Splunk 4 Rookies Workshop

October 19th We will start at 10:00AM CT



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Your Splunk Account Team

Hermia Johnson Account Manager

Account Owner, sales advocate. Provides program management oversight.

Matt Cavanaugh Account Manager

Account Owner, sales advocate. Provides program management oversight.

John Gonzales Solutions Engineer

Technical Best Practice, Compute, Storage, and Network, Skillsets.

Amanda O'Neill Customer Success Manager

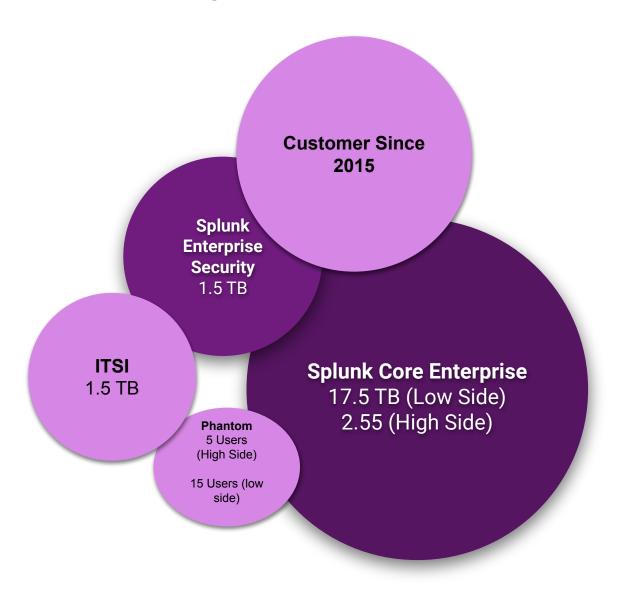
Success planning aligned to strategic objectives, enablement & best practices.

Eric Jensen Professional Services

Development, Consulting / Expert Services, Customer Education, Custom End-User Training. Connor Westbrook Inside Sales Rep Inside Account Owner



LMCO Splunk Product: Overview







Edu & Support On Demand Credits Dedicated TSAM

Specialized Training Plan



Customer Success

Tier 1 CSM



LMCO Internal Splunk Site

https://tiny.lmco.com/entsplunk



Presenter Intro

Hunter Pavlovich



Solutions Engineer

Amin Hamidi



Solutions Engineer

Yang Lowe



Solutions Engineer



Agenda for Today's Workshop



The value of data

- Splunk's investigative approach to data
- Creating a Splunk app
- Adding data
- Searching and reporting
- Extracting a new field (schema-on-the-fly!)
- Create a dynamic dashboard for
 - multiple use cases





Search Datasets Reports	Alerts Dashboards		(App) splunk4rookies		
Buttercup Enterprise	es		Edit Export		
Last 60 minutes -					
Business Analytics: Lost Revenue					
		34.09 7	•		
IT Ops: Web Server Status Codes over Time					
300					
200 100 15;40 15;40 15;45 2020	15:50 15:55 16:00	_time	200 400 401 402 403 404 403 404 403 404 405 503 505		
DevOps: Most Common Cust	omer Operating Systems	DevOps: Top 5 Browsers	s for Failures		
		15			

Task 1 > Register and Create Your Environment

Lab Guide | Page 3



Register and Create Your Environment

Lab Guide | Page 3

Register:

http://splunk4rookies.com/10203/self_register

- Keep registration tab open so you do not lose the link to your instance!
- Today's slide deck and lab guide were emailed to all attendees, but please let us know if you still need these materials

Congratulations! Your Splunk sandbox has been created. You have **24 hours** ahead to play until termination.

Please allow a few minutes for your instance(s) to be accessible.

Access link(s):

http://ec2-34-244-107-247.eu-west-1.compute.amazonaws.com:80

Your link will take a few minutes to spin up so please be patient!

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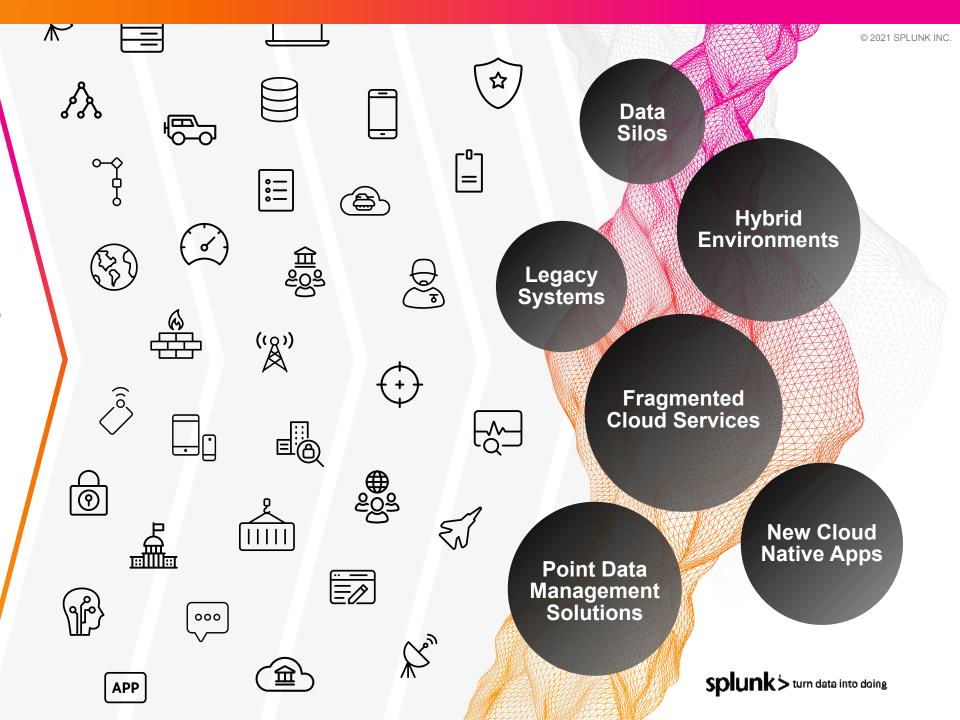
Our World Never Stops Evolving.

New Ideas. New Devices. New Processes.





Turning Real-time Data Into Action is Hard



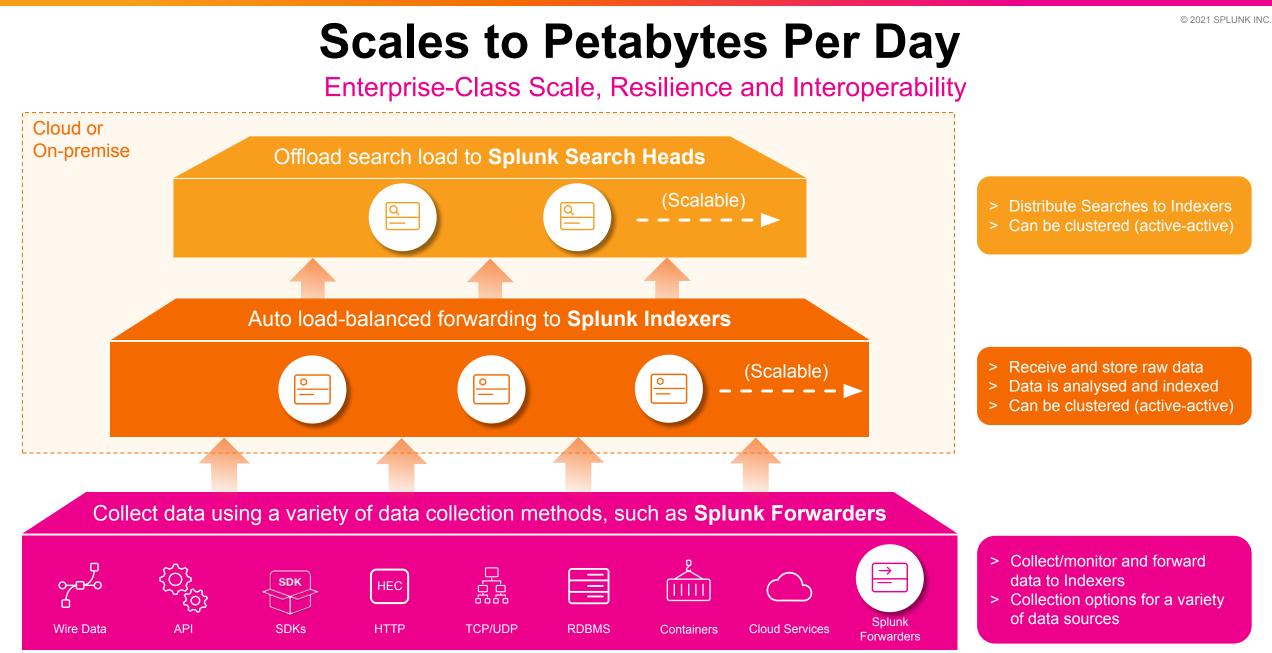


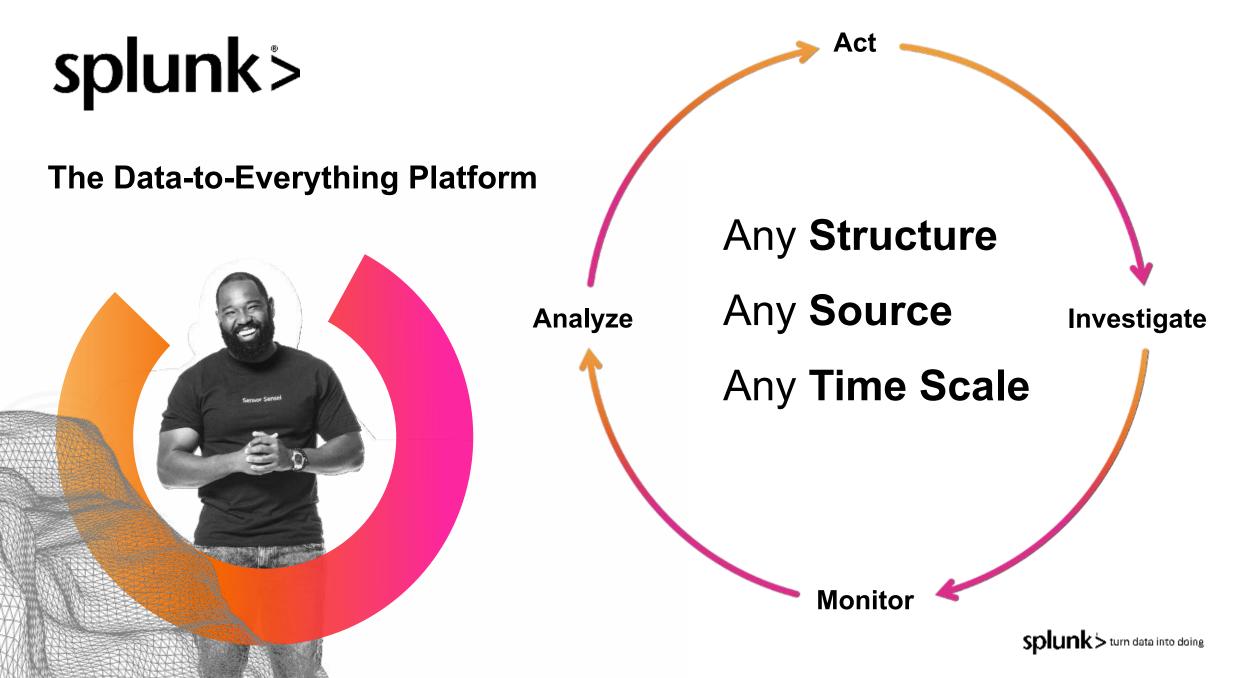
splunk>

The Data-to-Everything Platform



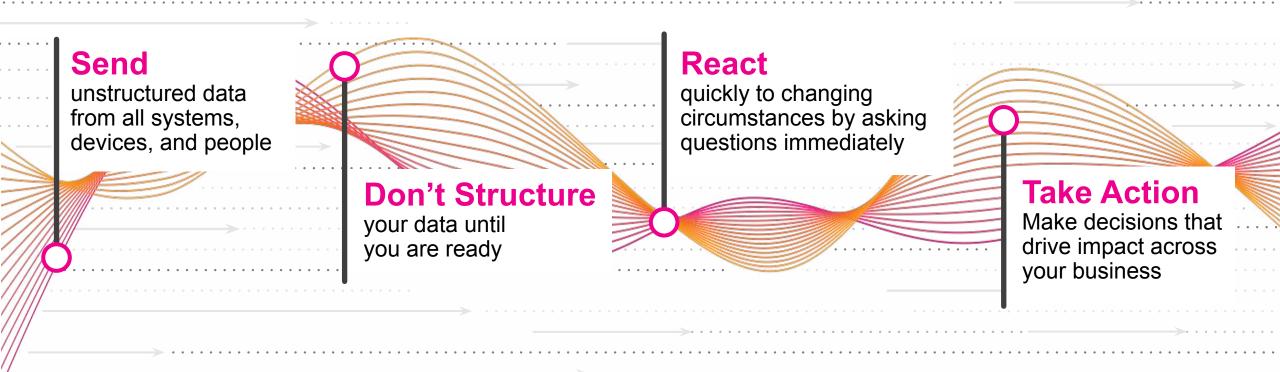






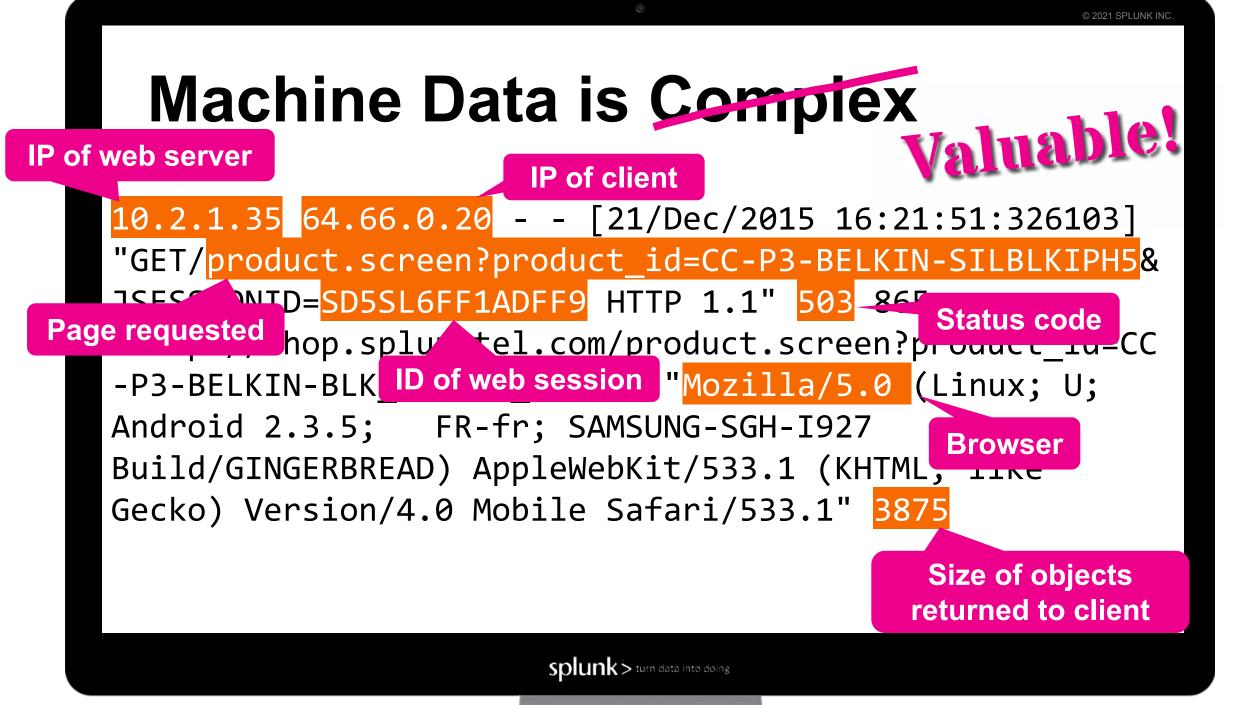
Spot Risk and Opportunity in Your Complex Data

We solved one of the biggest challenges in data with our investigative approach



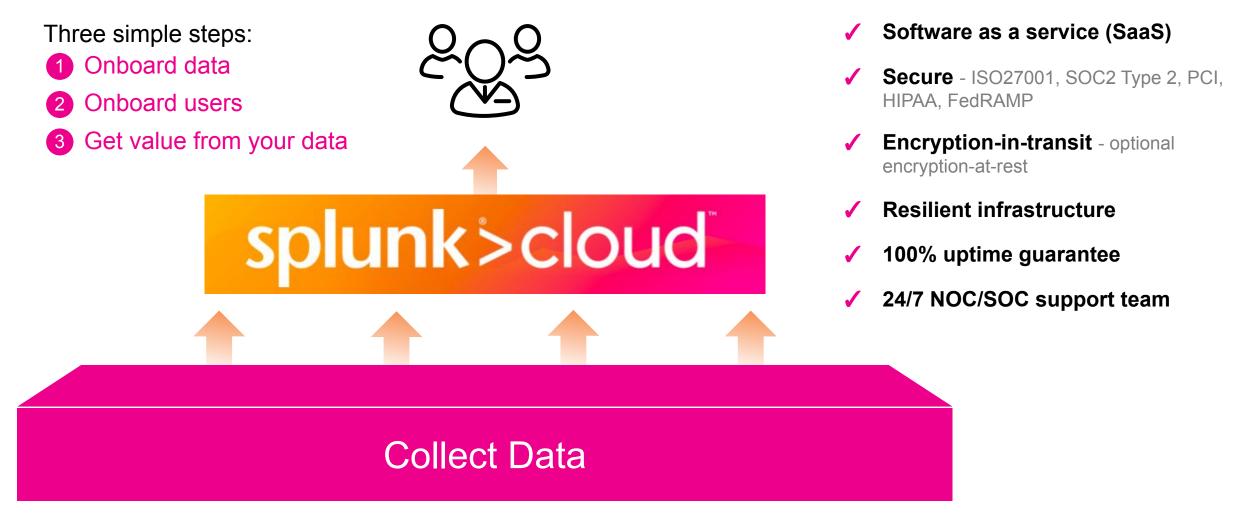
Machine Data is Complex Valuable!

10.2.1.35 64.66.0.20 - - [21/Dec/2015 16:21:51:326103] "GET/product.screen?product_id=CC-P3-BELKIN-SILBLKIPH5& JSESSIONID=SD5SL6FF1ADFF9 HTTP 1.1" 503 865 "http://shop.splunktel.com/product.screen?product_id=CC -P3-BELKIN-BLK_BTOOTH_HFREE" "Mozilla/5.0 (Linux; U; Android 2.3.5; FR-fr; SAMSUNG-SGH-I927 Build/GINGERBREAD) AppleWebKit/533.1 (KHTML, like Gecko) Version/4.0 Mobile Safari/533.1" 3875



Splunk as a Service

Fastest time to value, minimum infrastructure, maximum value

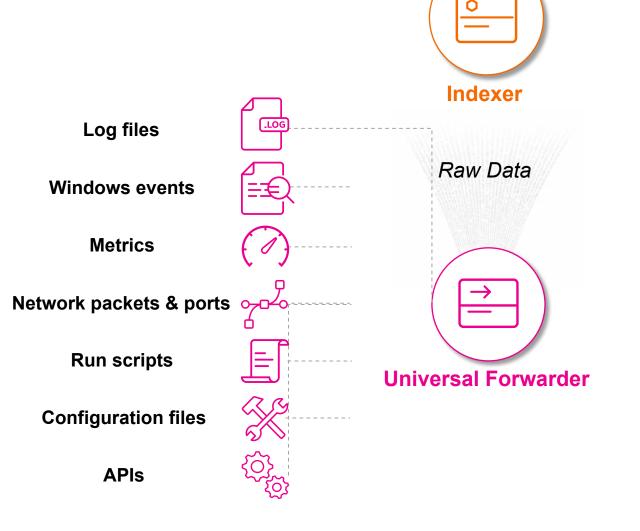


> Splunk Cloud Service Description: https://bit.ly/SplunkCloudServDesc



What is a Universal Forwarder?

- > Reliable collection of data from remote locations
- Includes methods for collecting from a variety of data sources
- > Simple, but packed with lots of goodness:
 - Buffering / guaranteed delivery
 - Encryption
 - ✓ Compression
 - Load balancing
 - And more!
- > Very small footprint
- > Just forwards data no parsing beforehand!



Today's Environment



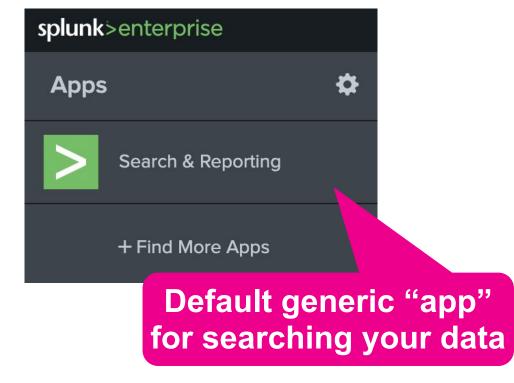
Pre-loaded sample data



Combined Indexer & Search Head

Log in to Splunk









Q&A | Break



Task 2 > Create an App and Add Data to Splunk

Lab Guide | Page 5



Apps and Add-ons

- > Built either by Splunk, our technology partners or members of our user community
- Prebuilt packages that help to enhance and extend the Splunk platform
- Provide content and capabilities such as reports, dashboards and integrations for a specific technology, purpose or use case, with the flexibility to customise for your own needs
- > Over 2000 free apps and add-ons available from <u>https://splunkbase.splunk.com/</u>

Apps

Content designed to bring fast time-to-value from your data in Splunk, including pre-built dashboards, reports, alerts, visualisations and workflows



Add-ons

 Provide specific capabilities to Splunk, such as getting data in, mapping data, or providing saved searches and macros





Task 2 > Create an App andAdd Data to Splunk

Objectives

- 1. Create a new app
- 2. Monitor a directory: /var/log/weblogs
- 3. Select a source type: access_combined
- 4. View your data in Splunk

Goal

var	ls.			
>	backups			
>	cache			
>	crash			
>	lib			
>	local			
>	lock			
\sim	log			
	> apt			
	> audit			
	> dist-upgrade			
	> fsck			
	> landscape			
	> squid3			
	> unattended-upgrades			
	> upstart			
	> weblogs			
	alternatives log			



Task 2 > Create an App and Add Data to Splunk Break

Lab Guide | Pages 5-11

New Search Search bar - type anything here to search Save Astronomychase action-purchase status=200 Last 60 minutes * 261 events (15/05/2018 07:49:00.000 to 15/05/2018 08:49:17.000) No Event Sampling * Job * II II II II II II II III III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	UNK INC.
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ELECTED FIELDS 08:49:08:127 flowershop.com/category.screen?category_id=GFTS" "Googlebot/2.1 (http://www.googlebot.com/bot.html)" 873 Raw event data Nost 1 source 1 source 1/2/2 source 2/var/log/weblogs/noise_apache_1.log sourcetype = access_combined vorce = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined Raw event data VTERESTING FIELDS action 1 vorce = ip-1/2-31:31-62 source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined vorce = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined VTERESTING FIELDS host = ip-1/2-31:31-62 source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined VTERESTING FIELDS host = ip-1/2-31:31-62 source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined Vistes 1004 category_id 5 source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined Source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined sourcetype = access_combined Source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined source = /var/log/weblogs/noise_apache_1.log Source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined sourcetype = access_combined Source = /var/log/weblo	
extracted at search time EST-20&product_id=FL-DLH-02" "Googlebot/2.1 (http://www.googlebot.com/bot.html)" 256 host = ip-1/2-31-31-62 source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined bytes 100+ category_id 5 category_id 5 category_id=BOUQUETS" "Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10_6_3; en-US) AppleWebKit/533.4 (KHTML, like Gecko) Chrome source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined	tp://www.my om/cart.do?
bytes 100+ category_id 5 clientip 52 date_hour 2 clientip 52 clientip 52	
r udic_iniudy i	
# date_minute 60 > 15/05/2018 91.208.184.24 [15/May/2018 08:48:41:160] "POST /cart.do?action=purchase&itemId=EST-18&product_id=RP-LI-02&JSESSIONID=SD9SL3FF9ADFF6 HTTP 1.1" 200 2296 "http://www.googlebot.com/bot.html) " 847 // date_month 1 08:48:41:160 "myflowershop.com/product.screen?product_id=RP-LI-02" "Googlebot/2.1 (http://www.googlebot.com/bot.html) " 847	nttp://www.
# date_second 60 host = ip-172-31-31-62 source = /var/log/weblogs/noise_apache_1.log sourcetype = access_combined	

Start Searching in Splunk

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• 503 purchase

Finds all events that contain the words "503" and "purchase"

• 503 p*

Finds all events containing "503" and words beginning with "p"

- 503 (purchase OR addtocart) Boolean operators (AND/OR/NOT) - must be <u>UPPERCASE</u>!
- status=503 action=purchase
 Use fieldname = value to return accurate results

Challenge Task

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Solution Page 31

How can we find events with a status of 200 that are NOT purchase events?

status=200 NOT action=purchase

status=200 action!=purchase





Splunk's 'Search Processing Language' (SPL)



e.g. action=purchase

attion=changequantity&itemId=EST-18&product_id=FI-SM-01&ISESSIONID=SD9SL8FF7ADFF8
HTTP 1.1" 200 3814 "http://www.myflowershop.com/category.screen?
category_id=FLOMERS" "Opera/9.20 (Windows NT 6.0; U; en)" 665
203.92.58.136 - - [28/Oct/2016 22:54:07:175] "GET /product_screen?product_id=FISM-01AJSESSIONID=SDISL3FF4AOFF10 HTTP 1.1" 200 2587 "http://www.myflowershop.com/
category_screen?category_id=80UQUETS" "Googlebot/2.1 (http://www.googlebot.com/
bot.html) " 566
10.2.1.44 - - [28/Oct/2016 22:54:06:161] "POST /category.screen?
category_id=FLOMERS&JSESSIONID=SD6SL9FF6AOFF2 HTTP 1.1" 200 411 "http://
www.myflowershop.com/cart.do?attion=addtocart&itemId=EST-26&product_id=FI-FW-02"
"Googlebot/2.1 (http://www.googlebot.com/bot.html) " 799
217.132.169.69 - [28/Oct/2016 22:54:05:186] "GET /category.screen?
category_id=80UQUETS&JSESSIONID=SD2SL3FF10AOFF1 HTTP 1.1" 200 2139 "http://
www.myflowershop.com/oldlink?item_id=EST-10" "Mozilla/4.0 (compatible; MSIE 6.0;

stats count by status

count

641

42

51

44

95

status

200

400

404

406

503

rename count as "number of events"

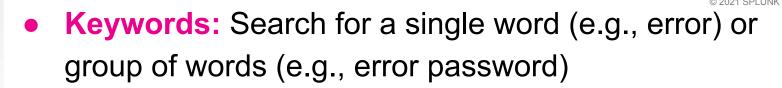
	status	number of events
	200	641
	400	42
	404	51
	406	44
	503	95

Want to know more? Check out:

- > Splunk Quick Reference Guide: http://bit.ly/S4R-QuickRef
- > Splunk Docs: https://docs.splunk.com



Search Overview



- Booleans: NOT, OR, AND; AND is implied; MUST be uppercase; can use ()'s to force precedence sourcetype=vendor_sales OR (sourcetype=access_combined action=purchase)
- Phrases: "web error" (different than web AND error)
- Field Searches: status=404, user=admin
- Wildcard(*): status=40* matches 40, 40a, 404, etc; starting keywords with a wildcard is a very inefficient
- Comparisons: =,!=,<=,>=,<,> status>399, user!=admin
 splunk > turn data into doing



Organization Overview

- table: returns table containing only specified fields in the result set
 - **rename**: renames a field in results
- **fields**: includes or excludes specified fields
- dedup: removes duplicates from results
- **sort**: sorts results by specified field
- lookup: adds field values from external sources (e.g., csv files)





Transforming Commands Overview

• Transforming Commands

- Massage raw data into a data table
- "Transforms" specifies cell values for each event into a numerical values that you can use for statistical purposes
- Is required to "transform" search results into visualizations
- Transforming Commands include:
 - top
 - rare
 - chart
 - timechart
 - stats
 - geostats





eval Command Overview



- eval allows you to calculate and manipulate field values in your report
 - eval fieldname1 = expression1 [, fieldname2 = expression2...]
- Support a variety of functions (some of them can be referenced in the quick guide)
- Results of eval written to either new or existing field you specify
 - If the destination field exists, the values of the field are replaced by the results of eval
 - Indexed data is not modified, and no new data is written into the index
 - Field Values are treated in a case-sensitive manner
 splunk > turn data into doing

Today's Scenario: Buttercup Enterprises



Your Company

- Buttercup Enterprises is a large national online retailer operating in the US, which sells a variety of books, clothing and other gifts through its online webstore
- Buttercup Enterprises have recently invested in Splunk and now they want to start making use of it across the business

Your Role

- You are one of the chosen few: a Splunk power user!
- Your responsibility is to provide information to users throughout the company
- You gather data and statistics, and report on:
 - Security
 - IT Operations
 - Development
 - Business intelligence



What Does the Business Want to See?

One dashboard | Four panels > One for each team

• IT Operations team | Task 3:

Investigate successful vs unsuccessful web server requests over time

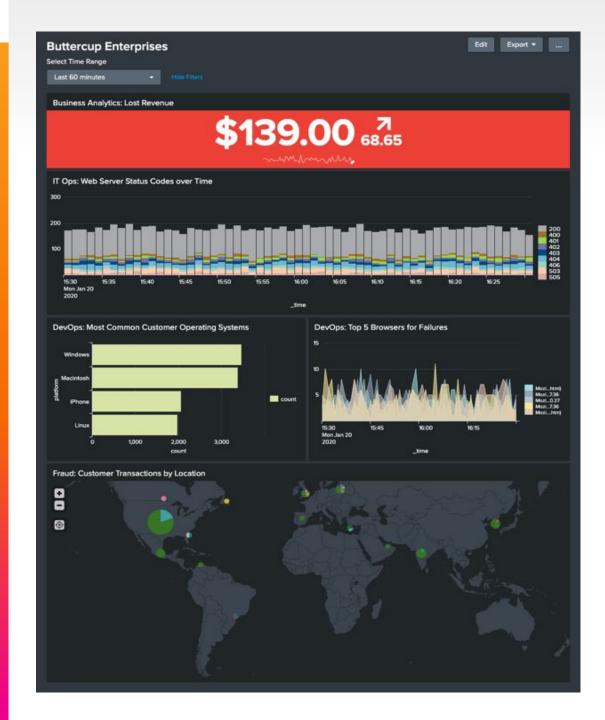
• DevOps team | Task 4: Show the most common customer operating systems and which web browsers are experiencing the most failures

• Sales/Business Analytics teams | Task 5:

Show lost revenue from the Buttercup Enterprises website

• Security/Fraud teams | Task 6:

Show website activity by geographic location



Task 3 > IT Operations team

Investigate successful vs unsuccessful web server requests over time

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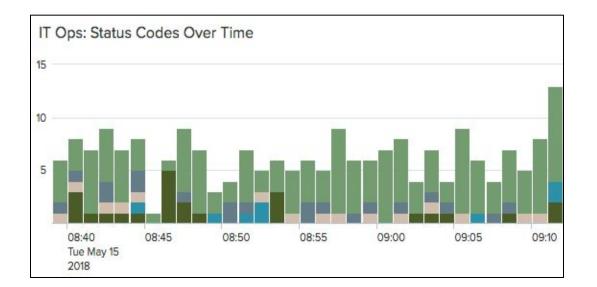


Task 3 > IT Operations team

Objectives

- 1. Show all website purchase failures on over time
- 2. Use a stacked column chart visualization
- 3. Add your chart to a new dashboard

Goal





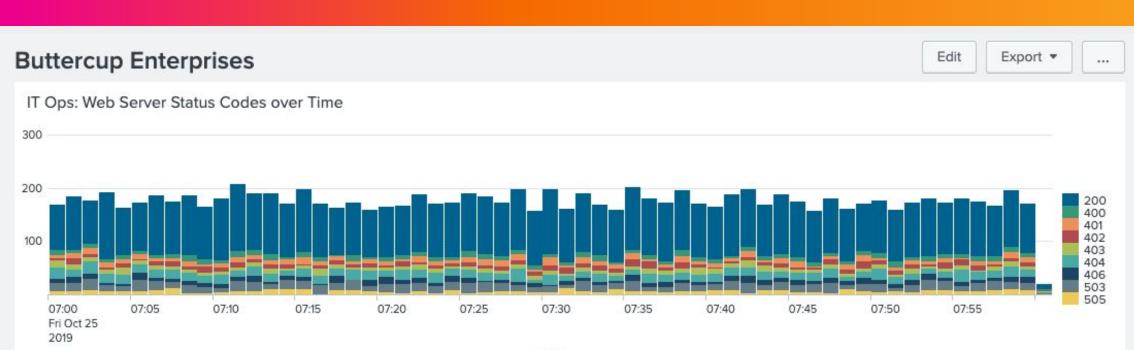
Task 3 > IT Operations team Break

Lab Guide | Pages 14-16

Your Dashboard so far...

Solution:

sourcetype=access_combined | timechart count by status



Task 4 > DevOps team

Show the most common customer operating systems and which web browsers are experiencing the most failures

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Task 4 > DevOps team

Objectives

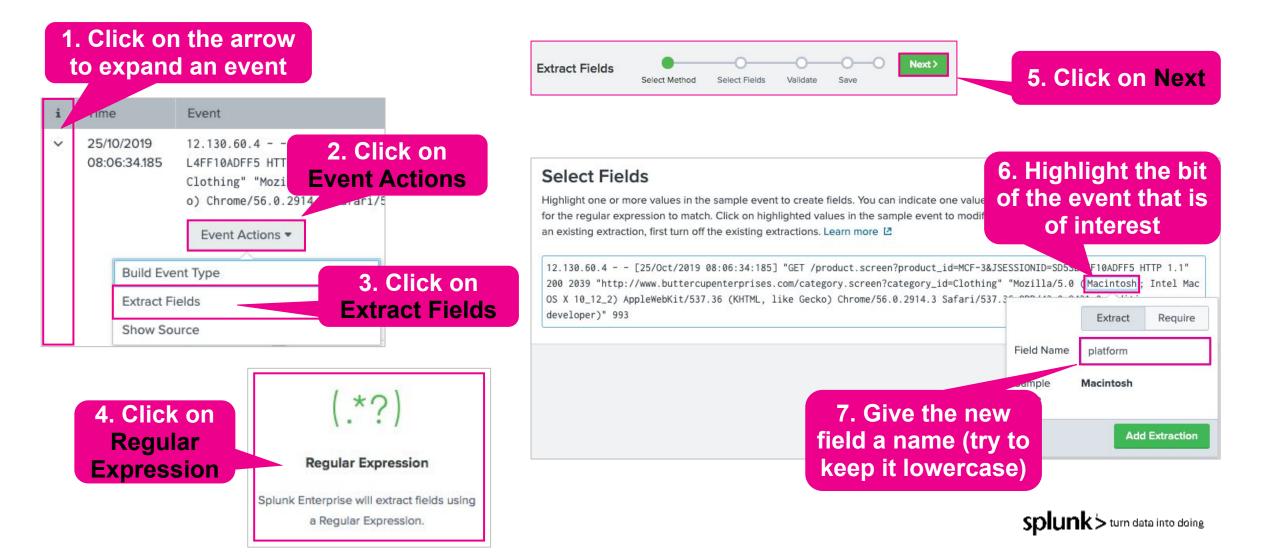
- 1. Extract a new field: platform
- 2. Show the top values of the most common customer operating systems using a bar chart
- Show the top 5 web browsers (or 'useragents') that are experiencing the most failures over time using an area chart
- 4. Add your charts to your existing dashboard

Goals



Extracting a New Field

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Task 4 > DevOps team

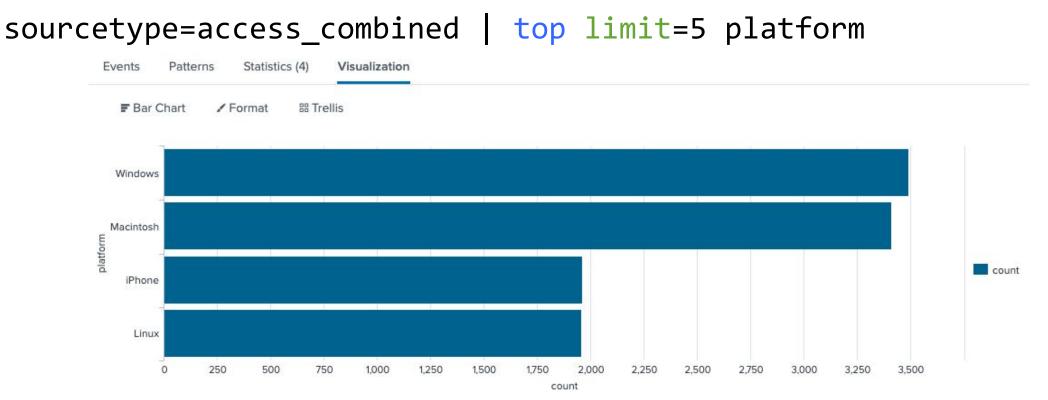
Page 19 | Show the most common customer operating systems

Se	arch	Search for all web server events
SO	urcetype="acces	We can see operating system information in our events and after extracting a new field, we can now report on it!
i	Time	Event
>	25/10/2019 08:06:34.185	<pre>12.130.60.4 [25/Oct/2019 08:06:34:185] "GET /product.screen?product_id=MCF-3&JSESSIONID=SD5S L4FF10ADFF5 HTTP 1.1" 200 2039 "http://www.buttercupenterprises.com/category.screen?category_id= Clothing" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_2) AppleWebKit/537.36 (KHTML, like Geck o) Chrome/56.0.2914.3 Safari/537.36 OPR/43.0.2431.0 (Edition developer)" 993 host = myserver source = /var/log/weblogs/noise_apache_2.log sourcetype = access_combined</pre>

Task 4 > DevOps team

Page 19 | Show the most common customer operating systems

Solution:





Task 4 > DevOps Team Break

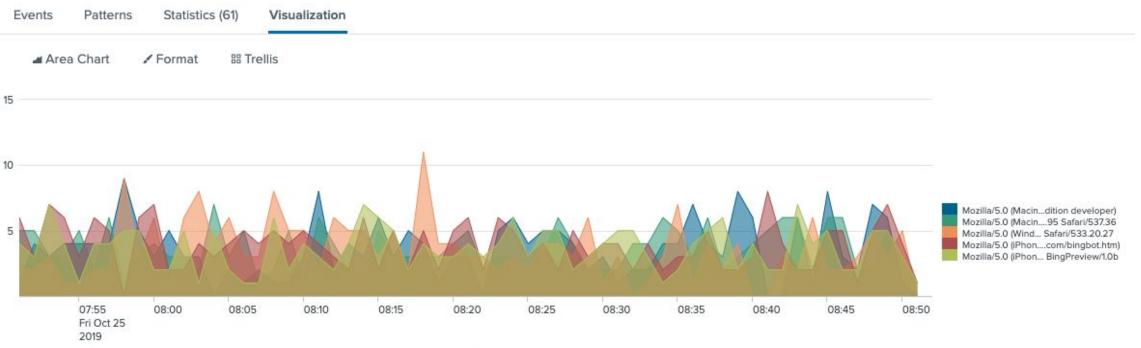
Lab Guide | Pages 17-21

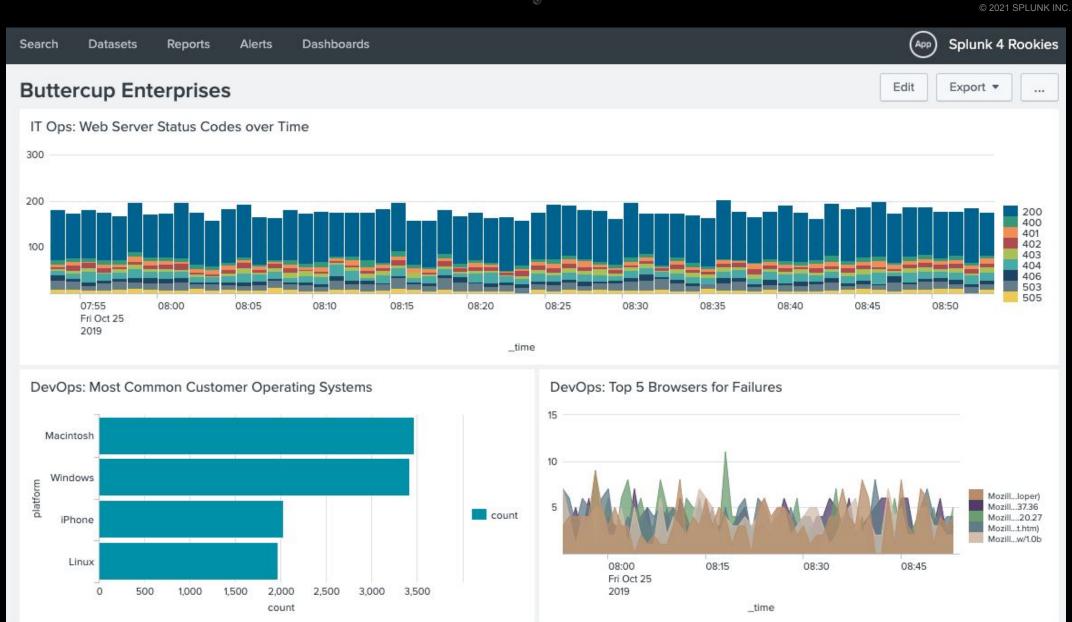
Task 4 > DevOps team

Page 20 | Show which web browsers are experiencing the most failures

Solution:

status>=400 | timechart count by useragent limit=5 useother=f





Task 5 > Sales/Business Analytics teams

Show lost revenue from the website

Lab Guide | Page 22



Task 5 > Sales/Business Analytics teams

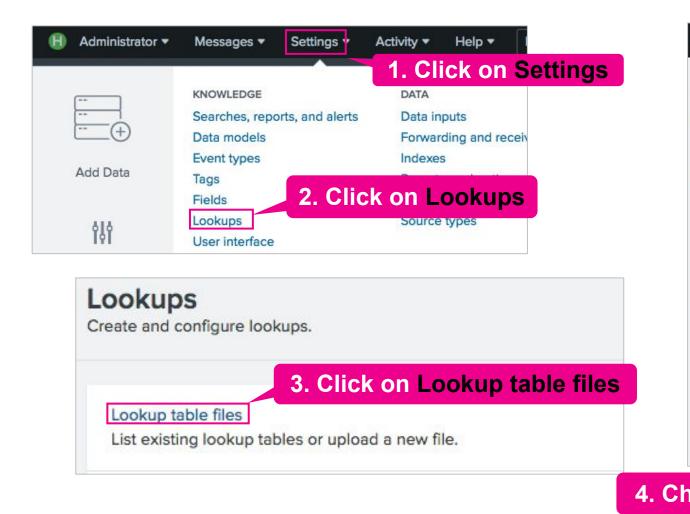
Fields extracted from events by Splunk

External CSV file

a date_wday 3 # date_year 1 a date_zone 1 a file 4 a ident 1 a index 1	10 Values, 100% of events	We have data, but no		formation CB-5, Mad Comics-Batg This is the
a itemId 16 a JSESSIONID 100+ # linecount 1 a method 2	Top values Events with this field Top 10 Values	Top values by time Count	%	Books, MCF-3, Mad Comics- Bron information we need! Books, MCF-3, Mad Comics- Flymin, ormation we need!
# other 100+	FL-DSH-01	1,755	10.347%	Clothing, CM-1, Costume- ManHawk, 97.5
a product_id 10	RP-SN-01	1,743	10.276%	Gifts,DFS-2,Double Fudge Sundae,22.75
a punct 7	AV-CB-01	1,734	10.223%	Gifts, PP-5, Pony Potpourri, 9.99
a referer 100+ a referer_domain 1	FI-SW-01	1,730	10.199%	Clothing, BW-3, Batquy Watch, 9.99
a rea time 100+	AV-SB-02	1,724	10.164%	

Verify Lookup File Exists

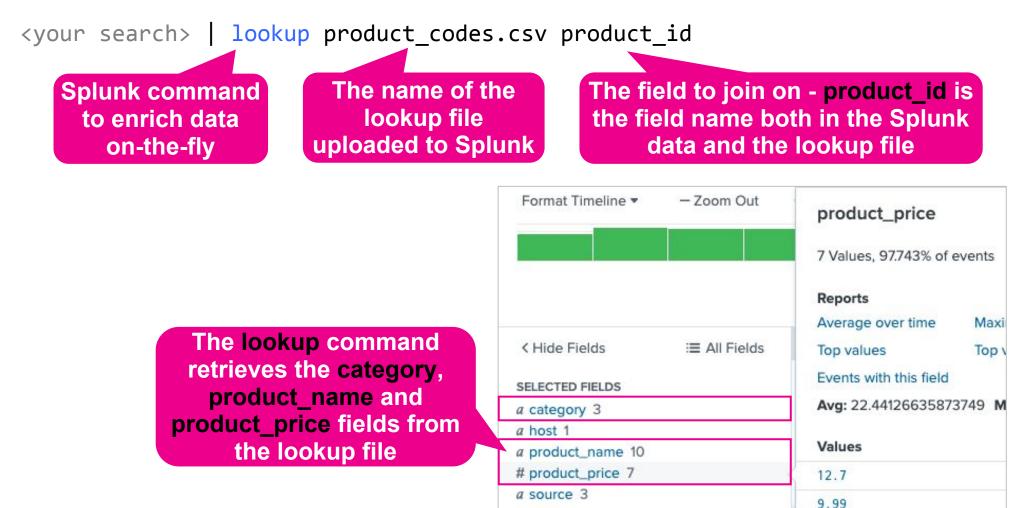
A lookup file has already been uploaded for you!



	pkup table files	5		
Show	ing 1-5 of 5 items			
Арр	Search & Reporting (se	ai 🔹	Owner	Any
/op	:/splunk/etc/apps/search	/looku	ps/geo_attr	_countries.cs
101010-001				
/op	t/splunk/etc/apps/search	/looku	ps/geo_attr	_us_states.cs
/op	:/splunk/etc/apps/search	/looku	ps/geo_cou	untries.kmz
/op	/splunk/etc/apps/search	/lookuj	ps/geo_us_	states.kmz
_	/splunk/etc/apps/search			where the process of the other

Enriching Data with the **lookup** Command

Usage:





Task 5 > Sales/Business Analytics teams

Objectives

- Use the lookup command to enrich the events with price data from our lookup file
- 2. Show lost website revenue using a Single Value visualization
- 3. Add your visualization to your existing dashboard

Goal

Business Analytics: Lost Revenue







Task 5 > Sales/Business Analytics teams Break

Lab Guide | Pages 22-24

Task 5 > Challenge Task

Page 24 | Add a Single Value visualization to show the lost revenue from the company website

Challenge Task Solution:



...| timechart sum(product_price) by product_name

Batguy Slippers	Batguy Watch	Costume- ManHawk	Double Fudge Sundae	Mad Comics- Batguy	Mad Comics- Bronze Man
\$154.20 7.10	\$29.97	\$390.00 7 195.00	\$113.75 ⁷ 22.75	\$76.20 ⁷	\$12.70 . _{76.20}

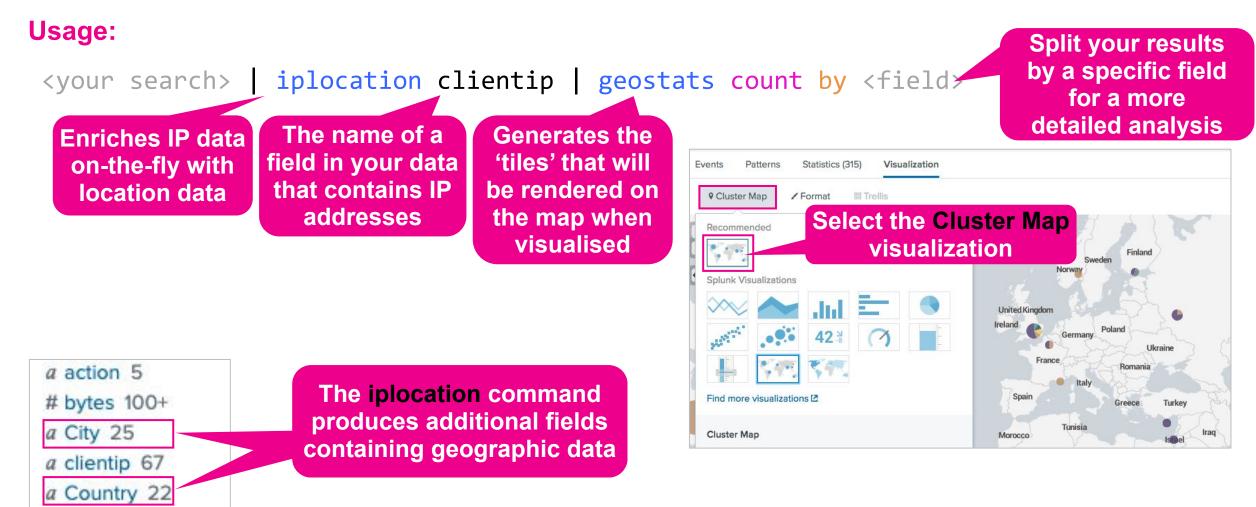
Task 6 > Security/Fraud teams

Show website activity by geographic location

Lab Guide | Page 25



Obtaining Location Information with the iplocation and geostats Commands

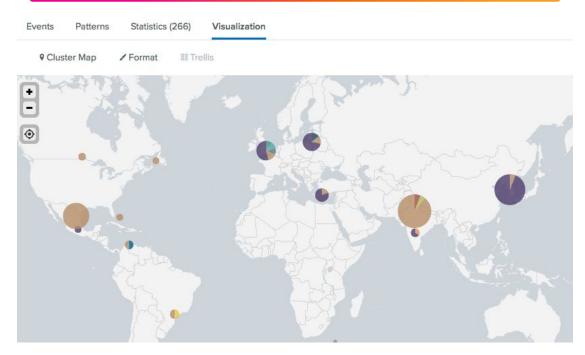


Task 6 > Security/Fraud teams

Objectives

- 1. Use the iplocation command to enrich the events with location data
- 2. Create a world map showing the geographic location of all website activity down to the city level
- 3. Add your visualization to your existing dashboard

Goal





Task 6 > Security/Fraud teams Break

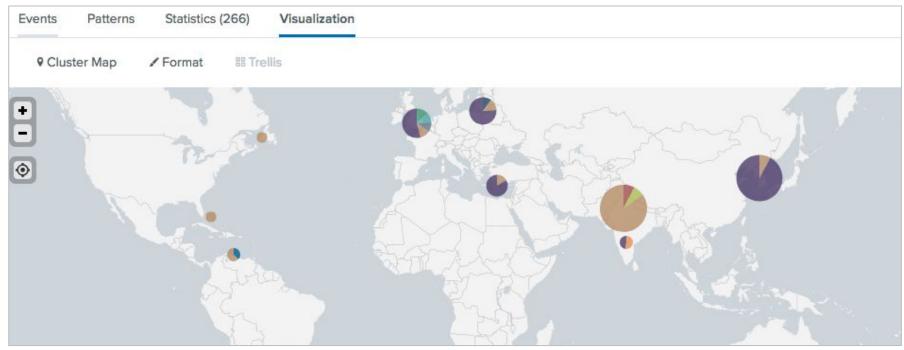
Lab Guide | Pages 25-26

Task 6 > Security/Fraud teams

Page 25 | Show website activity by geographic location

Solution:

sourcetype=access_combined | iplocation clientip | geostats count by City globallimit=0

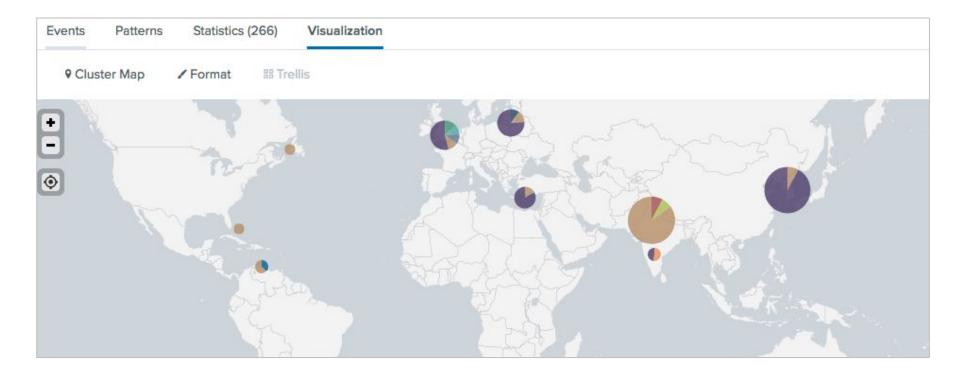


Task 6 > Challenge Task

Page 26 | Remove events coming from "United States" from the Cluster Map

Solution | Page 33:

sourcetype=access_combined | iplocation clientip | search Country!="United States" |
geostats count by City



Task 7 > Enhance Your Dashboard

Lab Guide | Pages 27

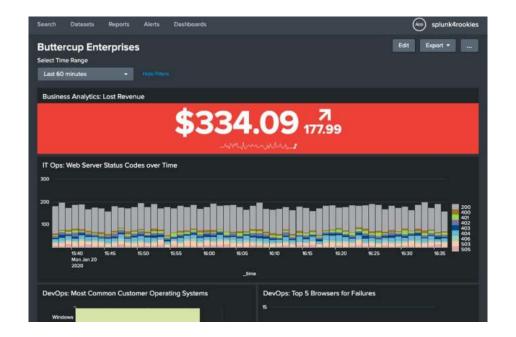


Task 7 > Enhance Your Dashboard

Objectives

- Add a shared time range picker to your dashboard and set all panels to use the new time range picker
- 2. Switch your dashboard to dark mode!

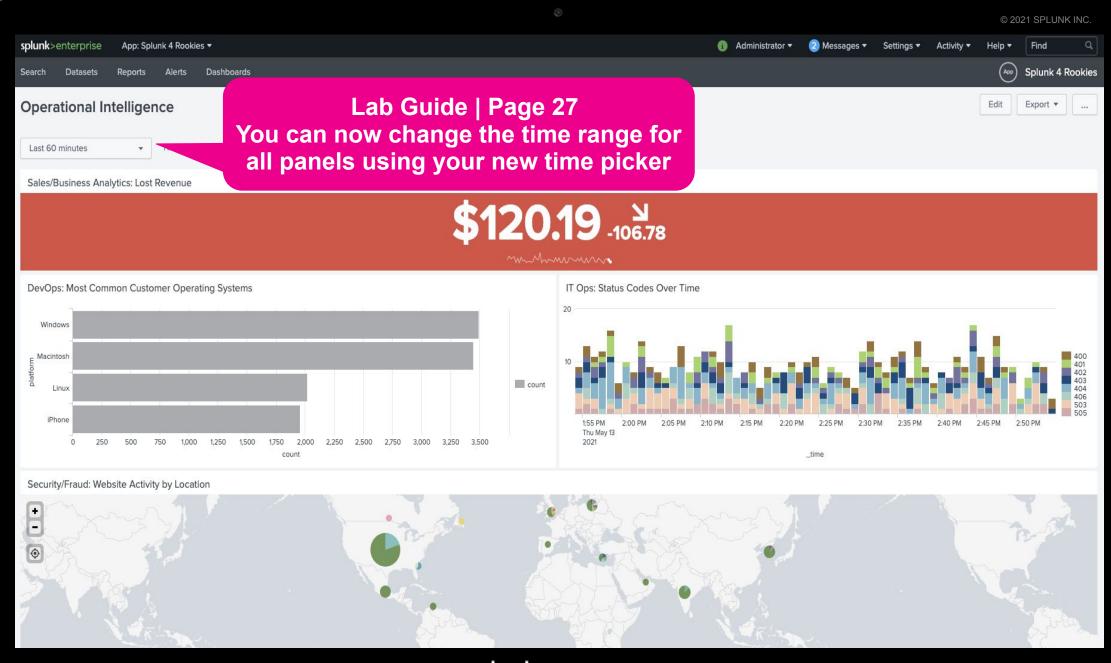
Goal





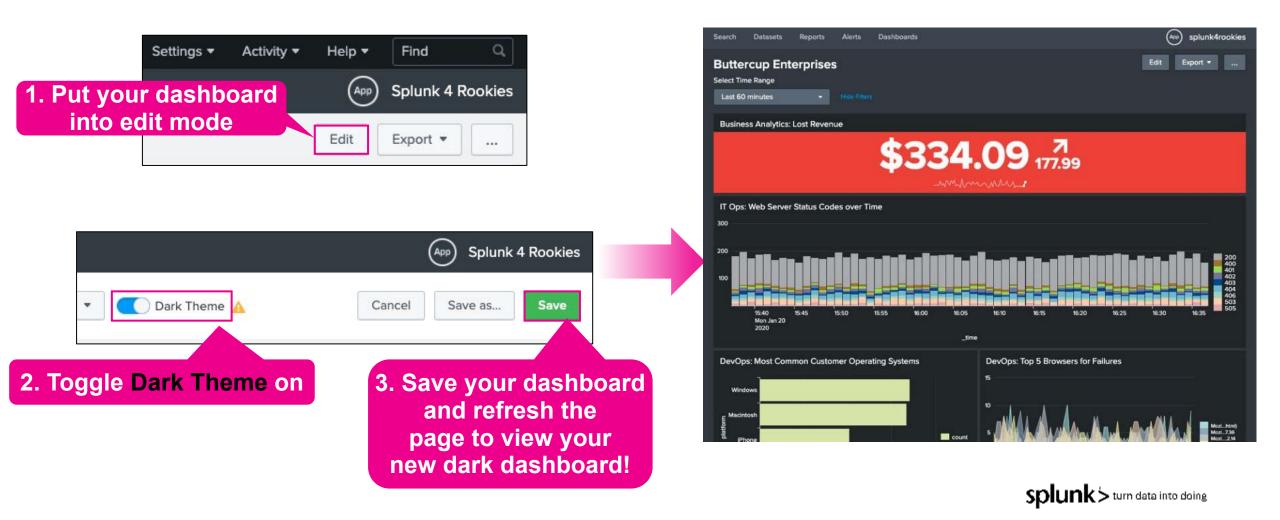
Task 7 > Enhance Your Dashboard Break

Lab Guide | Pages 27-30



Switch the dashboard to Dark Mode

Lab Guide | Page 30



Congratulations | You Finished!



How did you do?



Splunk Resources





Splunk Connected Experiences

Get actionable alerts, respond to notifications, view mobile-friendly dashboards, interact with augmented reality Splunk visualizations, and display dashboards on a TV



Splunk Mobile Extend Splunk dashboards and alerts to mobile devices



Splunk Mobile for Apple Watch Empower consumption and

action on information via Apple Watch





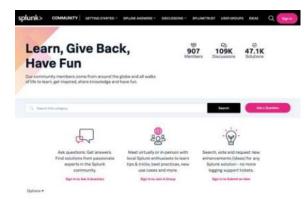
Splunk AR

Scan QR codes or NFC tags for on-demand insights via Augmented Reality Splunk TV Display Splunk dashboards on an Apple TV



Splunk's Thriving Community

Splunk Community



Splunk Events





dees learned from Spharics, Selations Architect, Michael Sondag and Carahsoft for a deep the into the Soluria for Cybersecurity Maturity Model Certification (CMMC) wildion do the Date

Training + Certification

Laaning Path

Courses

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Documentation



Developer Resources

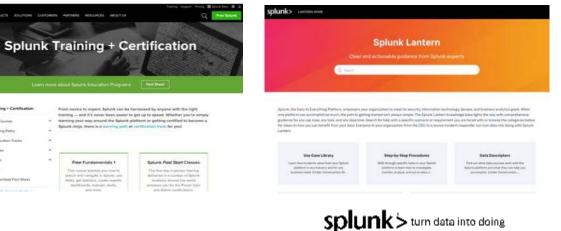


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Education

Splunk Lantern



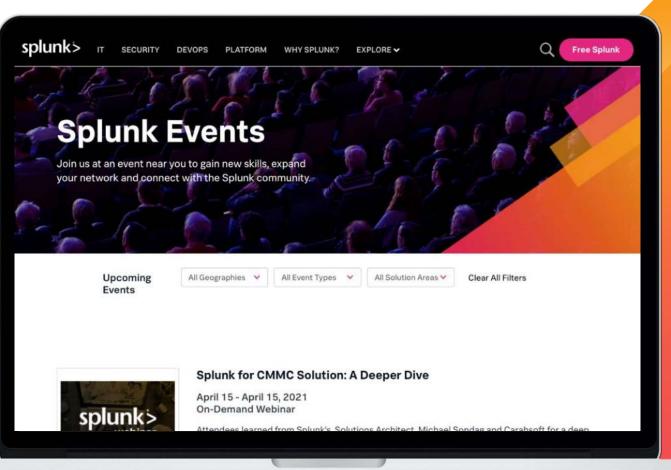
Splunk Events

https://events.splunk.com

Expand your network and connect with the Splunk community at events near you



https://conf.splunk.com



- > Join us online on 20-21 October for two days of innovation!
- Dozens of educational sessions and numerous opportunities to learn new skills



Splunk Community

https://community.splunk.com

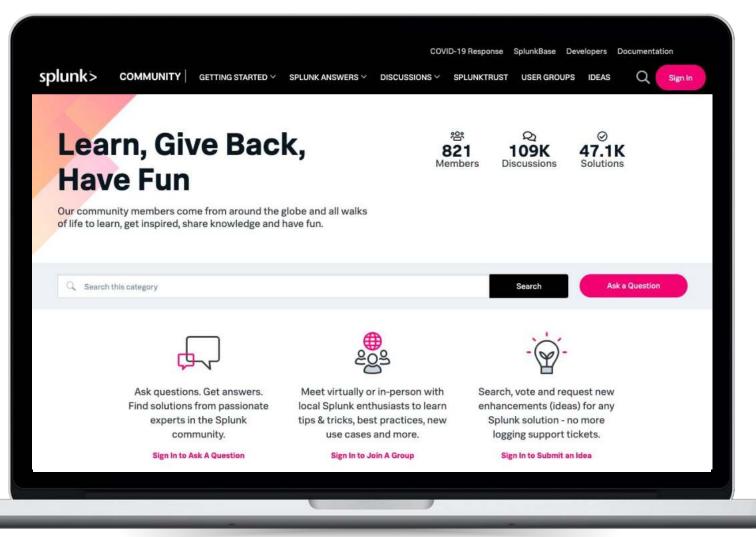
> Splunk Answers

Ask questions and get answers from the passionate Splunk community!

 Splunk User Groups
 Meet with local Splunk enthusiasts to learn tips and tricks

> Splunk Ideas

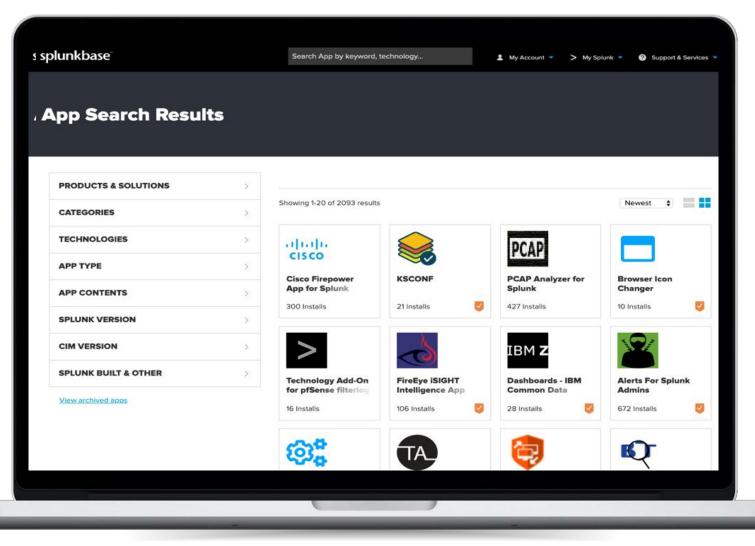
Search, vote and request new product enhancements





Splunk Apps & Add-ons

- https://splunkbase.com
- > 2000+ apps and add-ons
- Pre-built searches, reports, visualizations and integrations for specific use cases and technologies
- Download apps and customise them based on your requirements
- Fast time to value from your data

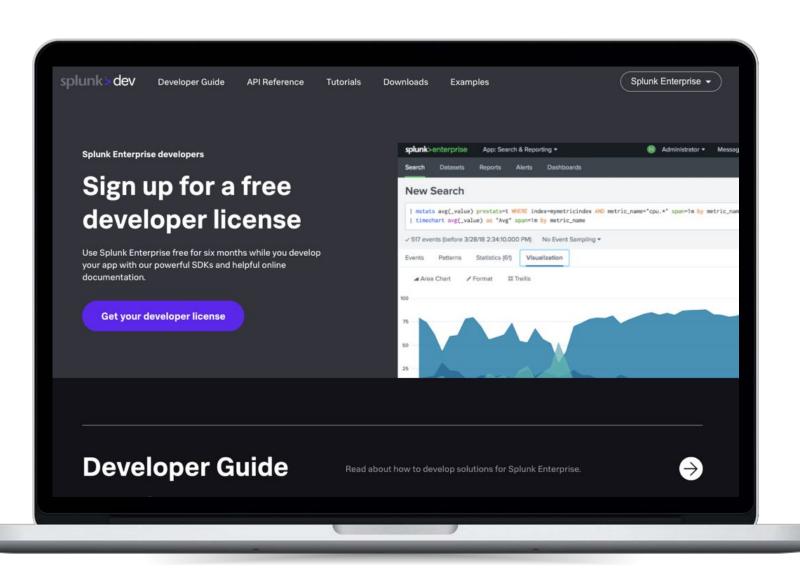


> Build and contribute your own apps!

Developer Resources

http://dev.splunk.com

- Check out our REST API and suite of SDKs to customise and extend the power of Splunk
- Splunk integration with other applications and systems
- Resources for building Splunk apps
- > Splunk Investigate





Splunk Lantern

https://lantern.splunk.com

- > Use case library Get more value from your Splunk platform
- Step-by-step procedures Investigate, monitor, analyse and act

> Data descriptors

Map use cases to data sources to reach your goals

> Splunk Success Framework

Structure your Splunk deployment and usage to realise value across your organisation

> Splunk Platform Administration

Keep your Splunk deployment running smoothly



Splunk, the Data-to Everything Platform, empowers your organization to meet its security, information technology, devops, and business analytics goals. When one platform can accomplish so much, the path to getting started isn't always simple. The Splunk Lantern knowledge base lights the way with comprehensive guidance for any use case, any task, and any objective. Search for help with a specific scenario or requirement you are faced with or browse the categories below for ideas on how you can benefit from your data. Everyone in your organization from the CEO to a novice incident responder can turn data into doing with Splunk Lantern.

Use Case Library

Learn how to derive value from your Splunk platform in any industry and for any business need. (Under Construction...M...

Step-by-Step Procedures

Walk through specific tasks in your Splunk platform to learn how to investigate, monitor, analyze, and act on data. (...

Data Descriptors

Find out what data sources work with the Splunk platform and what they can help you accomplish. (Under Construction.....



Documentation

https://docs.splunk.com

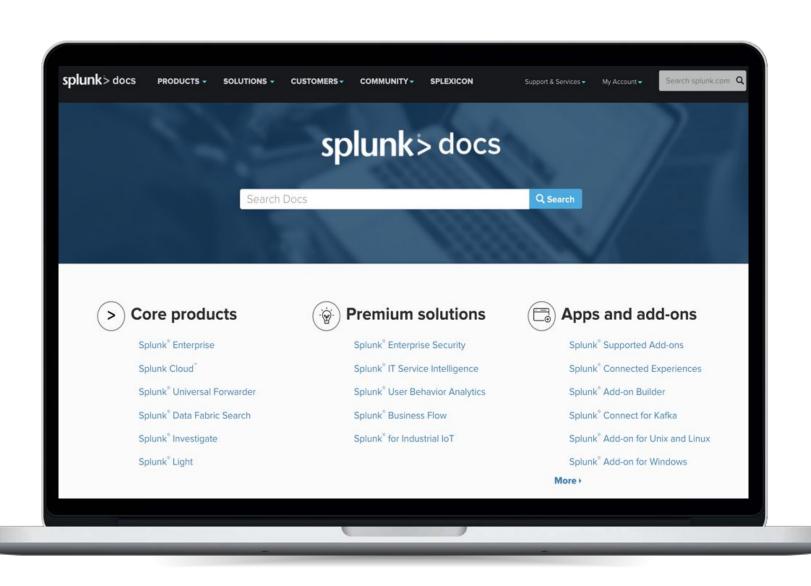
> Splunk reference Learn the commands!

> Tutorials

Check out the search tutorial that even includes sample data to play with!

> Use cases

- > References
- > Procedures/guides Installing, upgrading
- > And more!



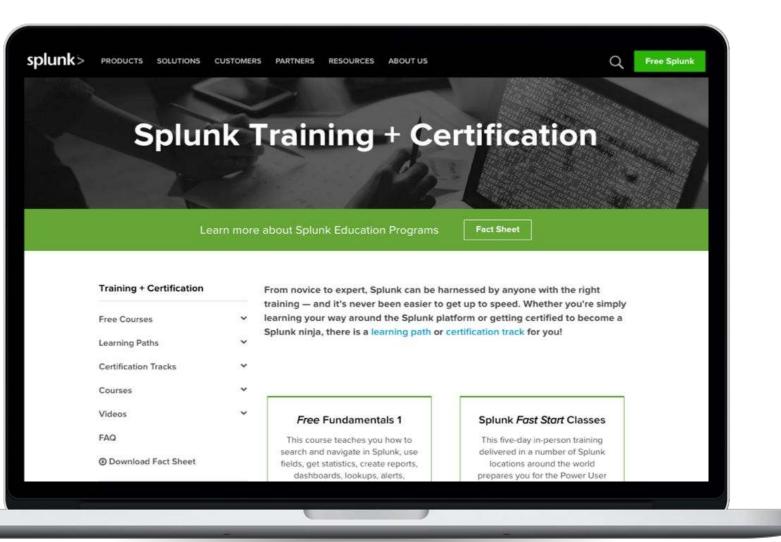


Education

https://www.splunk.com/education

- Check out our online education classes
- Certification tracks for different roles, including User, Power User, Admin, Architect and Developer!
- > Course examples: <u>https://www.splunk.training/edemo/</u>

Free education!
 FREE: Online Splunk
 Fundamentals 1 course





The New Fundamentals of Splunk Education

Start your learning journey with free training and one of our foundational learning paths.

FREE SELF-PACED ELEARNING

These free foundational courses are recommended for all learners.

Choose your learning path. Search Experts write advanced searches, perform forensics and analytics, may staff a help desk for search-related assistance, and create dashboards and alerts. Knowledge Managers perform data interpretation, classification, and enrichment, build data models, manage knowledge objects, and configure summary-based reports and data model acceleration.

Intro to Splunk

Search Expert	
Search Expert	free eLearning
<u>Visualizations</u>	free eLearning
Working with Time	1 credit
Statistical Processing	1 credit
Comparing Values	1 credit
Result Modification	1 credit
Leveraging Lookups and Subsearc	hes 1 credit
Correlation Analysis	1 credit
Search Under the Hood	free eLearning
Multivalue Fields	1 credit
Search Optimization	1 credit

What is Splunk?

Introduction to Knowledge Mar	nager
Introduction to Knowledge Object	s free eLearning
Creating Knowledge Objects	1 credit
Creating Field Extractions	1 credit
Enriching Data with Lookups	1 credit
Data Models	1 credit
Introduction to Dashboards	free eLearning
Dynamic Dashboards	1 credit
Using Choropleth	1 credit
Search Optimization	1 credit

Using Splunk

Note: The courses in these learning paths are shown in recommended order, but can be mixed and matched between paths or completed in partial order. These courses are each 3 hours in duration and have replaced the Fundamentals 1-3 series, as well as Creating Dashboards and Advanced Searching & Reporting. If you began your learning journey with these legacy courses, please click here for your recommended next steps. SDIUNK > turn data into doing

****NOTE all Single Course Classes are FREE to Veterans!**

Thank You

