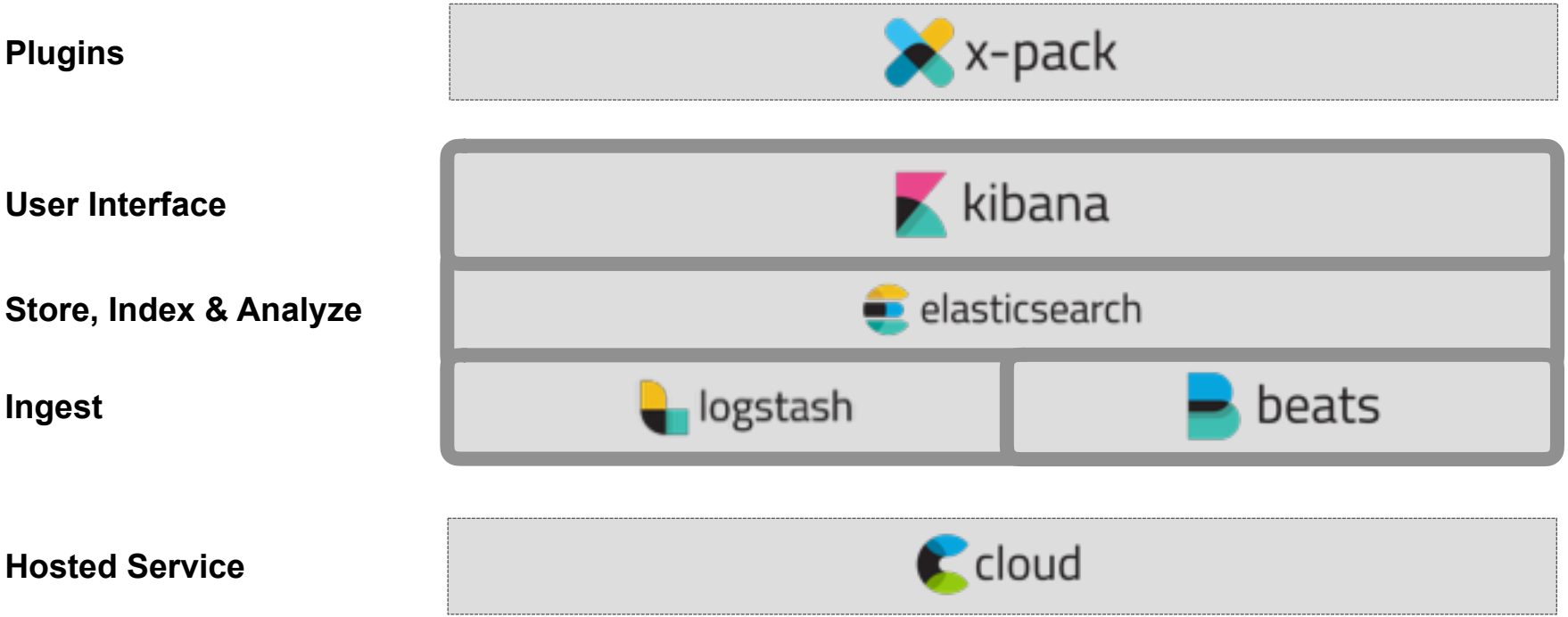
elastic

David Pilato
Developer | Evangelist
@dadoonet

And the beats go on!

The Elastic Stack



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beats

Beats are lightweight shippers that collect and ship all kinds of operational data to Elasticsearch

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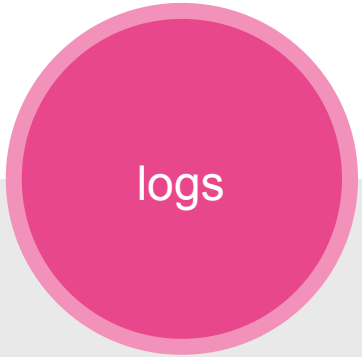
Examples of operational data

Packetbeat

Topbeat



Filebeat
Winlogbeat

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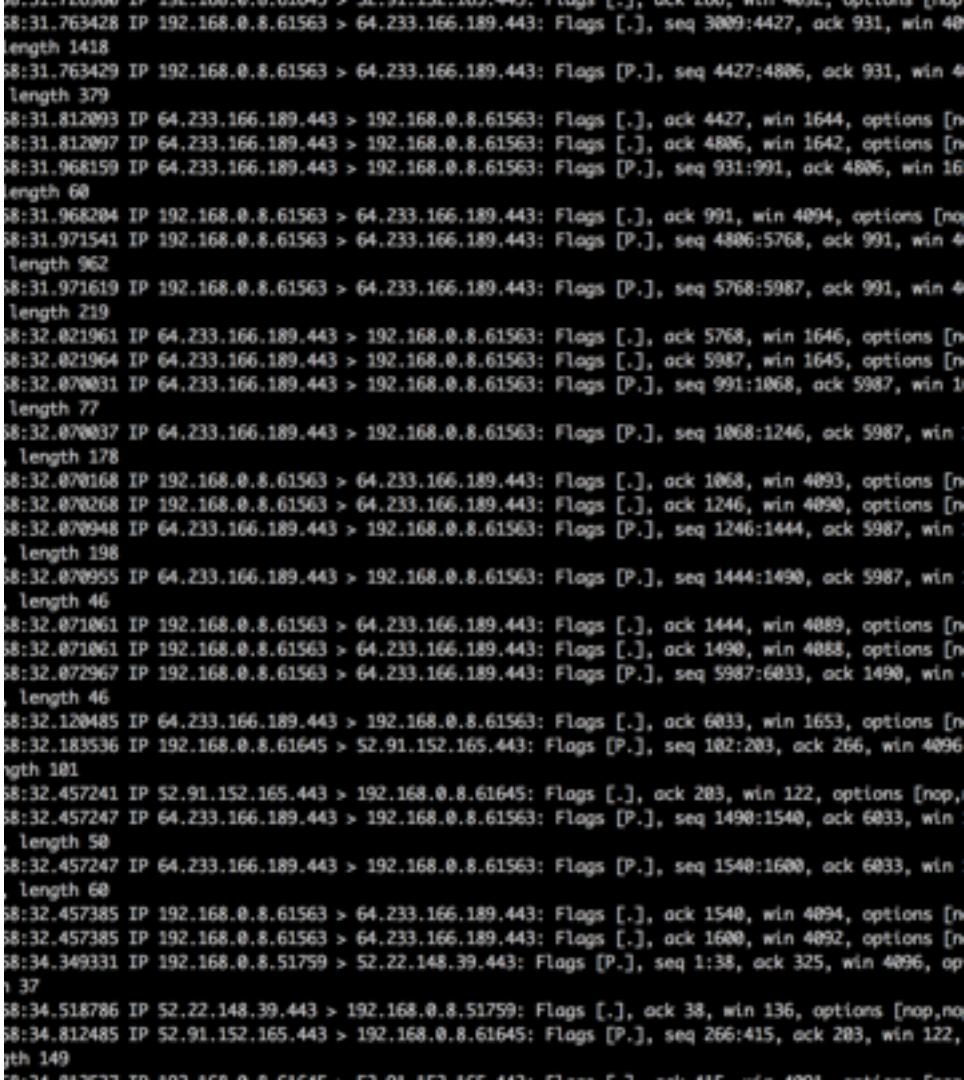
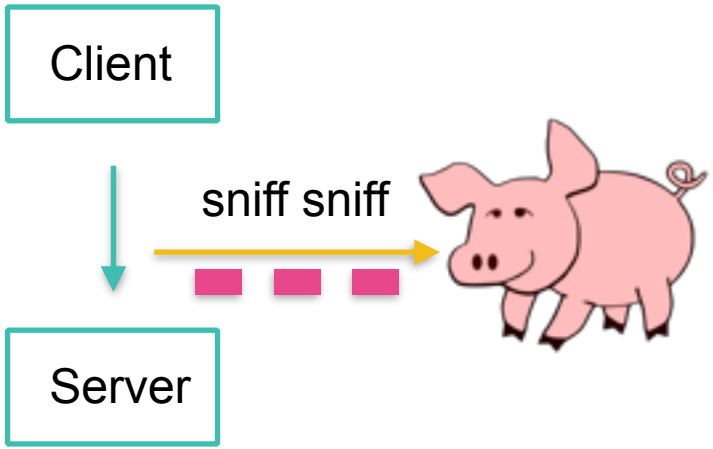
Packetbeat

Captures insights from network packets



Sniffing the network traffic



- Copy traffic at OS or hardware level
- Is completely passive
- ZERO latency overhead
- Not in the request/response path, cannot break your application

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Packetbeat: Available decoders

- HTTP
- MySQL
- PostgreSQL
- Redis
- Thrift-RPC
- Memcache
- MongoDB
- ICMP
- DNS
- AMQP
- + Add your own

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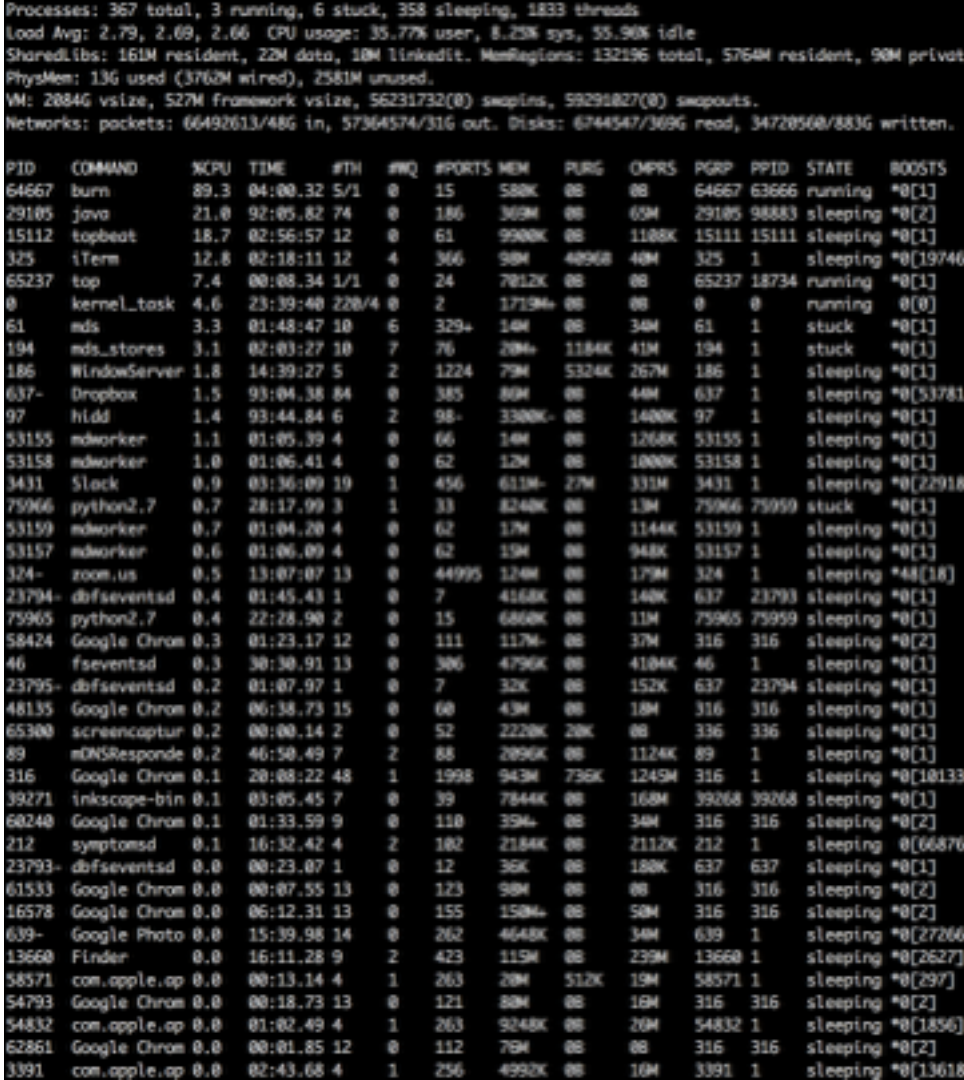
Topbeat

Like the Unix **top** command but sends the output periodically to Elasticsearch. Also works on Windows.



Topbeat: Exported data

System wide

- system load
- total CPU usage
- CPU usage per core
- Swap, memory usage

Per process

- state
- name
- command line
- pid
- CPU usage
- memory usage

Disk usage

- available disks
- used, free space
- mounted points

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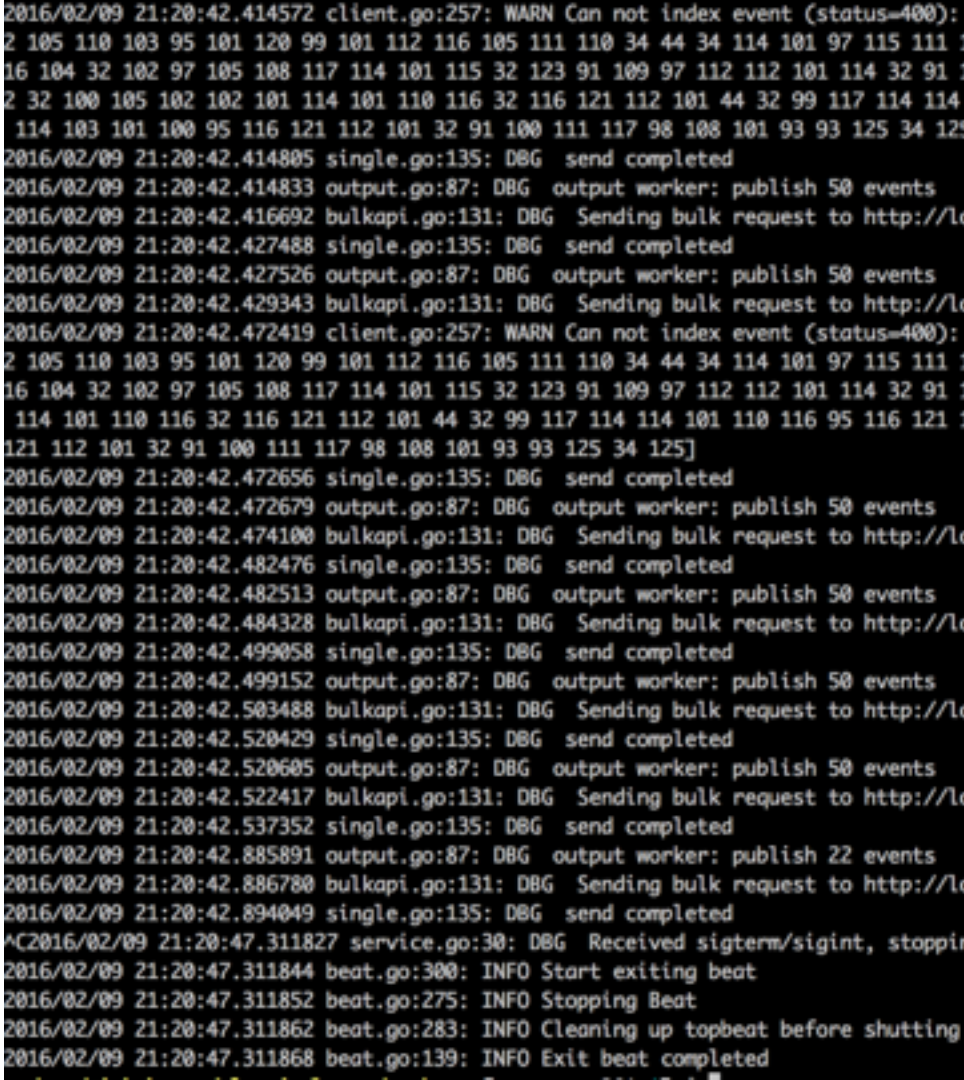
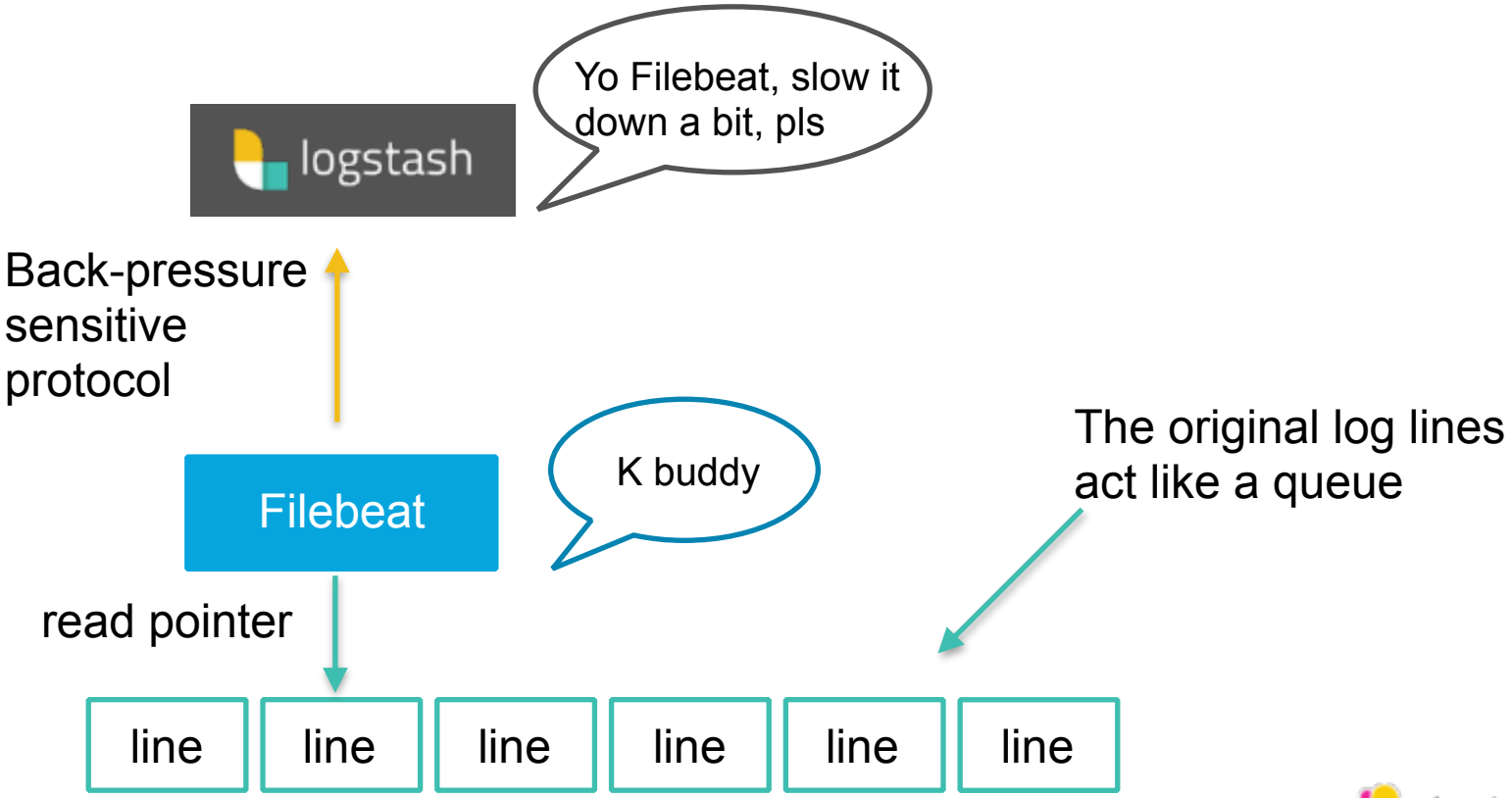
Filebeat

Forwards log lines to Elasticsearch



Filebeat: Never lose a log line



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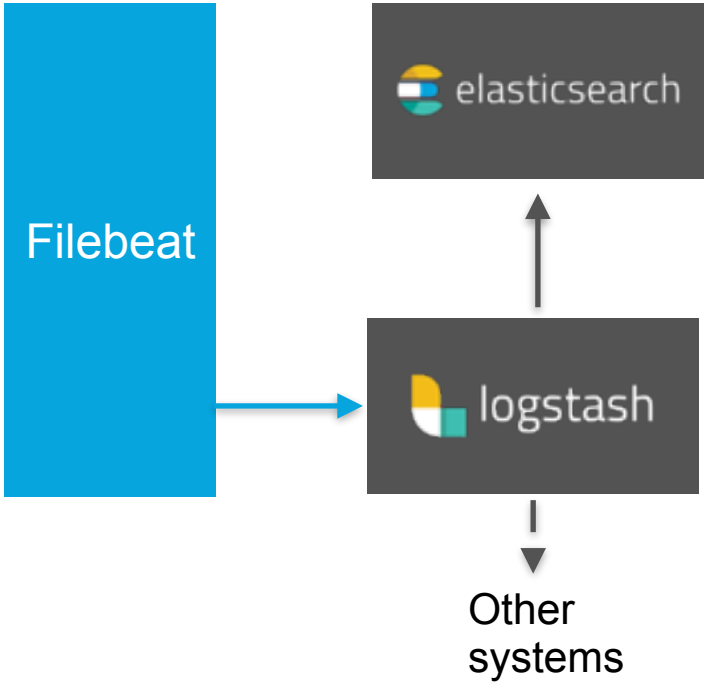
Filebeat: Parse logs with Logstash

Parse logs with Logstash



- Filebeat sends out unparsed log lines
- Use filters from Logstash to parse the log lines
- Flexible, with conditionals & custom filters
- Forward data to other systems using the Logstash output plugins

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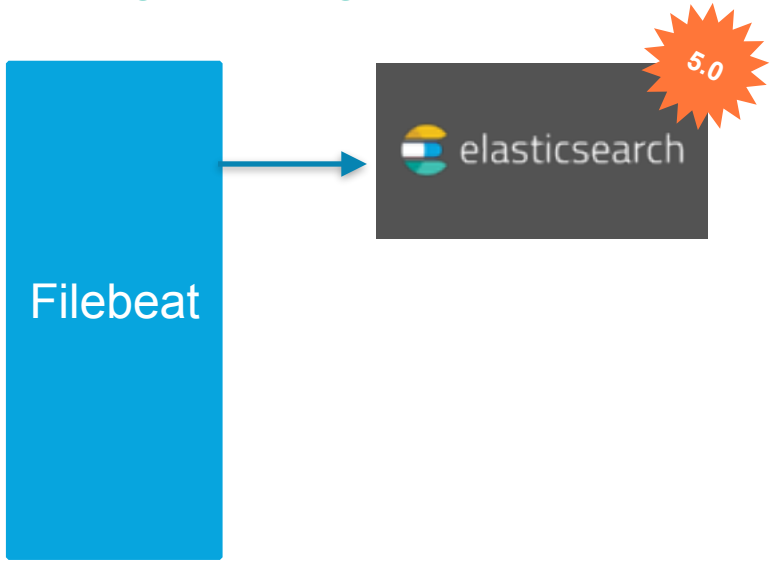
Filebeat: Parse logs with Ingest Node

Parse logs with Ingest node in Elasticsearch



- Filebeat sends out unparsed log lines directly to Elasticsearch
- Use Ingest Node processors (grok, geoip…) to parse the log lines
- Easier to setup

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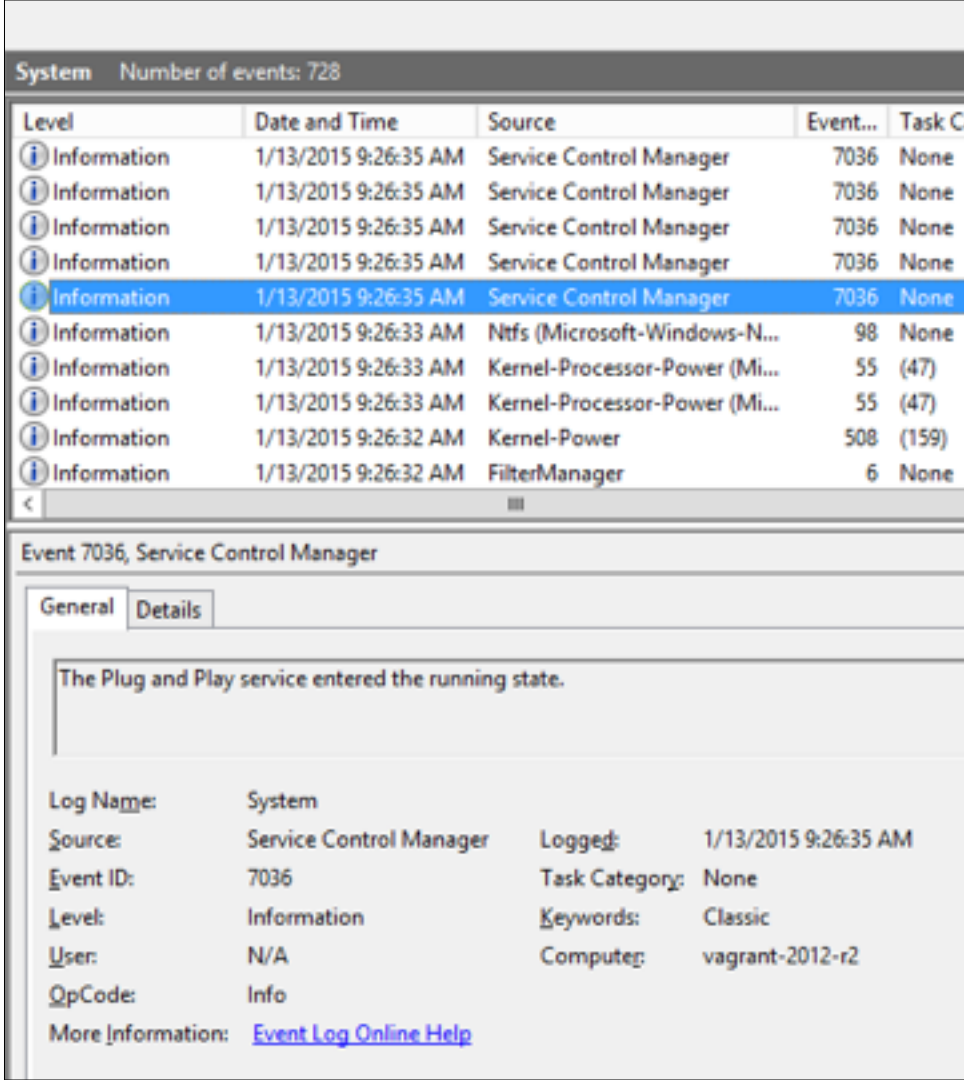
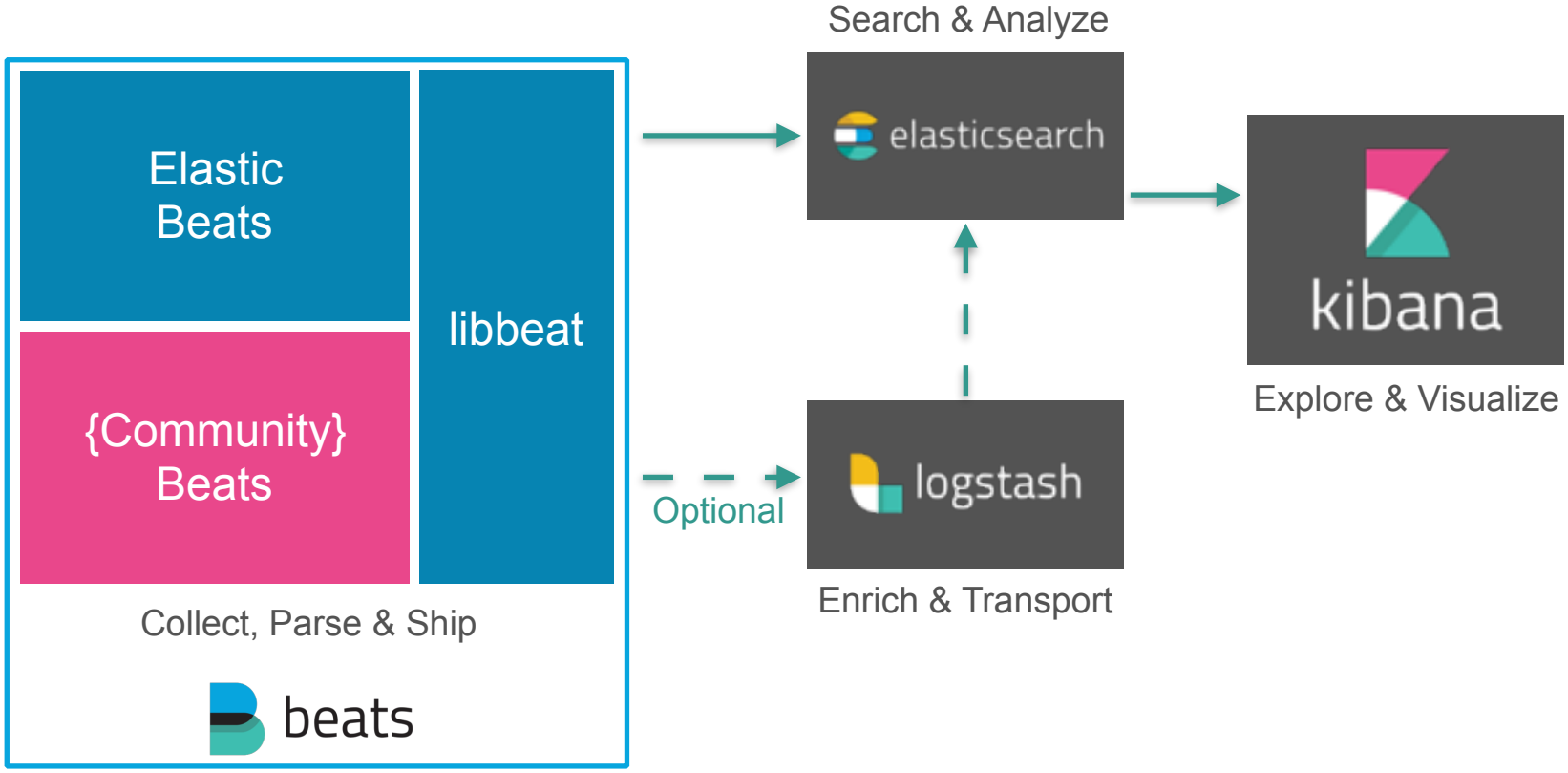
Winlogbeat

Forwards Windows Event logs to Elasticsearch



Beats Platform



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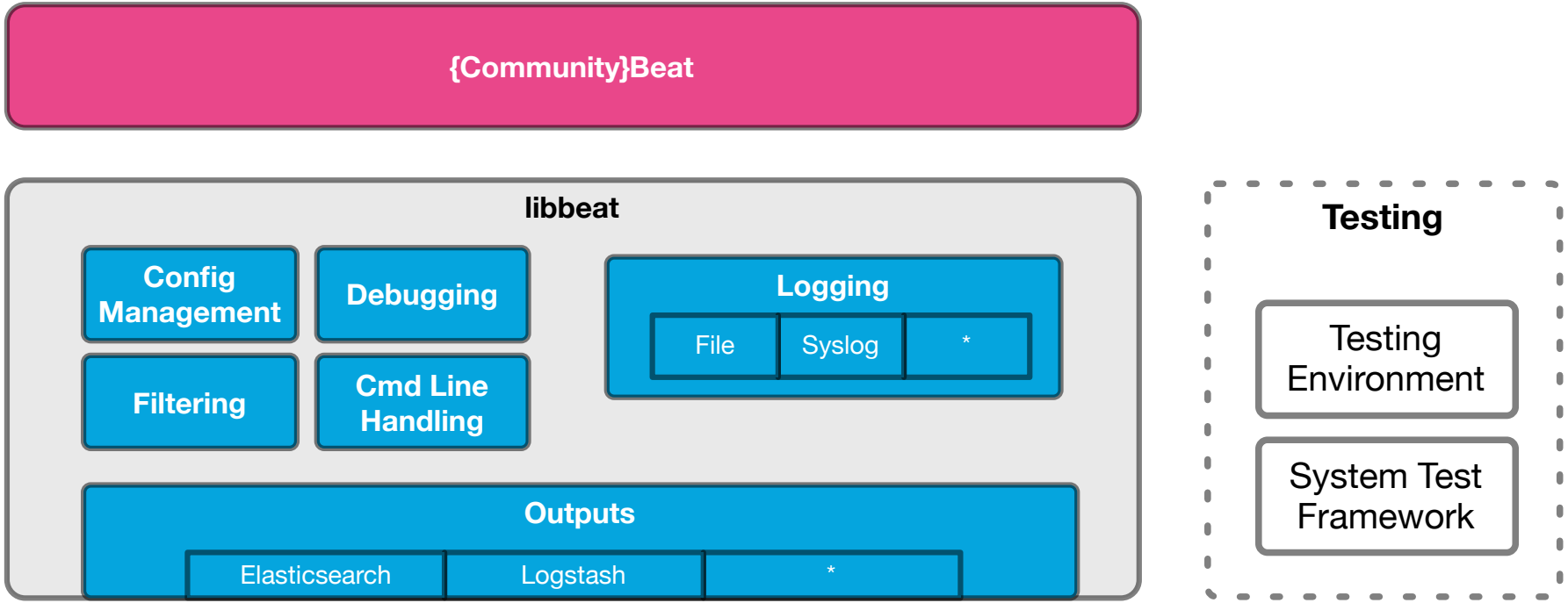
Architecture Overview - libbeat



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Beats Packer

Produces RPMs, DEBs, …

https://github.com/elastic/beats-packer


Super-Sound-Single
45 rpm
Disco-Remix
THE WHISPERS
RCA
And The Beat Goes On
7:30
Side 1
Can You Do The Boogie
6:07
Side 2
FC 1895
Top Hit
USA

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topbeat, packetbeat and soundbeat

https://github.com/dadoonet/soundbeat

thanks!

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