Mastering Kusto Query
Language (KQL):
Your Gateway to Azure
Monitoring and Insights

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## **Kusto Query Language**



- Optimized query language with visualization options
- For fast read-only data retrieval
- Troubleshooting & deep diagnostics
- Real-time stream / big data analytics

Use KQL to connect and query these Azure Services:











#### 2014

Kusto started in 2014 as internal Microsoft project to address Azure services' needs 2016

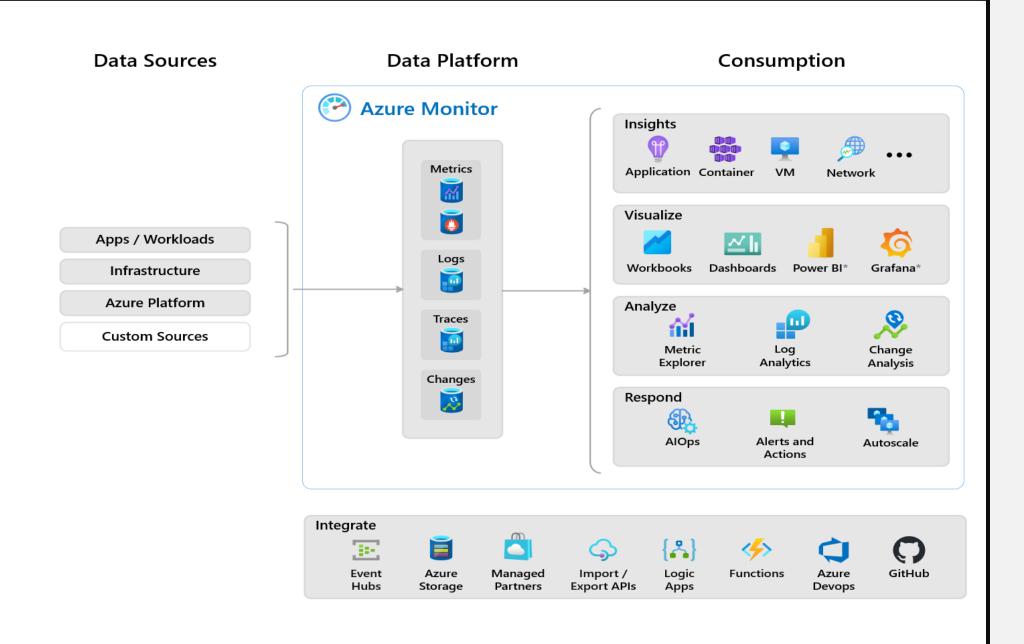
It became a backend of Application Insights Analytics

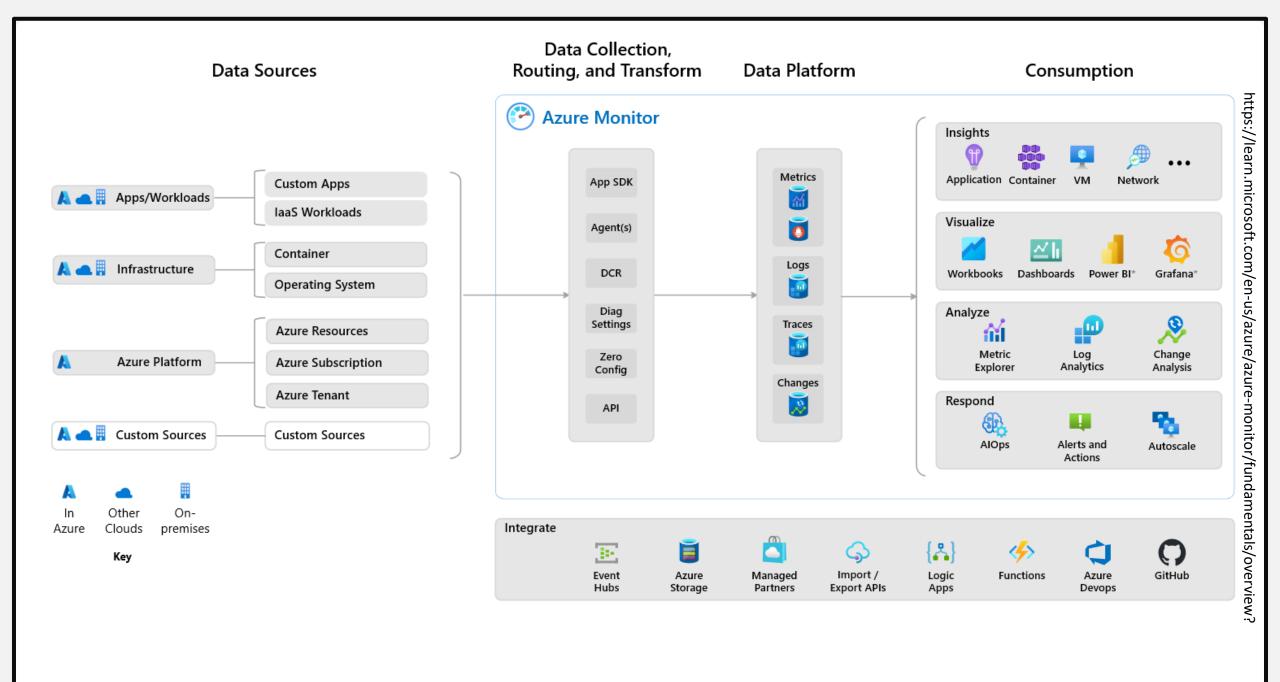
2018

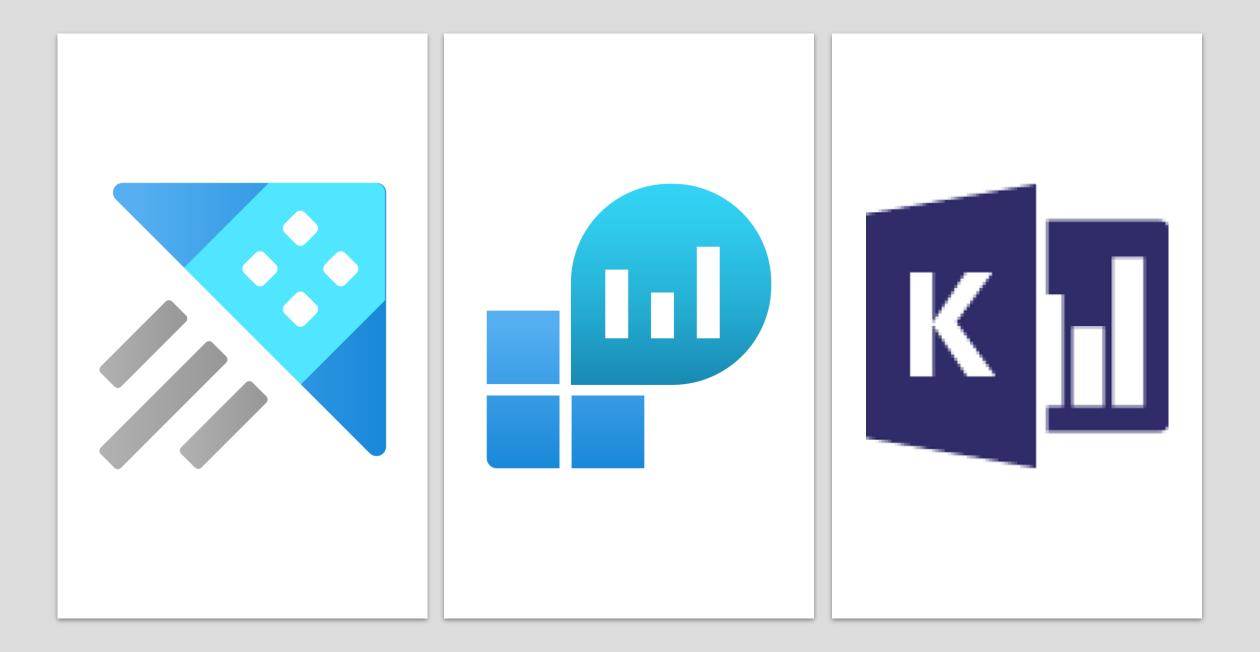
Microsoft
announced a
Public Preview of
the <u>Azure Data</u>
<u>Explorer</u> service
built on top of
Kusto engine

2020

General
Availability
announced,
marking full
production
readiness and
enterprise
adoption







## Not another one, can I use TSQL?

- ➤ Azure Monitor NO
- ➤ Azure Data Explorer YES

While <u>SQL Queries</u> to Kusto are supported, the primary means of interaction with Kusto is through the use of the <u>Kusto query</u> <u>language</u> to send data queries, and through the use of <u>control</u> <u>commands</u> to manage Kusto entities, discover metadata, etc.

# Primary means of interaction with Kusto is using the Kusto Query Language

## How can I learn?

# Check the reference slide

# Demo environment

 https://dataexplorer.azure.com/clusters/help/ databases



Azure Portal
Azure Data Explorer
Azure SQL Database

## Reference

- Azure Monitor overview
- Get started with log queries in Azure Monitor
- Tutorial: Learn common operators
- Tutorial: Use aggregation functions
- Tutorial: join data from multiple tables
- Tutorial: Create geospatial visualizations
- Tutorial: Create your first graphs in Kusto Query Language
- SQL to Kusto Query Language cheat sheet
- Azure Data Explorer documentation
- Kusto. Explorer installation and user interface
- Log Analytics Advanced Queries by Marc Kean

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