



splunk>

SEC1905 - 159 Security Use Cases in Record Time With Splunk and Kafka

Lock Landgon - Global Director - Security Analytics at McKesson
Nik Macroglou – Sales Engineer at Splunk

May 2018 | Version 1.0

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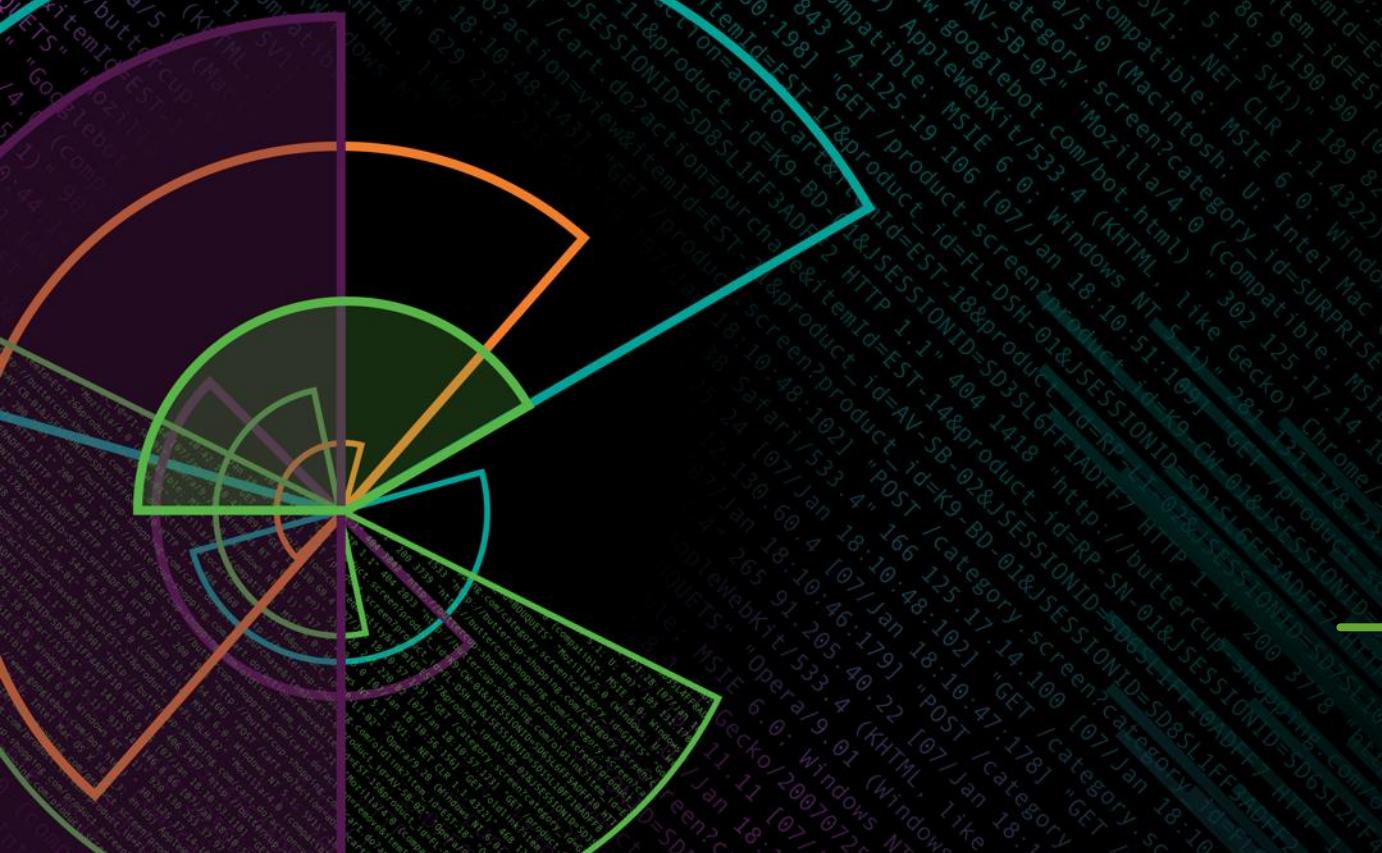
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Agenda

- ▶ Who is McKesson?
- ▶ Kafka Overview
 - What is Kafka
 - Why did we choose Kafka
 - Trouble Shooting
 - Splunk Cloud overview
- ▶ How they work together
 - Use Case Process
 - Examples of the some of the 159 use cases
 - Connectors
- ▶ Share the love

Who are we



Who is Nik Macroglou



Born/Raised in Pittsburgh, PA -
Da Burgh

Love to play Golf

Networking/Telcom Background

Music Producer/DJ (love dirty
bass music)

Started using Splunk 4.x in 2012 @ Echostar
Primary Admin supporting 1TB on prem install for
CAS and surrounding groups

Joined Splunk in 2017 as a SE



Live in Phoenix since 2004
Married with 4 kiddos
(9/10/11/20)



Senior Engineer I @ AMEX 2014 - 2017
designing/supporting/growing the AMEX
Splunk CoE to 6TB on prem Cross Site
Replicated instance supporting 43 internal
departmental use cases across the stack

Who is Lock Langdon

- Born/Raised in Cottonwood, CA
- Love to read and play video games.
- Systems, Storage, Medical Imaging, and evil pointy haired manager background

First used Splunk in 2009 @ Mayo Clinic to track storage array logging issues. Also used it in Medical imaging to track DICOM Tagging Issues



Moved to AZ in 1993

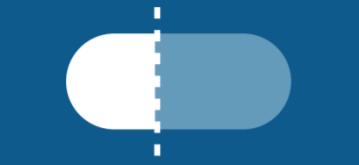


Really started using Splunk at Stanford in Palo Alto, and at a small VAR named cStor in Arizona to develop provide application performance dashboards, and help customers solve security issues.

Joined McKesson in 2018 as The Global Director of Security Analytics to Deploy Splunk and deliver a SIEM for the Global iSOC

Who is **MCKESSON**

The biggest company you
probably haven't heard of



1/3 of all
pharmaceuticals

used each day
in North America
are delivered by
McKesson

4th
largest
pharmacy
chain

4,800+ retail
pharmacies are
members of
our Health Mart®
franchise

Company founded:

1833

Fortune 500:

Ranked 6th

Headquarters:

San Francisco

Employees:

78,000+



16,000+
owned and banner
pharmacies
delivering patient care

*McKesson is an industry
leader in:*

- Pharmaceutical distribution in North America and Europe
- Medical-surgical distribution to alternate care sites
- Generics pharmaceutical distribution
- Business and clinical services for providers
- Healthcare technology solutions

mckesson.com

275,000+

SKUs of brand & private label
medical-surgical supplies

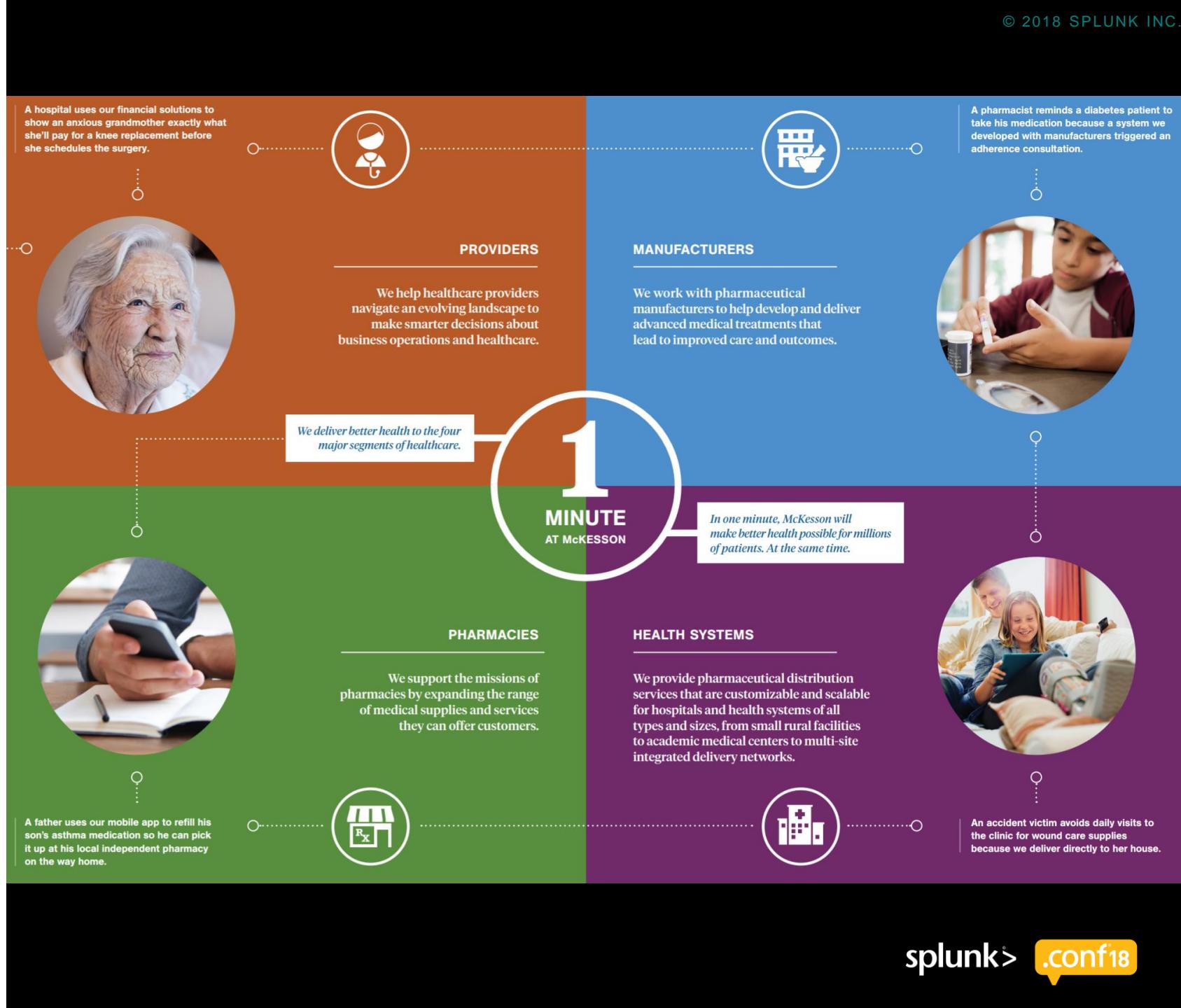
9,100+

oncologists & other
specialists supported with
specialty solutions

08.17.2018

Who is **MCKESSON**

The biggest company you
probably haven't heard of



Poll



What is Kafka

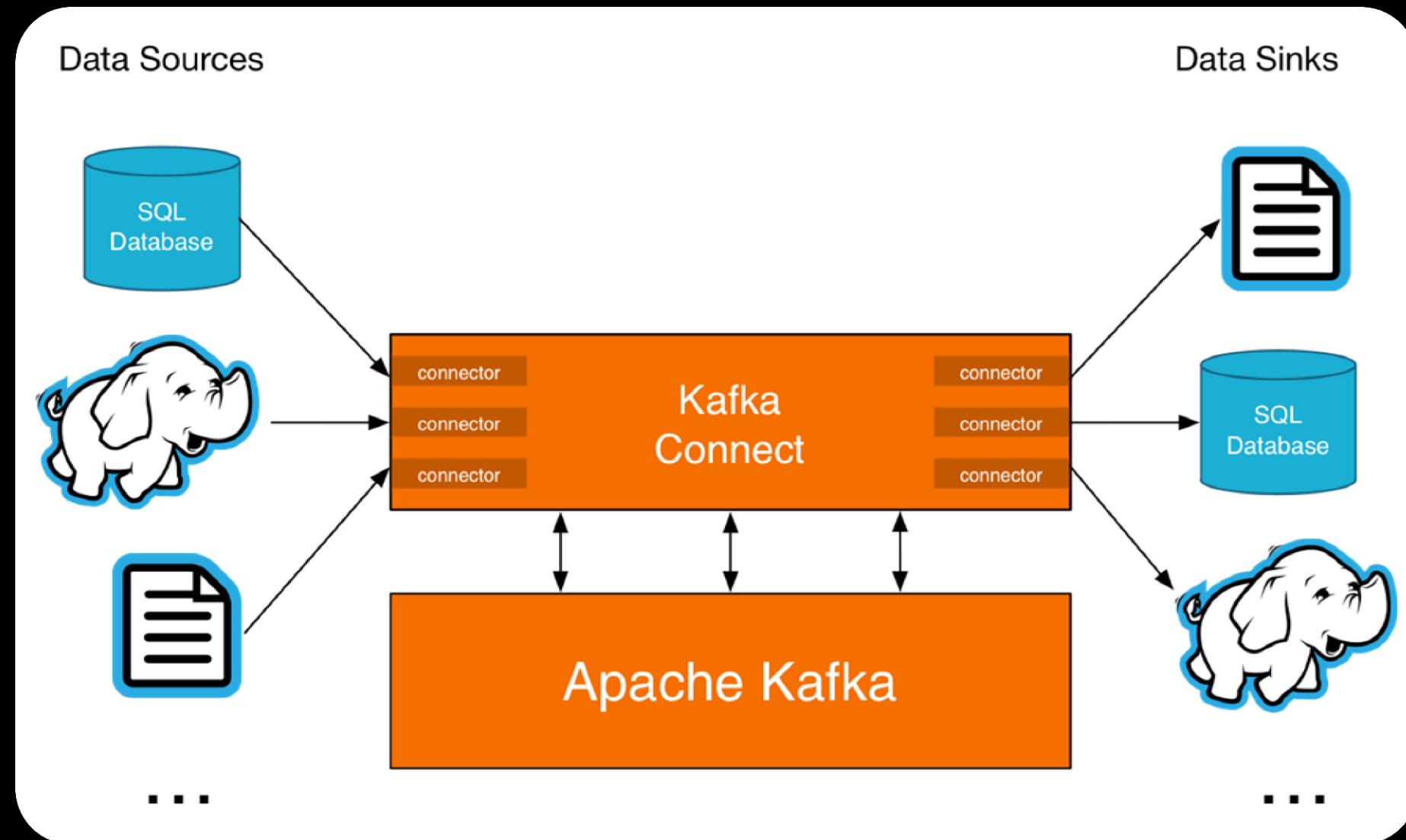
Apache Kafka was originally developed by LinkedIn, and was subsequently open sourced in early 2011.

- ▶ **Kafka** is used for building real-time data pipelines and streaming apps. It is horizontally scalable, fault-tolerant, wicked fast, and runs in production in thousands of companies.
- ▶ **Kafka Connect** is a framework included in Apache Kafka that integrates Kafka with other systems. Its purpose is to make it easy to add new systems to your scalable and secure stream data pipelines.

<https://kafka.apache.org/>

<https://www.confluent.io/product/connectors/>

Kafka Data Flow



“ Press Release

Confluent Grows Subscriptions By Over 700 Percent in 2016 as Businesses Seize the Power of Real-Time Data

Company growth in 2016 driven by strong demand for streaming platforms and Apache Kafka® as enterprises go real time

<https://www.confluent.io/press-release/confluent-grows-subscriptions-700-percent-2016-businesses-seize-power-real-time-data/>

Why did we choose Kafka

1

No existing solution

2

Supports other areas

3

Decades of legacy

4

Looking to the future

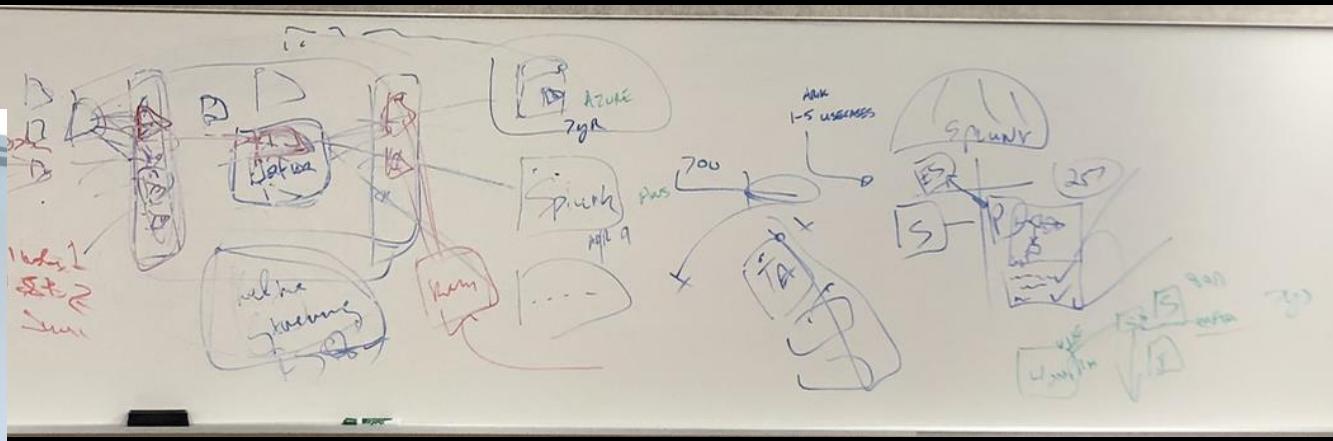
5

The Team

“Splunk Connect for Kafka introduces a scalable approach to tap into the growing volume of data flowing into Kafka. With the largest Kafka clusters processing over one trillion messages per day and Splunk deployments reaching petabytes ingested per day, this scalability is critical.”

<https://www.splunk.com/blog/2018/04/25/unleashing-data-ingestion-from-apache-kafka.html>

Kafka Connector Co-Engineering Efforts



- ▶ Splunk Product Manager and Lead Kafka Engineer validated McKesson's approach aligns to Splunk's vision with Kafka
- ▶ Monthly joint sessions scheduled at Splunk Corp HQ (270 Brannan St) in San Francisco
- ▶ Specific feature requests (i.e. Kafka Headers) have been prioritized by Splunk Engineering

How is McKesson Using Kafka?



Our Hardware Config

if wanting a cluster locally

- ▶ Full HA Kafka Cluster
 - All servers Linux
 - 3 x Zookeeper: 8G RAM, 2 CPU, 150G HDD
 - 3 x Kafka Broker: 32G RAM, 8 CPU, 1T HDD
 - 3 x Connect/Schema registry: 16G RAM, 4 CPU, 100G HDD
 - 1 x Rep/CC/Mgmt: 16G RAM, 4 CPU, 1T HDD
 - 2 x Load Balancer Servers HAProxy
 - 1 Virtual IP for the load balancers

Troubleshooting and Other tidbits

Methods to confirm Kafka services running and listening:

```
# List active connectors
```

```
curl http://localhost:8083/connectors
```

```
# Get kafka-connect-splunk connector info
```

```
curl http://localhost:8083/connectors/kafka-connect-splunk
```

```
# Get kafka-connect-splunk connector config info
```

```
curl http://localhost:8083/connectors/kafka-connect-splunk/config
```

```
# Delete kafka-connect-splunk connector
```

```
curl http://localhost:8083/connectors/kafka-connect-splunk -X DELETE
```

```
# Get kafka-connect-splunk connector task info
```

```
curl http://localhost:8083/connectors/kafka-connect-splunk/tasks
```

Sending test syslog data to test source and sink

- ▶ Send sample log using logger command:
 - ▶ `logger --udp --server 10.10.10.4 --port 5521 "Test message from logger"` (sometimes it is useful to add more info in the message to specify more detail)
 - ▶ `logger --tcp --server 10.10.10.5 --port 6514 "Test message from logger"`
 - ▶ “server” can be load balancer VIP or the active source connector, depending on what you are trying to test

Splunk Connector

```
curl localhost:8083/connectors -X POST -H "Content-Type: application/json" -d '{
"name": "kafka-connect-splunk",
"config": {
  "connector.class": "com.splunk.kafka.connect.SplunkSinkConnector",
  "tasks.max": "3",
  "topics": "<list-of-topics-separated-by-comma>",
  "splunk.indexes": "<list-of-indexes-for-topics-data-separated-by-comma>",
  "splunk.sources": "<list-of-sources-for-topics-data-separated-by-comma>",
  "splunk.sourcetypes": "<list-of-sourcetypes-for-topics-data-separated-by-comma>",
  "splunk.hec.uri": "<Splunk-HEC-URI>",
  "splunk.hec.token": "<Splunk-HEC-Token>",
  "splunk.hec.raw": "<true|false>",
  "splunk.hec.json.event.enrichment": "<key value pairs separated by comma, only applicable to /event HEC>",
  "splunk.hec.raw.line.breaker": "<line breaker separator>",
  "splunk.hec.ack.enabled": "<true|false>",
  "splunk.hec.ack.poll.interval": "<event ack poll interval>",
  "splunk.hec.ack.poll.threads": "<number of threads used to poll event acks>",
  "splunk.hec.ssl.validate.certs": "<true|false>",
  "splunk.hec.http.keepalive": "<true|false>",
  "splunk.hec.max.http.connection.per.channel": "<max number of http connections per channel>",
  "splunk.hec.total.channels": "<total number of channels>",
  "splunk.hec.max.batch.size": "<max number of kafka records post in one batch>",
  "splunk.hec.threads": "<number of threads to use to do HEC post for single task>",
  "splunk.hec.event.timeout": "<timeout in seconds>",
  "splunk.hec.socket.timeout": "<timeout in seconds>",
  "splunk.hec.track.channel": "<true|false, for debug only>"
}
}'
```

What is the value?

Normal Pan* Data

```
Jul 12 17:08:38 host 0,2018/07/12 17:08:38,007200002538,TRAFFIC,end,0,2018/07/12 17:08:38,221.202.126.46,10.154.9.132,,,Unexpected Traffic,,pancademo\michael.rodriqu,unknown-udp,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA
Jul 12 17:08:37 host 0,2018/07/12 17:08:37,007200002539,TRAFFIC,end,0,2018/07/12 17:08:37,10.154.1.5,8.18.65.52,,,Watch Public DNS and SMTP,pancademo\dorothy.morrill,,dns,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA,2018/07/12 17:08:38 host 0,2018/07/12 17:08:38,007200002539,TRAFFIC,end,0,2018/07/12 17:08:38,10.154.196.169,161.69.14.52,,,Watch Public DNS and SMTP,pancademo\jordan.bowery,,dns,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA,2018/07/12 17:08:36 host 0,2018/07/12 17:08:36,007200002539,TRAFFIC,end,0,2018/07/12 17:08:36,10.154.7.147,74.125.53.101,,,General Web Infrastructure,pancademo\florence.lapete,,google-analytics,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA,2018/07/12 17:08:36 host 0,2018/07/12 17:08:36,007200002538,TRAFFIC,end,0,2018/07/12 17:08:36,202.96.209.26,10.154.196.161,,,Watch Public DNS and SMTP,pancademo\marc.albrighton,dns,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA
Jul 12 17:08:38 host 0,2018/07/12 17:08:38,007200002536,TRAFFIC,end,0,2018/07/12 17:08:38,10.154.196.169,200.12.199.1,,,Watch Public DNS and SMTP,pancademo\jordan.bowery,,dns,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA,2018/07/12 17:08:36 host 0,2018/07/12 17:08:36,007200002538,THREAT,wildfire-virus,0,2018/07/12 17:08:36,66.1.1.6,10.154.10.133,,,Watch Public DNS and SMTP,,smtp,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA,2018/07/12 17:08:36 host 0,2018/07/12 17:08:36,007200002539,TRAFFIC,end,0,2018/07/12 17:08:36,10.154.227.49,198.189.255.230,,,General Web Infrastructure,pancademo\scott.sinclair,,web-browsing,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA,2018/07/12 17:08:38 host 0,2018/07/12 17:08:38,007200002539,THREAT,url,0,2018/07/12 17:08:38,10.154.213.20,69.2.103.13,,,General Web Infrastructure,pancademo\jack.wilshire,,web-browsing,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA
Jul 12 17:08:38 host 0,2018/07/12 17:08:38,007200002536,TRAFFIC,end,0,2018/07/12 17:08:38,137.145.204.10,10.154.12.101,,,Watch Public DNS and SMTP,pancademo\lori.mccullough,dns,vsys1,L3-TAP,L3-TAP,ethernet1/2,ethernet1/2,ToUS1RAMA
```

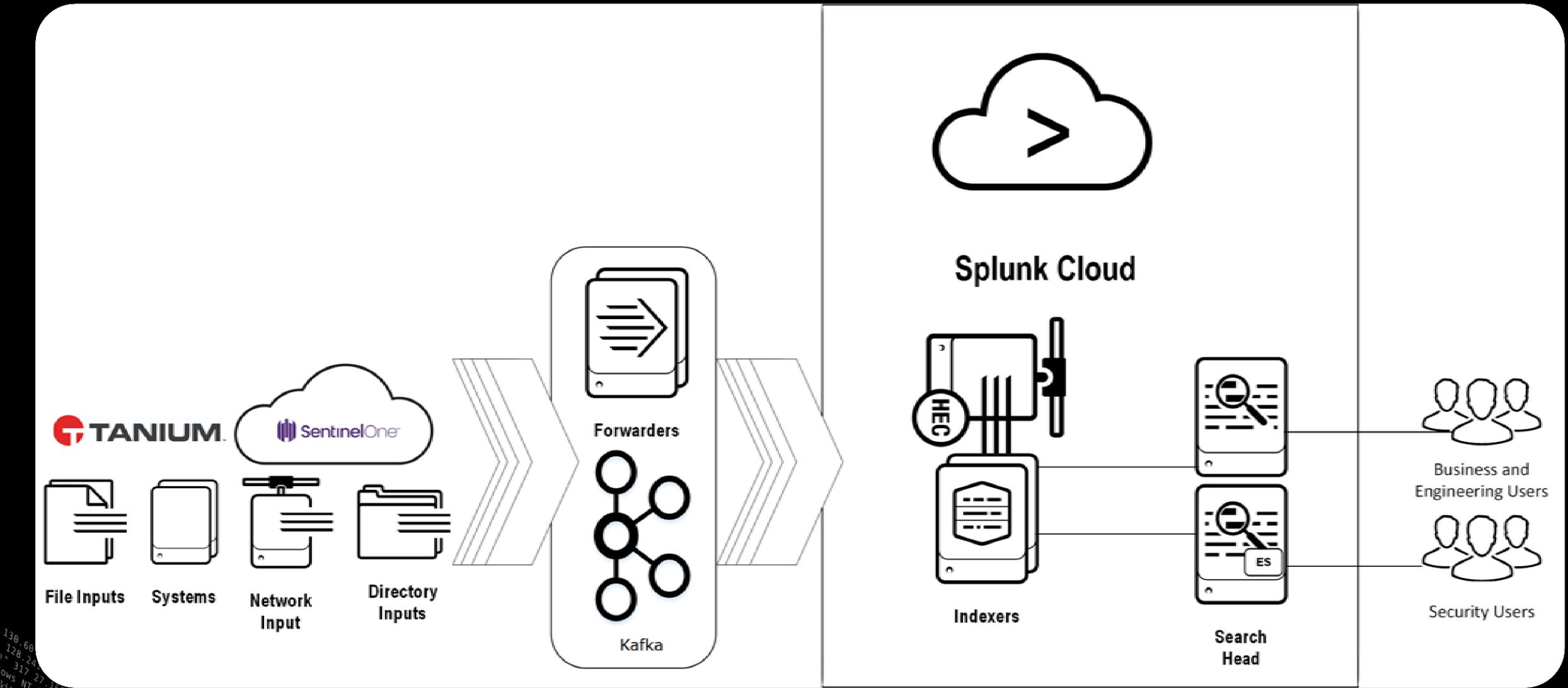
MCK Kafka Pan* Data

```
536 <14>1 2018-07-12T12:59:54-04:00 MKSC-GMD-TCC-IPS2.mckesson.ca - - - 1,2018/07/12 12:59:54,012001004884,TRAFFIC,end,0,2018/07/12 12:59:54,10.80.144.152,10.80.148.160,0.0.0.0,0.0.0,pdpSecMplsPHI,ca\tdemets,ca\svc-ad-bkp,dns,vsys1,ptnzMplsIn,ptnzMplsOut,ethernet1/2,ethernet1/1,pdoLogPanAll_SyslogNoTraffic,2018/07/12 12:59:54,102166,1,57411,53,0,0,0x19,udp,allow,260,77,183,2,2018/07/12 12:59:24,0,any,0,134669729,0x0,10.0.0.0-10.255.255.255,10.0.0.0-10.255.255.0,1,,aged-out,15,67,0,0,,MKSC-GMD-TCC-IPS2,from-policy,,,0,,N/A
535 <14>1 2018-07-12T12:59:54-04:00 MKSC-GMD-TCC-IPS2.mckesson.ca - - - 1,2018/07/12 12:59:54,012001004884,TRAFFIC,end,0,2018/07/12 12:59:54,10.80.144.152,10.80.148.160,0.0.0.0,0.0.0,pdpSecMplsPHI,ca\tdemets,ca\svc-ad-bkp,dns,vsys1,ptnzMplsIn,ptnzMplsOut,ethernet1/2,ethernet1/1,pdoLogPanAll_SyslogNoTraffic,2018/07/12 12:59:54,86614,1,50728,53,0,0,0x19,udp,allow,222,90,132,2,2018/07/12 12:59:24,0,any,0,134669730,0x0,10.0.0.0-10.255.255.255,10.0.0.0-10.255.255.255,0,1,,aged-out,15,67,0,0,,MKSC-GMD-TCC-IPS2,from-policy,,,0,,N/A
530 <14>1 2018-07-12T12:59:54-04:00 MKSC-GMD-TCC-IPS2.mckesson.ca - - - 1,2018/07/12 12:59:54,012001004884,TRAFFIC,end,0,2018/07/12 12:59:54,10.80.136.114,10.80.144.16,0.0.0.0,0.0.0,pdpSecMpls,,,msrpc,vsys1,ptnzMplsOut,ptnzMplsIn,ethernet1/1,ethernet1/2,pdoLogPanAll_SyslogNoTraffic,2018/07/12 12:59:54,10.80.136.114,10.80.144.16,0.0.0.0,0.0.0,0x1a,tcp,allow,2226,1394,832,13,2018/07/12 12:59:21,18,any,0,134669731,0x0,10.0.0.0-10.255.255.255,10.0.0.0-10.255.255.255,0,8,5,tcp-rst-from-client,15,67,0,0,,MKSC-GMD-TCC-IPS2,from-policy,,,0,,N/A
558 <14>1 2018-07-12T12:59:54-04:00 MKSC-GMD-TCC-IPS2.mckesson.ca - - - 1,2018/07/12 12:59:54,012001004884,TRAFFIC,end,0,2018/07/12 12:59:54,10.80.72.239,10.80.144.16,0.0.0.0,0.0.0,pdpSecMplsPHI,ca\kchung,,print-over-ms-smb,vsys1,ptnzMplsOut,ptnzMplsIn,ethernet1/1,ethernet1/2,pdoLogPanAll_SyslogNoTraffic,2018/07/12 12:59:54,70093,1,52346,49165,0,0x1a,tcp,allow,32878,16617,16261,55,2018/07/12 12:59:25,14,any,0,134669732,0x0,10.0.0.0-10.255.255.255,10.0.0.0-10.255.255.255,0,29,26,tcp-rst-from-client,15,67,0,0,,MKSC-GMD-TCC-IPS2,from-policy,,,0,,N/A
529 <14>1 2018-07-12T12:59:54-04:00 MKSC-GMD-TCC-IPS2.mckesson.ca - - - 1,2018/07/12 12:59:54,012001004884,TRAFFIC,end,0,2018/07/12 12:59:54,10.80.136.37,10.80.144.16,0.0.0.0,0.0.0,pdpSecMpls,,,msrpc,vsys1,ptnzMplsOut,ptnzMplsIn,ethernet1/1,ethernet1/2,pdoLogPanAll_SyslogNoTraffic,2018/07/12 12:59:54,64848,1,53880,49165,0,0,0x1a,tcp,allow,3744,1754,1990,15,2018/07/12 12:59:26,13,any,0,134669733,0x0,10.0.0.0-10.255.255.255,10.0.0.0-10.255.255.255,0,9,6,tcp-rst-from-client,15,67,0,0,,MKSC-GMD-TCC-IPS2,from-policy,,,0,,N/A
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535 <14>1 2018-07-12T12:59:55-04:00 MKSC-GMD-TCC-IPS2.mckesson.ca - - - 1,2018/07/12 12:59:55,012001004884,TRAFFIC,end,0,2018/07/12 12:59:55,10.80.144.152,10.80.148.160,0.0.0.0,0.0.0,pdpSecMplsPHI,ca\tdemets,ca\svc-ad-bkp,dns,vsys1,ptnzMplsIn,ptnzMplsOut,ethernet1/1,ethernet1/1,pdoLogPanAll_SyslogNoTraffic,2018/07/12 12:59:55,40292,1,64681,53,0,0,0x19,udp,allow,329,76,253,2,2018/07/12 12:59:25,0,any,0,134669736,0x0,10.0.0.0-10.255.255.255,10.0.0.0-10.255.255.255,0,1,1,aged-out,15,67,0,0,,MKSC-GMD-TCC-IPS2,from-policy,,,0,,N/A
535 <14>1 2018-07-12T12:59:55-04:00 MKSC-GMD-TCC-IPS2.mckesson.ca - - - 1,2018/07/12 12:59:55,012001004884,TRAFFIC,end,0,2018/07/12 12:59:55,10.80.144.152,10.80.148.160,0.0.0.0,0.0.0,pdpSecMplsPHI,ca\tdemets,ca\svc-ad-bkp,dns,vsys1,ptnzMplsIn,ptnzMplsOut,ethernet1/1,ethernet1/1,pdoLogPanAll_SyslogNoTraffic,2018/07/12 12:59:55,32175,1,57208,53,0,0,0x19,udp,allow,212,76,136,2,2018/07/12 12:59:25,0,any,0,134669737,0x0,10.0.0.0-10.255.255.255,10.0.0.0-10.255.255.255,0,1,1,aged-out,15,67,0,0,,MKSC-GMD-TCC-IPS2,from-policy,,,0,,N/A
536 <14>1 2018-07-12T12:59:55-04:00 MKSC-GMD-TCC-IPS2.mckesson.ca - - - 1,2018/07/12 12:59:55,012001004884,TRAFFIC,end,0,2018/07/12 12:59:55,10.80.144.152,10.80.148.160,0.0.0.0,0.0.0,pdpSecMplsPHI,ca\tdemets,ca\svc-ad-bkp,dns,vsys1,ptnzMplsIn,ptnzMplsOut,ethernet1/2,ethernet1/1,pdoLogPanAll_SyslogNoTraffic,2018/07/12 12:59:55,129019,1,49256,53,0,0,0x19,udp,allow,213,81,132,2,2018/07/12 12:59:25,0,any,0,134669738,0x0,10.0.0.0-10.255.255.255,10.0.0.0-10.255.255.255,0,1,1,aged-out,15,67,0,0,,MKSC-GMD-TCC-IPS2,from-policy,,,0,,N/A
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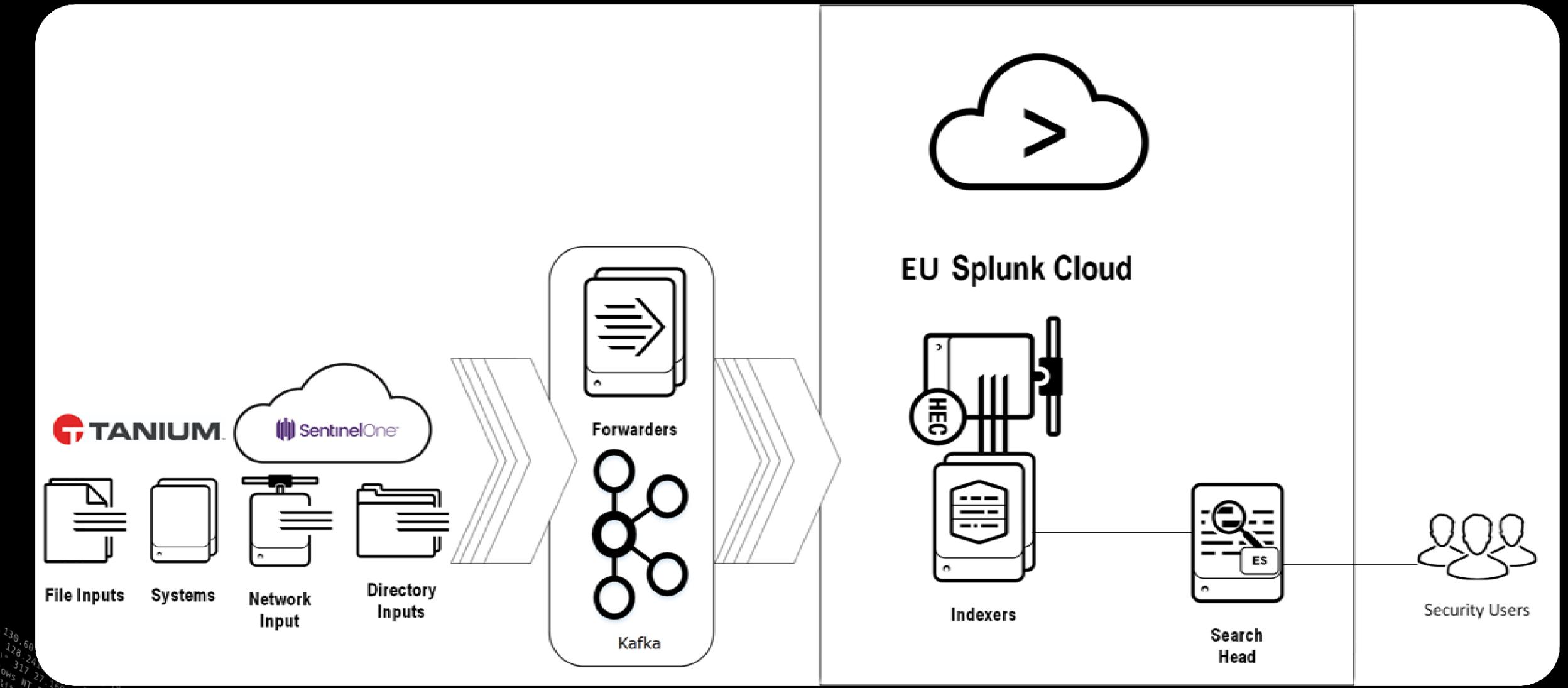
Kafka Connectors in Prod

Pipeline / Type of data	
Avro Logs	LTS_ALL
Azure Blob Storage	McAfee ESM Receiver
Azure Logs	MCAFEE_ESM
Cisco ASA	O365 Activity Data
F5 Load Balancers	O365 Blob
IAM	O365 DLP Data
IBM enforcive (iSeries)	Proofpoint
IMPERVA_DAM	Proofpoint TAP
ImpervaWAF	RSA_SECURID
JUNIPER_SSLVPN	Tanium
JUNOS_FW	Trend Micro
Lancope Syslog Feed – Network	ZSCALER
Level3 Threat Logs	
LOGINSIGHT	

US Architecture Overview



EU Architecture Overview





Putting It All Together!

What we did in 3 months

- ▶ Onboarded 27 new indexes,
- ▶ 74 new Data Source types
- ▶ Over 200 new devices and systems (not servers and workstations)
- ▶ Connected 5 new Business Units to our SOC
- ▶ 3 new acquisitions are providing data to the SIEM that aren't even connected to the McKesson Network.
- ▶ We have North American visibility into Azure, O365, and Core Active Directory Services
- ▶ Global deployment of O365, Proofpoint, ZScaler, and Tanium.

Getting the Use Cases Done!

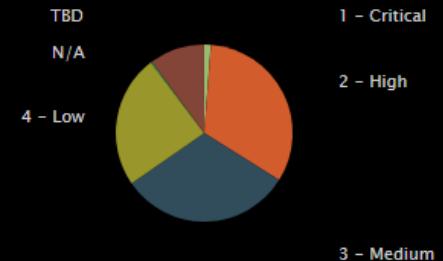
MCKESSON SOC JIRA OVERVIEW

SOC Jira Usecase Count

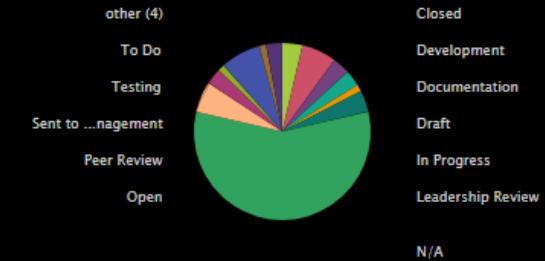
407

Issue Count

SOC Jira Usecase by Priority



SOC Jira Usecases by Status

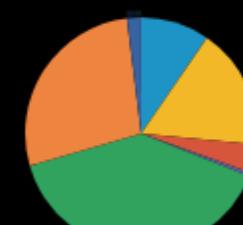


SOC Jira Usecase by Zone

Threat Intelligence

Network

N/A



Analytics

Cloud & Web

Endpoint

Malware

SOC Jira Usecase by Region

North America

Europe



Use Case Process

SOC-Master / SOC-12082

P1 - UC0004 Excessive number of emails sent from internal user

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Details

Type:	Use Case	Status:	DEVELOPMENT (View Workflow)
Priority:	2 - High	Resolution:	Unresolved
Labels:	None		
SOC Use Case Matrix:	Use Case SOP: https://mckessoncorp.sharepoint.com/:w/r/sites/GRPActiveD/Shared%20Documents/General/Final/iSOC_SOP-Use_Case_Development_Review_Process.docx?d=w78b43d6a576e4bc2aebacccdf30b61da&csf=1&e=vvpu33		

Purpose
This use case is alert when there is an excessive number of emails from an internal user. This can help detect a possible compromised user, that is sending malicious emails.

Technical Context
This section is targeted at the SIEM engineer or individual that will be creating the logic behind the alert. Include the following, if known:

- Data sources that should be referenced to trigger an alert and any fields that should be queried on
- Any AND/OR logic statements that would be necessary to create the desired output
- Limits that should be applied, i.e. "only alert on 5 or more events in 20 minutes per source IP"
- Sample searches

Categorization & Zone
Categories are based on the MITRE ATT&CK for enterprises model .Zones are defined by the McKesson Active Defense team. Refer to the Use Case SOP for a table of available values.

Priority
The initial priority level is determined by the selected category. Adjustments can be made up or down to this priority level if needed but discussed and approved during a use case. Refer to the Use Case SOP for a table of which category aligns with which priority.

SIEM: Splunk
Zone: Analytics
PI Objective: False

Customer Showcase McKesson

- ▶ McKesson is leveraging a forked version of the Splunk Kafka Connector with leveraging:
 - Kafka Transforms
 - Kafka Headers
 - Kafka Streams (in POC)
 - Kafka SQL (in POC)
 - <https://github.com/vrudenskyi/kafka-connect-splunk>
- ▶ Custom connectors that McKesson has built and integrated currently:
 - Any layer4 TCP or UDP / network-based
 - HTTPs
 - ICAP
 - Office365
 - AzureMS
 - MSFT IoT HUB
 - SentinelOne

Open Source Repo for Kafka Tools (URL)

level3-splunk-sink.json
level3-sslsyslog-source.json
its_o365-azure_blob-sink.json
o365_activity-mgmt_api-source.json
o365_activity_all-splunk-sink.json
o365_dlp-mgmt_api-source.json
o365_dlp_all-splunk-sink.json
o365_uson_activity-mgmt_api-source.json
o365_uson_dlp-mgmt_api-source.json
proofpoint-splunk-sink.json
proofpoint-sslsyslog-source.json
trendmicro-sslsyslog-source.json
trendmicro-udpsyslog-source.json
trendmicro_splunk_sink.json