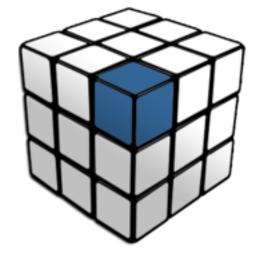
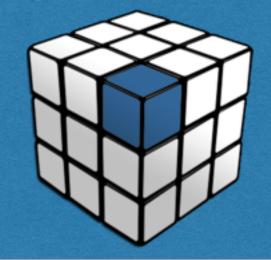
Logisland

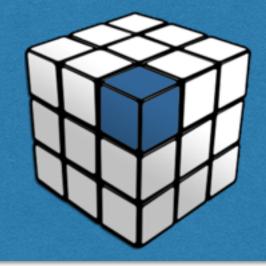
Event Pattern Mining



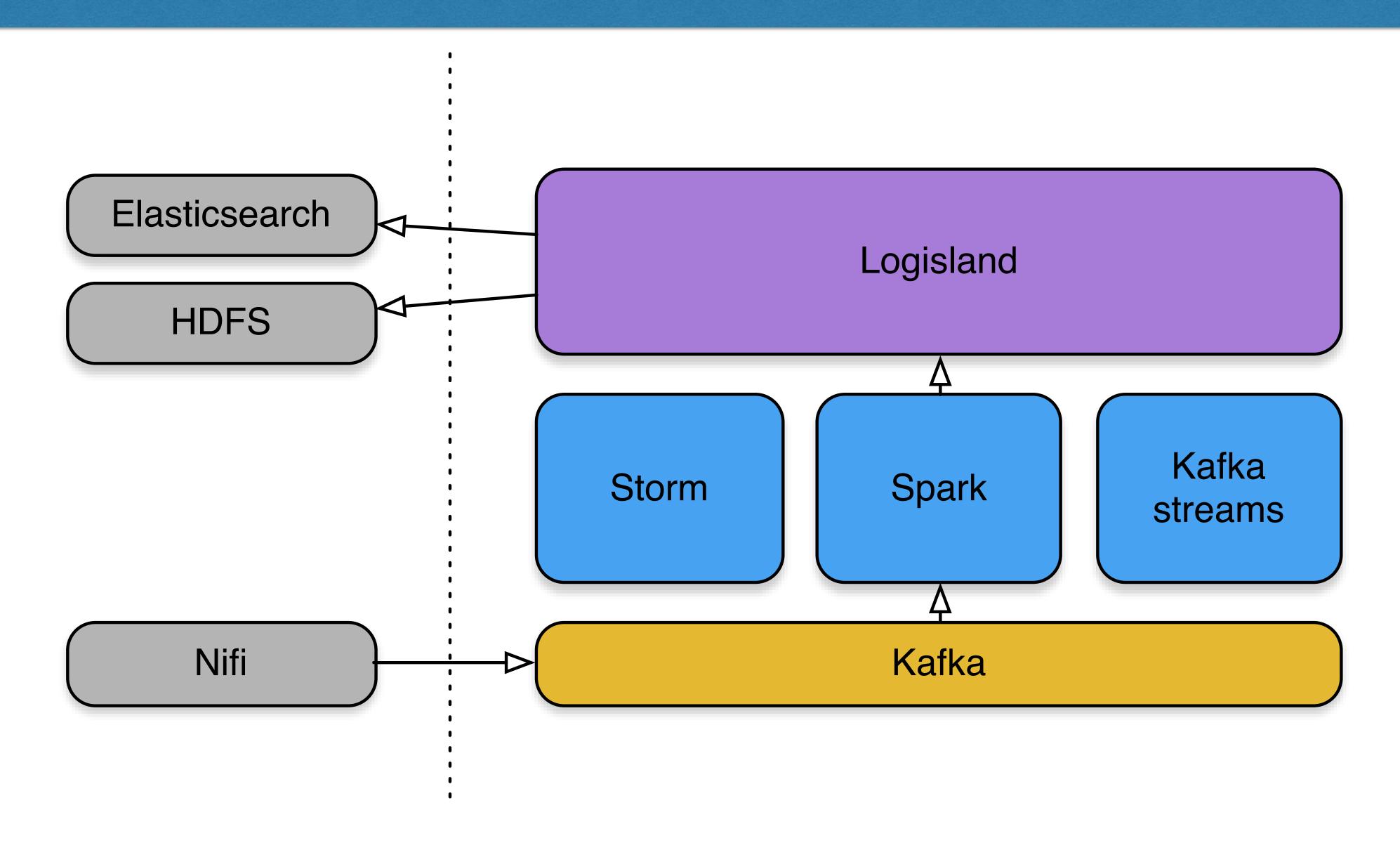


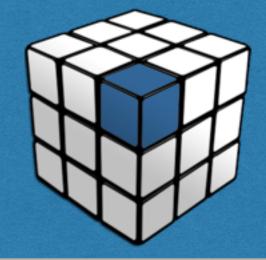
Key features

- Natively distributed OpenSource framework.
- Deploy High level analytics pipelines with no code
- Use POJO API to easily add Event mining Processors
- Compliant with common Hadoop distrib (HDP, Cloudera, ...)
- Processing framework agnostic (Spark, Storm, Kafka Streams ...)
- Stream taxonomy with Avro based schemas



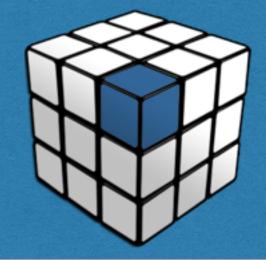
Architecture





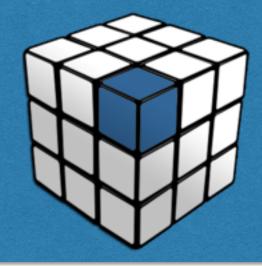
Low level processing

- Multiline regex-based log parsing (applicative logs)
- Index events to search engine (ES / SoIR) for low latency graphic analysis
- Store events to distributed filesystem (HDFS) for offline queries and model training
- automatic Timestamp detection

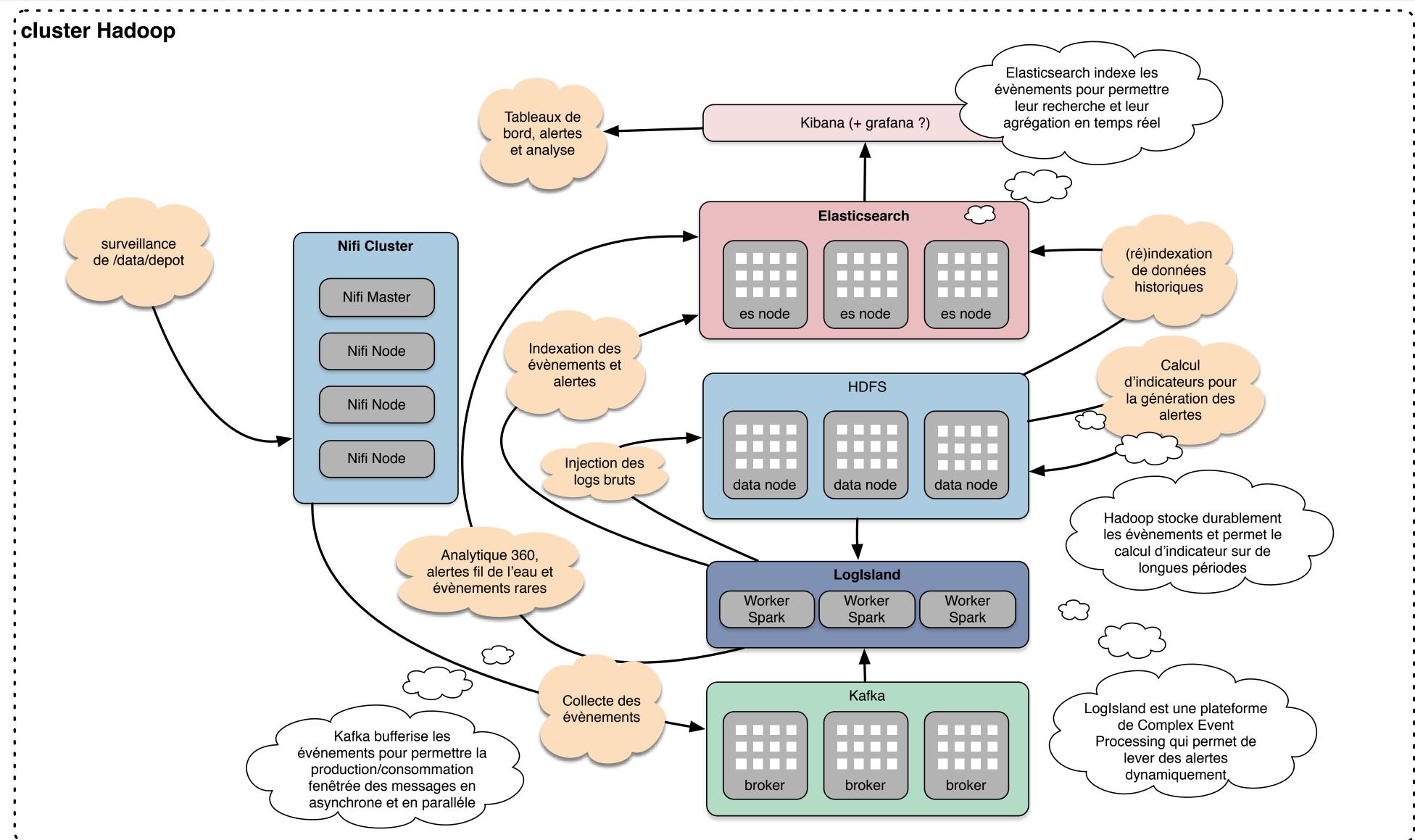


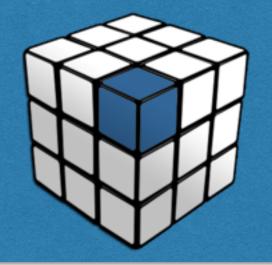
High level analytics

- Outliers detection
- SQL aggregations
- Timeseries non destructive sampling
- Query matching
- Network footprint clustering



Deployment





Message header

Attribute Values

```
kafka_key
syslog_prod_oad_.2016-09-22::eaglep:eaglep5:2517ab8f-6e56-4c76-bf76-867733176267
```

file.group

Agestlog

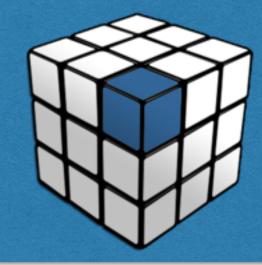
file.lastModifiedTime 2016-09-23T11:54:32+0200

kafka_topic syslog_prod_oad__.eaglep

file.size 16929725

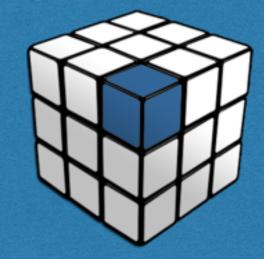
file.permissions

rw-r--r--



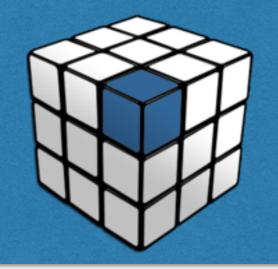
Configuration

```
# Parser for Eagle firewall log
 component: com.hurence.logisland.processor.parser.SplitText
  type: parser
  version: 0.9.4
  documentation: a parser that produces events from a REGEX
  configuration:
    kafka.input.topics: syslog_prod_oad__.eaglep1,syslog_prod_oad__.eaglep3
    kafka.output.topics: logisland_events
    kafka.error.topics: logisland_errors
    event.type: syslog eagle
    key.fields: search_index,sub_project_code,event_type,host_name,uuid
    value.fields:
raw_content,raw_date,event_time,http_user_agent,src_ip,host_name,host_ip,host_port,http_version,htt
p_method,http_result_code,http_result,http_uri,http_query,http_referrer,http_content_type,bytes_out
    key_regex: (\S*):(\S*):(\S*):(\S*)
    value.regex: (\w{3}\s\s?\d\s\d\d:\d\d:\d\d)\s\w+\s\w+\s\[(.{26})\]\s\d+\s(\".*\")\s+(\d{1,3}\.
\d{1,3}\.\d{1,3}\.\d{1,3})\s->\s(\S+)\s->\s(\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3})\s(\d+)\s->\s\S+\s\S
+\s\S+\s"\s+(\d\.\d)\s(\S+)\s(\d{3})\s(\S+)\s(\S+)\s(\S+)\s(\S+)\s"\s+(\S+)\s(\d+).*
```



Roadmap

- Auto-scaling for optimal cluster resource allocation
- Python processor with NLTK, Scrappy and Scikit libraries
- DNS tunneling detection
- Timeseries auto-regression forecasting
- Map/Matching with OpenStreetMap integration
- Enterprise frontend packaging
- Behavior clustering (host, user, ...)



Why logisland?

scalable

fast

high throughput

free

no code