

Azure Stream Analytics

Real-Time Visualization in Microsoft Power BI

Learning Objectives

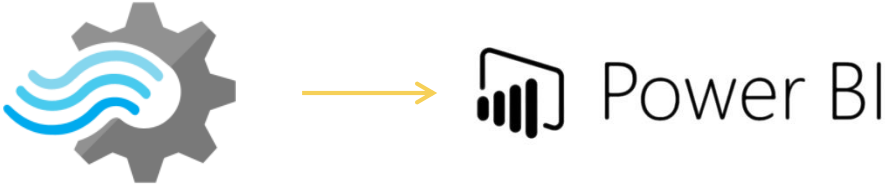
Azure Stream Analytics: Real-Time Visualization in Microsoft Power BI



- **What is Real-Time data visualization?**
- **How do I set up an output in ASA to view the information in PowerBI?**
- **What visualization options does PowerBI offer?**

Introducing Real-Time Visualization

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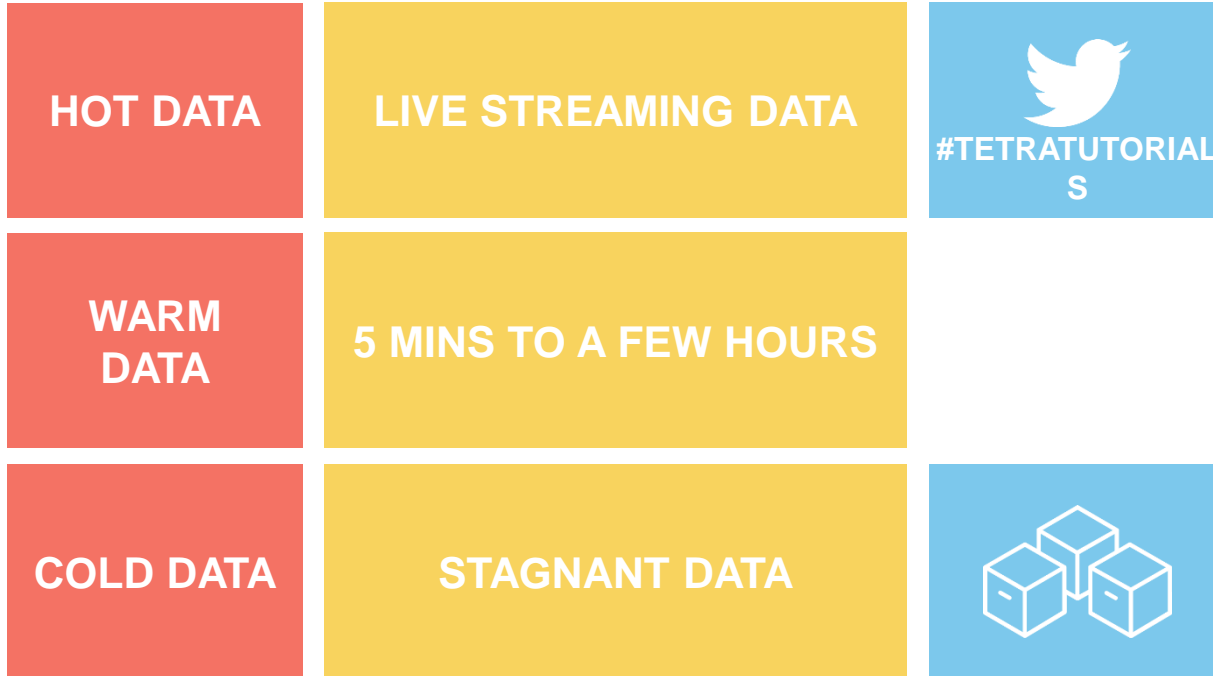


REAL-TIME VISUALIZATIONS



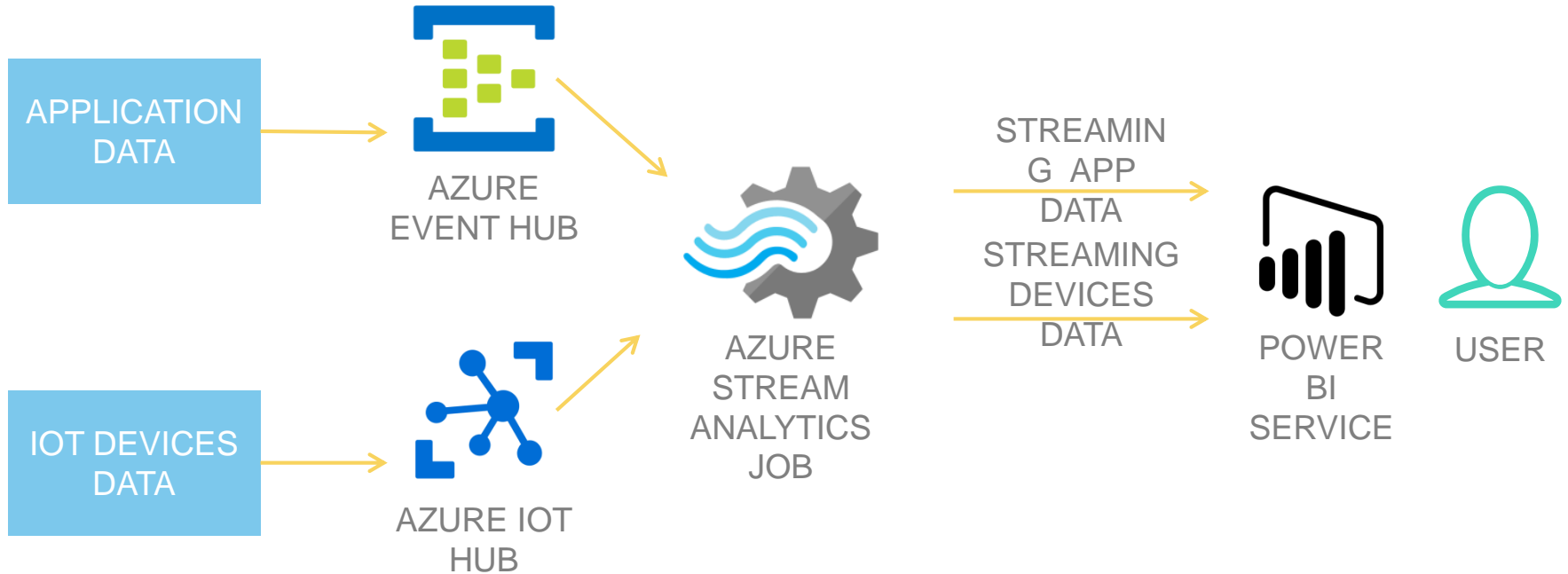
The Three Tier Data Model

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Streaming Visualization Architecture

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Connecting ASA to Power BI

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Create a PowerBI Output in ASA

Associate ASA with PowerBI

Complete Output Details

Save

Update Query



DEMO

Power BI Integration with ASA



Streaming Dataset

Some considerations



Power BI

TEMPORARY CACHE

NO DATABASE/PERSISTENCE

MINIMUM LATENCY

**5 REQUESTS/SECOND & 15
KB/REQUEST**



Real-Time Visualization: Within 0 to 5 seconds after creation

Three-Tier data model: Hot, Warm, and Cold data

PowerBI Output setup:

- **Select PowerBI Sink ASA**
- **Log in to you PowerBI account**
- **Complete your Output setup.**
- **Run your job**
- **View the results in PowerBI**

Power BI allows for many visualization options, each better-suited to display specific data



