Prepare a Cluster with Demo Data:   
Local CP installation and OpenTSx flows

# Initial data sets

8 time series with different frequencies, sampling rate 100 Hz

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FFT of raw episodes

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4 topics with raw data

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Structured value (Avro)

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Structured key (JSON string)

# Schema for unified data model

Event schema: AVRO

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Episode schema: AVRO

<http://127.0.0.1:9021/clusters/tEM8XXu1RDKnlIu8clBftA/management/topics/OpenTSx_Episodes_A/schema/value>

# Prepare Streams over Topics

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5 streams available

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1 new topic for the materialised stream available

# Prepare a local KSQLDB instance

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Inspect streams via CLI

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Flows can easily be inspected in the web UI.

# Create Kafka Stream Processing applications

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TSAExample1

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TSAExample2

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TSAExample3

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TSAExample10

# Data flow visualization

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Episodes statistics based on custom properties, calculated in a Kafka streams application.

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Some running queries … without data

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… and now some data flows through the system, 2400 events per second.

# Alert processing

Final overview of flows:

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TSAExample2

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