



DP-201^{Q&As}

Designing an Azure Data Solution

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**QUESTION 1**

A company purchases IoT devices to monitor manufacturing machinery. The company uses an IoT appliance to communicate with the IoT devices.

The company must be able to monitor the devices in real-time.

You need to design the solution.

What should you recommend?

- A. Azure Analysis Services using Azure Portal
- B. Azure Analysis Services using Microsoft Visual Studio
- C. Azure Stream Analytics Edge application using Microsoft Visual Studio
- D. Azure Data Factory instance using Microsoft Visual Studio

Correct Answer: C

Stream Analytics is a cost-effective event processing engine that helps uncover real-time insights from devices, sensors, infrastructure, applications and data quickly and easily.

Visual Studio 2019 and Visual Studio 2017 support Stream Analytics Tools.

Note: You can also monitor and manage Stream Analytics resources with Azure PowerShell cmdlets and powershell scripting that execute basic Stream Analytics tasks.

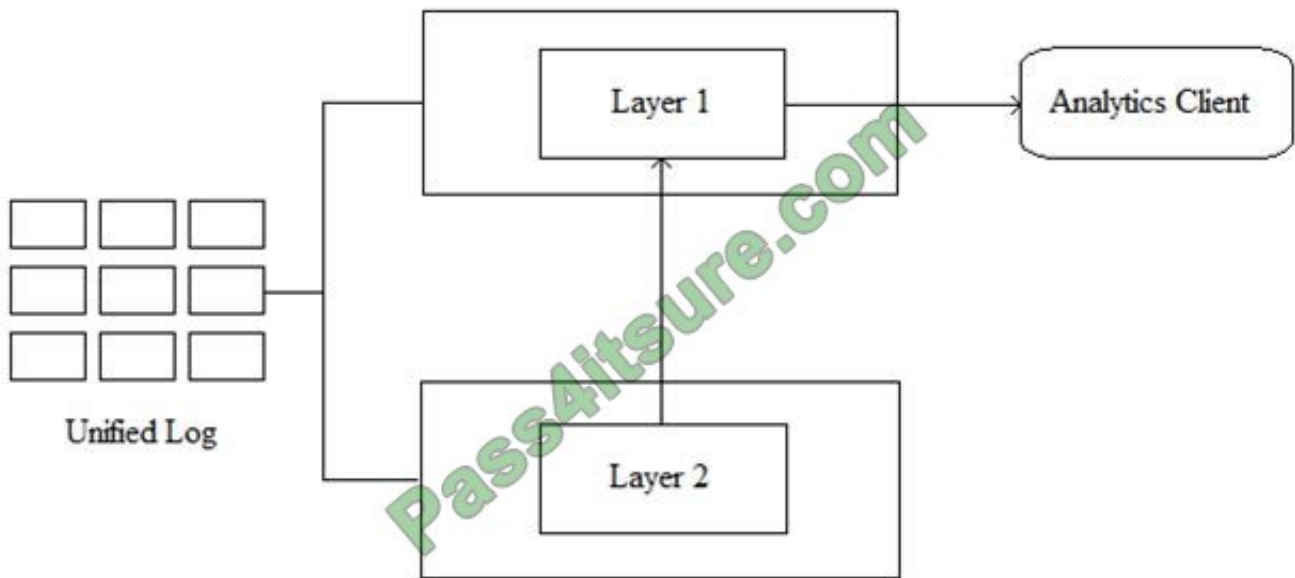
Reference:

<https://cloudblogs.microsoft.com/sqlserver/2014/10/29/microsoft-adds-iot-streaming-analytics-data-production-and-workflow-services-to-azure/>

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-tools-for-visual-studio-install>

QUESTION 2**HOTSPOT**

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



Which Azure service should you use for each layer? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Layer 1:

	▼
Azure Cosmos DB	
Azure Data Catalog	
Azure Data Factory	
Azure SQL Data Warehouse	

Layer 2:

	▼
Azure Data Factory	
Azure Databricks	
Azure SQL Data Warehouse	
Azure Stream Analytics	

Correct Answer:



Answer Area

Layer 1:

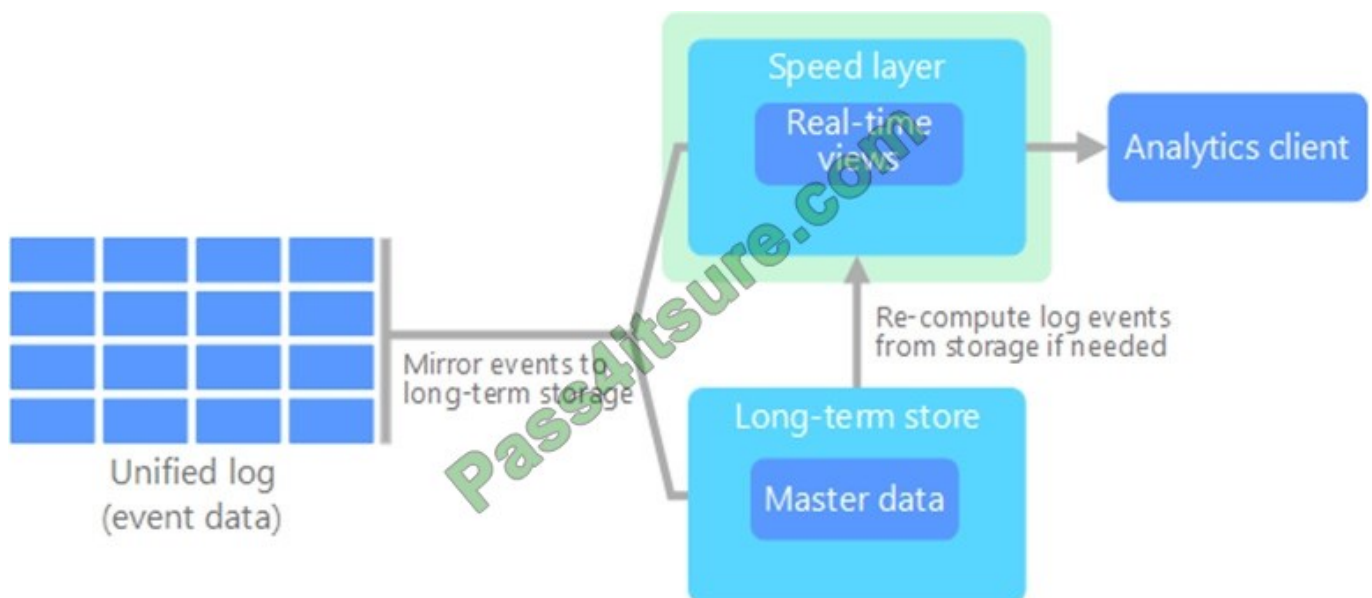
Azure Cosmos DB
Azure Data Catalog
Azure Data Factory
Azure SQL Data Warehouse

Layer 2:

Azure Data Factory
Azure Databricks
Azure SQL Data Warehouse
Azure Stream Analytics

Explanation: Layer 1: Azure Data Factory Layer 2: Azure Databricks

Azure Databricks is fully integrated with Azure Data Factory .



References: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/big-data/>

QUESTION 3

You are designing a solution for the ad hoc analysis of data in Azure Databricks notebooks. The data will be stored in



Azure Blob storage.

You need to ensure that Blob storage will support the recovery of the data if the data is overwritten accidentally.

What should you recommend?

- A. Enable soft delete.
- B. Add a resource lock.
- C. Enable diagnostics logging.
- D. Use read-access geo-redundant storage (RA-GRS).

Correct Answer: A

Soft delete protects blob data from being accidentally or erroneously modified or deleted. When soft delete is enabled for a storage account, blobs, blob versions (preview), and snapshots in that storage account may be recovered after they are deleted, within a retention period that you specify.

Reference: <https://docs.microsoft.com/en-us/azure/storage/blobs/soft-delete-overview>

QUESTION 4

What should you recommend using to secure sensitive customer contact information?

- A. data labels
- B. column-level security
- C. row-level security
- D. Transparent Data Encryption (TDE)

Correct Answer: B

Scenario: All cloud data must be encrypted at rest and in transit.

Always Encrypted is a feature designed to protect sensitive data stored in specific database columns from access (for example, credit card numbers, national identification numbers, or data on a need to know basis). This includes database administrators or other privileged users who are authorized to access the database to perform management tasks, but have no business need to access the particular data in the encrypted columns. The data is always encrypted, which means the encrypted data is decrypted only for processing by client applications with access to the encryption key.

Incorrect Answers:

A: Transparent Data Encryption (TDE) encrypts SQL Server, Azure SQL Database, and Azure SQL Data Warehouse data files, known as encrypting data at rest. TDE does not provide encryption across communication channels.

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

QUESTION 5



You need to design a solution to meet the SQL Server storage requirements for CONT_SQL3. Which type of disk should you recommend?

- A. Standard SSD Managed Disk
- B. Premium SSD Managed Disk
- C. Ultra SSD Managed Disk

Correct Answer: C

CONT_SQL3 requires an initial scale of 35000 IOPS. Ultra SSD Managed Disk Offerings

Disk size (GiB)	4	8	16	32	64	128	256	512	1,024-65,536 (in increments of 1 TiB)
IOPS range	100-1,200	100-2,400	100-4,800	100-9,600	100-19,200	100-38,400	100-76,800	100-153,600	100-160,000
Throughput Cap (MBps)	300	600	1,200	2,000	2,000	2,000	2,000	2,000	2,000

The following table provides a comparison of ultra solid-state-drives (SSD) (preview), premium SSD, standard SSD, and standard hard disk drives (HDD) for managed disks to help you decide what to use.

	Ultra SSD (preview)	Premium SSD	Standard SSD	Standard HDD
Disk type	SSD	SSD	SSD	HDD
Scenario	IO-intensive workloads such as SAP HANA, top tier databases (for example, SQL, Oracle), and other transaction-heavy workloads	Production and performance sensitive workloads	Web servers, lightly used enterprise applications and dev/test	Backup, non-critical, infrequent access
Disk size	65,536 gibibyte (GiB) (Preview)	32,767 GiB	32,767 GiB	32,767 GiB
Max throughput	2,000 MiB/s (Preview)	900 MiB/s	750 MiB/s	500 MiB/s
Max IOPS	160,000 (Preview)	20,000	6,000	2,000

References: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disks-types>



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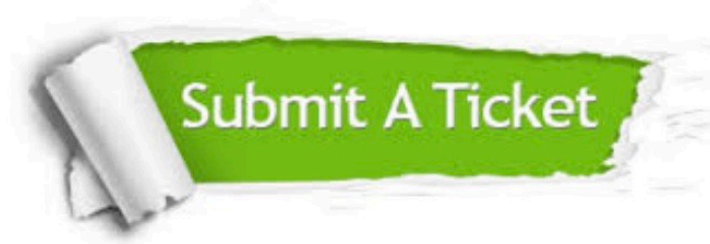
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<https://www.pass4itsure.com/allproducts>

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