

Real-Time Hub: Starting Point of Real-Time Intelligence in Fabric

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- Data & AI Architect by trade
- Racing driver by hobby
- Lived in Atlanta twice in my life



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Want to become a speaker or mentor?



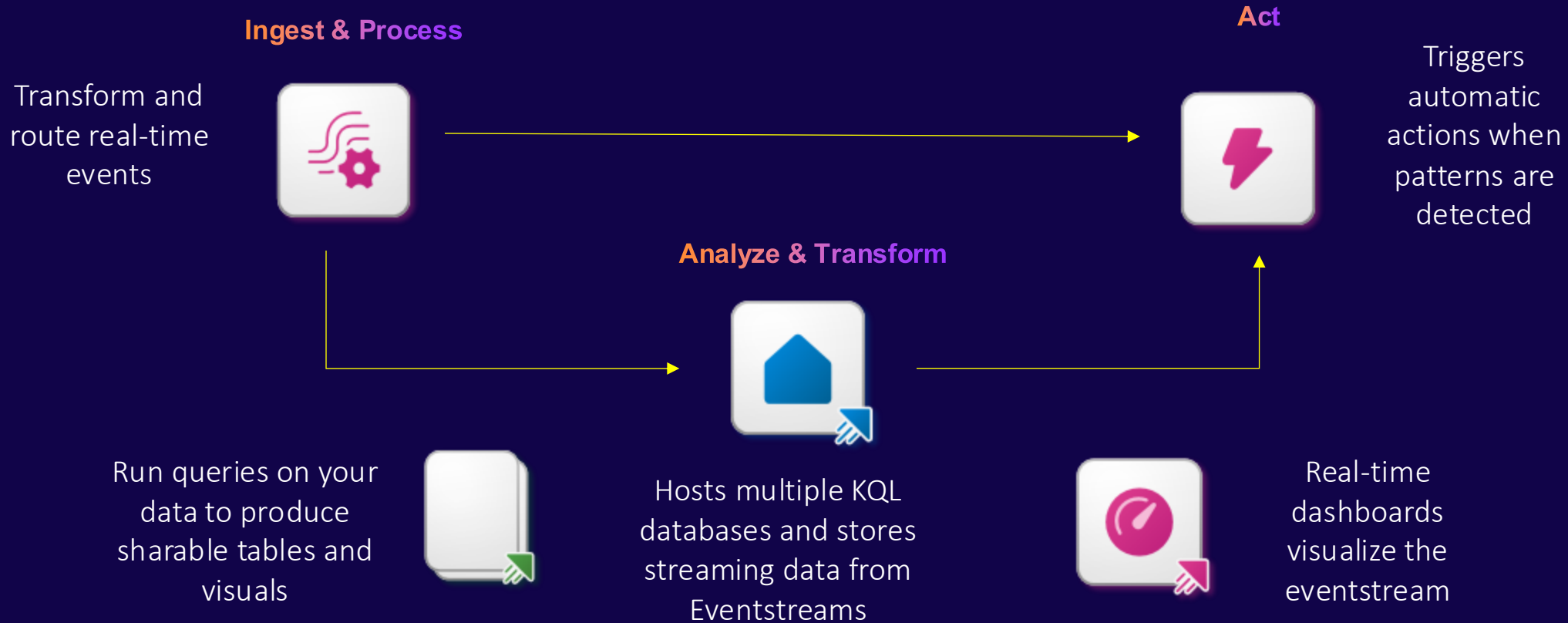
newstarsofdata.com

5/16/2025

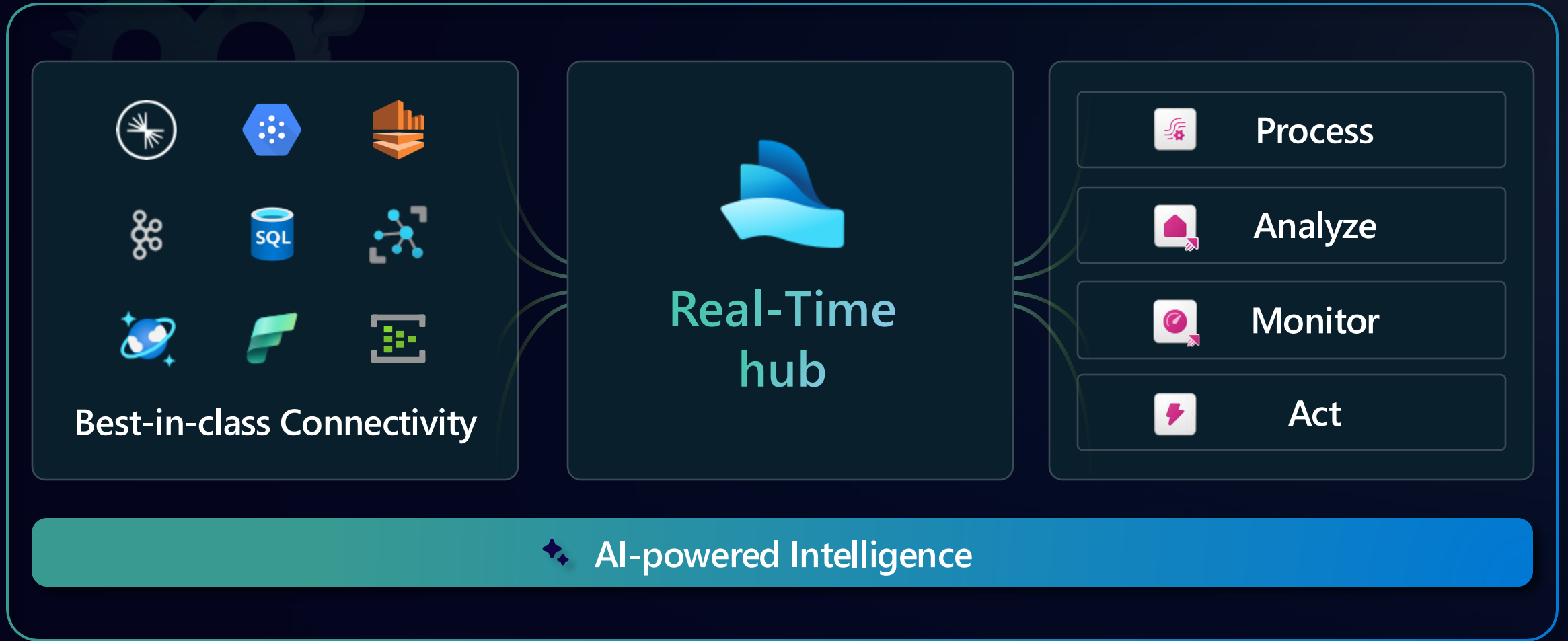


Call for Speakers & Helpers is open!

Fabric Real-Time Intelligence



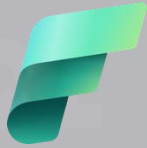
Streaming data in Fabric





Fabric Real-Time Hub

Data streams



Microsoft sources



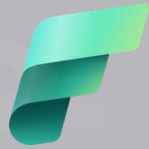
Fabric events





Fabric Real-Time Hub

Data streams



Microsoft sources



Fabric events



Fabric
workspace item
events



Azure blob
storage events



A close-up of the Muppet character Elmo, who is red with large white eyes and a red nose. He is positioned in front of a bright, orange and yellow fire that fills the background. The fire is intense and appears to be consuming something, with smoke rising from it. Elmo's expression is neutral, looking directly at the camera.

DEMO

(hopefully our sacrifices to the
demo gods prove sufficient)

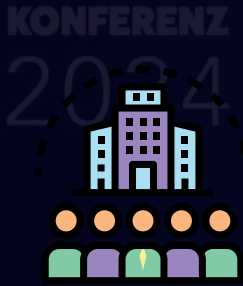
Perspectives and Usage



Perspectives and usage



Event based data loading



Governance



Data discovery

What's the Latest?



Real-Time Hub – New Fabric Events

New Events:

- OneLake events
- Job events
- Capacity Utilization events

The screenshot shows the 'Real-Time hub (preview)' interface. On the left is a sidebar with navigation links: Home, Workspaces, OneLake data hub, Monitor, Real-Time hub (selected), Workloads, and My workspace. The main content area is titled 'Fabric events' and includes a description: 'This list includes all the system events generated in Fabric that you can access. An event can be monitored and rules set that will send notifications or perform actions when activated.' Below this is a table with two columns: 'Name' and 'Description'.

Name	Description
Azure Blob Storage events	Events produced by Azure blob storage
Capacity utilization events	A catalog of the capacity utilization event types produced by Fabric
Job events	A catalog of the job activity event types produced by Fabric
Fabric workspace item events	Events produced by Workspace items in Fabric
Onelake events	Events produced by Onelake items in Fabric

The screenshot shows the 'Fabric OneLake item events' category page. It includes a 'Stay on top of your events' section with a 'Set alert' button. Below this is a table titled 'See what's using this category' showing items using the category. On the right is a 'Fabric workspace item events profile' section with a list of schemas.

Name	Type	Workspace	Source
MyReflex1	Reflex	My workspace	Lakehouse1
MyReflex2	Reflex	My workspace	Lakehouse1

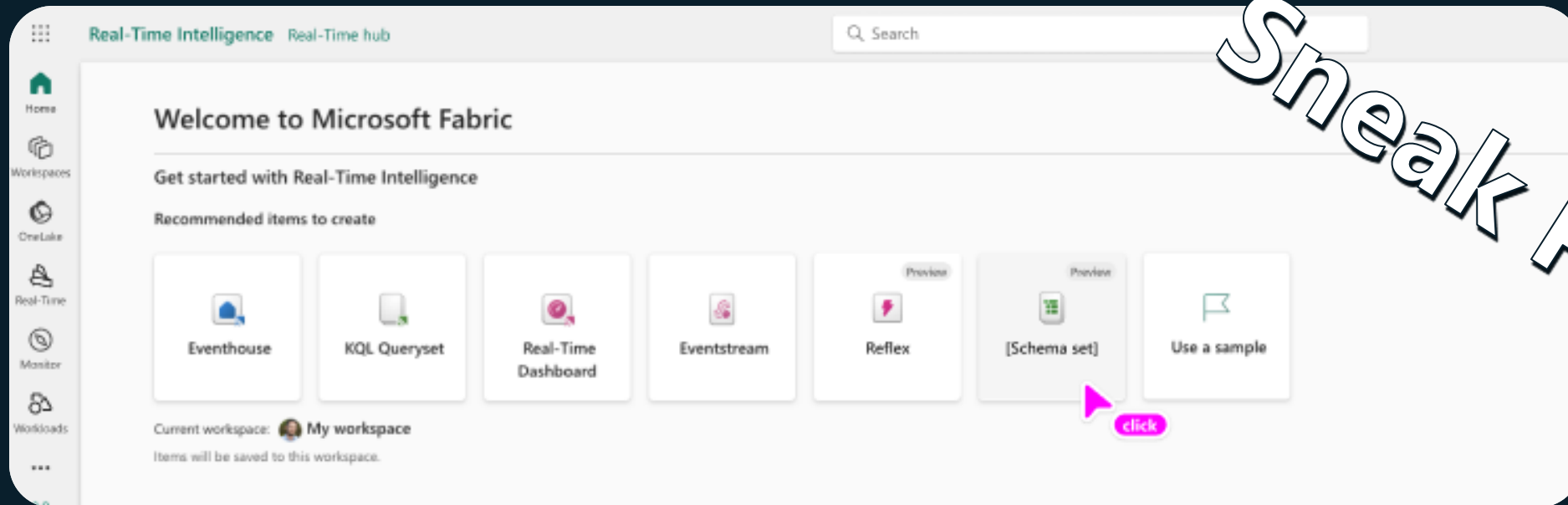
Fabric workspace item events profile

Schemas

- > Microsoft.Fabric.OneLake.FileCreated
- > Microsoft.Fabric.OneLake.FileDeleted
- > Microsoft.Fabric.OneLake.FileRenamed
- > Microsoft.Fabric.OneLake.FolderCreated
- > Microsoft.Fabric.OneLake.FolderDeleted
- > Microsoft.Fabric.OneLake.FolderRenamed



Real-Time Hub – Schema Management



Data Quality:
Schematized data gives us a more complete picture.



Data Governance:
Granular RBAC (Role-Based Access Control) policies.



Visibility and Collaboration:
Cross tenant visibility via the Event Catalog UI.



Support for Schema Evolution:
Support for changes and updates to schemas over time.



Support for Versioning:
Automatic versioning and tracking of schema versions.



Schema Validation:
With compatibility for backward, forward, and no compatibility checks.



Real-Time Intelligence - What's New!

Data Sources

- AWS MSK *prev*
- Apache Kafka *prev*
- Azure SQL MI CDC *prev*
- SQL on VM DB CDC *prev*

Ingest/Process

- Private Endpoints *prev*
- Eventhouse destination

Analyze/Explore

- New stream live view
- Eventhouse monitoring *prev*
- Eventhouse/KQLDB CI/CD
- Inbound network isolation
- Perf/Cost optimization

Act

- KQL Query Set alerts
- New rule design experience
- Improved Rule Performance
- Rules directly on events
- Simpler model groups exp



Real-Time hub

Central place to discover data and launch all related tasks

- New Left-Nav experience
- Auto-create real-time dashboard

Questions?

Want To Learn More?

RTI-in-a-"Day" Workshop



Thank you

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