.conf18 splunk> Taming GDI: The Wild World of "Getting Data Into" Splunk

Peter Chen, Principal Software Engineer
Blaine Wastell, Director Product Management

October 2018 | Version 1.0

Forward-Looking Statements

During the course of this presentation, we may make forward-looking statements regarding future events or the expected performance of the company. We caution you that such statements reflect our current expectations and estimates based on factors currently known to us and that actual events or results could differ materially. For important factors that may cause actual results to differ from those contained in our forward-looking statements, please review our filings with the SEC.

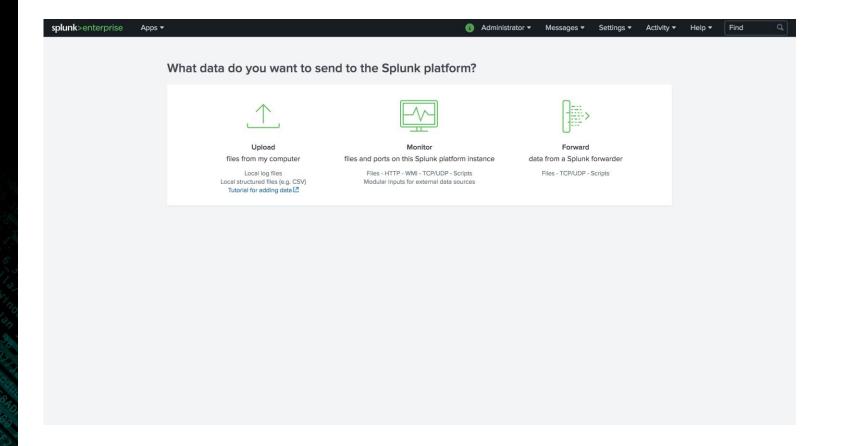
The forward-looking statements made in this presentation are being made as of the time and date of its live presentation. If reviewed after its live presentation, this presentation may not contain current or accurate information. We do not assume any obligation to update any forward-looking statements we may make. In addition, any information about our roadmap outlines our general product direction and is subject to change at any time without notice. It is for informational purposes only and shall not be incorporated into any contract or other commitment. Splunk undertakes no obligation either to develop the features or functionality described or to include any such feature or functionality in a future release.

Splunk, Splunk>, Listen to Your Data, The Engine for Machine Data, Splunk Cloud, Splunk Light and SPL are trademarks and registered trademarks of Splunk Inc. in the United States and other countries. All other brand names, product names, or trademarks belong to their respective owners. © 2018 Splunk Inc. All rights reserved.



Current Add Data Screen

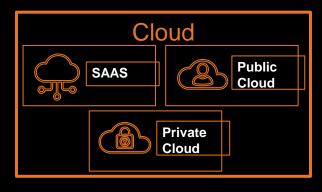
- How do I Ingest
- Windows Events or Linux Logs
- AWS CloudWatch Logs
- AWS CloudWatch Events
- Firewall Syslogs?

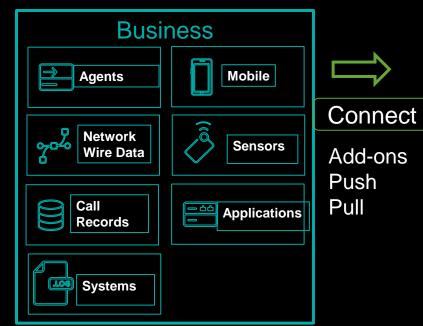




Data Collection Options

Data Providers





Getting Data In

Collect

Deliver

Transports

- Universal Forwarder
- Heavy Weight Forwarder
- HEC
- Kafka
- Kinesis

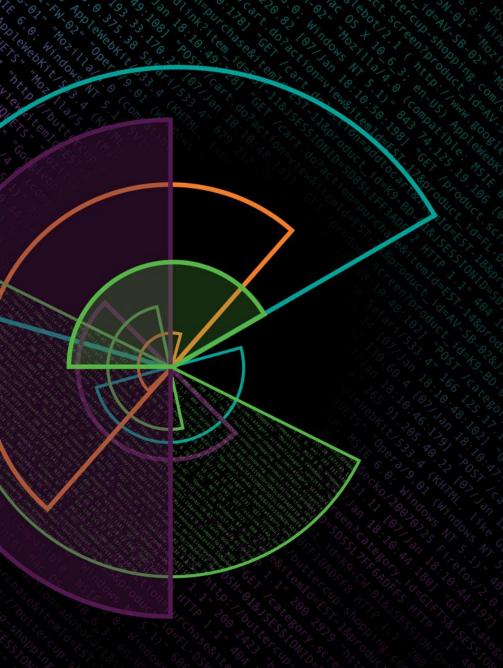


Topologies

- Single Instance
- Clustered Indexers
- Single Search Head
- Search Head Cluster



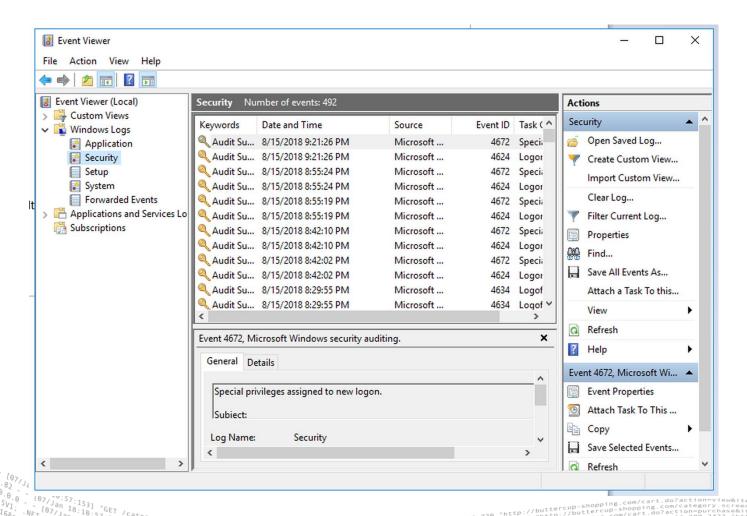


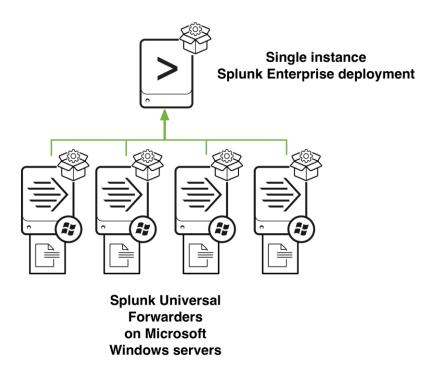


Collect Windows Events or Linux Logs

Windows Logs

Universal Forward

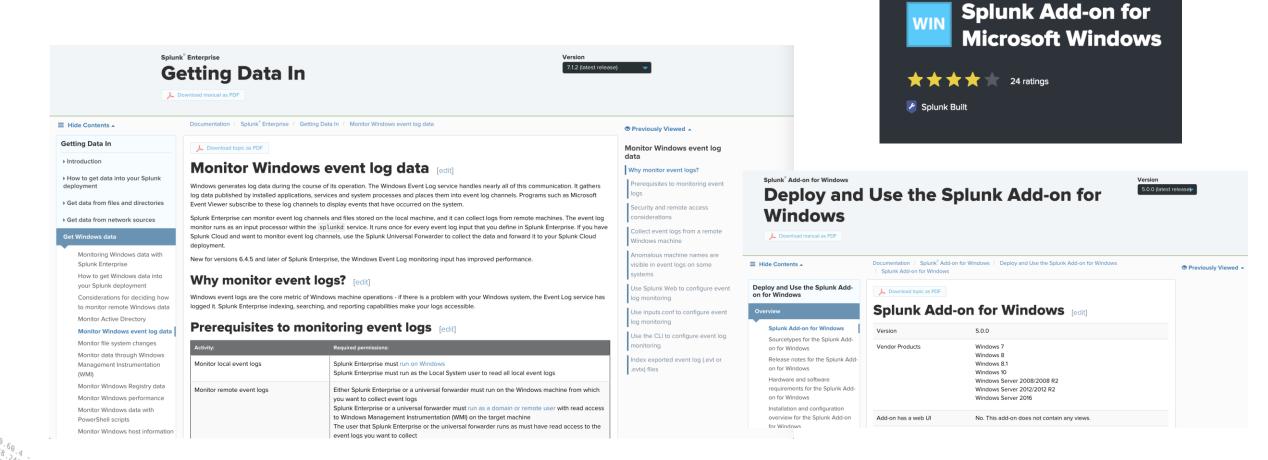






Windows Logs

Universal Forward





Collect Linux Logs & Windows Events

Data Providers





Systems



Collect

Deliver

Transports

- Universal Forwarder
- Heavy Weight Forwarder
- HEC
- Kafka
- Kinesis



Topologies

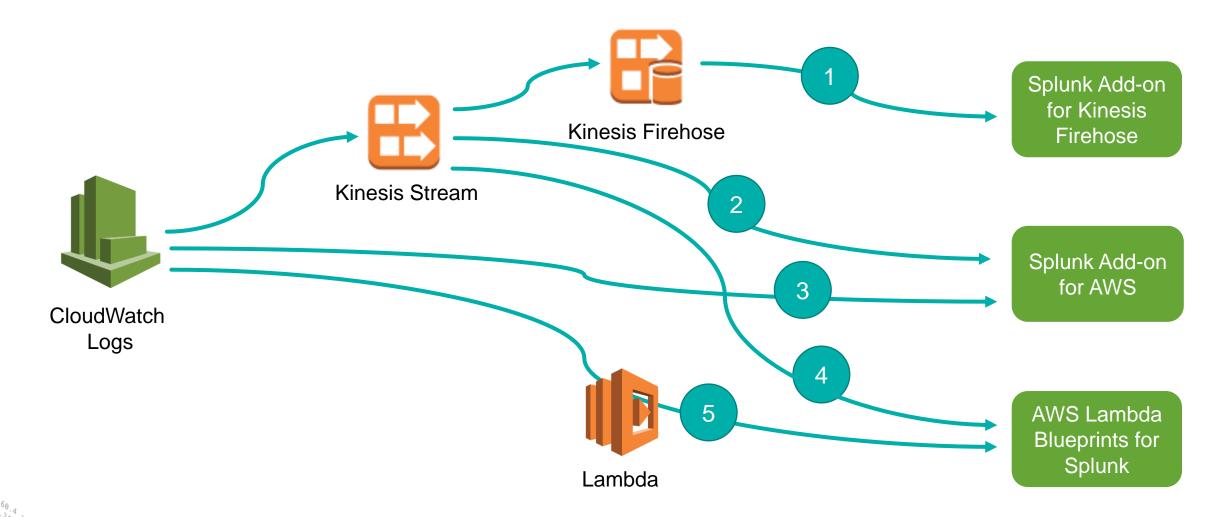
- Single Instance
- Clustered Indexers
- Single Search Head
- Search Head Cluster





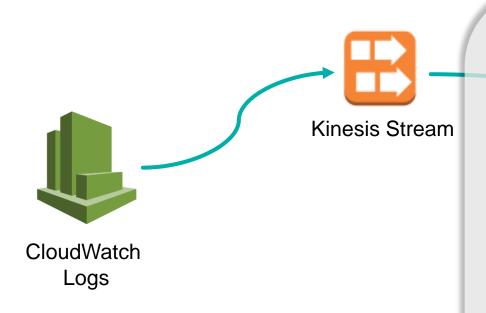
Collect AWS Cloud Watch Logs

AWS CloudWatch Logs





AWS CloudWatch Logs



- Set permission to CloudWatch logs
 - Create policy
 - Create role
 - Assign role to CWL
- Create a subscription filter for Kinesis
- 3. Validate settings
- 4. Create Kinesis input
- 5. Configure Heavy Weight Forwarder
- 6. Configure TA
 - Permission for Splunk
 - Add account
 - Add input

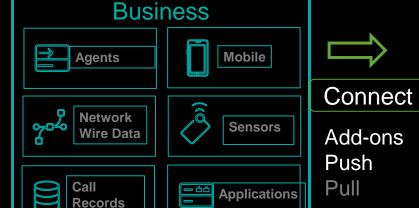
Splunk Add-on for AWS



Collect AWS CloudWatch Logs

Data Providers





Systems

Getting Data In

Collect

Deliver

Transports

- Universal Forwarder
- Heavy Weight Forwarder
- HEC
- Kafka
- Kinesis



Topologies

- Single Instance
- Clustered Indexers
- Single Search Head
- Search Head Cluster





Collect CloudWatch Metrics or Azure Events

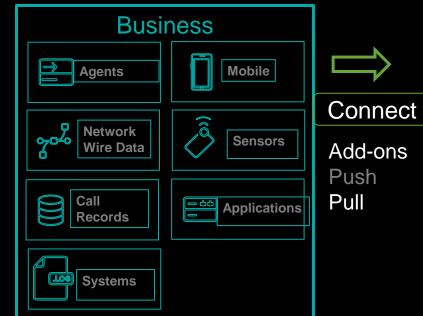
AWS CloudWatch Metrics



Collect AWS CloudWatch Metrics / Azure Logs / Service Now

Data Providers





Getting Data In

Collect

Deliver

Transports

- Universal Forwarder
- Heavy Weight Forwarder
- HEC
- Kafka
- Kinesis



Topologies

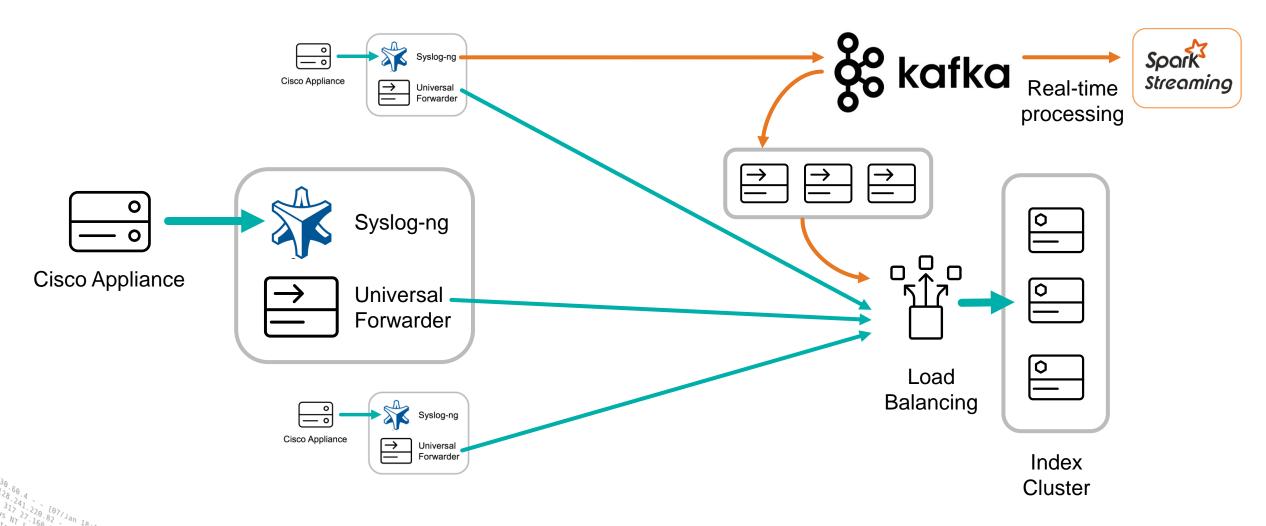
- Single Instance
- Clustered Indexers
- Single Search Head
- Search Head Cluster







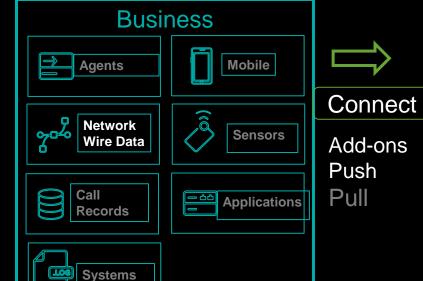
Cisco Firewall Syslog Data



Collect Cisco ASA Syslogs

Data Providers







Collect

Deliver

Transports

- Universal Forwarder
- Heavy Weight Forwarder
- HEC
- Kafka
- Kinesis



Topologies

- Single Instance
- Clustered Indexers
- Single Search Head
- Search Head Cluster





Top Customer Challenges for Data Collection

Survey from .conf 2017

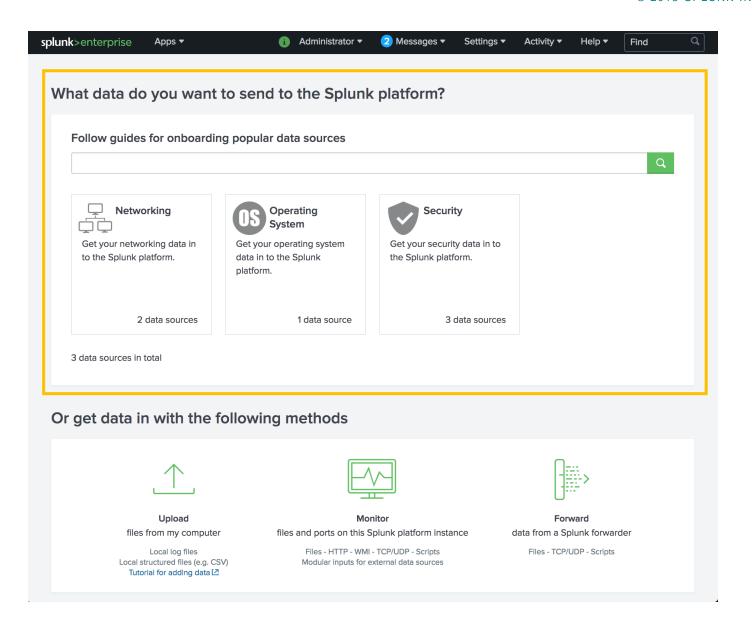
- 1. Ability to monitor health of the data transfer lifecycle
- 2. Managing components on the edge is challenging
- 3. Would like to Iterate on the data flow and see what's happening each step of the way
- 4. Data quality challenges creating inconsistent experiences for users
- 5. Keeping up with and responding to data drift which impacts #4
- 6. Knowing which data to get and how to get that data in is challenging



Announcing Guided Data Onboarding

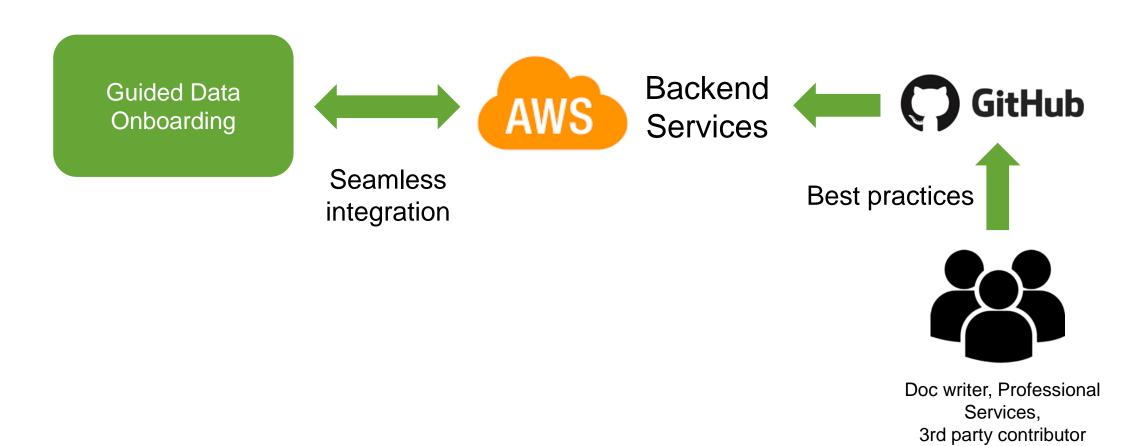
New Add Data Screen

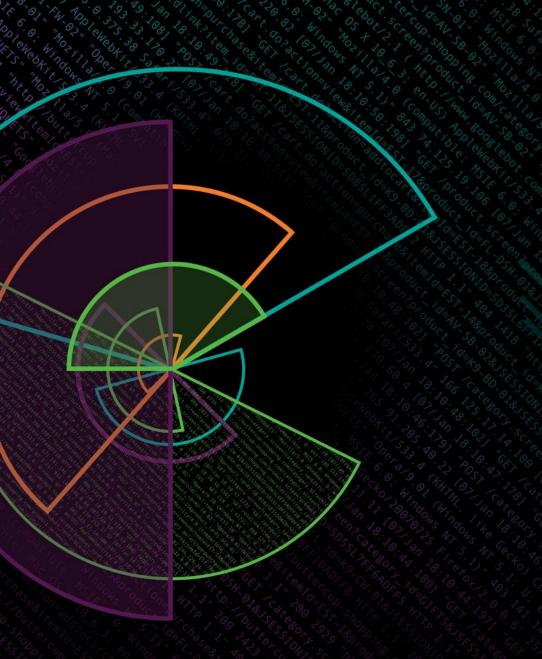
How do I Ingest Windows Logs, AWS Cloud Metrics, AWS CloudWatch Events, Firewall Logs?





Demo of Guided Data Onboarding





Guided Data Onboarding Demo

Presented by Peter Chen



Key Takeaways

- New Guided Data Onboarding: setup and configuration guidance for ingesting data into Splunk
- More data sources to come

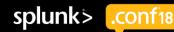


Data Ingestion Sessions

Tuesday	2:15 – 3:00	FN1913 - Old Meets New: Syslog and Splunk Connect for Kafka	Scott Haskell, Principal SE Architect, Splunk Mark Bonsack Staff Sales Engineer, Splunk
	2:15 – 3:00	FN1313 – Taming GDI: The Wild World of "Getting Data Into" Splunk	Peter Chen, Principal Software Engineer, Splunk Blaine Wastell, Product Management Director, Splunk
Wednesday	3:15 – 4:00	FN1185 - Unleashing Data Ingestion From Apache Kafka	Scott Haskell, Principal SE Architect, Splunk Donald Tregonning, Senior Software Engineer, Splunk Sharon Xie, Software Engineer, Splunk
	3:15 – 4:00	IT1647 - A Container Adventure: Scaling and Monitoring Kubernetes Logging Infrastructure	Matthew Modestino, ITOA Practitioner, Splunk David Baldwin, Principal Product Manager, Splunk Gimi Liang, Senior Software Engineer, Splunk
	4:30 – 5:15	FN1211 - Don't Miss the Bus — Splunking Kafka at Scale	Scott Haskell, Principal SE Architect, Splunk Ken Chen, Principal Software Engineer, Splunk Donald Tregonning, Senior Software Engineer, Splunk
	4:30 – 5:15	FN1919 - Gain Control of Your Data Flow Using Stream Processing	Thor Taylor , Director of Product Management, Splunk Joey Echeverria , Senior Principal Software Engineer, Splunk
	4:30 – 5:15	IT1402 - Using Splunk to Increase Developer Confidence in the Pivotal Cloud Foundry Platform	Kirk Hanson, Sales Engineer, Splunk Ram Gogineni, Senior Manager – Cloud Operations, Charles Schwab Shubham Jain, Software Engineer, Splunk
Thursday	12:15 – 1:00	FN1729 - Splunk DB Connect Deep Dive: Beyond the Basics	Denis Vergnes, Principal Software Engineer, Splunk Tyler Muth, Analytics Architect, Splunk



Peter Chen Blaine Wastell



1.1" 200 ... L_id=RP-SN-01&JSESSIONID AJSESSIONID=SDIOSLIFF4ADFF10 HTTP 1.1" 406 1437 SCreen?category_id=80UQUETS&JSESSIONITO "DUETS&JSESSIONITO" id=Slipno. id=RP-SN-01&3 SESSIONID=SD10SL1FF4ADFF10 [07/Jan 18:10:53:118] "GET /Category screen?category id=B0UQUETS&JSESSIONID=SD3SL2FF5ADF2 HTTP 1.1" 200 1649 "http://hus.screen?category id=SURPRI S&JSESSIONID=SDIV. - [07/Jan 18:10:53:118] BET SESSIONID=SDIV. - Category. screen?category Iu-bound SIONID=SD85L2FF5ADFF2 HTTP 1.1" 200 1649 "http://buttercup-shopping.com/category.ll" 200 1649 "http://buttercup-shopping.com/category.ll" 200 1649 "http://buttercup-shopping.com/product Screen?category.lbuttercup-shopping.com/product Screen.lbuttercup-shopping.com/product Screen.lbuttercup-shopping.com/product-screen.lbuttercup-shopping.com/product-screen.lbuttercup-shopping.com/product-screen.lbuttercup-shopping.com/product-screen.lbuttercup-shopping.com/product-screen.lbuttercup-shopping.com/product-screen.lbuttercup-shopping.com/product-screen.lbuttercup-shopping.com/product-screen.lbuttercup-shopping.com/product-screen.lbuttercup-shopping.com/product-screen.lbuttercup-s A / category. screen. SESSIONID=SD8SL2FF5ADFF2 HTT. 20-SD6SL2FF3ADFF4 HTTP 1.1 200 363 "http://buttercup-shopping.com/product.screen?product.screen?product.screen?product.screen?product.screen?product.screen?product.screen?product.screen?product.screen?product.screen?product.screen?product.screen?product.screen?product.screen?product.screen. ategory.st 258 223 "http://buttercup-snop tercup-shopping.com/product.screen?product Mozilla/4.0 (compatible ideal) (compatible ideal) Mozilla/4.0 (compatible ideal) Making machine data Not Compatible Note to the Compatible Note to the Note of valuable to everyone.



1" 200 488 "...

id=RP-SN-01&JSESSIONID=SD7SL8FF3ADFF2 HTTP

10.53.1181 "GET / Category Scroom? "http://h...

1 200 1901

Thank You

Don't forget to rate this session in the .conf18 mobile app

.Conf18
splunk>