#### Thales PunchPlatform





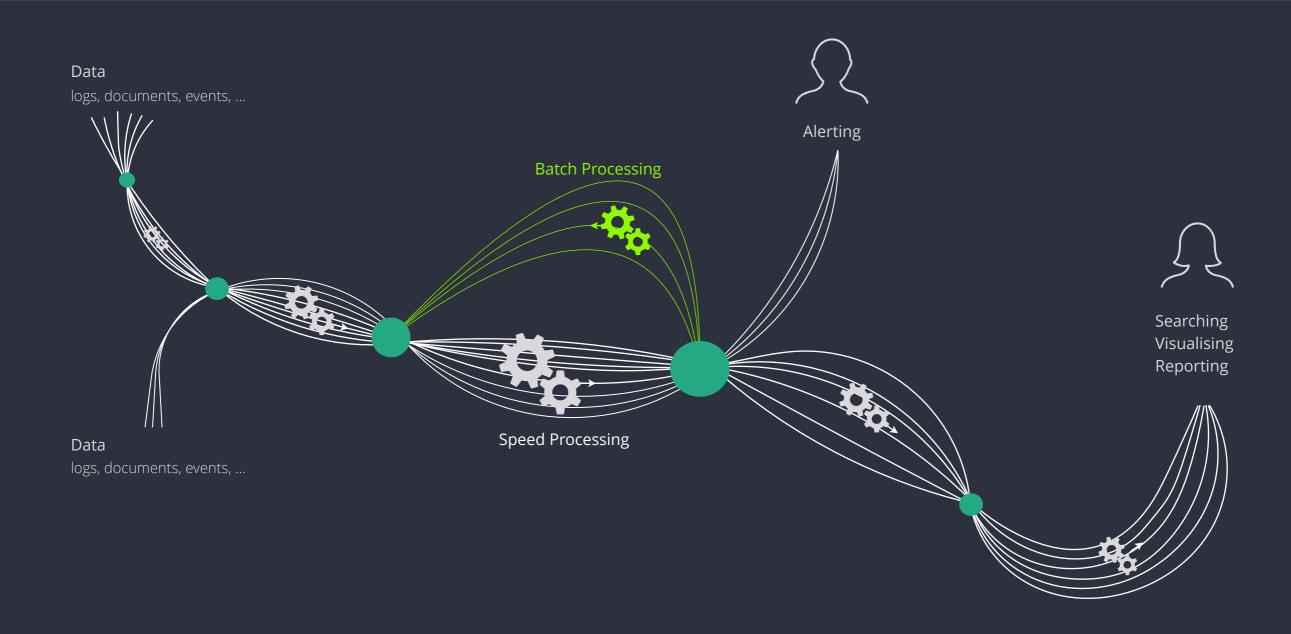
- What It Does
- Building Blocks
- Deployment & Operations
- Typical Setups
- Customers and Use Cases
- RoadMap



## What It Does

Compose Arbitrary Industrial Data Processing Channels







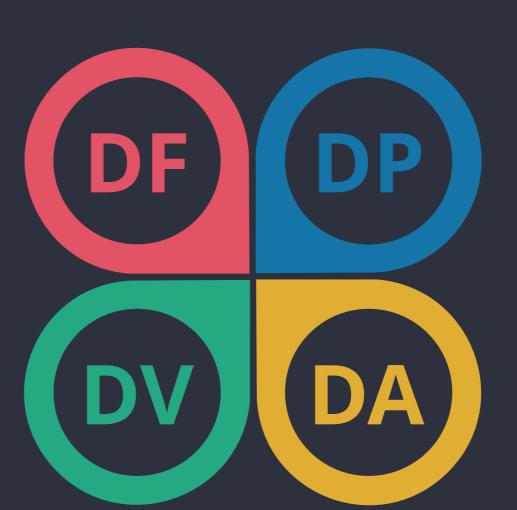
## **Building Blocks**





#### DataFlow

Collect and Transport Your Data Multi-nodes, -racks, -rooms, -sites Scalable, Resilient, Reliable



#### DataProcessing

Parse, Normalize, Enrich Store, Archive, Index Detect, Raise Alarms Search Reprocess, Replay



#### DataVisualization

Create your Dashboards to dig months/years of data Pick what suits best your needs: Kibana, Grafana, Zeppelin Data Extraction and Reporting Multi-Tenant, Secure



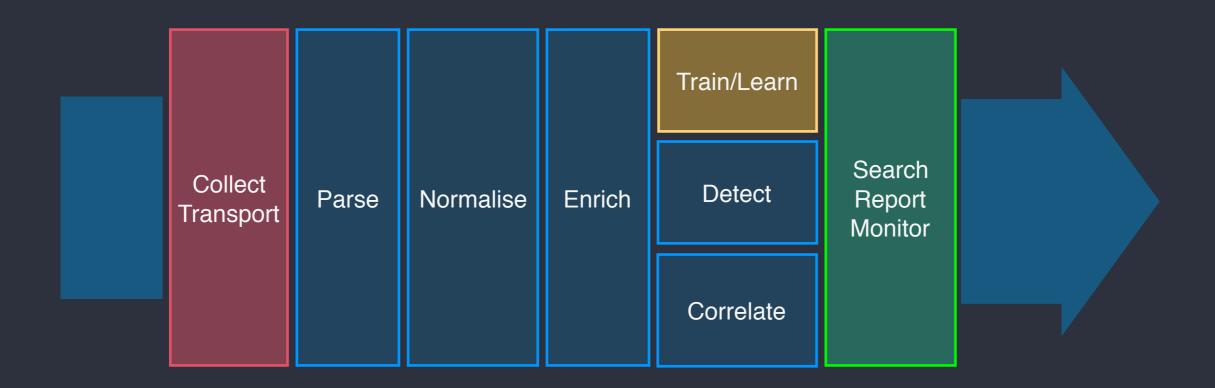
Storm, Spark-Streaming, Flink Join the Thales Big Data and Analytics Community





# Understanding the (CyberSecurity) Data Pipeline





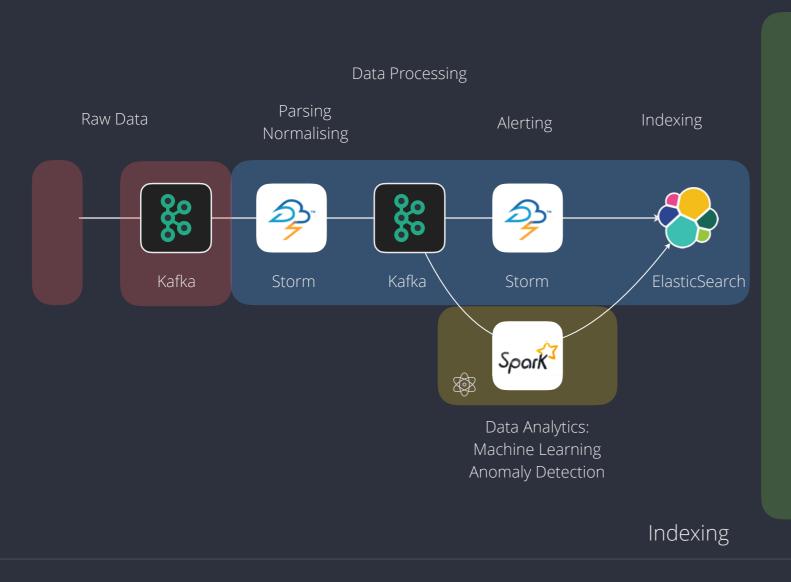




# Log Management

Typical Setup









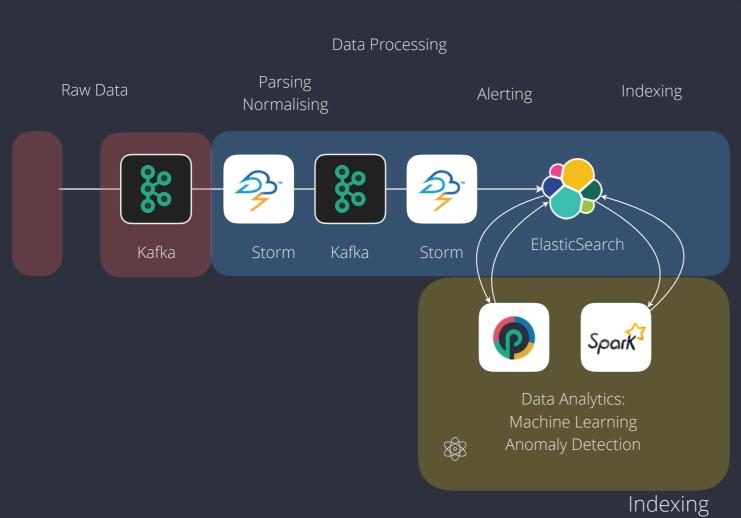
Searching Visualising Reporting Alerting

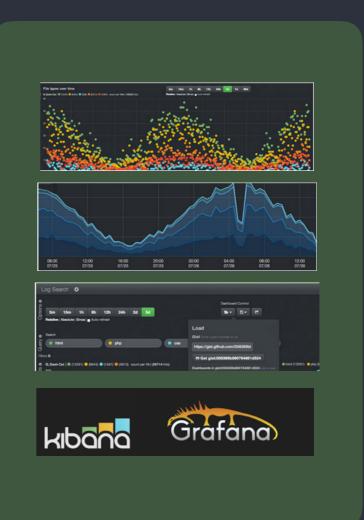


# Log Management











Searching Visualising Reporting Alerting





Deployment & Operations



## PunchPlatform Benefits : Start from empty servers



What you need are plain linux servers, with local disks only.

Use dedicated hardware, VMs, Clouds. Whatever.

If you build your own infrastructure use the PunchPlatform infrastructure ansible libraries. Otherwise use Amazon, OpenStack, or any laas tool you have.



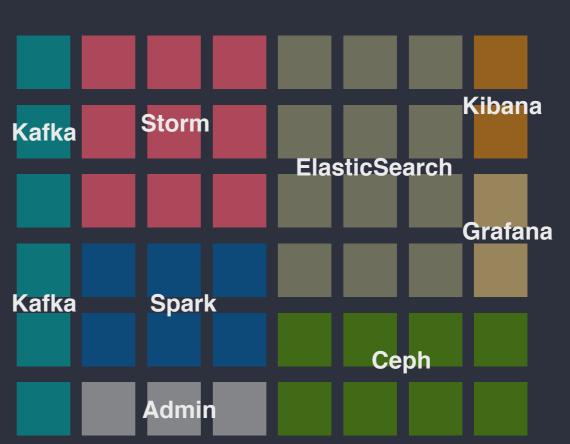
# Deploy your services in minutes



Describe your setup in a configuration file. Use the PunchPlatform deployer to set it all.



Platform configuration file





# Deploy your business logic in minutes

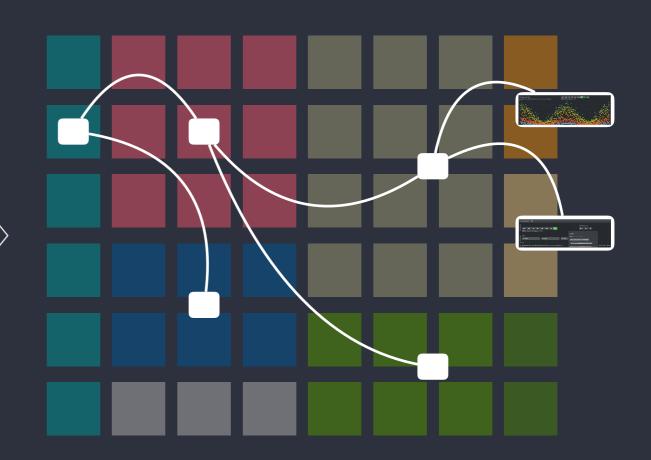


Describe your data channel in a configuration file. Use the PunchPlatform channel command to set it all. It can be a log parsing pipeline, a scada metric pipeline, whatever.



PunchPlatform Channel

Channel configuration file





## Resize Your Platform in minutes

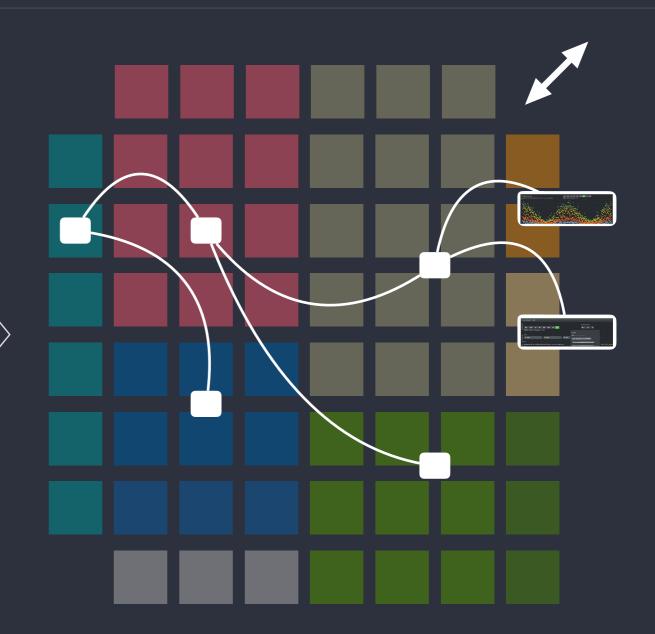


Give more power to you platform, to scale up to you needs. Do that without service interruption.



PunchPlatform Deployer

Platform configuration file





# Resize you Processing in seconds

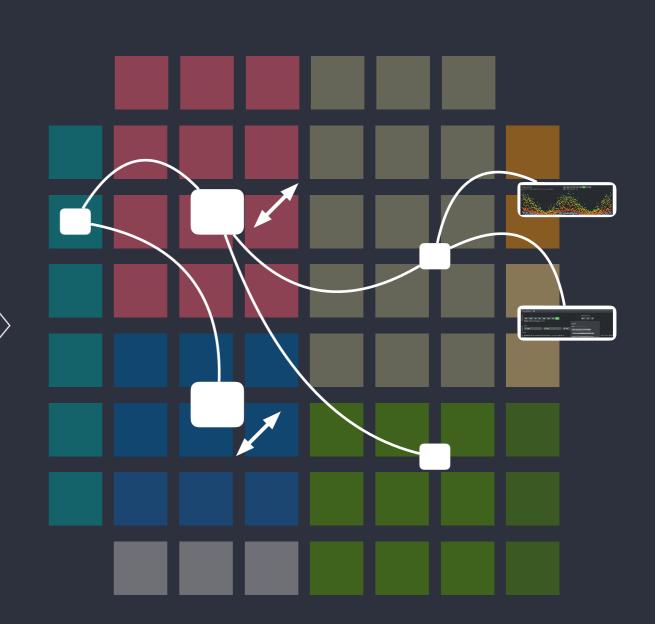


Give more power to you data channel, to scale up to you needs. Do that without service interruption.

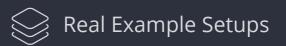


PunchPlatform Channel

Channel configuration file

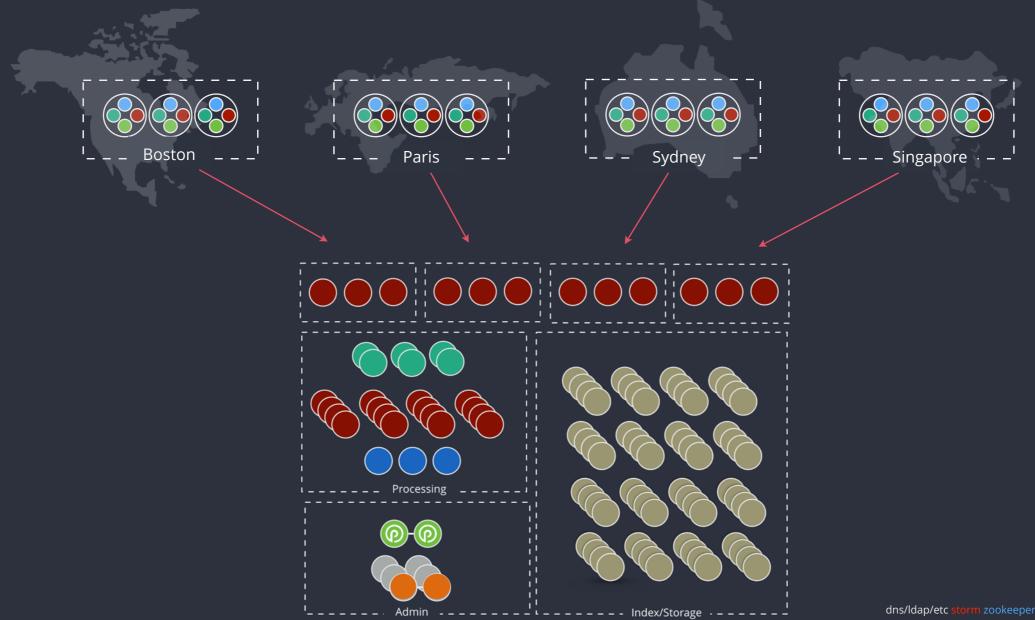








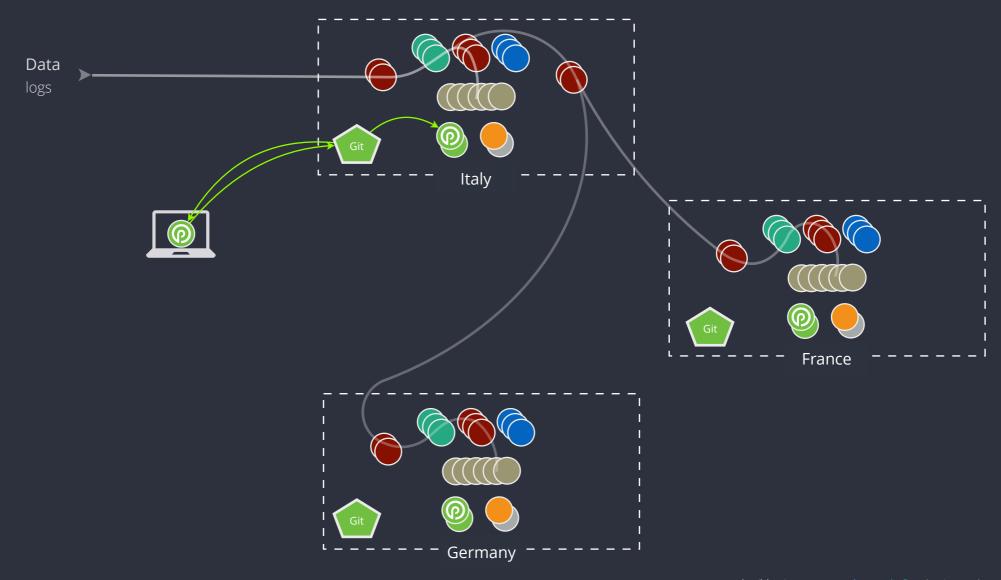




dns/ldap/etc storm zookeeper kafka elasticsearch ceph







dns/ldap/etc storm zookeeper kafka elasticsearch ceph

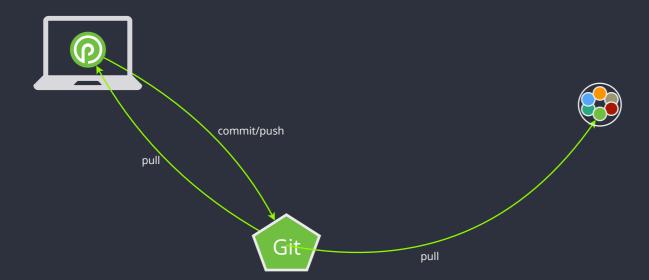




### Small Scale Deployment

Small monitoring systems





dns/ldap/etc storm zookeeper kafka elasticsearch

# Use Cases



#### *Data Agnostic* :

- . Logs, XML, Json, text
- . Snmp traps, Netflow
- . metrics, time series

#### *Open Platform*: powered by

- . ElasticSearch
- . Siddhi
- . CEPH
- . Storm
- . Spark
- . Kibana/Grafana/Zeppelin

#### Wide Range of Business Cases:

- . CyberSecurity
- . Industry 4.0 : manufacturing, transportation,

energy

. Monitoring : IT infrastructures









# 2017 RoadMap

Platform

CyberSecurity

Supervision Industry



Distributed Archiving Service Platform Resource Manager Spark Distributed Runtime ElasticSearch Batch Connectors Spark Connector APIs Storm/Kafka/Spark Update Elastic 5 Platform Update IOC offline and online search CyberSecurity Rule Engine CyberSecurity Standard Rules MachineLearning Modules **Equipment Parsers** Supervision/Monitoring Rule Engine Supervision/Monitoring Standard Rules **Metric Based Alerting** OpenTsdb/Cassandra Cassandra SparkConnector APIs dec



### PunchPlatform Stack



Parsers and Channels Simple, straight, industrial

Stream Processing
Takes care of simple but key
stream processing

Deployer/Updater
Install, Update. Fully documented.



Elastic Stack all of it

Monitoring end to end

Machine Learning

By configuration

Archiving
Long term storage. Secured

