How to Extend Splunk with an AI Assistant for Pattern Recognition

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Agenda

- Why are time series data patterns interesting?
- Can pattern recognition be easy?
- What does Splunk + pattern recognition look like?

Time Series Data Patterns

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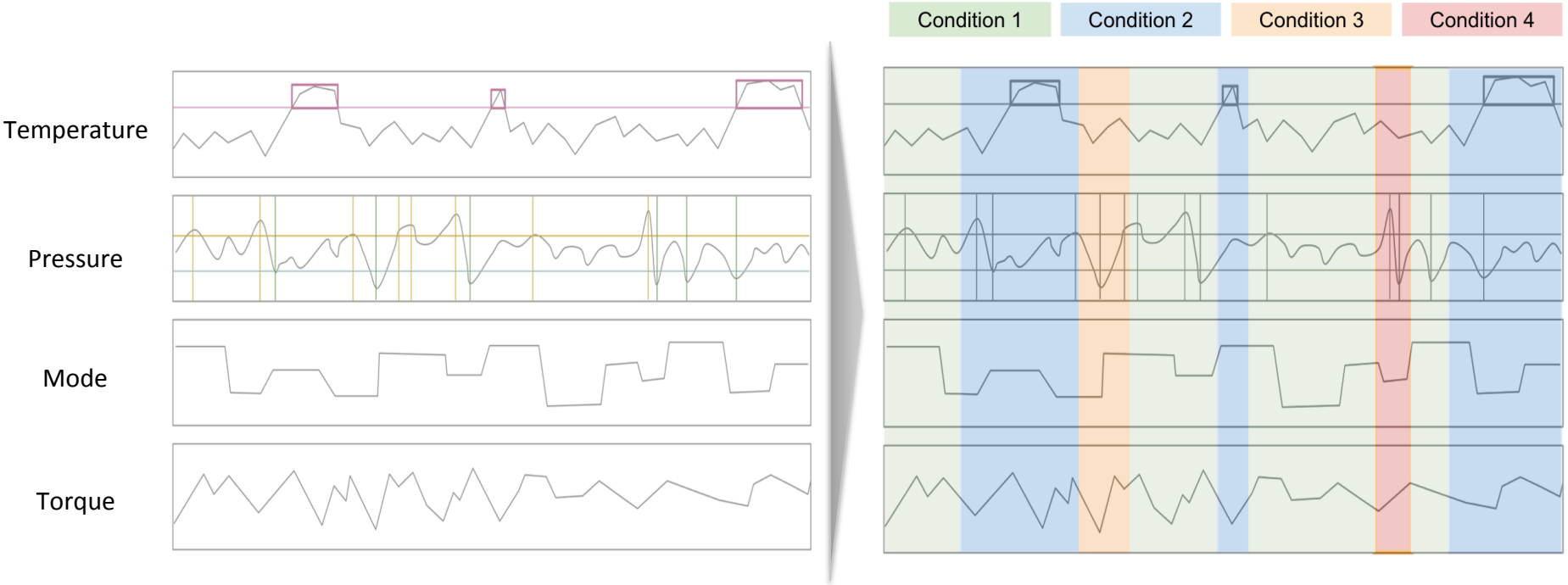
From Data to Conditions

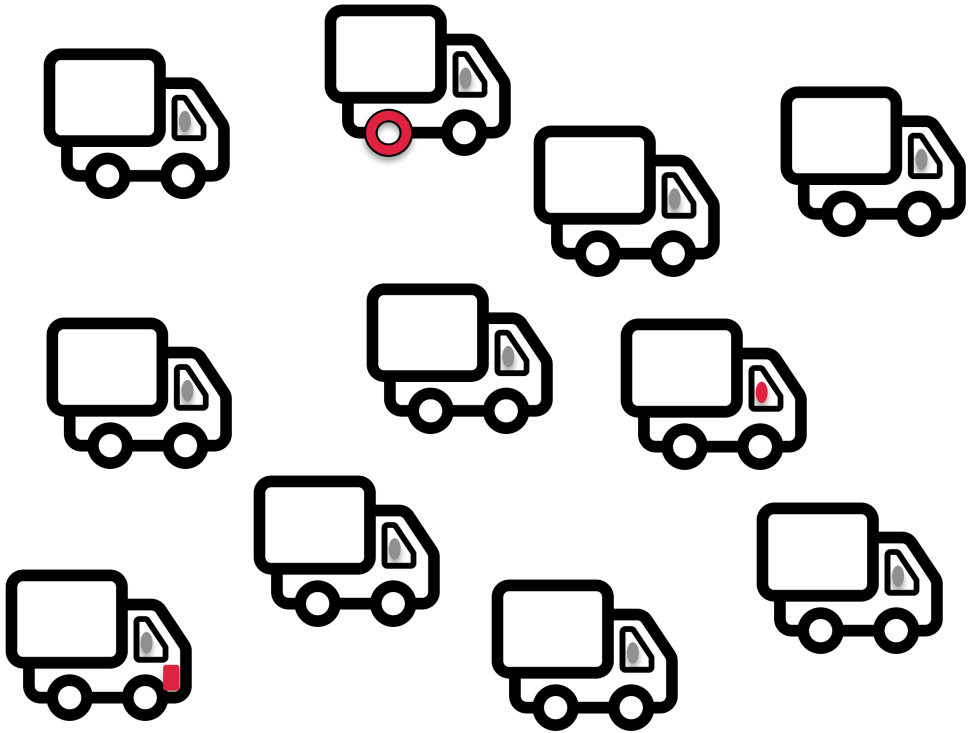


Fleets

Time Series Data

- x,y,z acceleration
- turn angle
- accelerator
- braking
- driver heart rate

Fleets



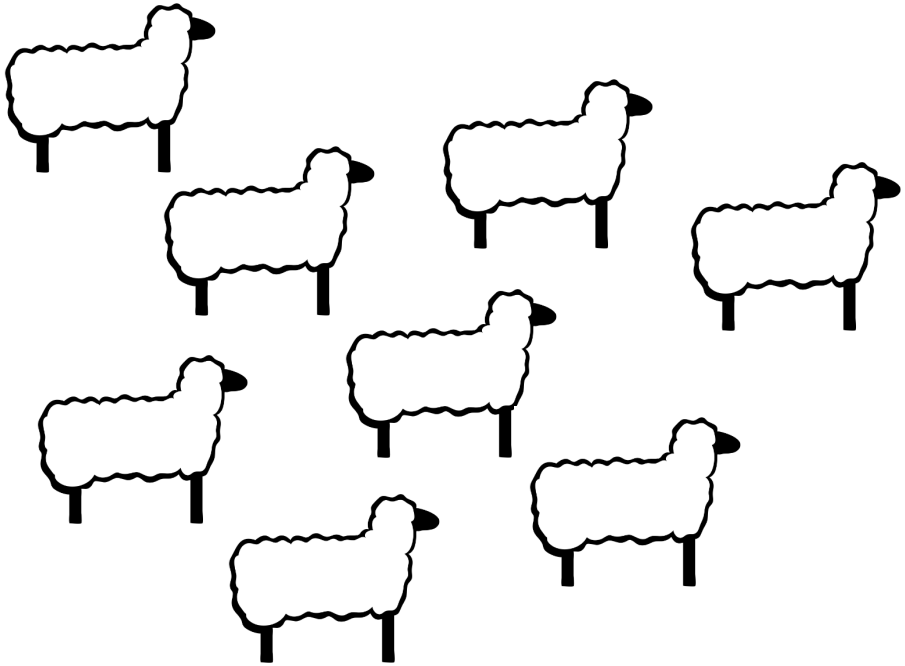
Time Series Data

- x,y,z acceleration
- turn angle
- accelerator
- braking
- driver heart rate

Conditions

- Impaired driver
- Tire problem
- Engine problem

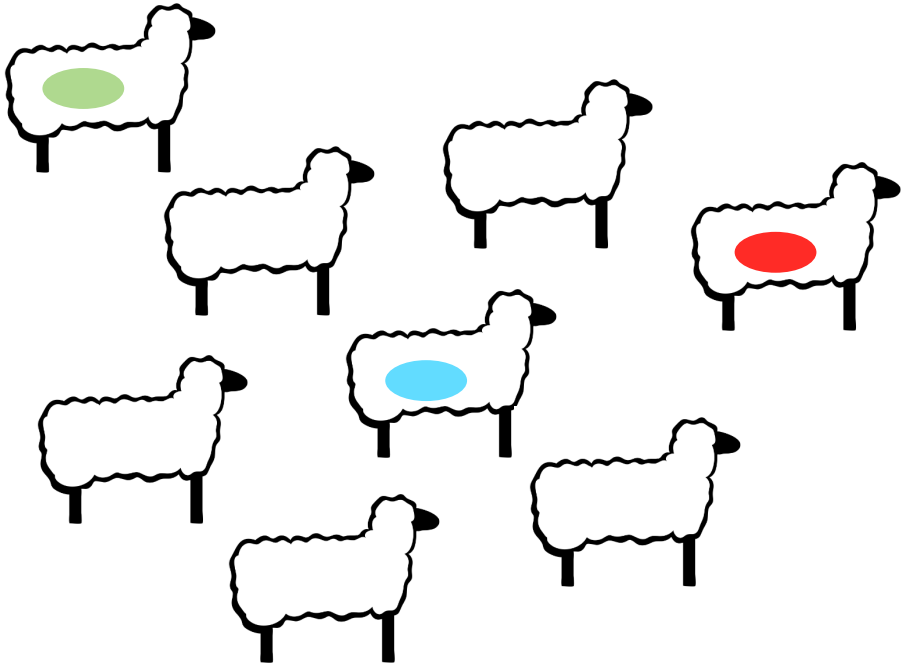
Livestock



Time Series Data

- x,y,z location
- body temperature
- heart rate

Livestock



Time Series Data

- x,y,z location
- body temperature
- heart rate

Conditions

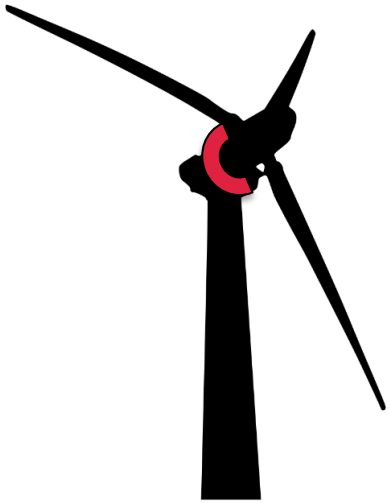
- illness
- fertility window
- pregnancy

Machine

Time Series Data

- x,y,z acceleration
- rpm
- power
- wind velocity

Machine



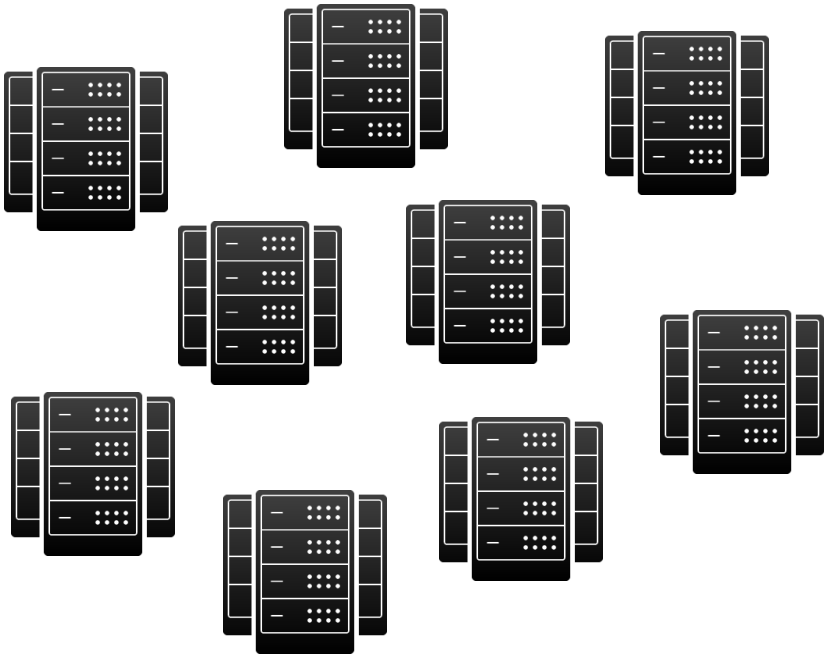
Time Series Data

- x,y,z acceleration
- rpm
- power
- wind velocity

Conditions

- Bearing problem
- Structural problem

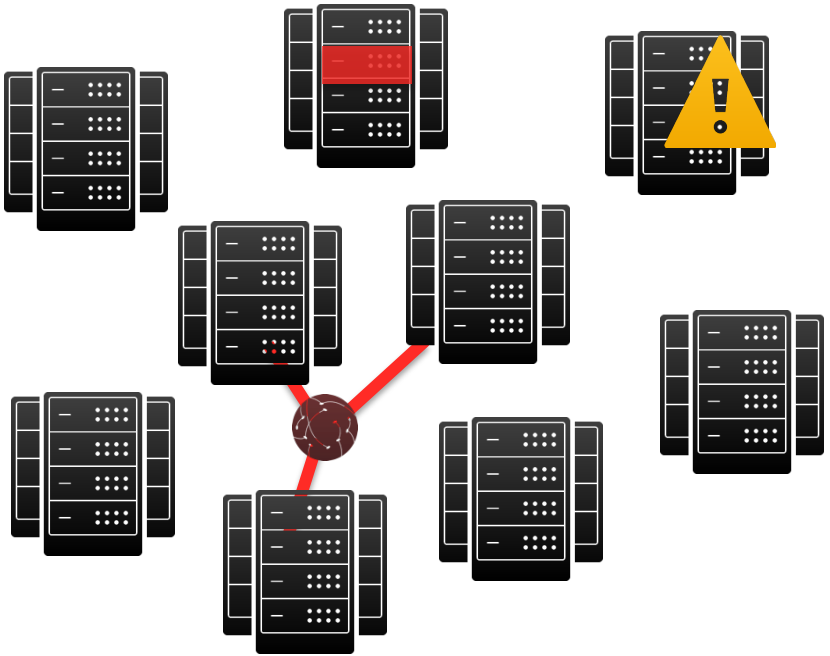
Data Centers



Time Series Data

- I/O stats
- temperature
- acoustic data
- activity metrics

Data Centers



Time Series Data

- I/O stats
- temperature
- acoustic data
- activity metrics

Conditions

- Hardware problem
- Network problem
- Upgrade problem

Users

Time Series Data

- logons
- http requests
- building entries
- attachment events

Users

Time Series Data

- logons
- http requests
- building entries
- attachment events

Conditions

- Threat risk

An AI Assistant for Condition Recognition

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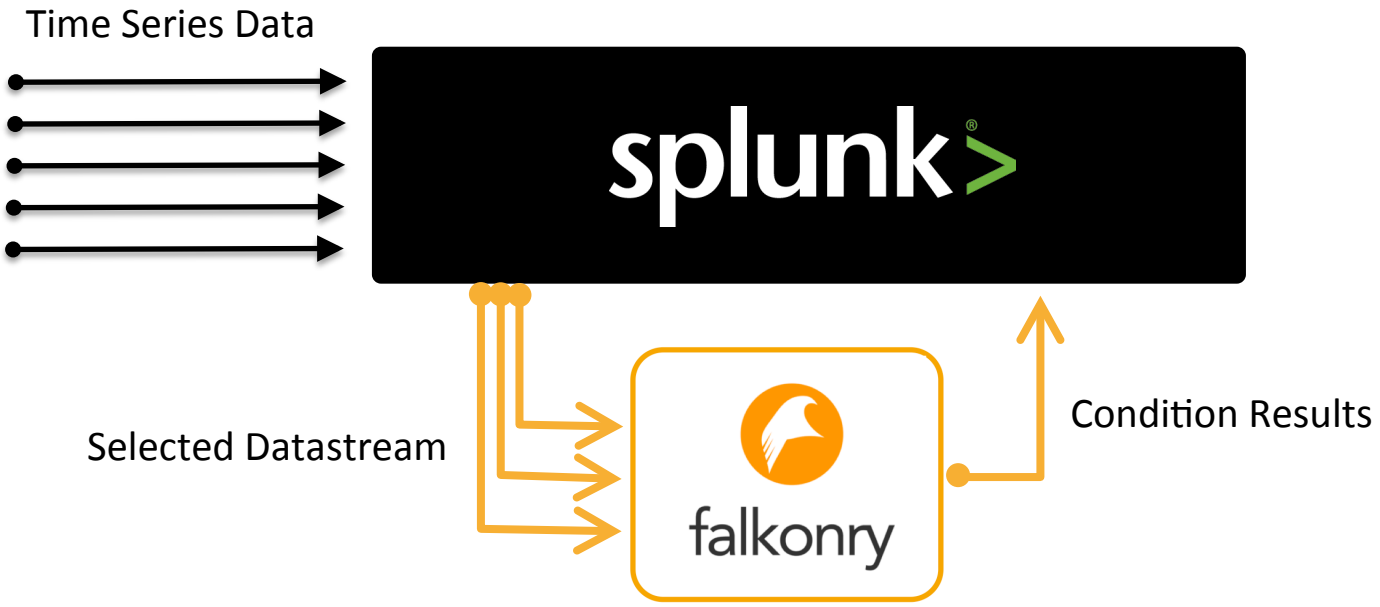
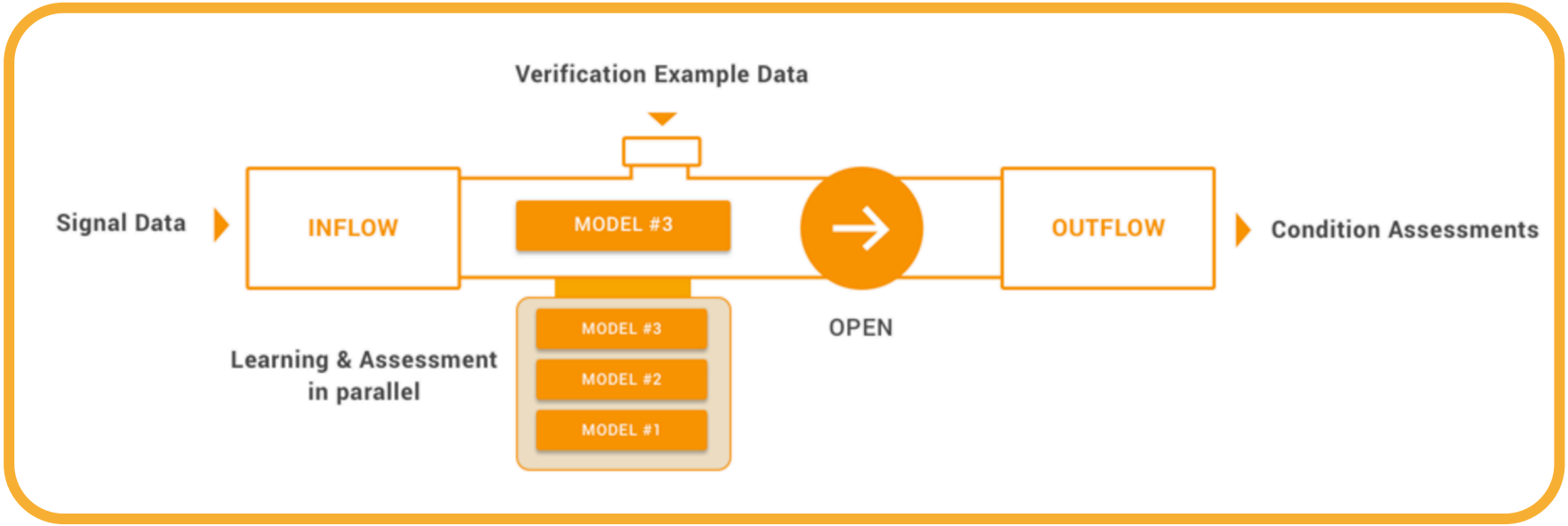
Falkonry & Splunk

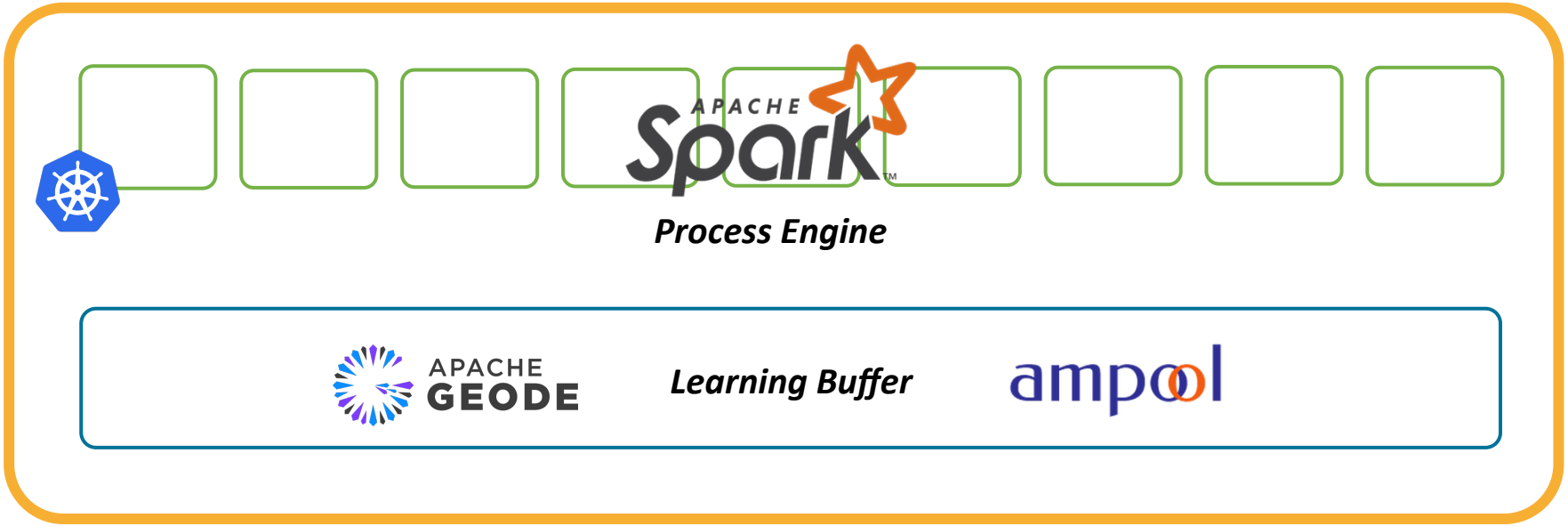


Inside the Assistant

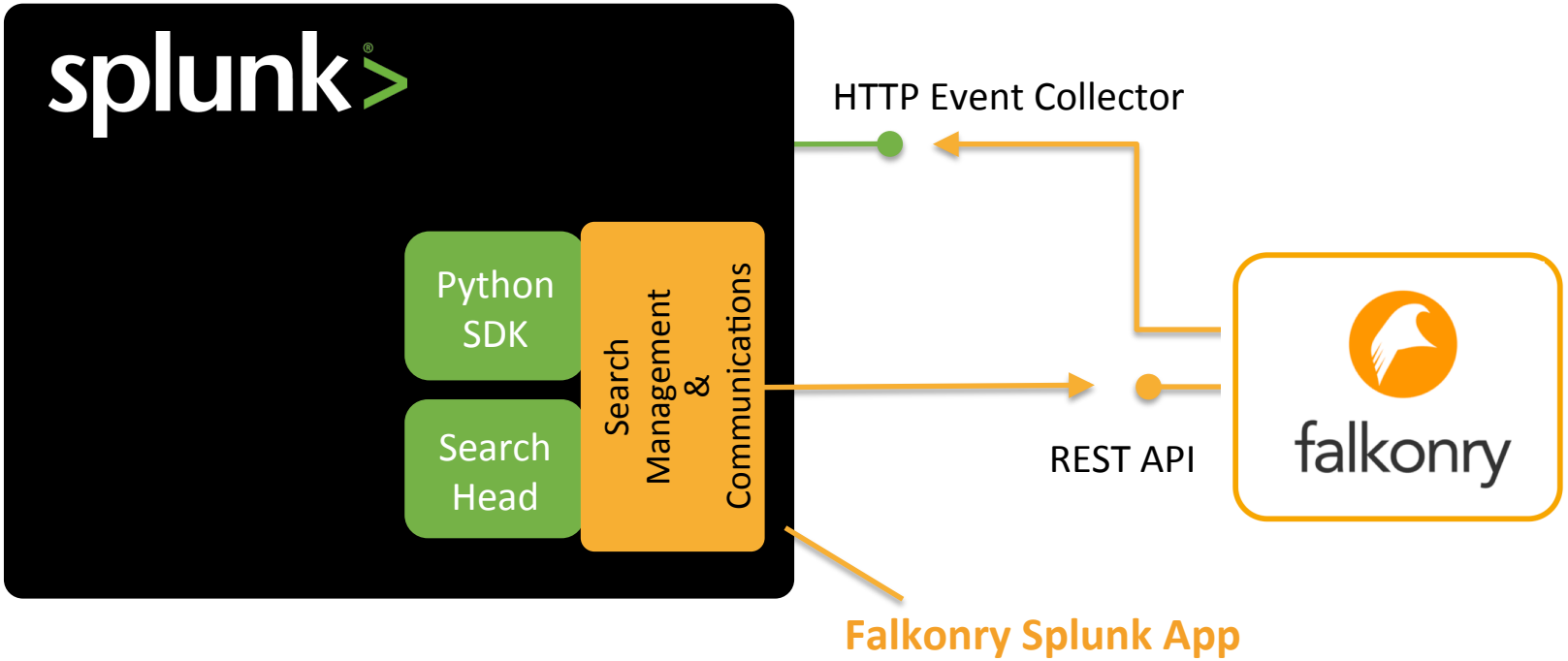
Inside the Assistant



Inside the Assistant



Splunk-Falkonry Connection



Deployment Options

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Virtual Appliance

Customer Cloud

A Falkonry-enhanced Splunk Application
Demonstration

Summary

- Time series pattern recognition is an enormous need
- Adding pattern recognition to Splunk is easy
- Splunk+Falkonry is a great platform for condition-aware applications

THANK YOU

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