









FastTrack Recognized Solution Architect Power BI 2022 >>



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Agenda

The Kusto engine

Data modelling in Power BI

Runthrough of the Fabric Kusto

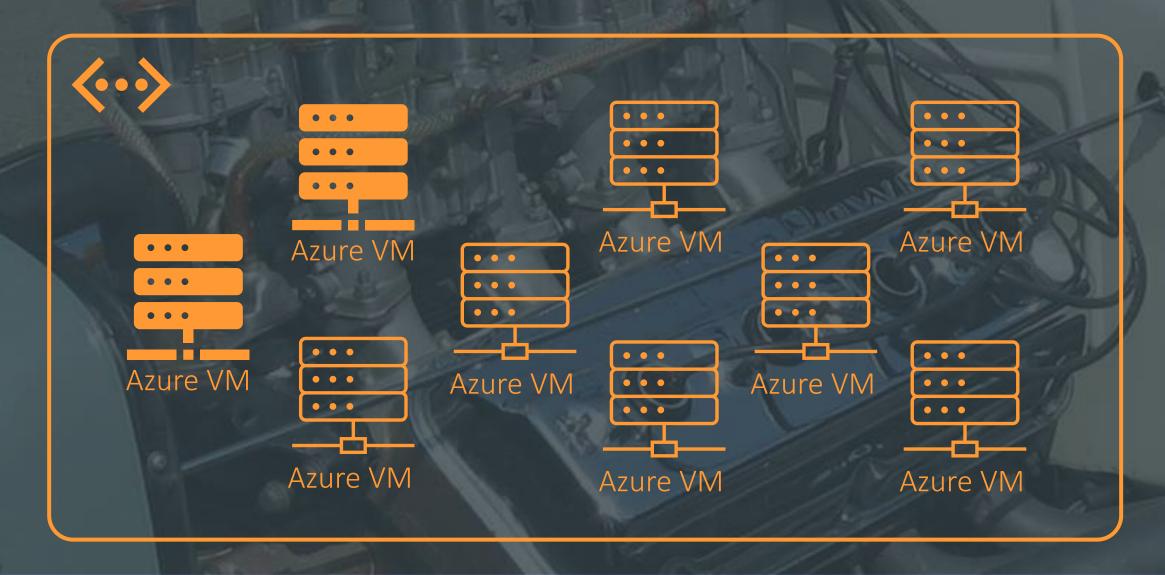
Demo

Azure Data Explorer

Synapse Data Explorer Fabric KQL database

Kusto engine

- Distributed engine on several disks (SSD or spinning)
- Columnar storage → read only needed columns and not all data
- Clusters are Azure VMs → highly parallel
 - For Fabric we don't know yet
- Read-only, delete rarely and no updates
- Fast ingestion → no consistency checks





Admin node:

responsible for maintaining the overall cluster metadata

Query Head:

Responsible for accepting and processing Kusto query, when you see, Kusto engine or Kusto query planer, usually refer to query head node.

Data Node:

The most common role, like its name indicates, this node is responsible for: first. storing data; second. contribute the CPU and memory when executing the Kusto query.

Gateway Node:

Responsible for processing external API calls, authentication, and request dispatches.



Ⅲ Customer

Some standard guidelines of data modelling does not apply

• Single table reporting can be a good option, if you can include all columns from dimensions to

Date

the table sales Amount

Marital State

M:M relations are hard to avoid, but not a big

Education

Occupation

CustomerKey

The table sales Amount

Droduct

To avoid, but not a big

Product Name

Reduct Name

deal

all queries will be translated to KQL



Star schema is fine if you follow some guidelines:

- All dimensions must be tagged with "IsDimension=true" – demo later
 - Use only measures (or columns from dimensions)
 - do not use columns from fact tables
 - Dimensions can be imported if they are <1 mio

rows.

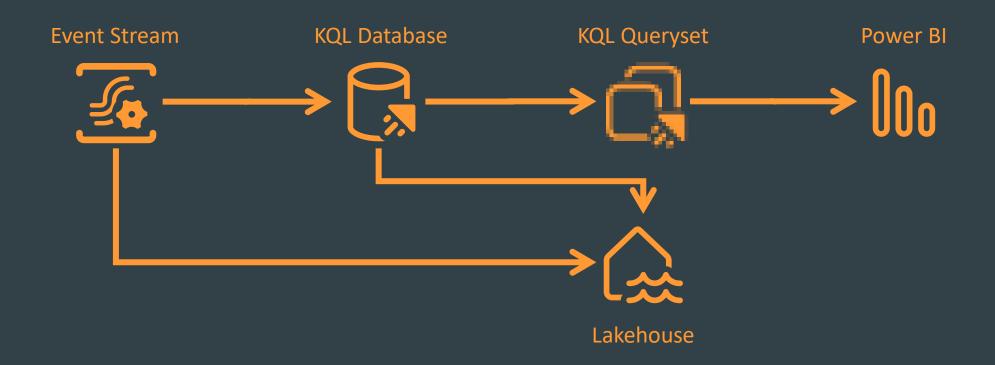
Continent

Customer

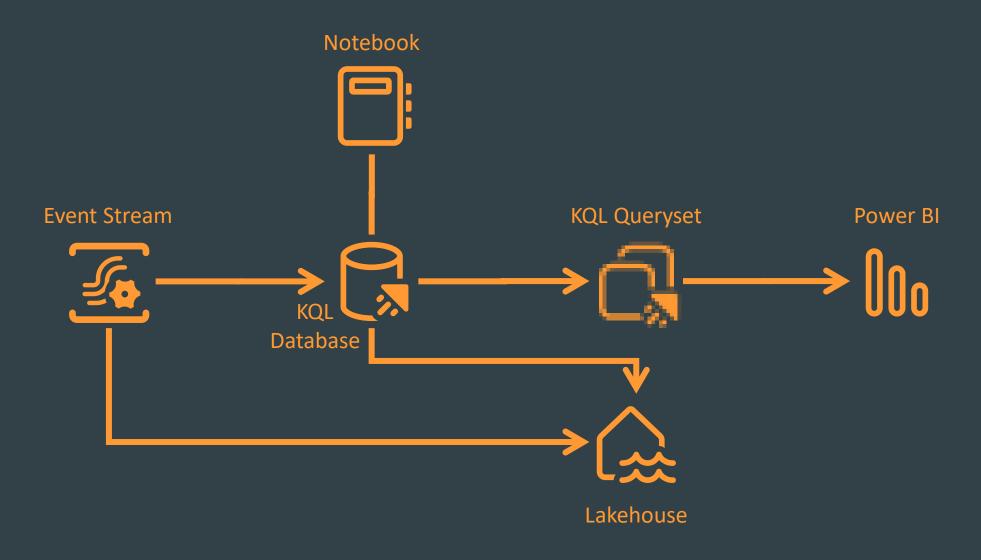
CountryRegion

Marital Status

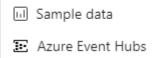
Kusto in Fabric – aka Real-Time Analytics



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Kusto experience in Fabric













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