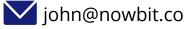
El Elastic Stack en el mundo DevOps















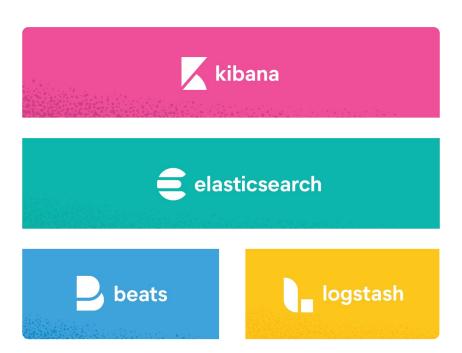
Jhon Guzmán

Ingeniero Avanzado de Elastic

john@nowbit.co +57 301-699-8783 linkedin.com/in/jaguzmanb1/

Elastic Stack

De forma fácil y segura, recolecta datos desde cualquier origen, en cualquier formato, para que sea información buscable, analizable y visualizable en tiempo real.





Tres soluciones, una misma tecnología NowBit





Kibana **Elasticsearch** Beats

Elastic Stack

























Observabilidad

Rides

Logs

Metrics

APM

Uptime



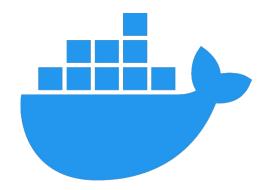
Infraestructuras...

- En la nube.
- Entornos on premise.
- Contenedores.

- Microservicios.
- Monolitos.
- SOA.









Tipos de información.

Se puede generar todo tipo de información

- Logs de aplicaciones.
- Logs de servidores.
- Información de tráfico de paquetes de red.
- Métricas de bases de datos o aplicaciones.
- Información de negocio.





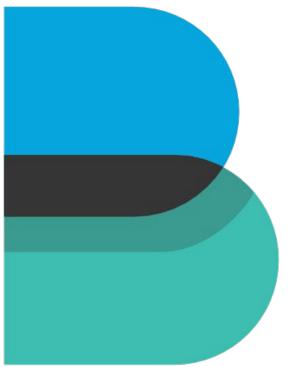




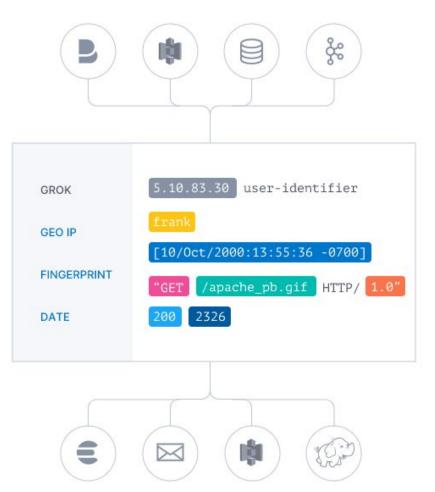
Beats

Agentes de datos ligeros.

- Código abierto.
- Envían datos de cientos o miles de máquinas y sistemas a Logstash o Elasticsearch.
- Cientos de aportes de la comunidad.
- Integración con Kibana.







NowBit





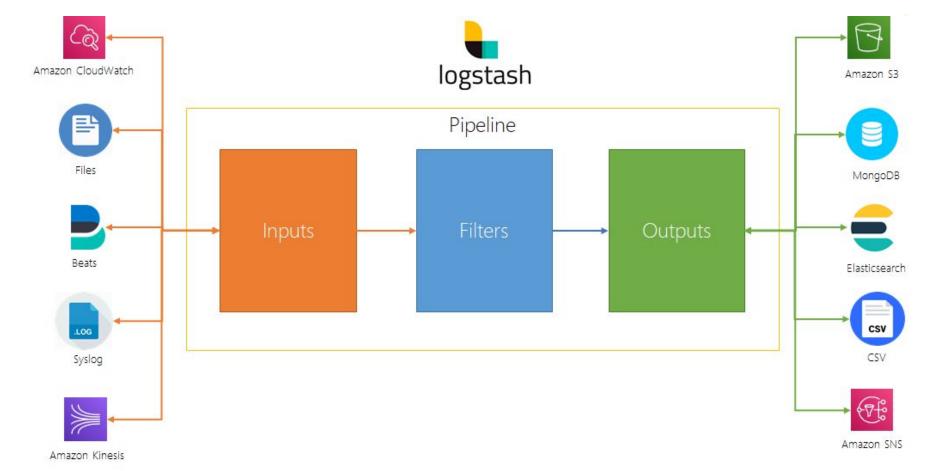
Logstash (ETL)

Pipeline de procesamiento de datos.

- Código abierto.
- Compatible con un montón de orígenes de información.
- Transforma e ingesta información al gusto.
- Ingesta información en múltiples destinos a la vez.
- Enriquece información.











Logstash (ETL)

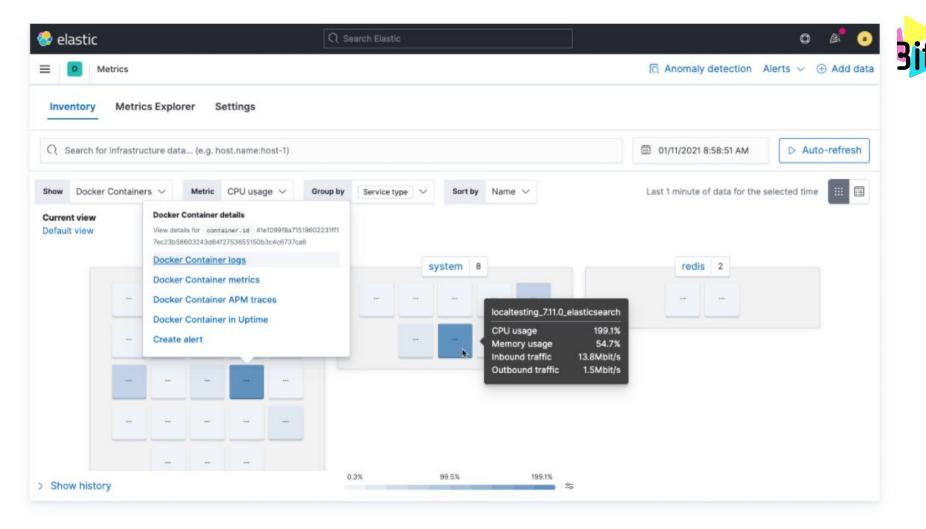
Pipeline de procesamiento de datos.

- Azure event hubs
- Beats
- CloudWatch
- Couch DB
- Elasticsearch
- Exec
- File
- HTTP
- jdbc

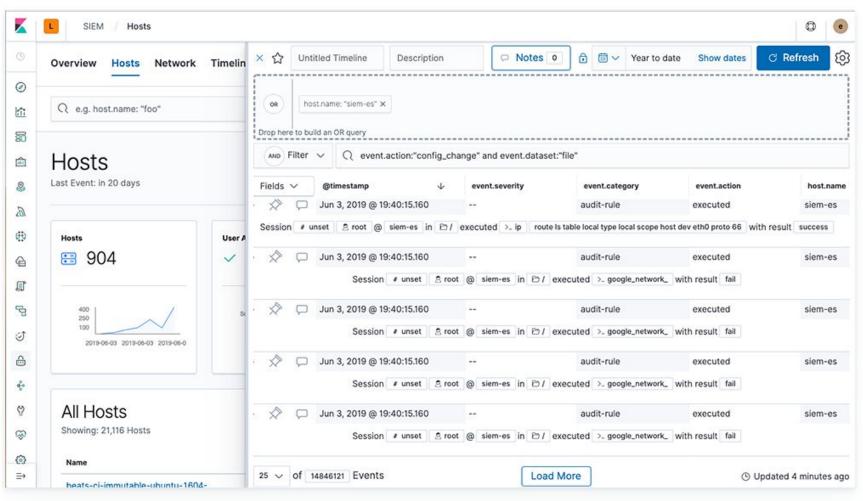
- Kafka
- Kinesis
- Log4j
- Meetup
- Rabbitmq
- Redis
- S3
- Salesforce
- Twitter



_	Logs					0	0
3	Q kubernetes.labels.app: "ka	fka" and error		ustomize 🛗 03/26/2019 7:12:22 PM	D 5	Stream live	
Ð	2017 00 20 07.12.04.177	or: NOT_LEADER_FOR_PARTITION					
î	2019-03-26 07:12:54.149	[kafka.log][INFO] Retrying leaderEpoch request for partitionconsumer_offsets-15 as the leader reported an err or: NOT_LEADER_FOR_PARTITION [kafka.log][INFO] Retrying leaderEpoch request for partition logs-0 as the leader reported an error: NOT_LEADER					
8	2019-03-26 07:12:54.149	[kafka.log][INFO] Retrying leaderEpoch request for partition logs-0 as the leader reported an error: NOT_LEADER_FOR_PARTITION [kafka.log][INFO] Opening socket connection to server kafka-zookeeper/10.47.244.48:2181. Will not attempt to aut henticate using SASL (unknown error) [kafka.log][INFO] Opening socket connection to server kafka-zookeeper/10.47.244.48:2181. Will not attempt to aut henticate using SASL (unknown error) [kafka.log][INFO] Opening socket connection to server kafka-zookeeper/10.47.244.48:2181. Will not attempt to aut henticate using SASL (unknown error)					
	2019-03-26 10:57:32.403	[kafka.log][INFO] Opening socket connection to server kafka-zookeeper/10.47.244.48:2181. Will not attempt to aut henticate using SASL (unknown error)					
2	2019-03-26 10:57:32.456	[kafka.log][INFO] Opening socket connection to server kafka-zookeeper/10.47.244.48:2181. Will not attempt to aut henticate using SASL (unknown error)					
9	henticate using SASL (unknown error) 2019-03-26 11:57:30.553 [kafka.log][INFO] Opening socket connection to server kafka-zookeeper/10.47.244.48:2181. Will not attempt to aut henticate using SASL (unknown error) 2019-03-26 13:57:32.752 [kafka.log][INFO] Opening socket connection to server kafka-zookeeper/10.47.244.48:2181. Will not attempt to aut						
ì	2019-03-26 13:57:32.752	[kafka.log][INFO] Opening socket connection to server kafka-zookeeper/10.47.244.48:2181. Will not attempt to aut					
70	2019-03-26 19:12:22.369	[kafka.log][INFO] Error sending fetch request (sessionId=839052068, epoch=517118) to node 2: java.nio.channels.C losedSelectorException.					
ĵ	2019-03-26 19:12:22.785						
9	2019-03-26 19:12:22.786	[kafka.log][INFO] Retrying leaderEpoch request for por: NOT_LEADER_FOR_PARTITION	partitionconsumer	_offsets-11 as the leader reported a	n err	9	
3	2019-03-26 19:12:22.786	[kafka.log][INFO] Retrying leaderEpoch request for por: NOT_LEADER_FOR_PARTITION	partitionconsumer	_offsets-41 as the leader reported an	n err	Wed 27	
9	2019-03-26 19:12:22.786	[kafka.log][INFO] Retrying leaderEpoch request for pr: NOT_LEADER_FOR_PARTITION	partitionconsumer	_offsets-5 as the leader reported an	erro		
)	2019-03-26 19:12:22.786	[kafka.log][INFO] Retrying leaderEpoch request for por: NOT_LEADER_FOR_PARTITION	partitionconsumer	_offsets-35 as the leader reported as	n err	03 AM	
	2019-03-26 19:12:22.786	[kafka.log][INFO] Retrying leaderEpoch request for por: NOT_LEADER_FOR_PARTITION	partitionconsumer	_offsets-17 as the leader reported an	n err	06 AM	
>	2019-03-26 19:12:25.493	[kafka.log][INFO] Error sending fetch request (sess:	ionId=1303574239, ep	och=127483) to node 0: java.nio.chann	nels.	33,100	











Elasticsearch

El corazón del Elastic Stack, gratuito y abierto.

- Código abierto.
- Motor de búsqueda y analítica RESTful.
- Operaciones en tiempo real.
- Escalable y distribuido.
- Útil para un montón de casos de uso.





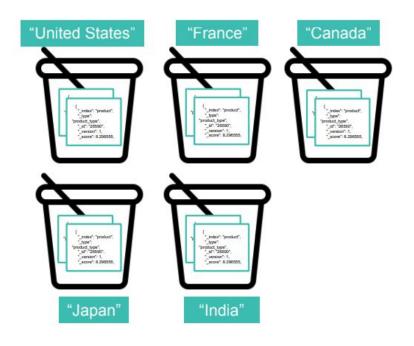




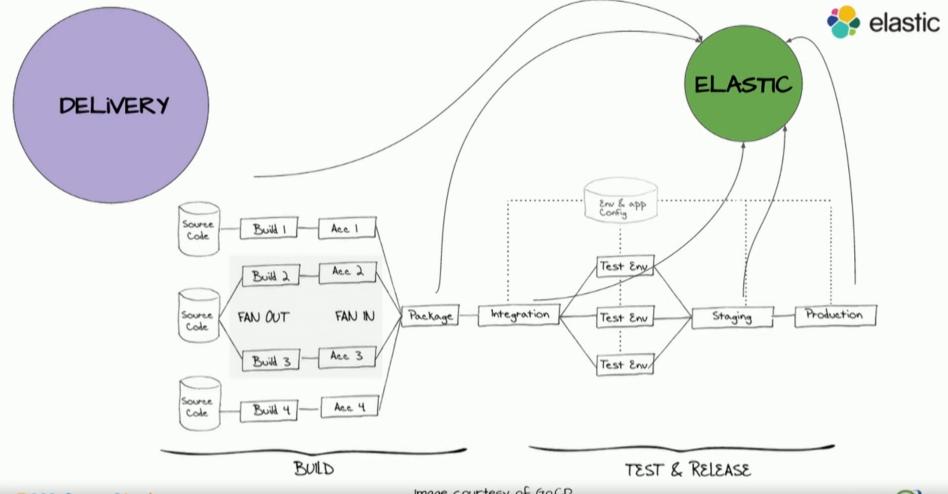




Let's analyze the web logs by country...









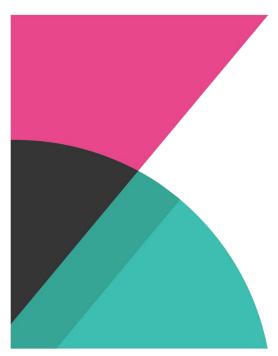
AVAL.



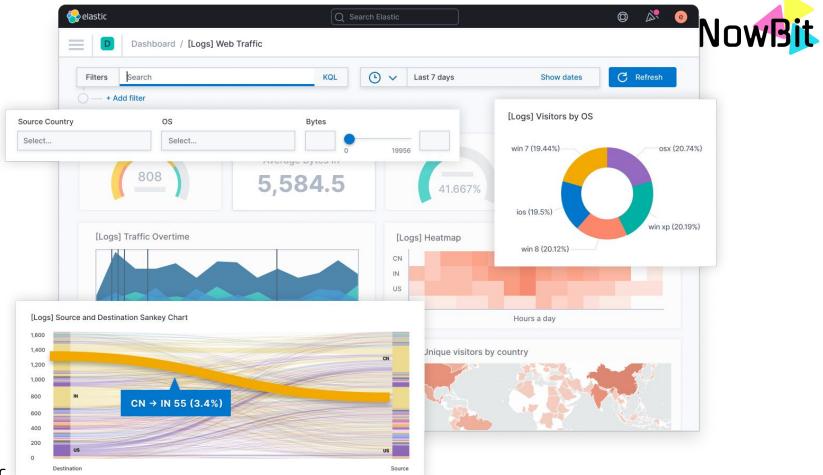
Kibana

La ventana al Elastic Stack.

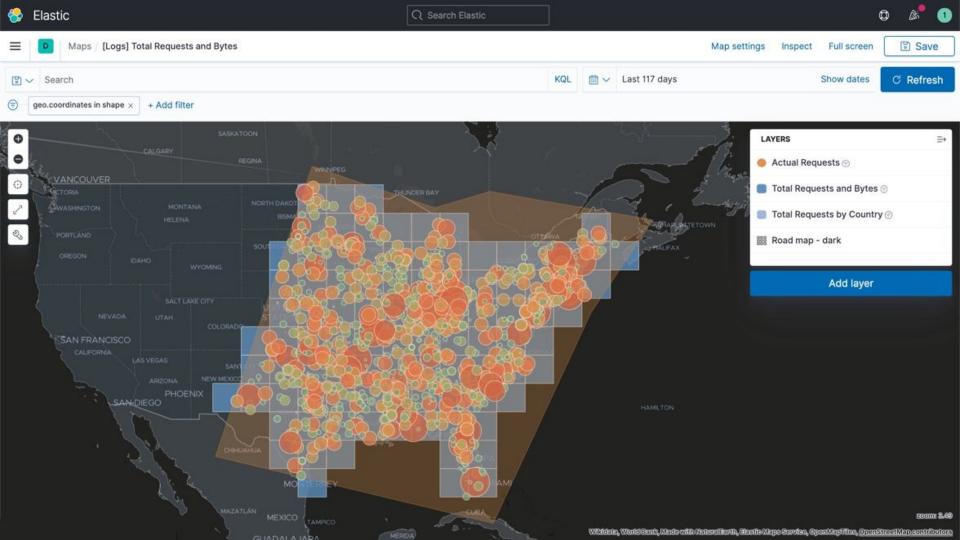
- Herramienta de administración del Elastic Stack.
- Visualizaciones y dashboards en tiempo real.
- Escalable y distribuido.
- Código abierto.
- Útil para un montón de casos de uso.

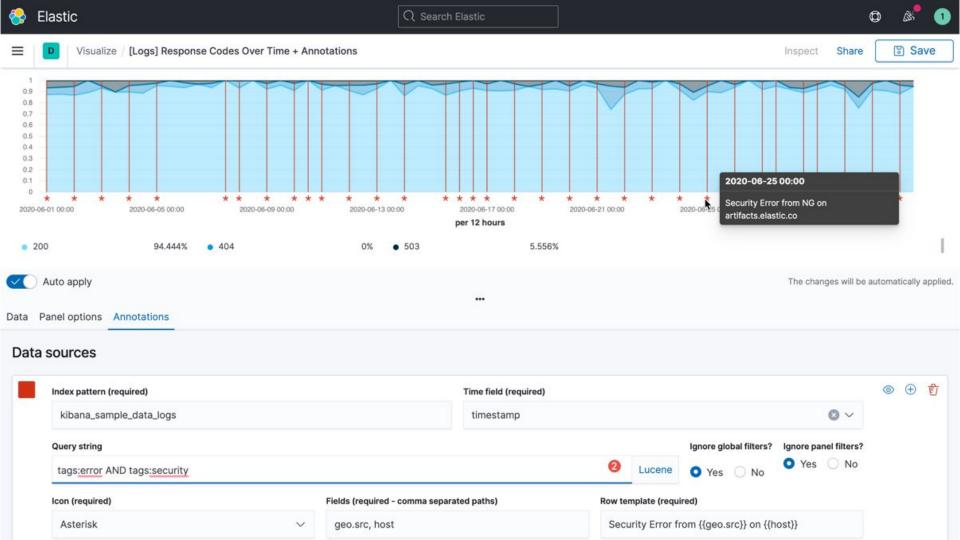


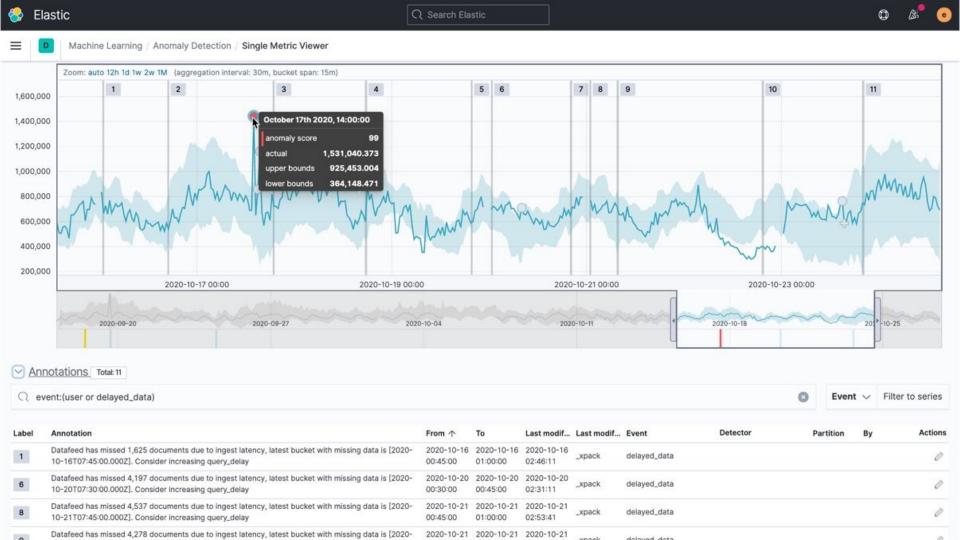


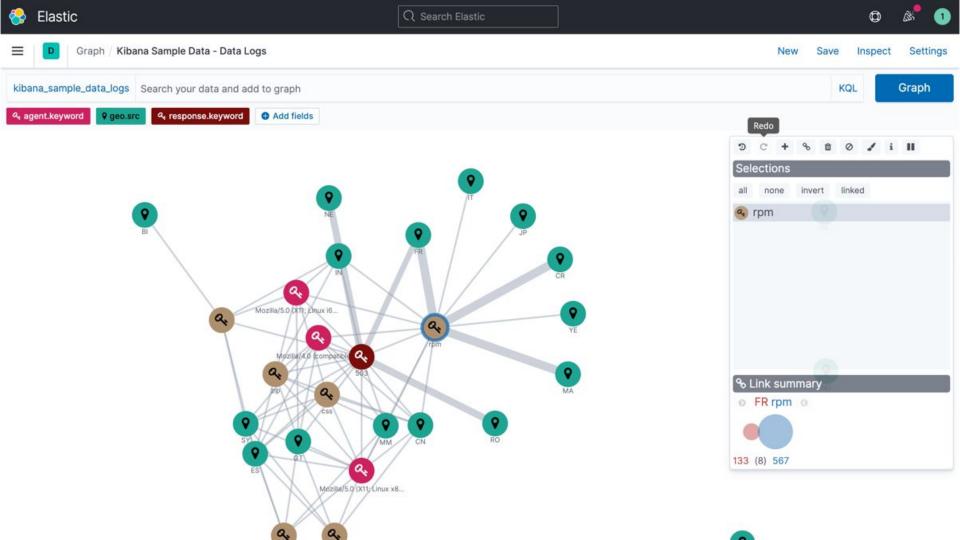








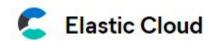




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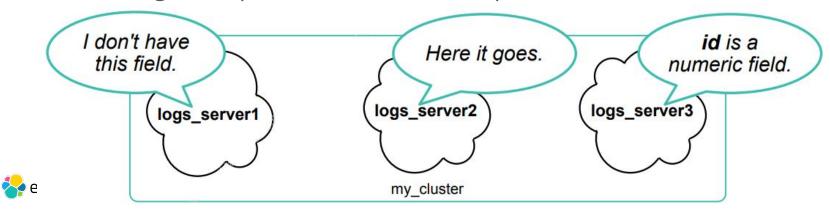


Nombres de campos



Cuando tenemos información de múltiples orígenes puede suceder lo siguiente:

- Campos con la misma información pero con nombres o tipos de datos distintos.
- Por ejemplo: user, username, nginx.access.user_name Esto tiene un gran impacto a través de múltiples índices.



Elastic Common Schema



- Es una especificación open source .
 - Que define un conjunto común de campos de documentos.
- Está diseñado para admitir modelos de datos uniformes.
 - Especifica nombres de campos y tipos de datos de Elasticsearch para cada campo.
 - Provee descripciones y ejemplos de uso.

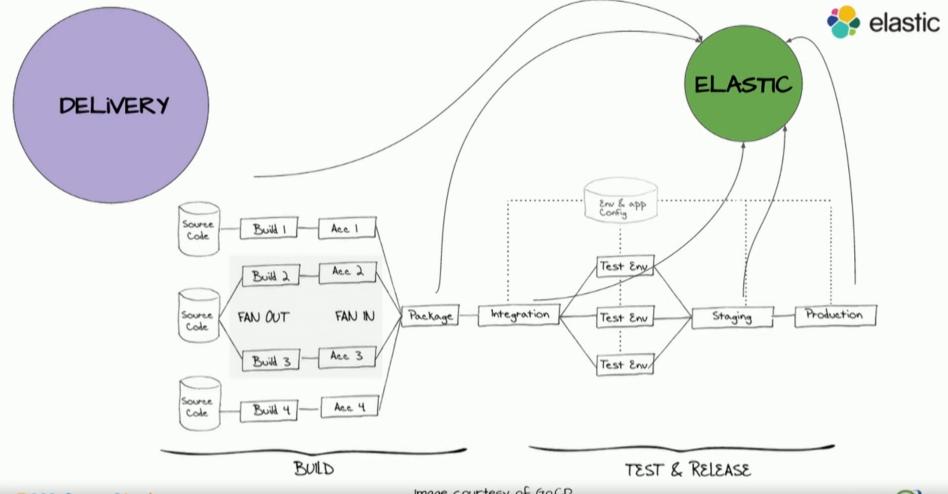


Elastic Common Schema



- El ECS define dos niveles de campos: Core y Extended.
- Core
 - Campos que son comunes a través de la mayoría de casos de uso.
- Extended
 - Campos que complementan la información de los core fields.
 - Contienen información más específica.







AVAL.



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