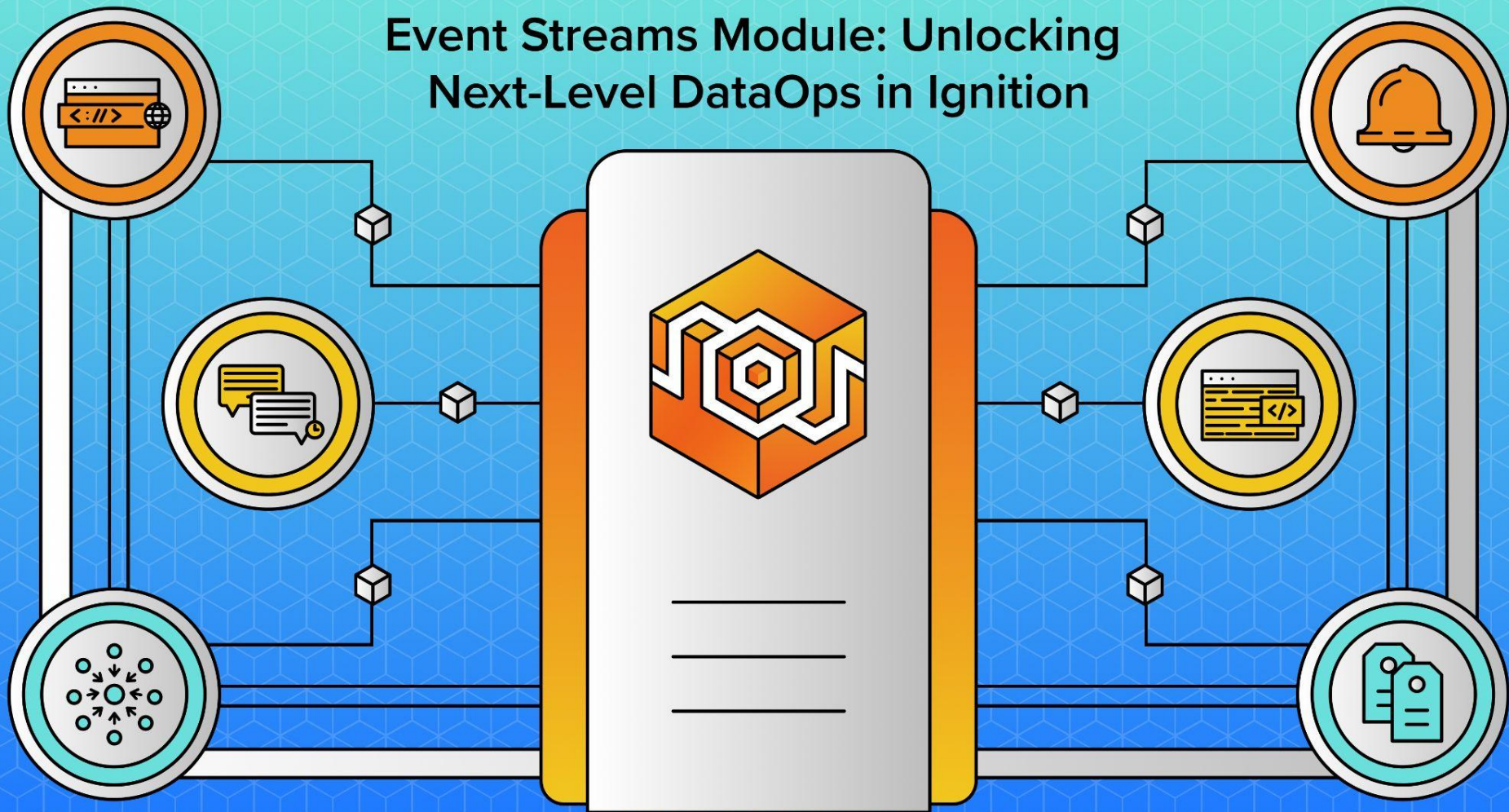


# Event Streams Module: Unlocking Next-Level DataOps in Ignition



# Speaker



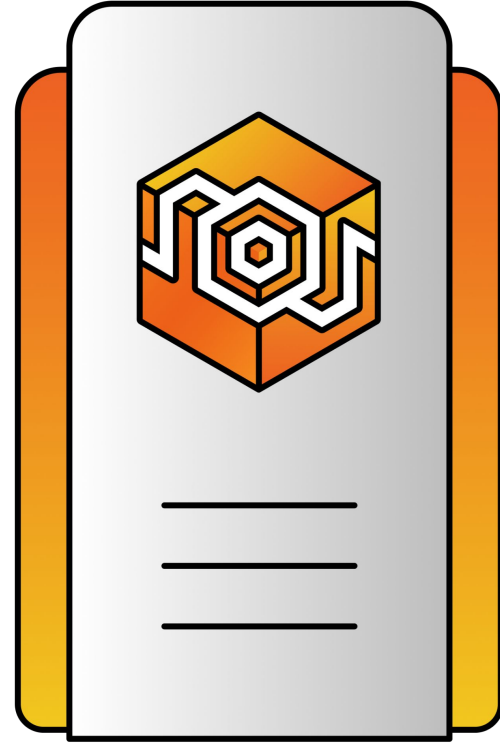
**Travis Cox**

Chief Technology Evangelist

*Inductive Automation*

# Agenda

- Introductions
- Event-Driven Data in Ignition
- About The Event Streams Module
- Demo of Event Streams Module  
in Ignition 8.3
- Q&A



# About Inductive Automation



Johnson & Johnson



Chobani

65%  
of Fortune 100

4k+  
Registered  
Integrators

140+  
Countries

22+  
Years In The  
Industry

DFW

FUJIFILM



Crate&Barrel



BASF

# Introducing Ignition

Connect, Design, and Deploy Without Limits

- One central hub for the plant floor and beyond
- Build any kind of industrial application
- Web-deploy to desktops, industrial displays & mobile devices
- Unlimited licensing
- Cross-platform compatibility
- Industrial-strength security & stability



**The Unlimited Platform For  
SCADA And So Much More**

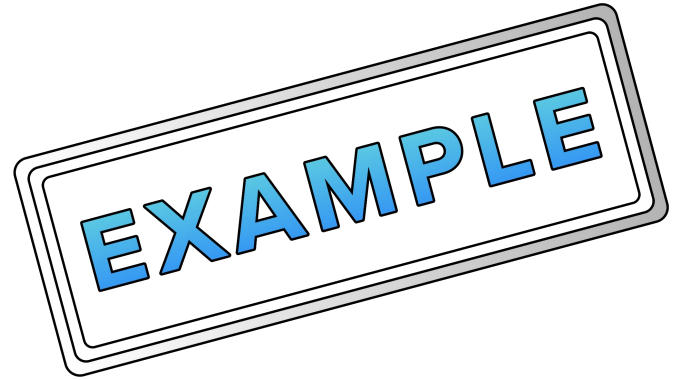
# Event-Driven Data In Ignition

- Ignition has always provided many ways to move data in and out
- Recently we've integrated Ignition with more cloud-native technologies
- To make data even more useful, we needed to add a central place for managing event-based data
- The solution: Event Streams (works with Ignition 8.3)

7.9  
8.0  
8.1  
8.3

# Pre-Event Streams Examples

- Sending tags to an external REST API
  - Tag change script and writing Python code
- Receive JSON MQTT
  - Requires custom namespace and writing to tags
  - Often data flows from tags to a database
- Publish data to MQTT as JSON
  - Requires scripting, possibly timer scripts or tag change scripts to make it automatic
- Receive data from a REST API in Ignition
  - Requires WebDev and Python code to handle the endpoint



# About The Event Streams Module

- Levels up Ignition's DataOps capabilities



# About The Event Streams Module

- Levels up Ignition's DataOps capabilities
- Highly extensible and scalable



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- Centralize events management

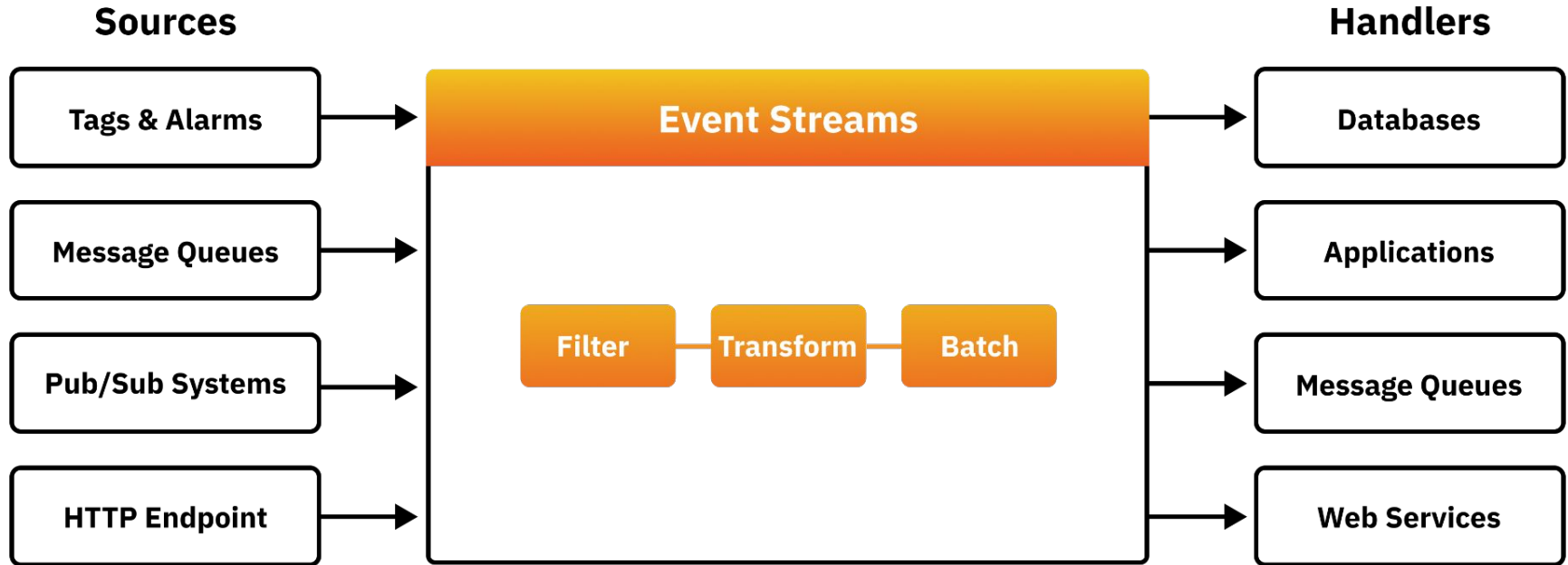


# About The Event Streams Module

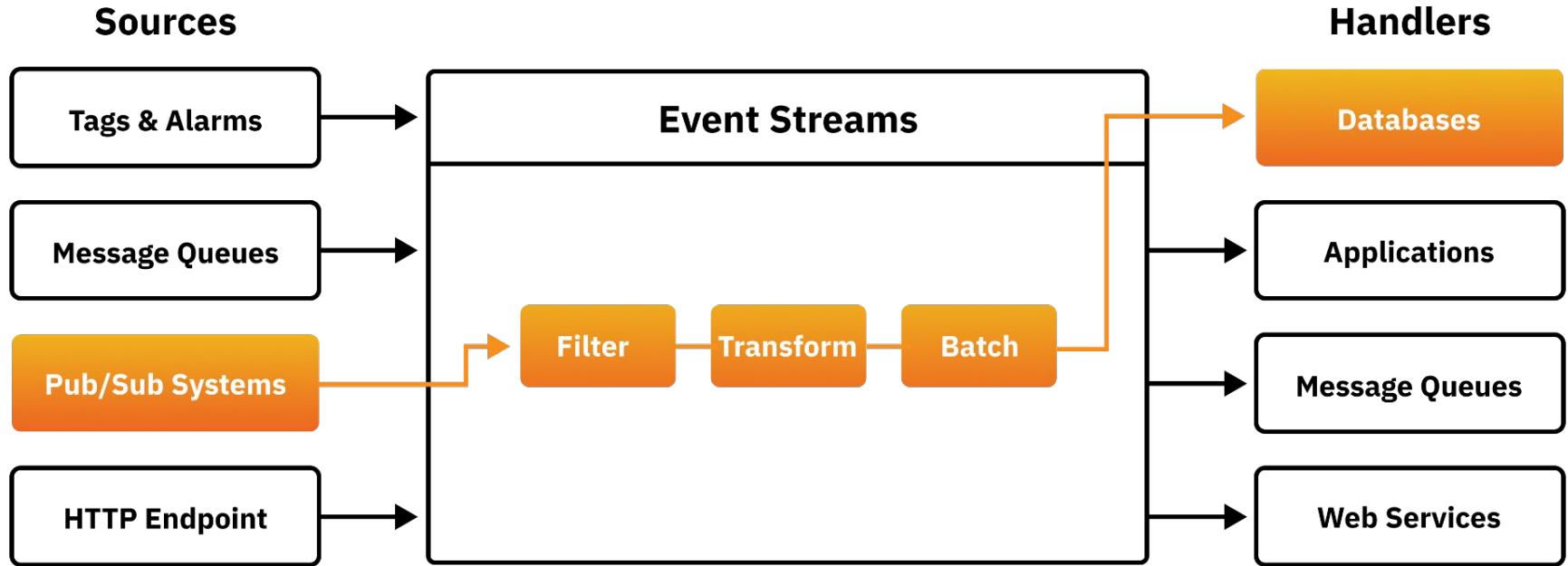
- Levels up Ignition's DataOps capabilities
- Highly extensible and scalable
- Connect your data & systems intuitively
- Simplify external connections & management
- Centralize events management
- Integrate all your systems



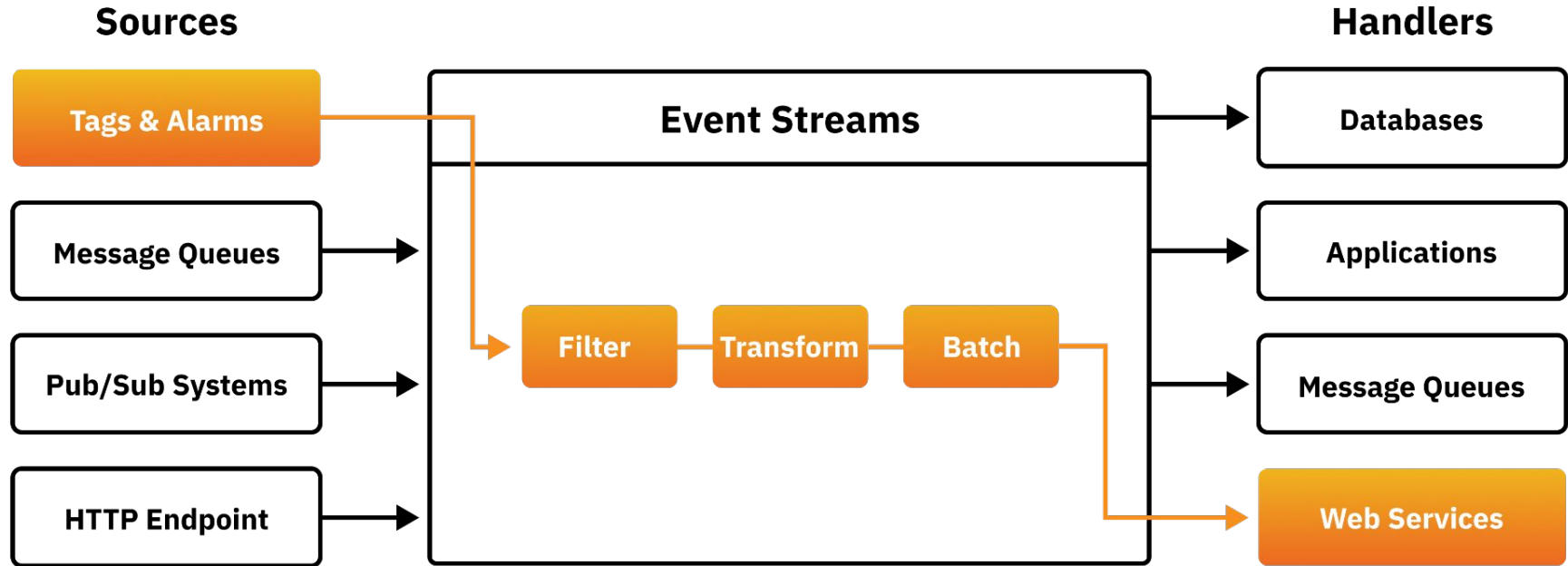
# About The Event Streams Module



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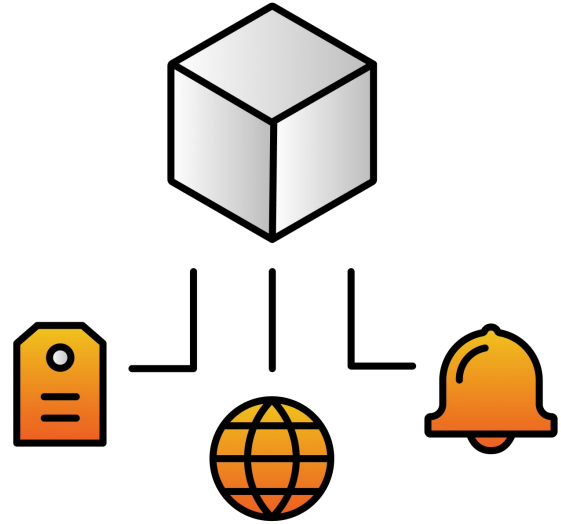


# About The Event Streams Module



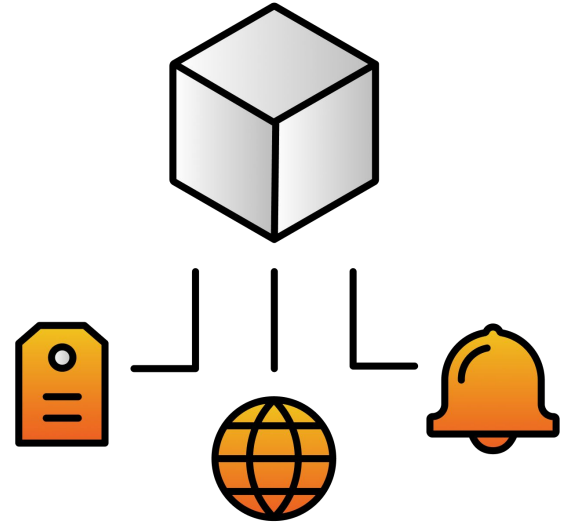
# Event Stream Configuration

- You can define one or more streams
- Streams are scalable and highly performant
- Streams are all defined in one place
- Each stream has ONE source
  - Where is the data coming from?
- Each stream can have one or more handlers
  - Where do you want the data to go?



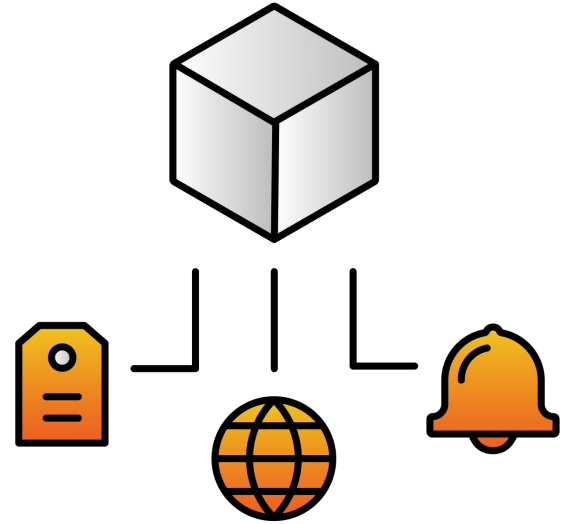
# Event Stream Sources

- Tag Event
- Event Listener
- HTTP
- MQTT
- MQTT Sparkplug
- Kafka



# Event Stream Handlers

- Database
- Gateway Event
- Gateway Message
- HTTP
- Kafka
- Logger
- MQTT
- Script
- Tag

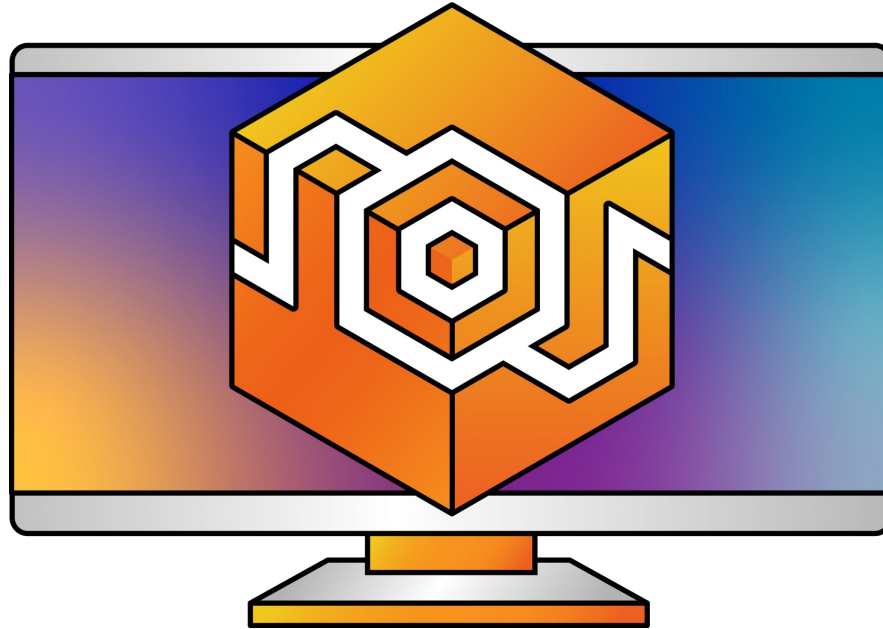


# Let's Explore Event Streams!

- **Set up our first Event Stream**
- **Filter, transform, buffer, error handling**
- **Look at all sources and handlers in action**
- **Show Event Streams scalability**
- **Show Event Streams extensibility (SDK)**



# Demo



# Event Streams SDK Example

Event Stream  
Source Example



Event Stream  
Handler Example



# Ignition! 8.3

**Ready To Try Ignition For Yourself?**

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Ignition!  
**Solution Suites**

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**[inductiveuniversity.com](https://inductiveuniversity.com)**

*Ignition User Manual also available at:  
**[docs.inductiveautomation.com](https://docs.inductiveautomation.com)***

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# Questions & Answers



Call us at: **800-266-7798** Email us at: [accountservices@inductiveautomation.com](mailto:accountservices@inductiveautomation.com)



For Inductive Automation Australia, call: **1300 10 8088**

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