



TLV Cloud Workshops

Boost Yourself Up To The Cloud



Azure Data Explorer

Big Data Interactive Analytics Platform

Public Preview

Oded Sacher, Partner Group Manager

Tzvia Gitlin Troyna, Product Manager

Kusto in a sentence
Undersea
Discovery and Adventure,



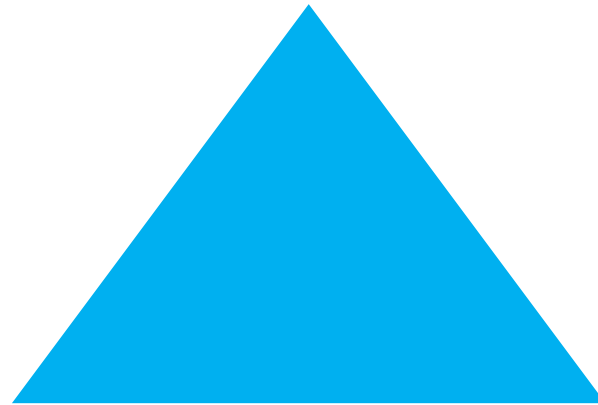
The 3 V's of Big Data

Volume

Store and query more data than can be handled by a single computing node, however large

Velocity

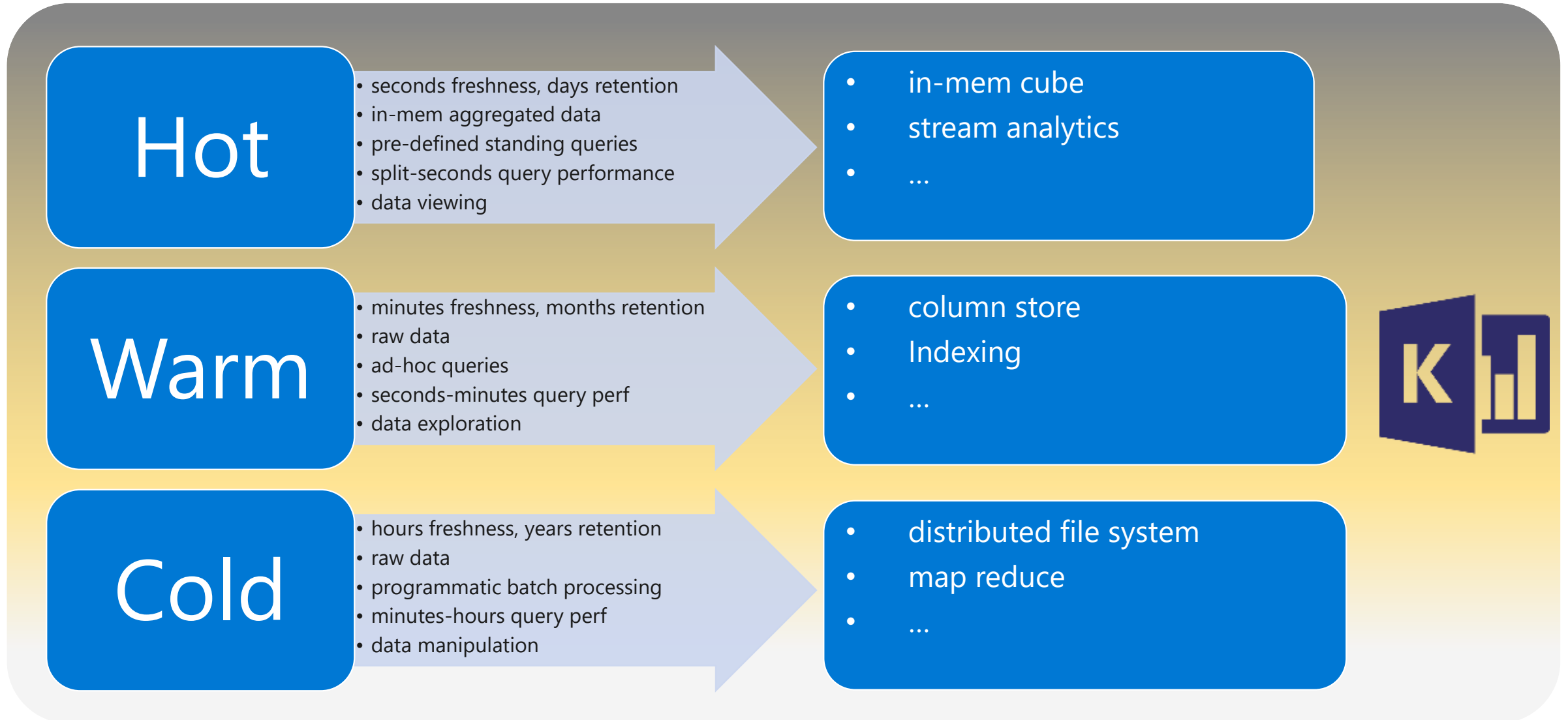
High data income rates, short latency in processing data



Variety

Different kinds of information in each record, lacking inherent structure or predictable size or rate of arrival

Multi-temperature data processing paths



Azure Data Explorer in a sentence

Any append-only stream of records

High volume
High velocity
High variance (structured, semi-structured, free-text; sources; unpredicted)

Relational query model:
Filter, aggregate, join, calculated columns, ...

Fully-managed

PaaS, Vanilla, Database

A big data analytics cloud platform

optimized for interactive, ad-hoc queries

Purposely built

Rapid iterations to explore the data



Demo – Exploring the ocean of data

Unique value proposition

High volume, throughput & low latency

Structured, semi-structured, free text data

Powerful & simple analytics query language

Extreme performance over large data sets

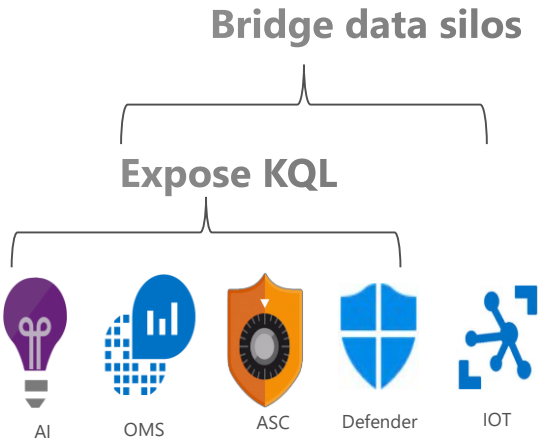
Our Journey



Foundation



Telemetry Analytics for internal



Analytics Data Platform for products

Kusto as a Platform
Azure Data Explorer

Interactive Analytics Big Data Platform

...	2015 - 2016	2017	2018
<p>Fulfill the missing parts? Founding team brainstorm ideas, coding Friends & family exposure</p>	<p>Starting with 1st party validation Building modern analytics Vision of analytics platform for MSFT</p>	<p>Analytics engine for 3rd party offers Unified platform across OMS/AI Expanded scenarios for IOT timeseries Bridged across client/server security</p>	<p>Currently on Public preview</p>

Ignite 2018: Announced to the world as Azure Data Explorer



Not a typical preview...



46

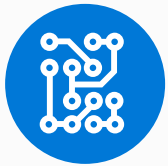
Regions in Azure



3.2 K

Cluster pairs (Engine + DM)

+90%



27.1 K

Nodes



370 K

Cores



267 PB

Total data size

+125%



7.2 PB

Data ingested per day

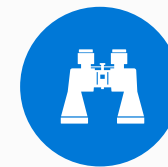
+120%



265 K

Databases

+150%



12.2 B

Total queries

+420%

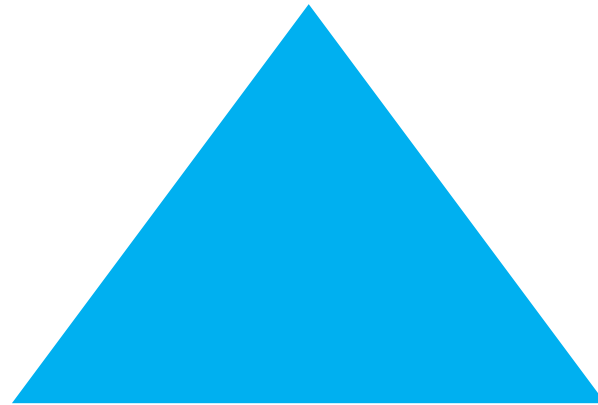
Azure data analytics



The 3's Product Principles

Powerful Service

"Kusto is the single most amazing technology in storage I have seen in the last ~10 years"



Addictive Experience

"religion of Kusto is getting more believers"

Customer focus

"Big, huge, enormous kudos to Kusto devs and ops. I think you guys offer the best support to Your customers compared to any team in Microsoft that I've worked with or even heard of"

Key usage patterns

Data platform for digital feedback loop

- **Enable** engineers, data scientists and product managers to get ad hoc insights from their product operation and activity telemetry

Data platform for interactive analytics products

- **Build** interactive data exploration features based on ADX data platform

Product links

- Product Page: <http://aka.ms/AzureDataExplorer>
- Announcement: <https://azure.microsoft.com/en-in/blog/introducing-azure-data-explorer/>
- Whitepaper: <https://azure.microsoft.com/en-us/resources/azure-data-explorer/en-us/>
- 101 blog: <https://azure.microsoft.com/en-us/blog/azure-data-explorer-technology-101/>
- Scott Guthrie's Keynote ([ADX Announcement/Demo](#))
- Rohan Kumar's Keynote ([ADX Announcement/Demo](#))
- Scott Guthrie's in Techorama ([Scott's demo](#))
- Docs: <https://docs.microsoft.com/en-us/azure/data-explorer>
- Pricing Page: <https://azure.microsoft.com/en-us/pricing/details/data-explorer/>
- Cost Estimator: <http://aka.ms/ADX.CostEstimator>
- User voice - <http://aka.ms/koustouservice>
- Course – Basics of KQL - <Http://aka.ms/KQLPluralsight>



Q&A
Just query it!