









Jacques-Yves Cousteau -> Kusto

### Proven Technology



In production since 2015 for internal Microsoft workload, GA since Feb 2019.

Battle tested for Microsoft internal workload

The platform for analytical solutions (SaaS)

Available as PaaS























Azure Monitor Log Analytics, Application Insights

Security Products
(MS Defender for Endpoint (MDATP),
MS Sentinel, MS Defender for IoT, MS Defender
for Cloud Apps (MCAS))



Azure IoT Central



Gaming platform

























https://aka.ms/adx.customers

## Introducing Azure Data Explorer aka Kusto!

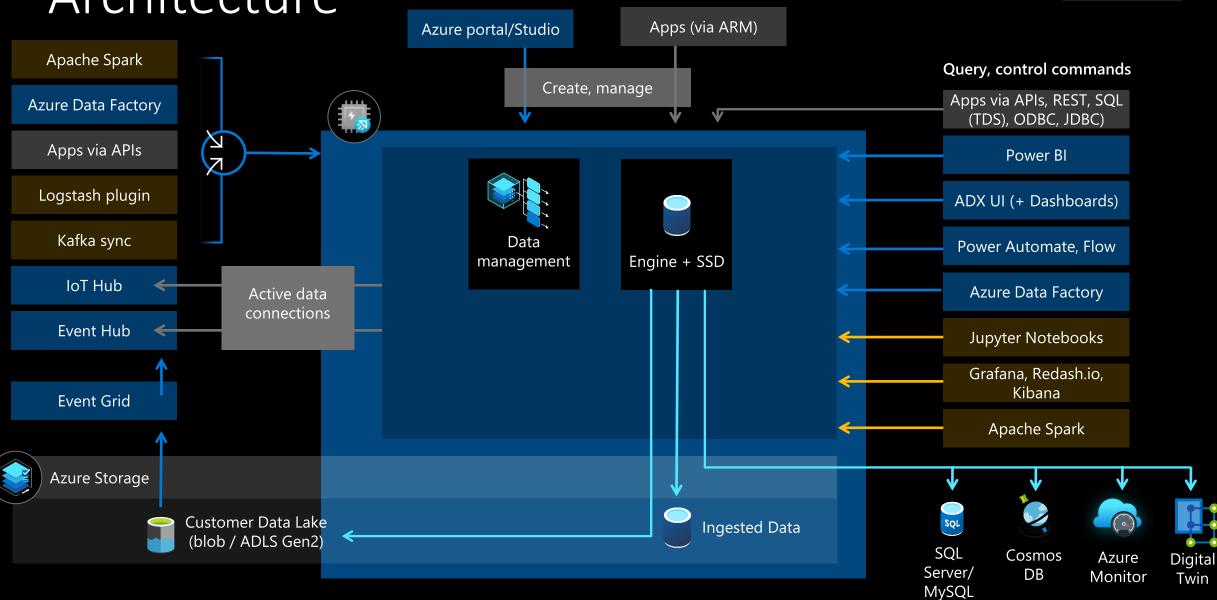


A big data analytics cloud platform

optimized for interactive, ad-hoc queries

**Applications** 

Architecture



## Kusto Query Language (KQL)

### Simple and powerful

- Rich relational query language
- Built-in full-text search, time series, user analytics, geospatial, and machine learning operators
- Out-of-the box visualization
- Easy-to-use syntax + IntelliSense
- Highly recognizable hierarchical schema entities

### Extensible

- T-SQL
- In-line Python and R

```
GithubEvent
where CreatedAt between(now() .. ago(1d))
summarize count() by

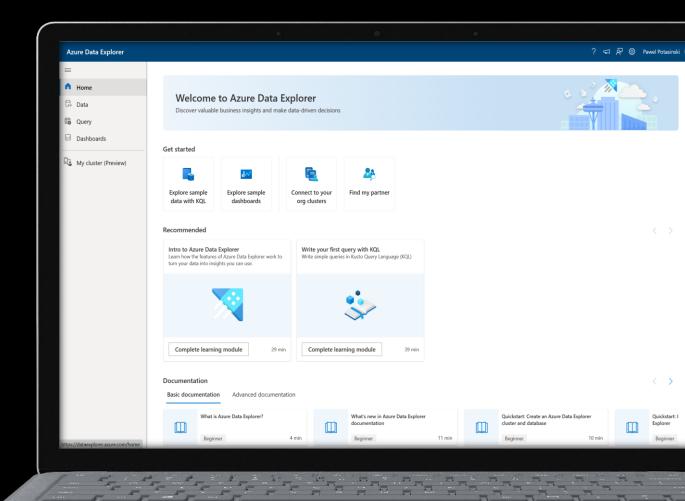
Actor
CreatedAt
Id
Payload
Public
Repo
Type
abs(number)
acos(number)
ago(timespan)
array_concat(array, ...)
array_iff(condition_array, when_true, when_fals...
```

### Example

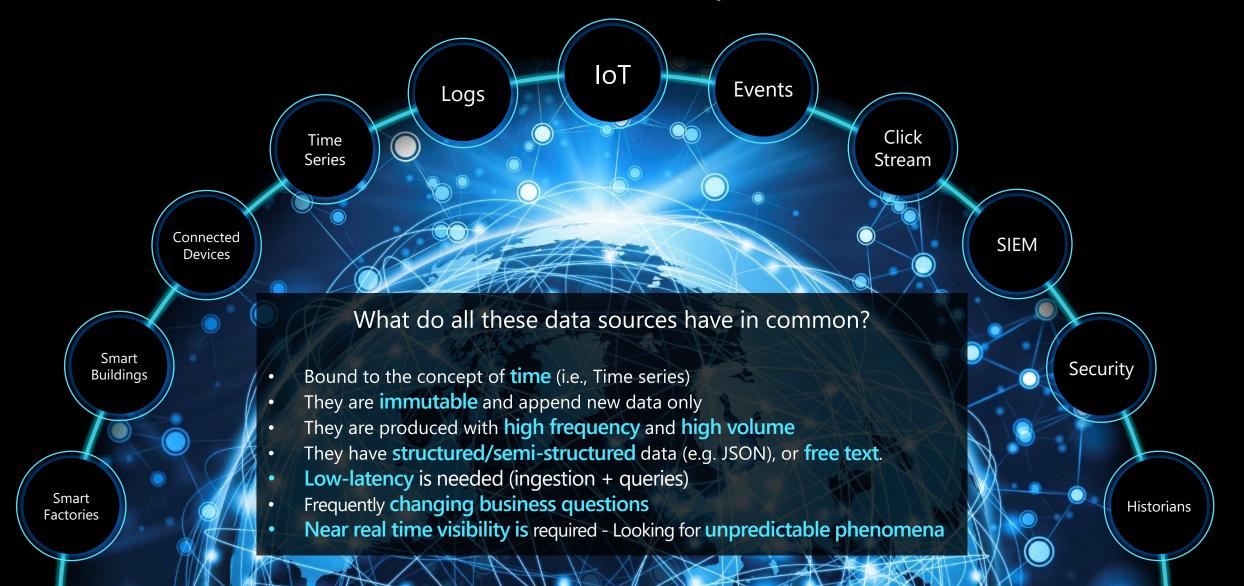
```
StormEvents
| summarize event_count=count(), mid = avg(BeginLat) by State
| sort by mid
| where event_count > 1800
| project State, event_count
| render columnchart
```

# DEMO

- 1. How to start playing with Kusto for FREE?
- 2. Data ingestion
- 3. Observational analytics with KQL
- 4. ADX integration with other tools and services



## Scenarios for Azure Data Explorer





### Azure Data Explorer Community Resources

#### **Product**

- ADX Product Page: <a href="https://aka.ms/adx.pp">https://aka.ms/adx.pp</a>
- ADX 101: https://aka.ms/adx.blog.101
- Documentation: https://aka.ms/adx.docs
- Technical whitepaper: <a href="https://aka.ms/adx.techwhitepaper">https://aka.ms/adx.techwhitepaper</a>
- Cost estimator: https://aka.ms/adx.cost
- Customer stories: https://aka.ms/adx.customers
- Preloaded open "help" ADX cluster: https://aka.ms/adx.try



#### Blogs, Videos, Forums

- Blog: https://aka.ms/adx.blog
- YouTube channel: https://aka.ms/adx.youtube
- ADX intro video: https://aka.ms/adx.intro
- Reference architectures: https://aka.ms/adx.architectures.video
- Stack overflow: https://aka.ms/adx.sof

#### **Social Media**

- Twitter: @AzDataExplorer
- LinkedIn: https://www.linkedin.com/company/adxkusto/

#### **KQL**

- KQL tutorial: https://aka.ms/adx/query.tutorial
- **KOL** cheat sheets:

https://aka.ms/SQL2KQL https://aka.ms/ADX.KQL.Quick https://github.com/marcusbakker/KQL

- Learn and practice KQL: https://github.com/rod-trent/MustLearnKQL
- KQL overview video: https://adx.kql.video

#### Free Online Learning

- Learn ADX for free: https://aka.ms/adx/start
- Learn how to query data using KQL: <a href="https://aka.ms/ADX.Learn.Queries">https://aka.ms/ADX.Learn.Queries</a>
- Activate free benefit at Pluralsight: https://aka.ms/adx.pluralsight
- ADX courses at Pluralsight:

https://aka.ms/adx.pluralsight.how-to-start-with-adx https://aka.ms/adx.pluralsight.azure-data-exploring https://aka.ms/adx.pluralsight.kgl-from-scratch https://aka.ms/adx.pluralsight.advanced-kgl

aka.ms/ADX.links



### Join Kusto Detective Agency!

Solve complex riddles using Kusto and your data exploration skills!

# https://detective.kusto.io/

Earn your badges and deserved fame if you dare!















### Your Feedback Matters!





https://sqlb.it/?10314

