection app service | <ul style="list-style-type: none">Function AppWeb AppAPI App |

Correct Answer:



Answer Area

| Setting | Value |
|-----------------------|--|
| Audit log destination | <div style="border: 1px solid gray; padding: 5px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;">▼</div><ul style="list-style-type: none">Storage queueEvent HubEvent Grid<li style="background-color: #d9ead3;">Blob storage</div> |
| Detection app service | <div style="border: 1px solid gray; padding: 5px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;">▼</div><ul style="list-style-type: none">Function App<li style="background-color: #d9ead3;">Web AppAPI App</div> |

Box 1: Blob storage

Configure blob storage for audit logs.

Scenario: Unauthorized usage of the Planning Assistance data must be detected as quickly as possible. Unauthorized usage is determined by looking for an unusual pattern of usage.

Data used for Planning Assistance must be stored in a sharded Azure SQL Database.

Box 2: Web Apps

SQL Advanced Threat Protection (ATP) is to be used.

One of Azure's most popular services is App Service which enables customers to build and host web applications in the programming language of their choice without managing infrastructure. App Service offers auto-scaling and high

availability, supports both Windows and Linux. It also supports automated deployments from GitHub, Visual Studio Team Services or any Git repository. At RSA, we announced that Azure Security Center leverages the scale of the cloud to

identify attacks targeting App Service applications.

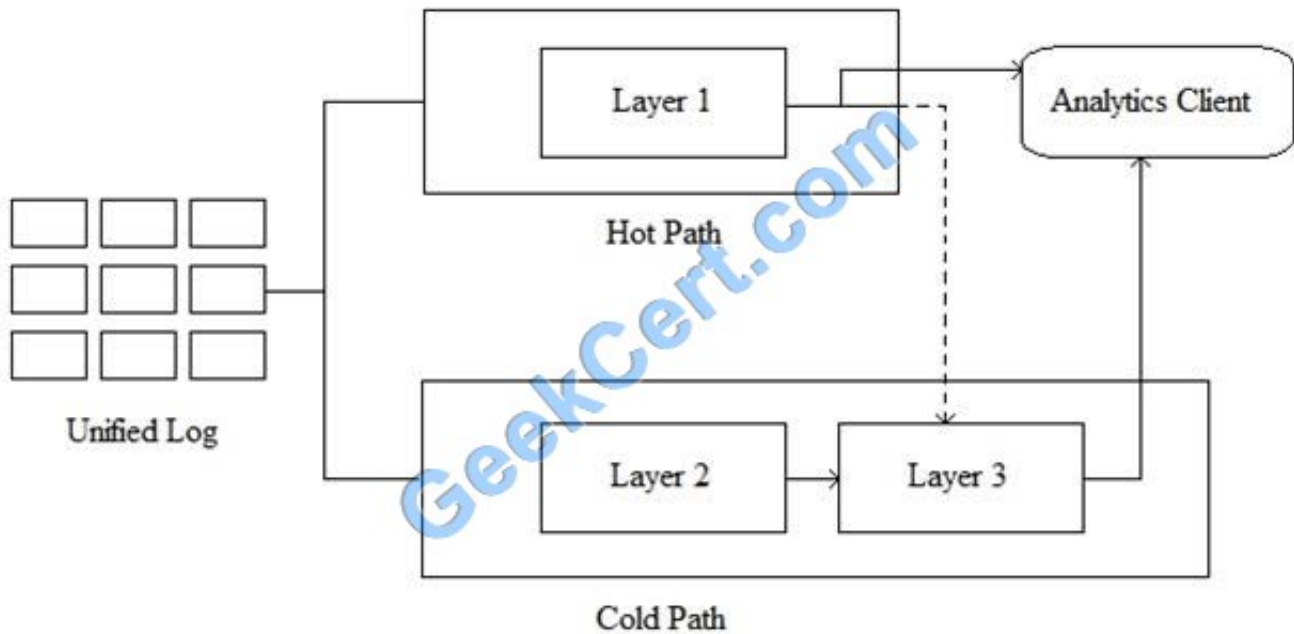
References:

<https://azure.microsoft.com/sv-se/blog/azure-security-center-can-identify-attacks-targeting-azure-app-service-applications/>



QUESTION 5

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 Databricks
- B. Azure SQL Database
- C. Azure Data Factory
- D. Azure Database for PostgreSQL

Correct Answer: A

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



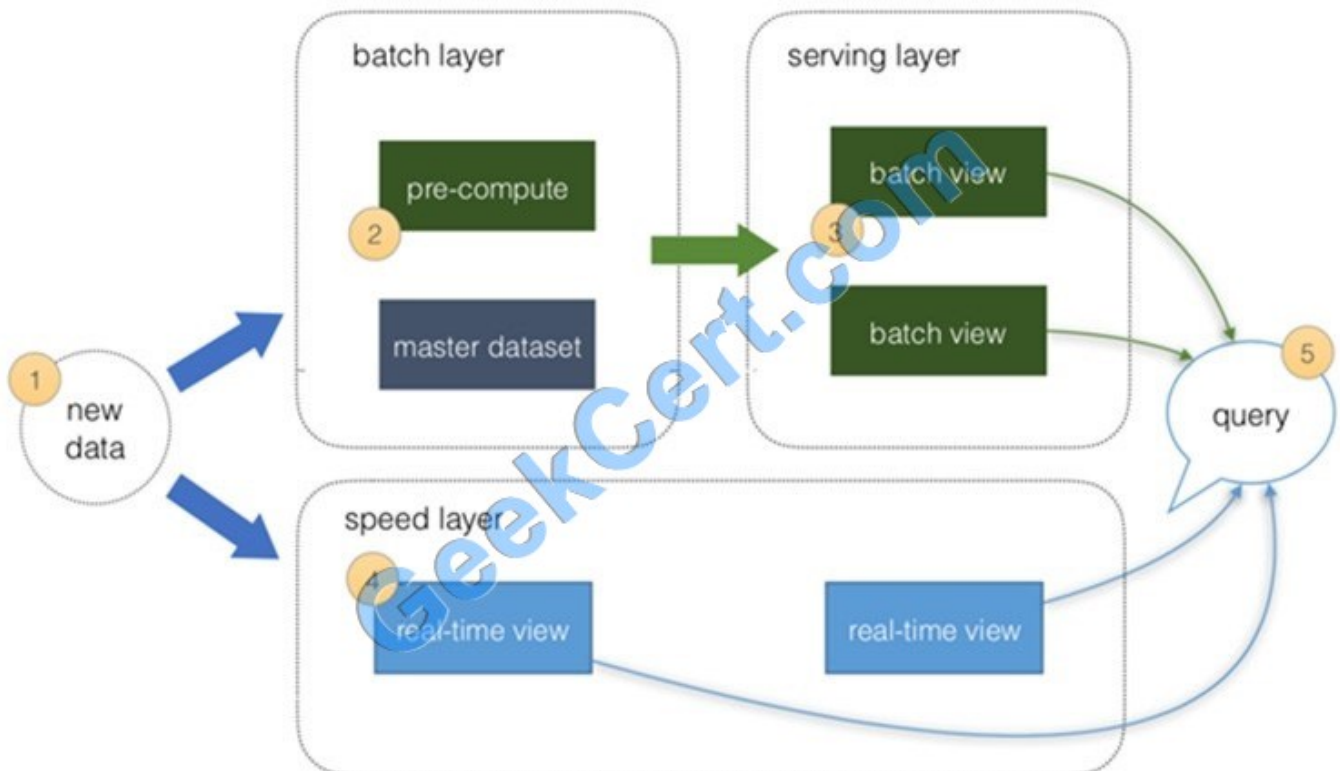
5.

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.



References: <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>

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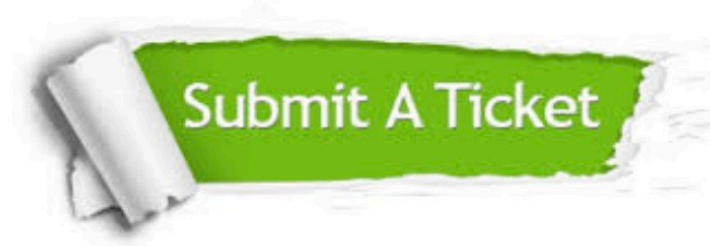
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