SPUINK> 4 rookies

Hands-On Workshop





Forwardlooking statements

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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. We undertake no obligation either to develop the features or functionalities described, in beta or in preview (used interchangeably), or to include any such feature or functionality in a future release.

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Please introduce yourself!

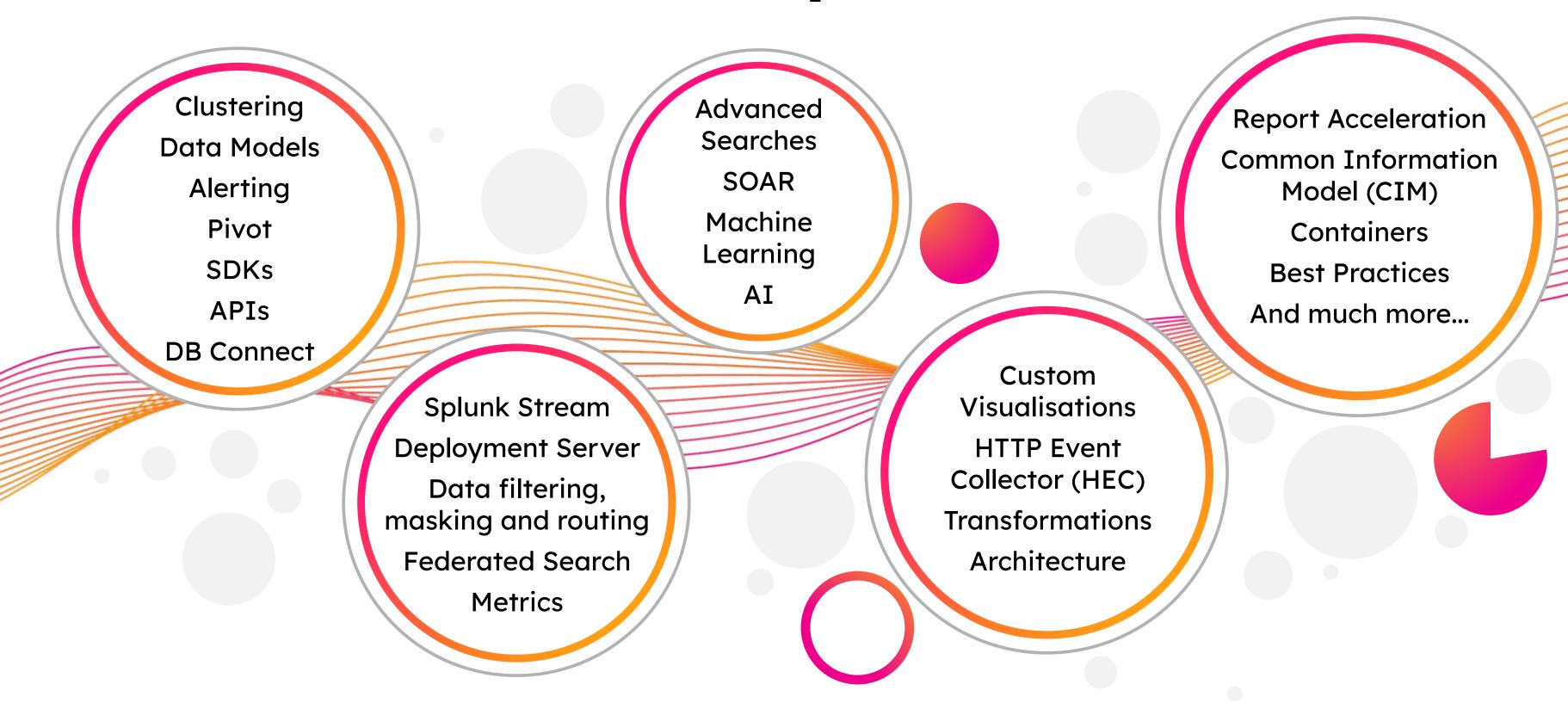
- Name
- Company/organisation
- Role
- Are you currently using Splunk?
- What are you interested in using Splunk for?



Workshop Agenda

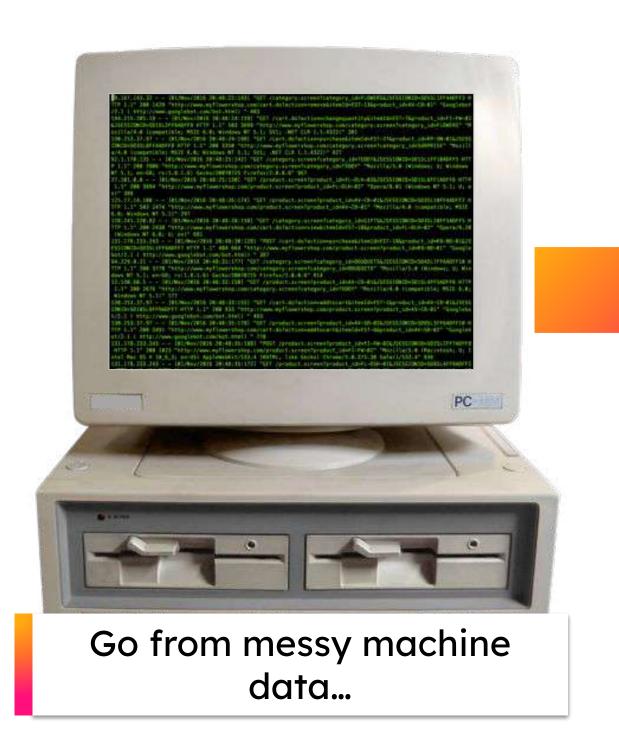
- Building digital resilience with Splunk
- Creating a Splunk app
- Adding data
- Searching and reporting
- Extracting a new field
- Using lookups
- Creating a dashboard for multiple use cases
- Splunk resources

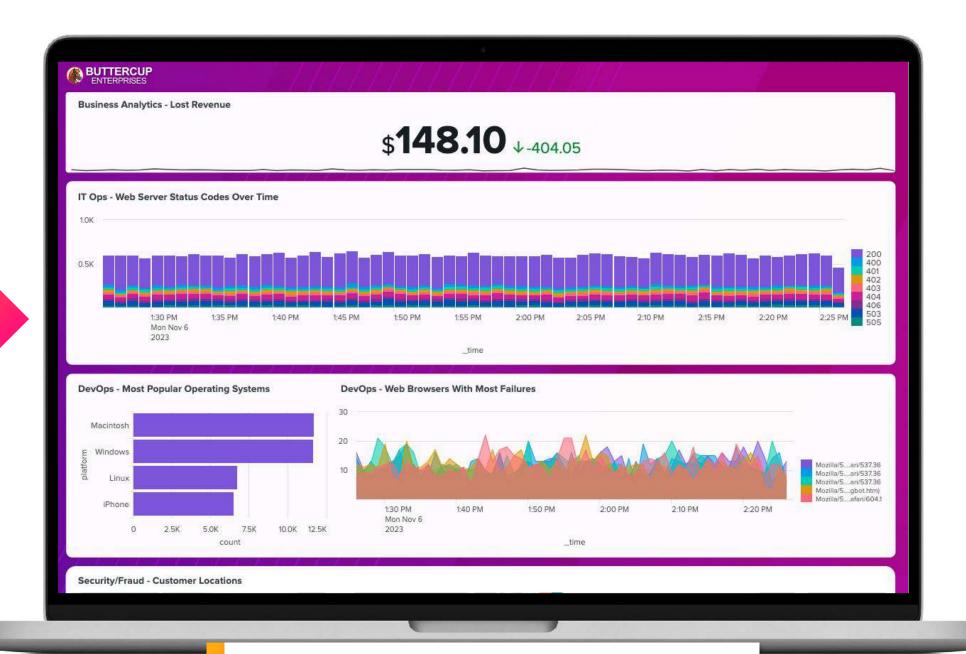
There's a Lot More to Splunk



Visit https://splunk.com/training to learn more!

Objective for Today



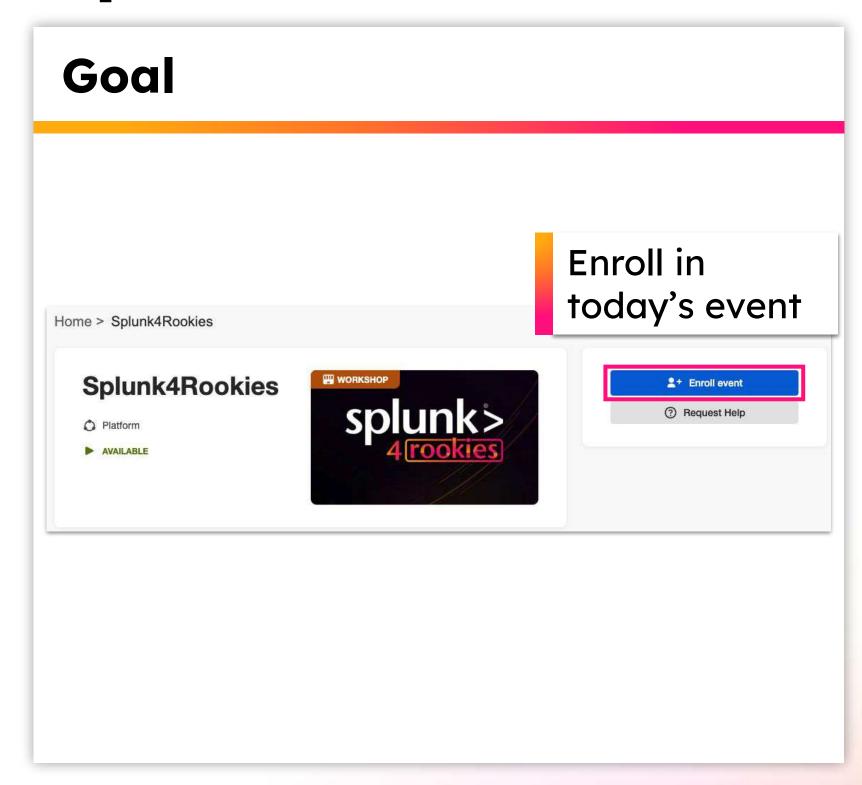


...to a dynamic, interactive dashboard!

Enroll in Today's Workshop

Tasks

- Get a splunk.com account if you don't have one yet: https://splk.it/SignUp
- 2. Enroll in the Splunk Show workshop event: https://show.splunk.com/event/
- 3. Download the hands-on lab guide: https://splk.it/S4R-Lab-Guide
 - Contains step-by-step instructions for all of today's exercises!
- 4. Download a copy of today's slide deck: https://splk.it/S4R-Attendee



We're building a safer and more resilient digital world.



The evolving world has created new demands.



Downtime is detrimental

Large companies lose \$200M/year in costs from downtime.¹



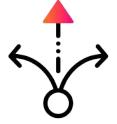
Cyber risk is business risk

Cyber is now the #1 risk and a growing problem thanks to AI.²



Resilience is regulated

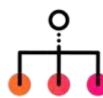
Governments have enacted stiff penalties for non-compliance.



Innovation velocity is essential

Getting products to market faster is a competitive advantage.

It's hard to be resilient.



Complex environments expand attack surface and failure points.

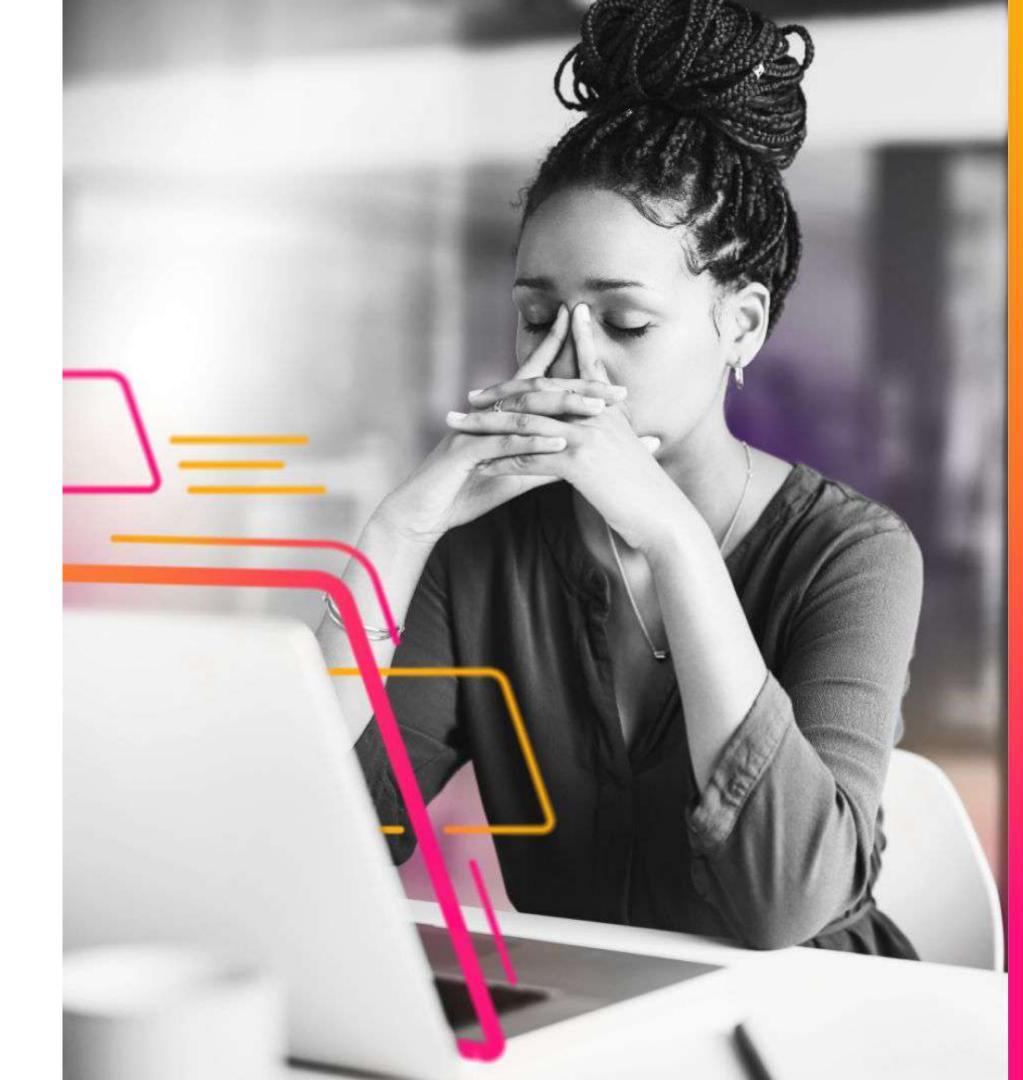


Growing data volumes sit in silos and are increasingly hard to manage.



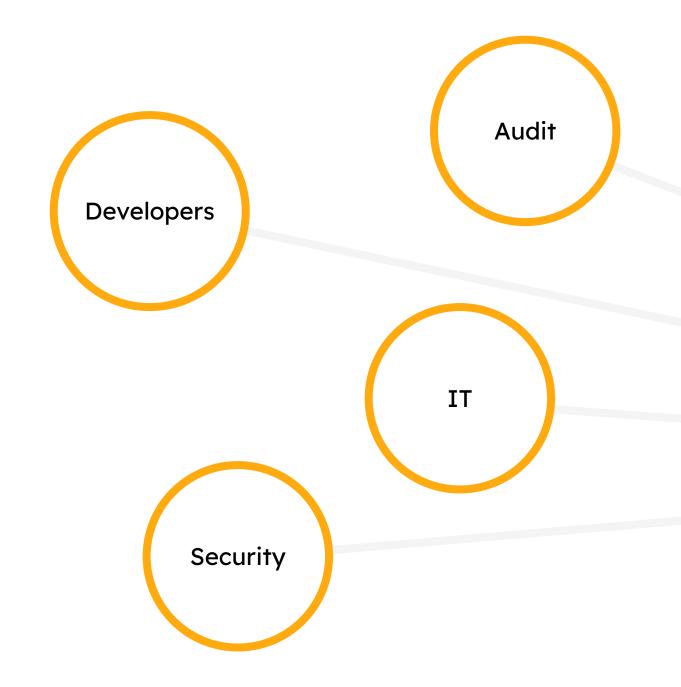
Regulations require real-time risk assessments.

The AI era is accelerating all these challenges and creating entirely new ones.



Service disruptions often look the same.

But different teams struggle to see a holistic view to solve the problem.





How do you prepare for and recover from unexpected disruptions?

Build digital resilience with Splunk.

Splunk brings SecOps, ITOps and engineering together to...



Prevent major issues

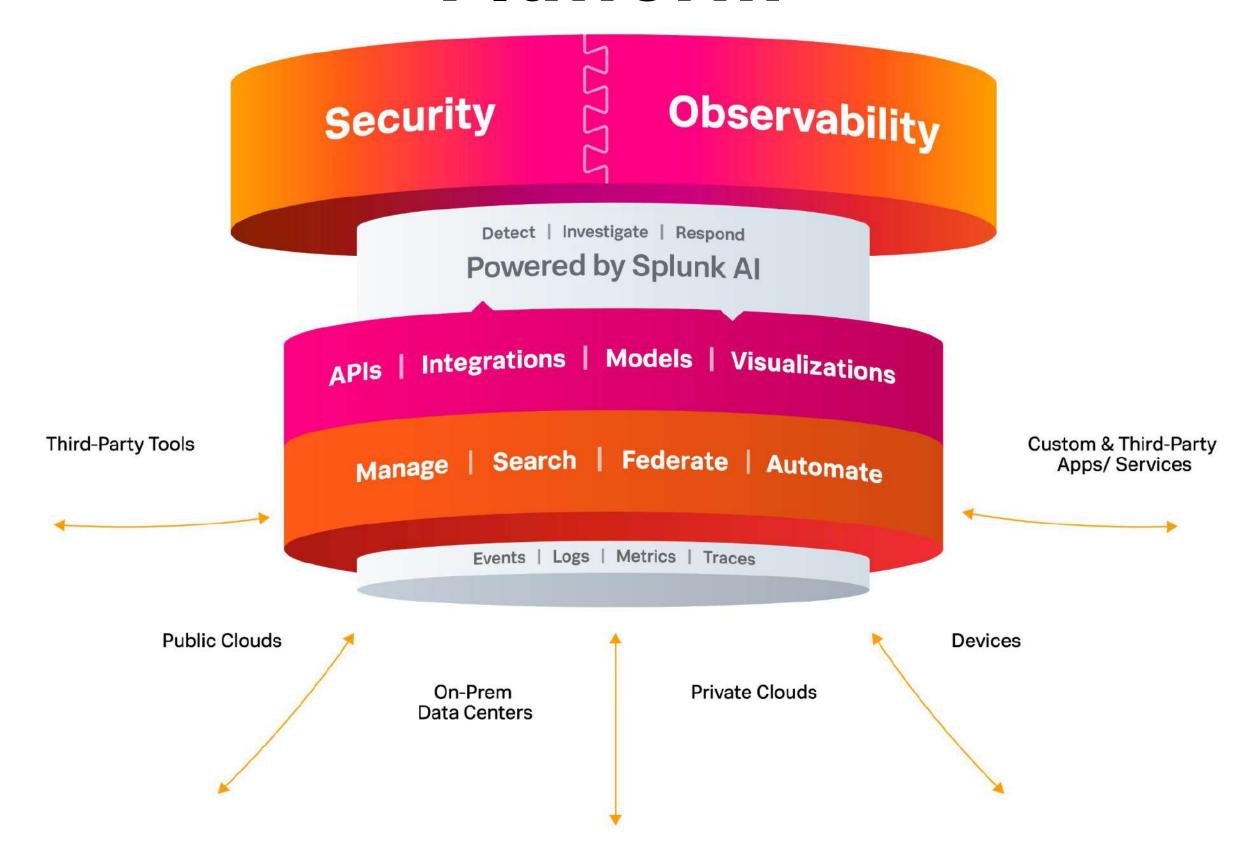


Remediate faster



Adapt quickly

The Unified Security and Observability Platform



Splunk delivers unparalleled digital resilience.

Providing end-to-end visibility and insights across your entire digital footprint

Powering the **SOC** of the future with unified threat detection investigation and response, enhanced with network insights

Delivering observability for the entire enterprise to prevent unplanned downtime across all environments

Unified by a flexible platform that provides enterprise scale data management

Splunk as a Service

Fastest time to value | Minimum Infrastructure | Maximum Value

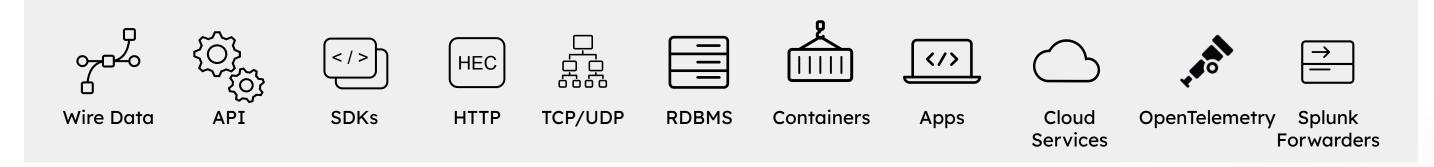
3 Simple Steps:

- 1. Onboard data
- 2. Onboard users
- 3. Get value from your data



- Fastest time to value
- Software as a service AWS or GCP
- Secure ISO 27001, SOC 2 Type II, PCI DSS, HIPAA, FedRAMP Moderate, DoD IL5, IRAP
- Encryption-in-transit plus optional encryption-at-rest
- Resilient infrastructure
- 100% uptime guarantee
- 24/7 NOC/SOC support team

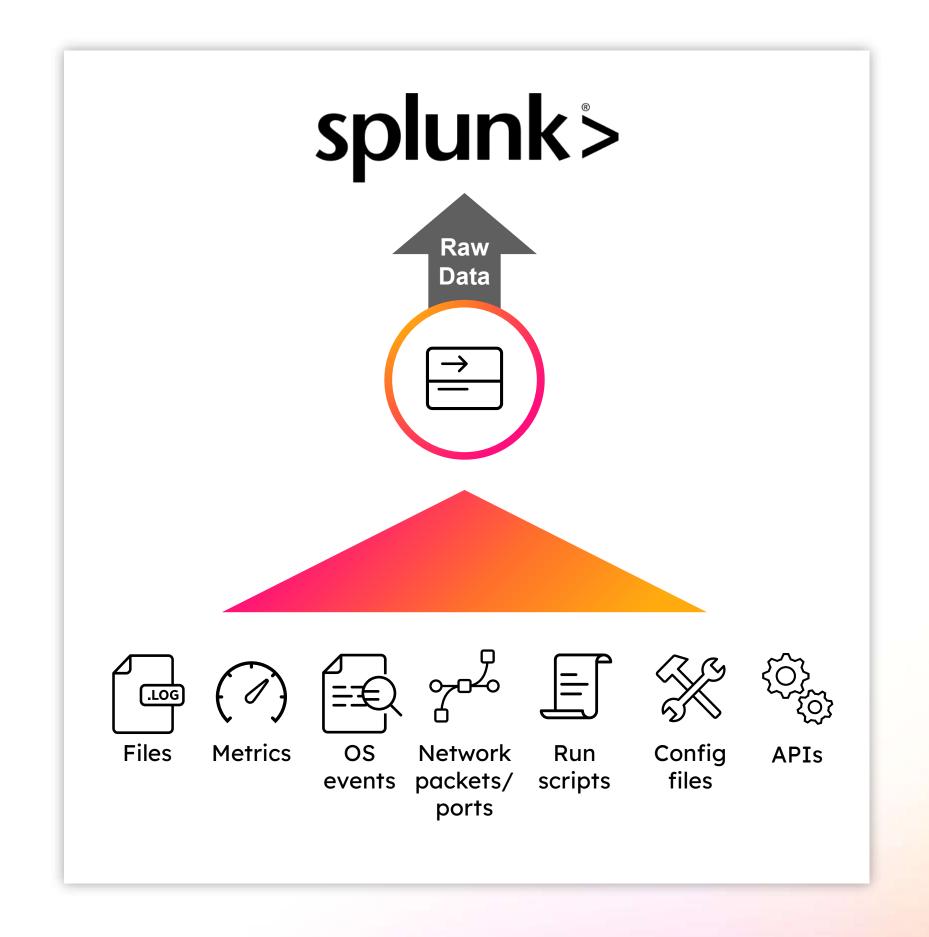
Flexible options for data collection and forwarding



Splunk Cloud Service Description: https://splk.it/SplunkCloudServDesc

What is a Splunk Universal Forwarder?

- Reliable collection of data from remote locations
- Includes methods for collecting from a variety of data sources
- Lightweight but powerful:
 - Buffering / guaranteed delivery
 - Encryption
 - Compression
 - Load balancing
 - And more!
- Very small footprint
- Just forwards data no parsing beforehand!



Machine data is valuable not complex!

```
10.2.1.35 64.66.0.20 - - [17/Jan/2024
16:21:51 "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; Android 12.0.0;
FR-fr; SM-S901B Build/S908EXXU2BVJA)
AppleWebKit/537.36 Chrome/114.0.5735.131
Mobile Safari/537.36" 954
```

Marketing Use Case

Show the top products viewed by language

```
IP of client
```

```
10.2.1.35 64.66.0.20 - - [17/Jan/2024
16:21:51 "GET
/product.screen?product id=CC-P3-BELKIN-
    _KIPH5&JSESSIONID=SD5SL6FF1ADFF9
1.1" 503 865
"http://shop. Product viewed n/product.screen?
product_id=CC-P3-BELKIN-BLK_BTOOTH HFREE"
"Mozilla/5.0 (Linux; Android 12.0.0;
FR-fr; SM-S901B Build/S908EXXU2BVJA)
 Language setting 7.36 Chrome/114.0.5735.131
   of browser 537.36" 954
```

DevOps Use Case

Which mobile handsets should I test the most before releasing my new app?

```
10.2.1.35 64.66.0.20 - - [17/Jan/2024
16:21:51 "GET
/product.screen?product id=CC-P3-BELKIN-
SILBLKIPH5&JSESSIONID=SD5SL6FF1ADFF9
1.1" 503 865
"http://shop.splunktel.com/product.screen?
product_id=CC-P3-BELKI Platform 00TH HFREE"
"Mozilla/5.0 (Linux; Android 12.0.0;
FR-fr; SM-S901B Build/S908EXXU2BVJA)
AppleWebk Handset model hrome/114.0.5735.131
Mobile Safari/537.36" 954
```

IT Ops Use Case

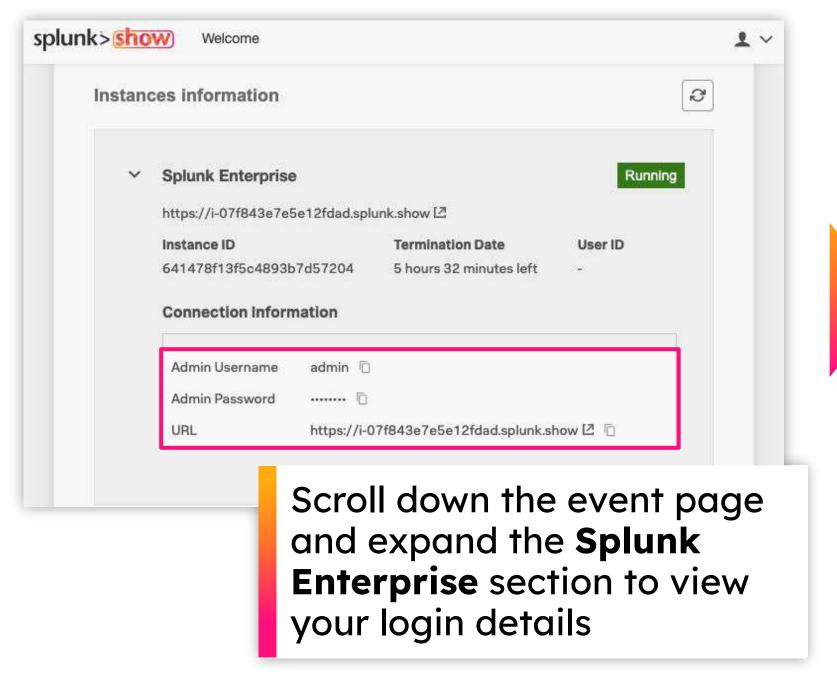
Which web pages are generating the most errors?

```
IP of web server
               IP of client
10.2.1.35 64.66.0.20 -
                          - | 17/Jan/2024
                      Page requested
16:21:51 "GET
 product.screen?product_id=CC-P3-BELKIN-
SILBLKIPH5&JSESSIONID=SD5SL6FF1ADFF9
1.1" 503 865
                            ID of web session
            Size of objects
  HTTP
           returned to client N-BLK BT
status code
 "Mozilla/5.0 (Linux; Android 12.0.0;
                  Build/S908EXXU2BVJA)
    Web browser
    leWebKit/537.36 Chrome/114.0.5735.131
Mobile Safari/537.36" 954
```

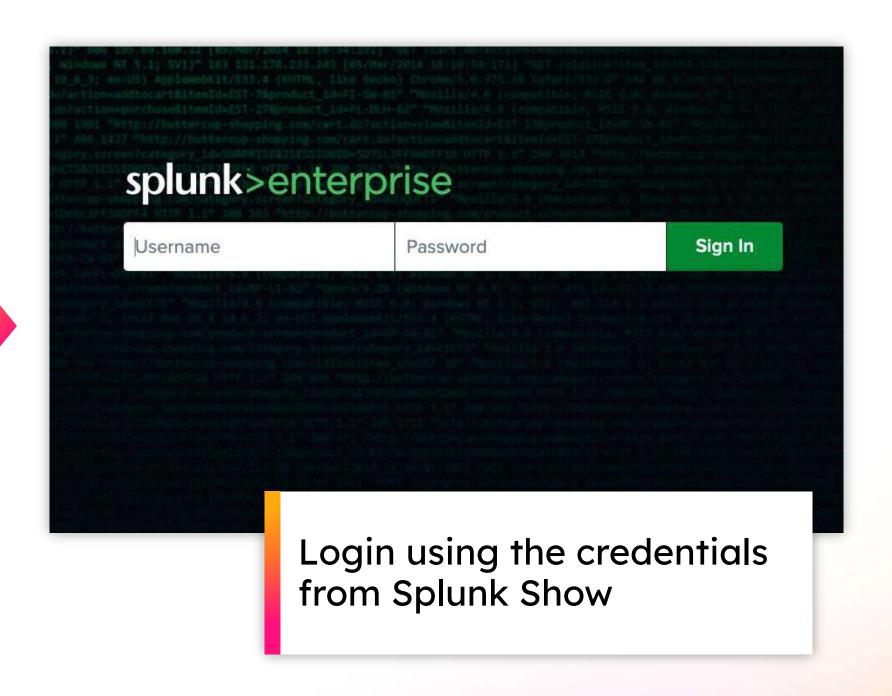
Login to Splunk

Locate your instance URL and credentials in the Splunk Show event

https://show.splunk.com



Log in to your Splunk instance



Apps and Add-ons

- 2100+ free apps and add-ons available from https://splunkbase.splunk.com/
- 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

Apps

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

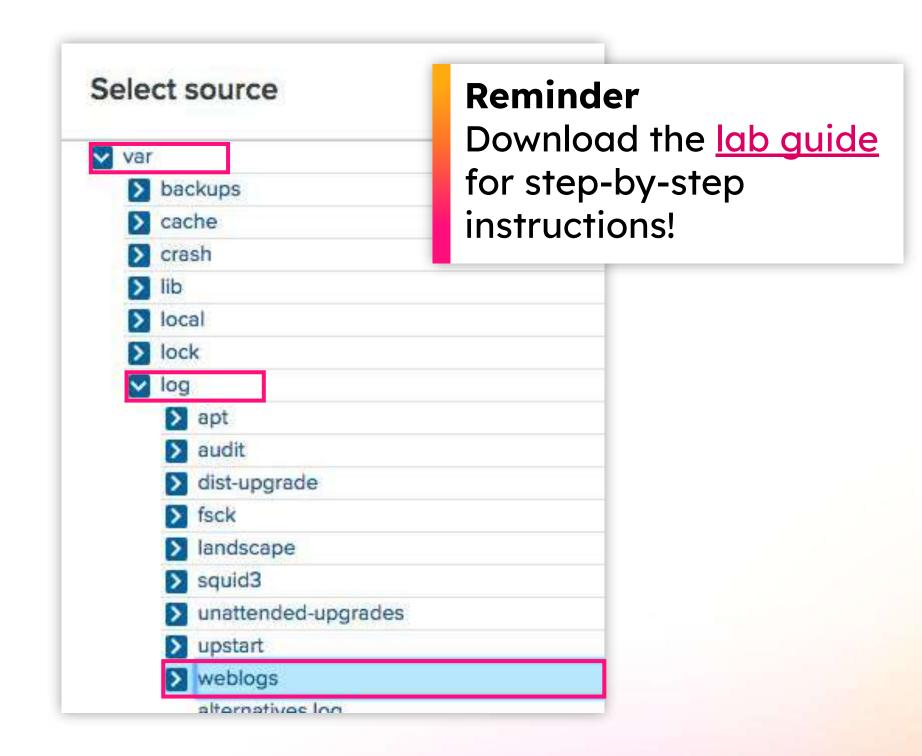
Add-ons

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

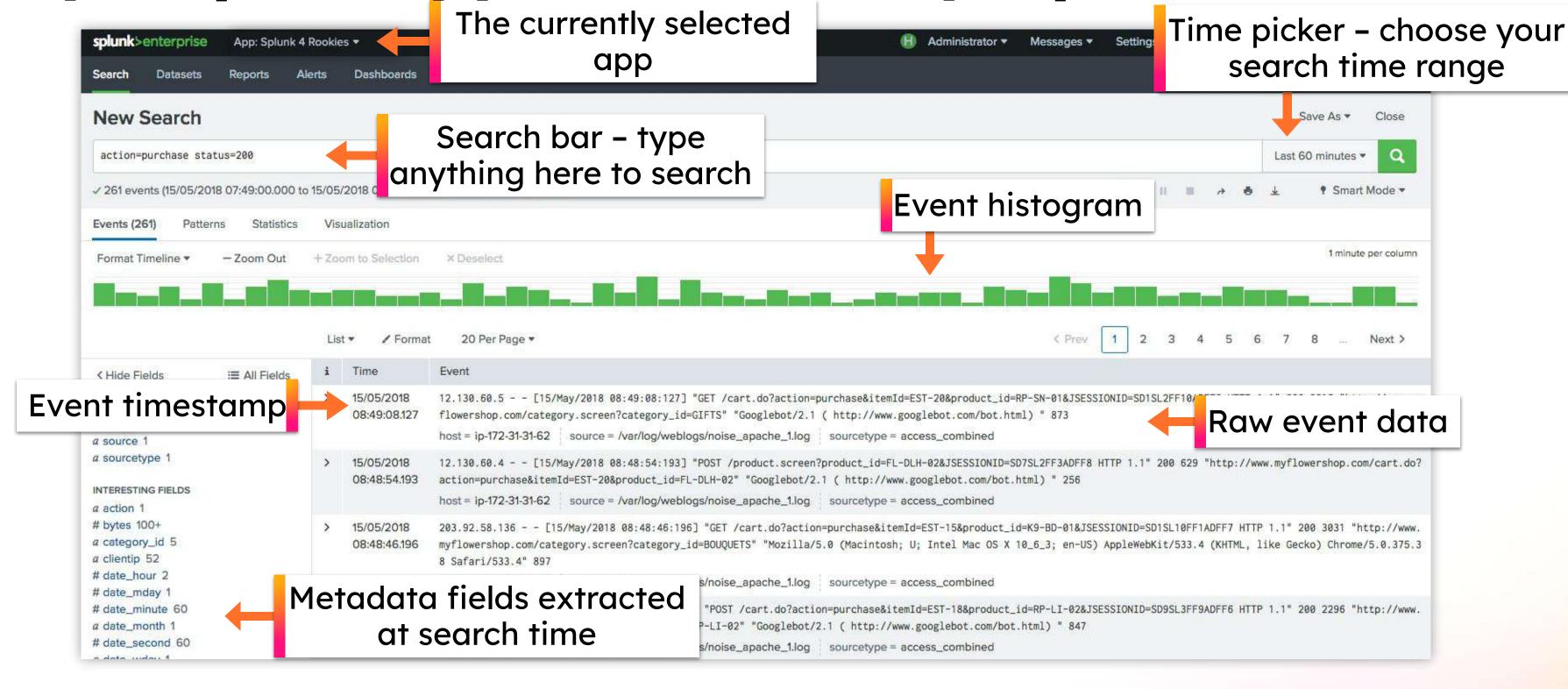
Create an App and Add Some Data

Tasks

- 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



Open your app and have a play!



Start Exploring Your Data

Example searches:

503 purchase

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

503 pur*

Find all events containing "503" and words beginning with "pur"

503 (purchase OR addtocart)

Boolean operators (AND/OR/NOT) - must be UPPERCASE!

status=503 action=purchase

Use *fieldname* = *value* to ensure accurate search results

How would you find events with a status code of 200 that are NOT purchase events?

status=200 NOT action=purchase

status=200 action!=purchase

Splunk's Search Processing Language (SPL)

Search Terms

Commands

index=main action=purchase | stats count by status | rename count as "number of events"

Pipe character: Output of left is input to right

Functions

e.g. index=main action=purchase

i	Time	Event	
>	16/01/2024 11:03:08.000	27.102.0.0 [16/Jan/2024 11:03:08] "GET /cart.do?action=view&product_id=MCB-5&JSESSIONID=SD6SL6 FF10ADFF3 HTTP 1.1" 200 3453 "http://www.buttercupenterprises.com/product_iscreen?product_id=DFS-2" "Mozilla/5.0 (Linux; Android 12.0.0; SM-A546B Build/A546BXXU1AWB7) AppleWebKit/537.36 Chrome/114. 0.5735.61 Mobile Safari/537.36 (compatible; Googlebot/2.1; http://www.google.com/bot.html)" 388 host = Domane-Demo- source = /var/log/weblogs/noise_apache.log17 sourcetype = access_combined	
>	16/01/2024 11:03:08.000	131.178.233.243 [16/Jan/2024 11:03:08] "POST /product.screen?uid=5ac99574-edc7-417d-ad38-df91f 883d280&product_id=PP-5&JSESSIONID=SD7SL3FF6ADFF8 HTTP 1.1" 200 2311 "http://www.buttercupenterprises.com/product.screen?product_id=PP-5" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_4) AppleWebK it/537.36 Chrome/107.0.5304.122 Safari/537.36" 703	
		host = Domane-Demo- source = /var/log/weblogs/noise_apache.log17 sourcetype = access_combined	
>	16/01/2024 11:03:08.000	12.130.60.4 [16/Jan/2024 11:03:08] "GET /product.screen?uid=881e7945-8fd6-4a55-94c1-880f668ea0 48&product_id=BW-3&JSESSIONID=SD1SL6FF5ADFF6 HTTP 1.1" 400 3158 "http://www.buttercupenterprises.com/product.screen?product_id=BS-2" "Mozilla/5.0 (iPhone; CPU iPhone OS 15_0 like Mac OS X) AppleWebKit/605.1.15 Version/15.0 Mobile/19A346 Safari/602.1" 602	
		host = Domane-Demo- source = /var/log/weblogs/noise_apache.log17 sourcetype = access_combined	
>	16/01/2024 11:03:08.000	12.130.60.5 [16/Jan/2024 11:03:08] "GET /product.screen?uid=8a9dfff3-2e4f-4ea6-aef6-088cdb412b 8e&product_id=BW-3&JSESSIONID=SD8SL1FF4ADFF1 HTTP 1.1" 505 1310 "http://www.buttercupenterprises.com/product.screen?product_id=CM-1" "Mozilla/5.0 (Windows; WOW64) AppleWebKit/537.36 Chrome/113.0.5 672.92 Safari/537.36" 977	
		host = Domane-Demo- source = /var/log/weblogs/noise_apache.log17 sourcetype = access_combined	

stats count by status

status 🗢 🖊	count 🗢 🖊
200	850
400	81
401	76
402	50
403	57

rename count as "number of events"

status 🗢 🖌	number of events 🗢 🖊
200	850
400	81
401	76
402	50
403	57

Want to know more? Check out:

Splunk Quick Reference Guide: https://splk.it/SplunkQuickRef

Search manual: https://splk.it/SplunkSearchManual

Today's Scenario

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 insights to users throughout the company
- The teams you support include:
 - IT Operations
 - DevOps
 - Business Analytics
 - Security and Fraud





What Does the Business Want to See?

We need to create a dashboard with four views:



IT Operations team: Investigate successful versus unsuccessful web server requests over time



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



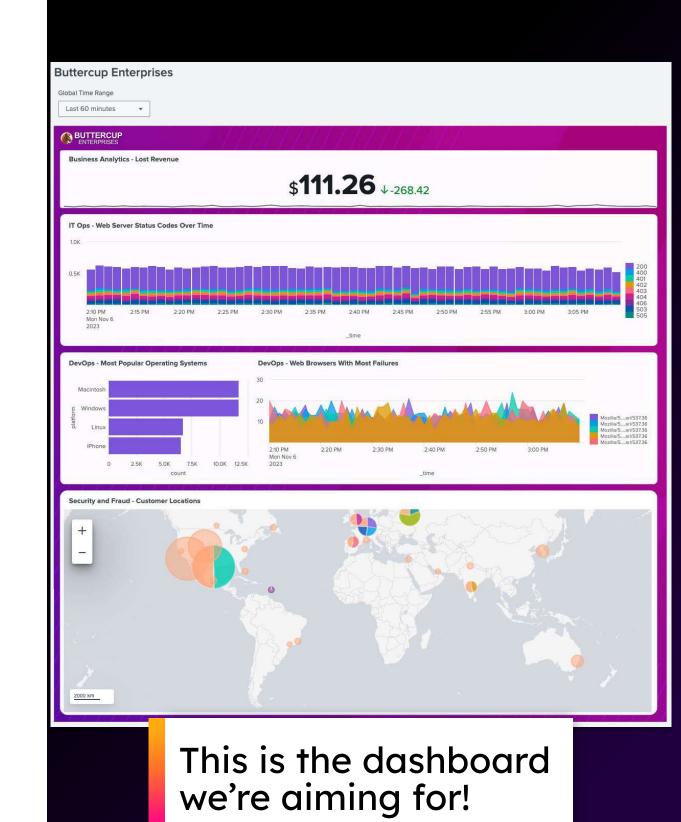
Business Analytics team: Show lost revenue from the Buttercup Enterprises website



Security and Fraud team: Show website activity by geographic location



Buttercup Enterprises: Add all of this to a single dashboard with a custom background image

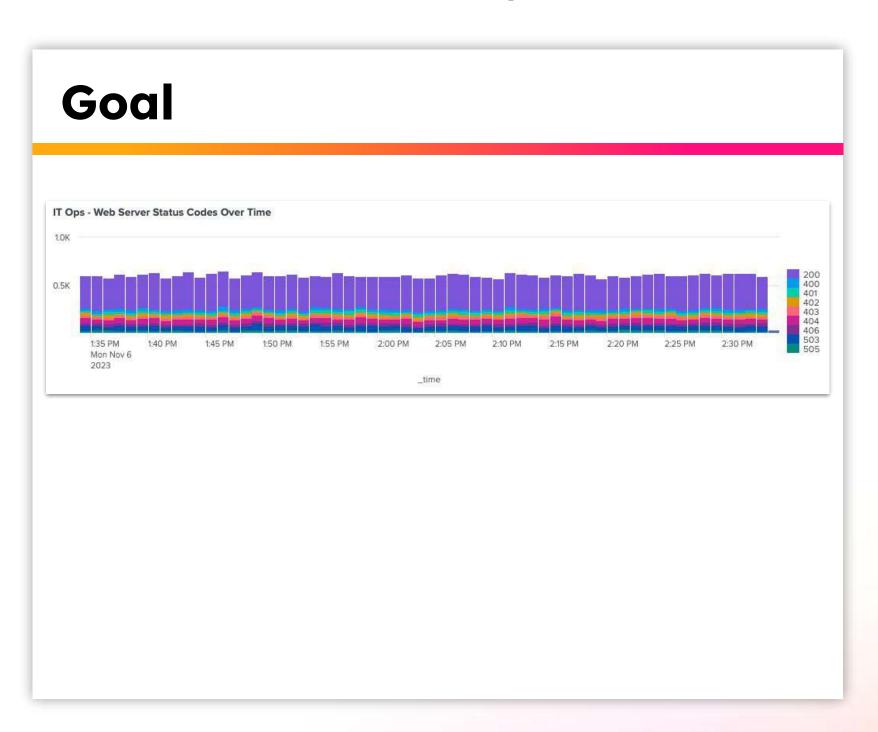


IT Operations Team

Investigate successful versus unsuccessful web server requests over time

Tasks

- 1. Show successful vs unsuccessful web server requests over time
- 2. Use a stacked column chart visualisation
- 3. Add your chart to a new dashboard
- 4. Choose 'Dashboard Studio' and use 'Absolute' layout mode to allow for future dashboard customisation!



Splunk Dashboards

Classic Dashboards (Simple XML)



- Easy to deploy a wide variety of visualisations, but hard to craft a story
- Flexible and extensible, but time consuming to build something truly beautiful (e.g. custom JS, CSS)
- PDF export loses look/feel of dashboard

Dashboard Studio



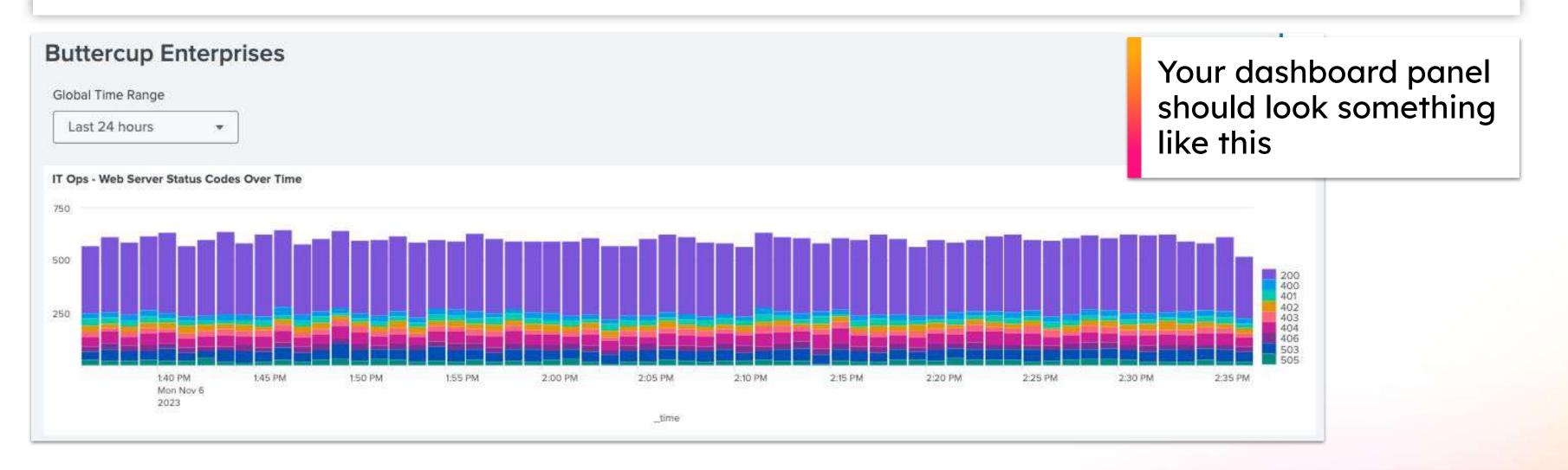
- Create powerful, story-telling dashboards with advanced visualisation tools
- Streamlined editing experience with flexible layouts
- Support for images, text boxes, shapes, lines and icons, with intact PDF export
- No custom code required

IT Operations Team

Investigate successful versus unsuccessful web server requests over time

Solution:

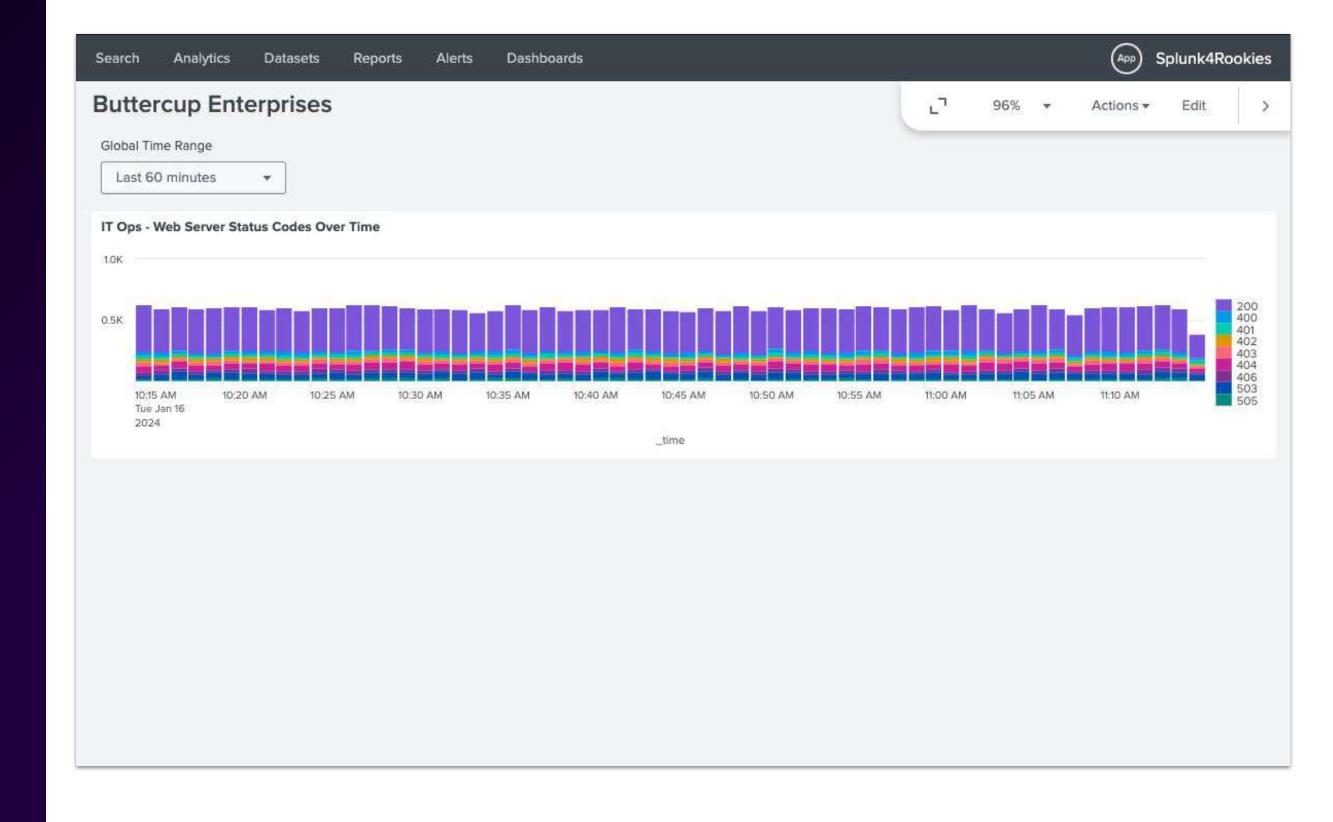
index=main sourcetype=access_combined | timechart count by status limit=10



Your dashboard so far...





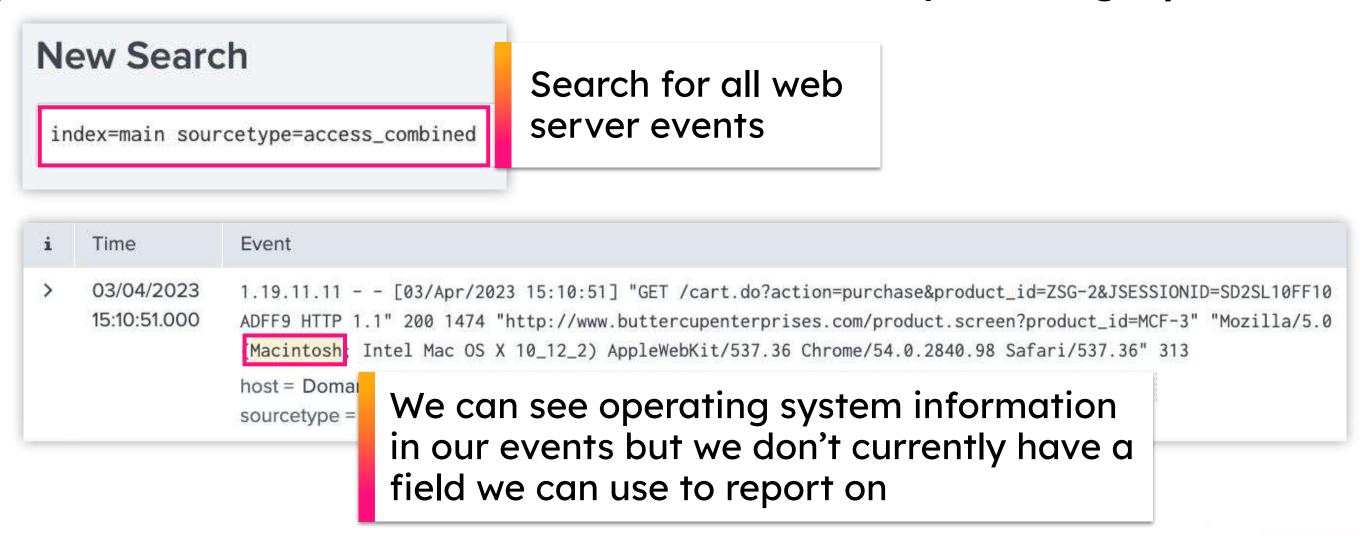




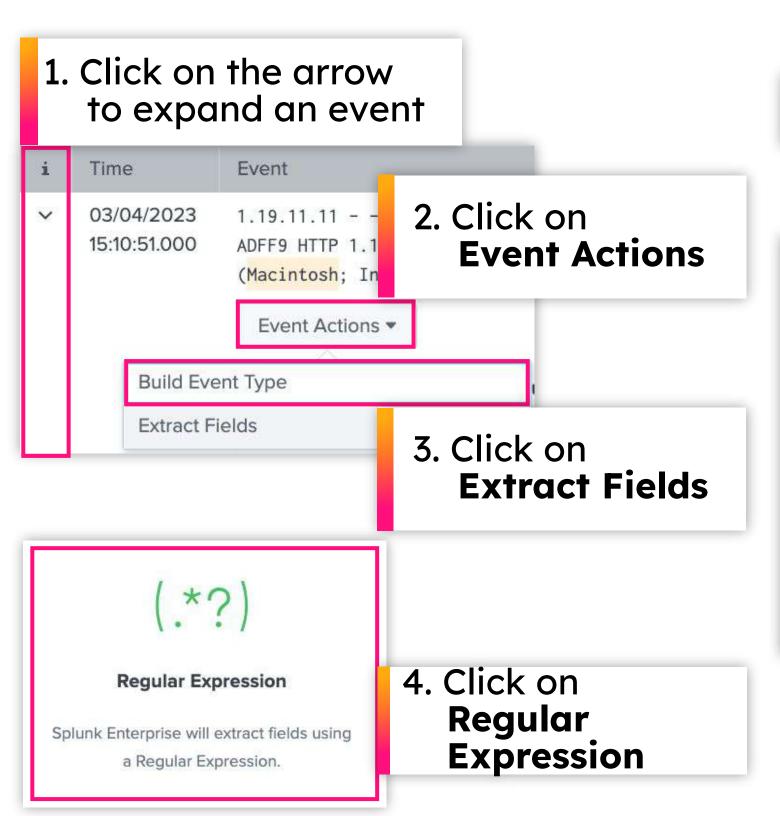
DevOps Team

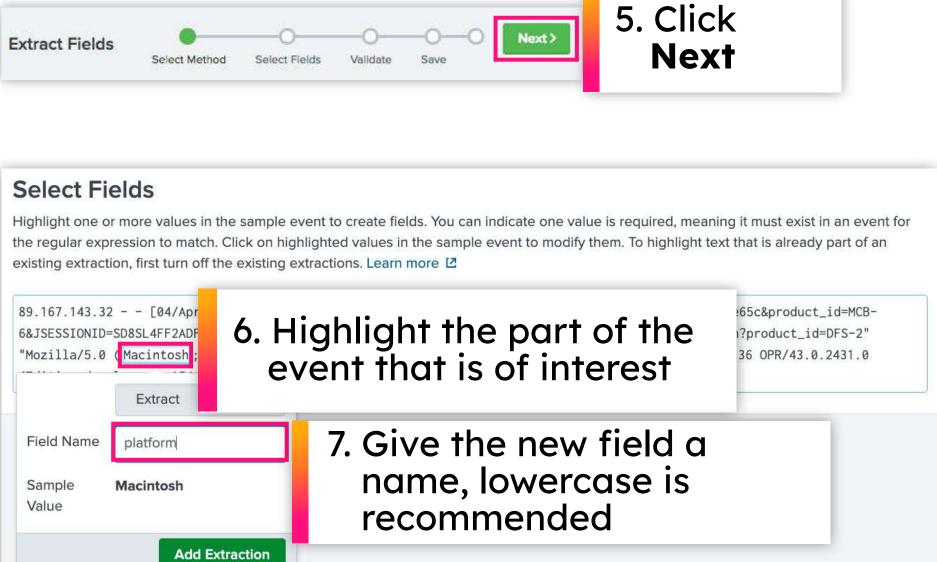
Show the most common customer operating systems and which web browsers are experiencing the most failures

Step 1: Show the most common customer operating systems



Extracting a New Field





DevOps Team

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

Tasks

- 1. Extract a new platform field
- 2. Show the top values using a bar chart visualisation
- Create an area chart showing the top 5
 web browsers that are experiencing the
 most failures over time
- 4. Add your charts to your existing dashboard

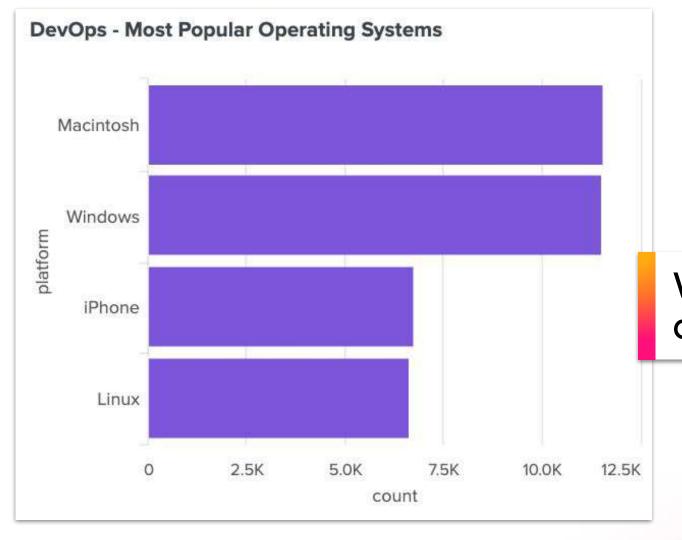


DevOps Team

Show the most common customer operating systems

Solution:

index=main sourcetype=access_combined | top limit=20 platform showperc=f



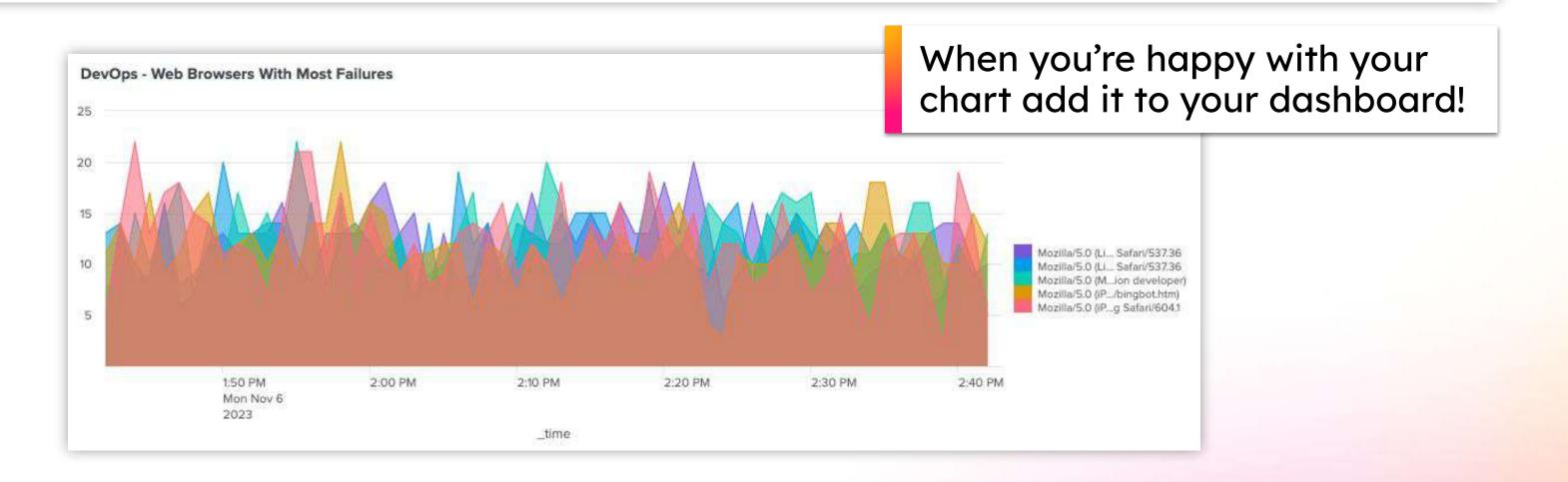
When you're happy with your chart add it to your dashboard!

DevOps Team

Create a graph showing the top 5 web browsers that are experiencing the most failures over time

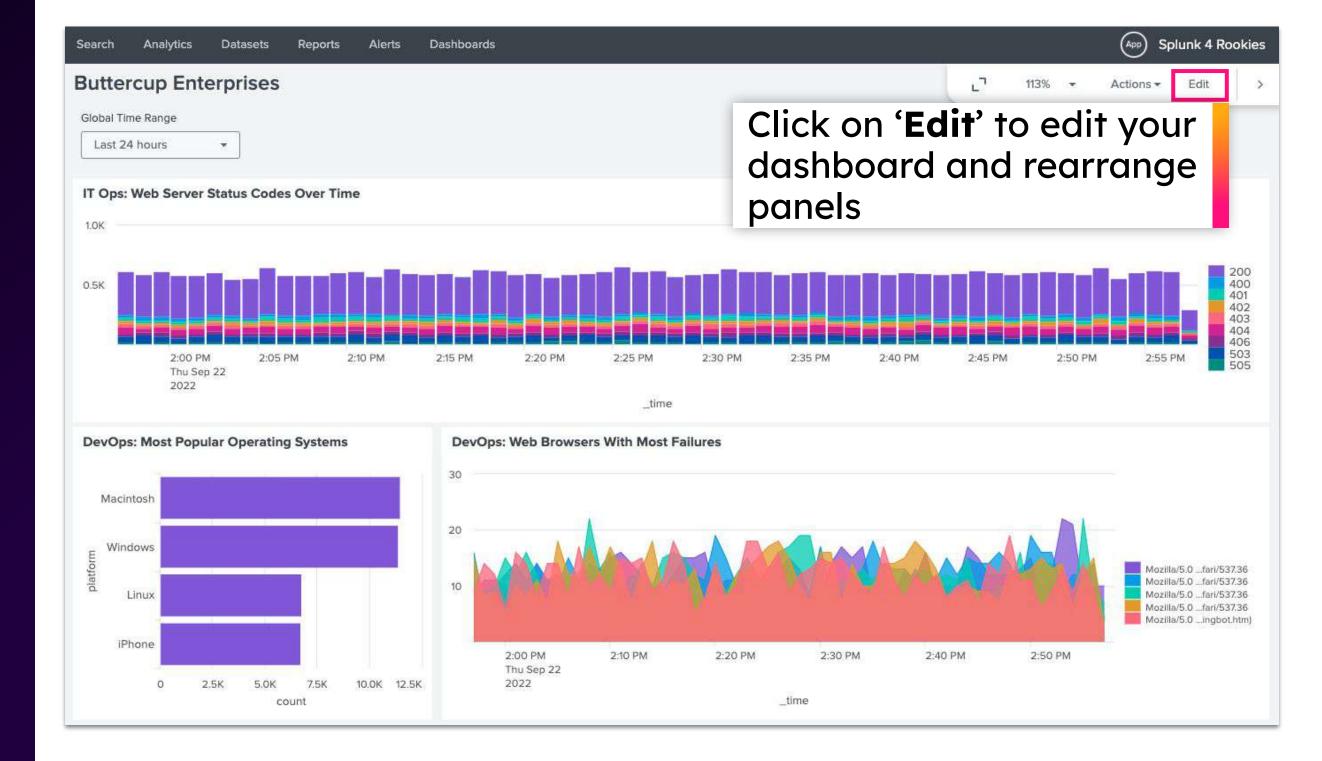
Solution:

index=main sourcetype=access_combined status>=400
| timechart count by useragent limit=5 useother=f



Your dashboard so far...





Working with statistics? Use stats and timechart

Usage:

```
<your search> | stats <function> <by clause>
<your search> | timechart <function> <by clause>
```

Examples:

index=main sourcetype=access_combined
| stats distinct_count(clientip) by status



Calculates statistics based on fields in your events

index=main sourcetype=access_combined
| timechart count by status



Want to know more? Check out:

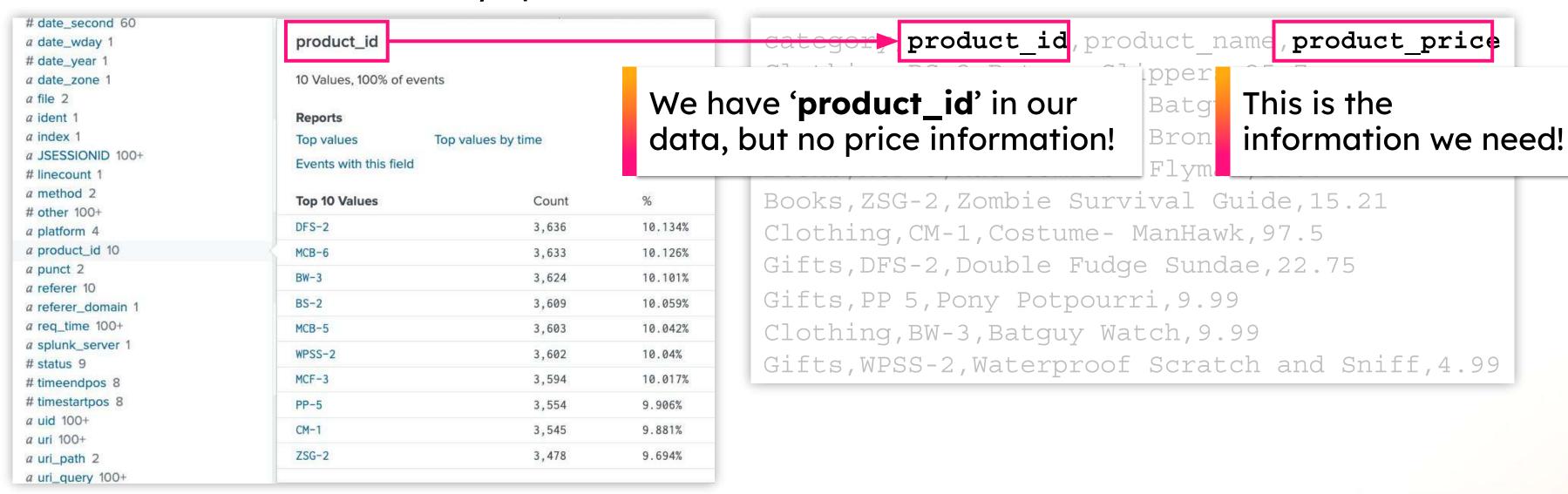
Splunk Quick Reference Guide: https://splk.it/SplunkQuickRef



Business Analytics Team

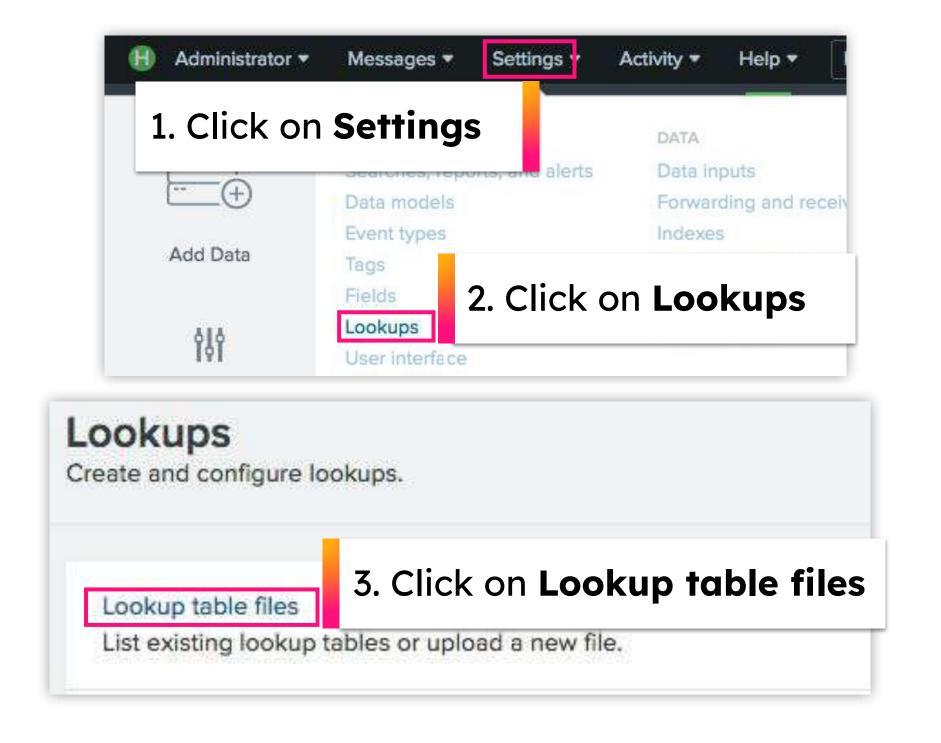
Show lost revenue from the website

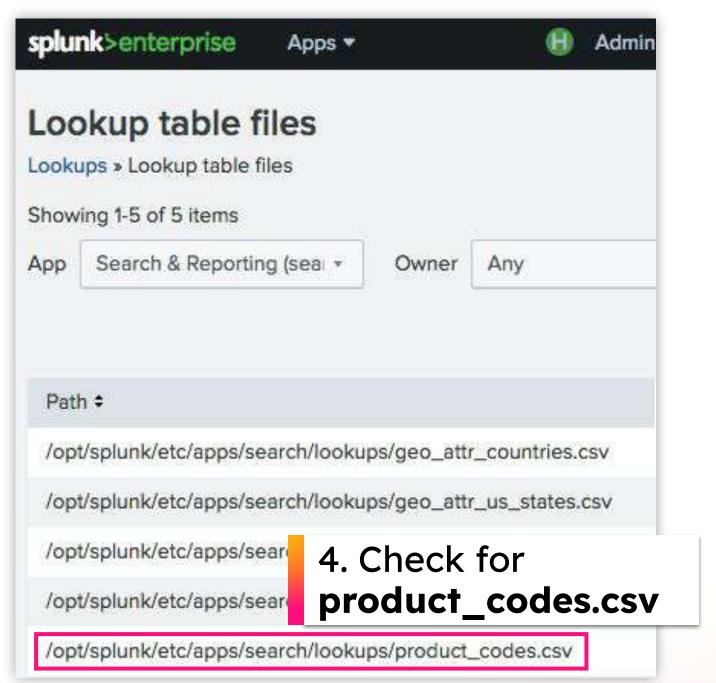
Fields extracted from events by Splunk: External CSV file:



Verify That the Lookup File Exists

A lookup file has already been uploaded for you!





Enriching Data with the lookup Command

Usage:

Splunk command to enrich data on-the-fly The name of the lookup file uploaded to Splunk

The field to join on - 'product_id' is the field that exists in both the Splunk data and the lookup file

The lookup command retrieves additional fields from the lookup file

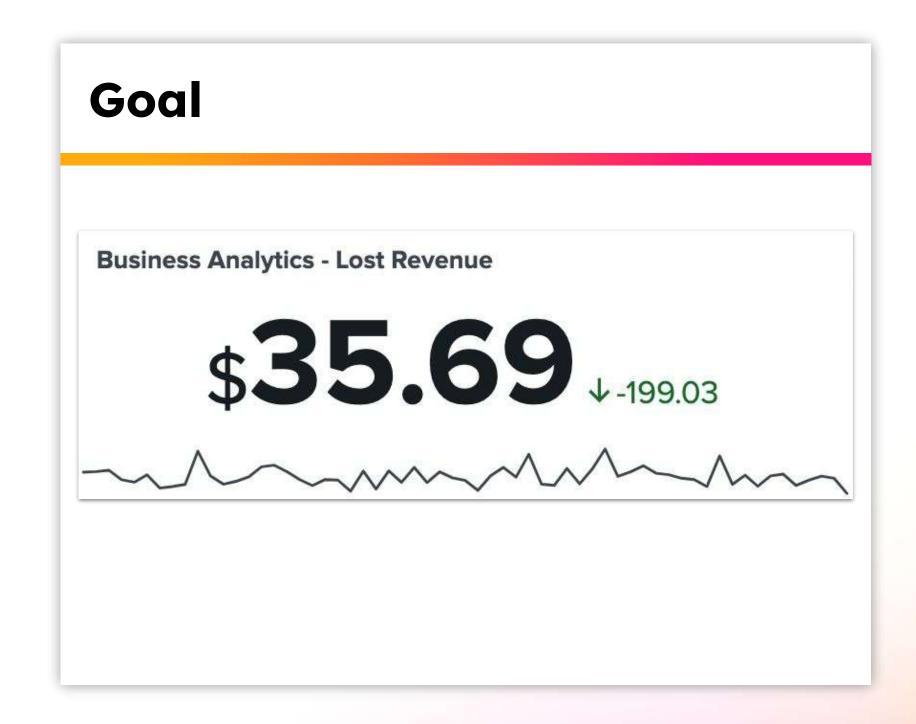


Business Analytics Team

Show lost revenue from the website

Tasks

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



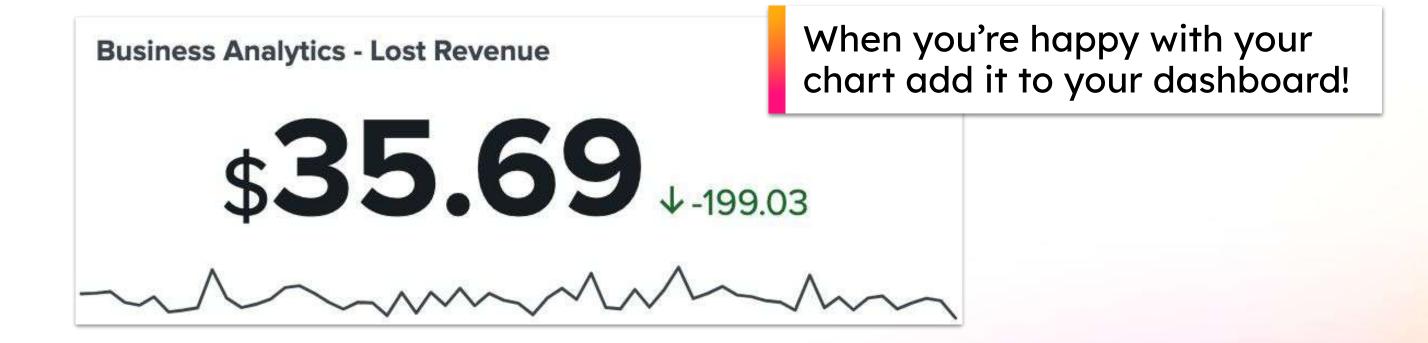


Business Analytics Team

Show lost revenue from the website

Solution:

```
index=main sourcetype=access_combined action=purchase status>=400
| lookup product_codes.csv product_id
| timechart sum(product_price)
```

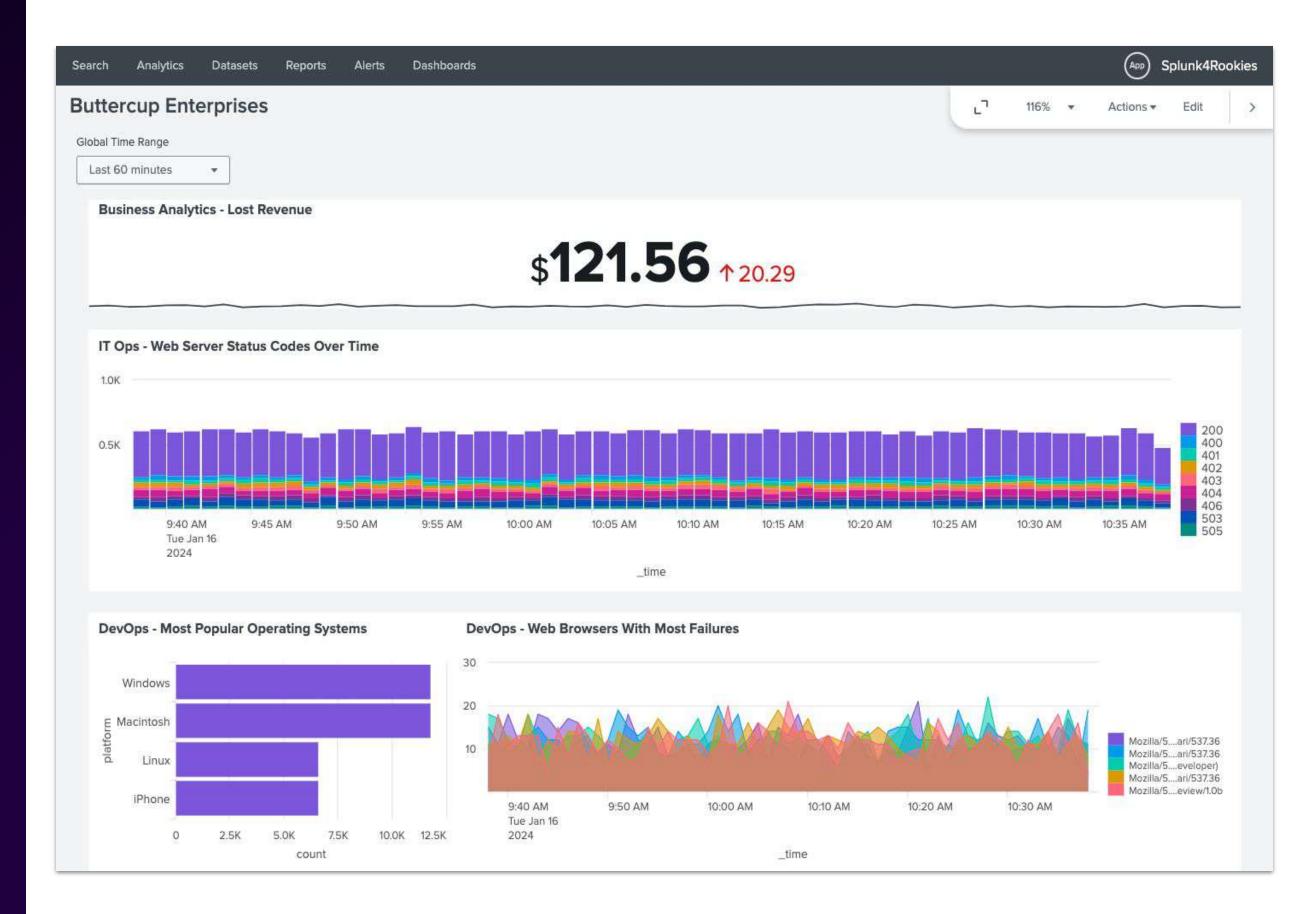


Your dashboard so far...

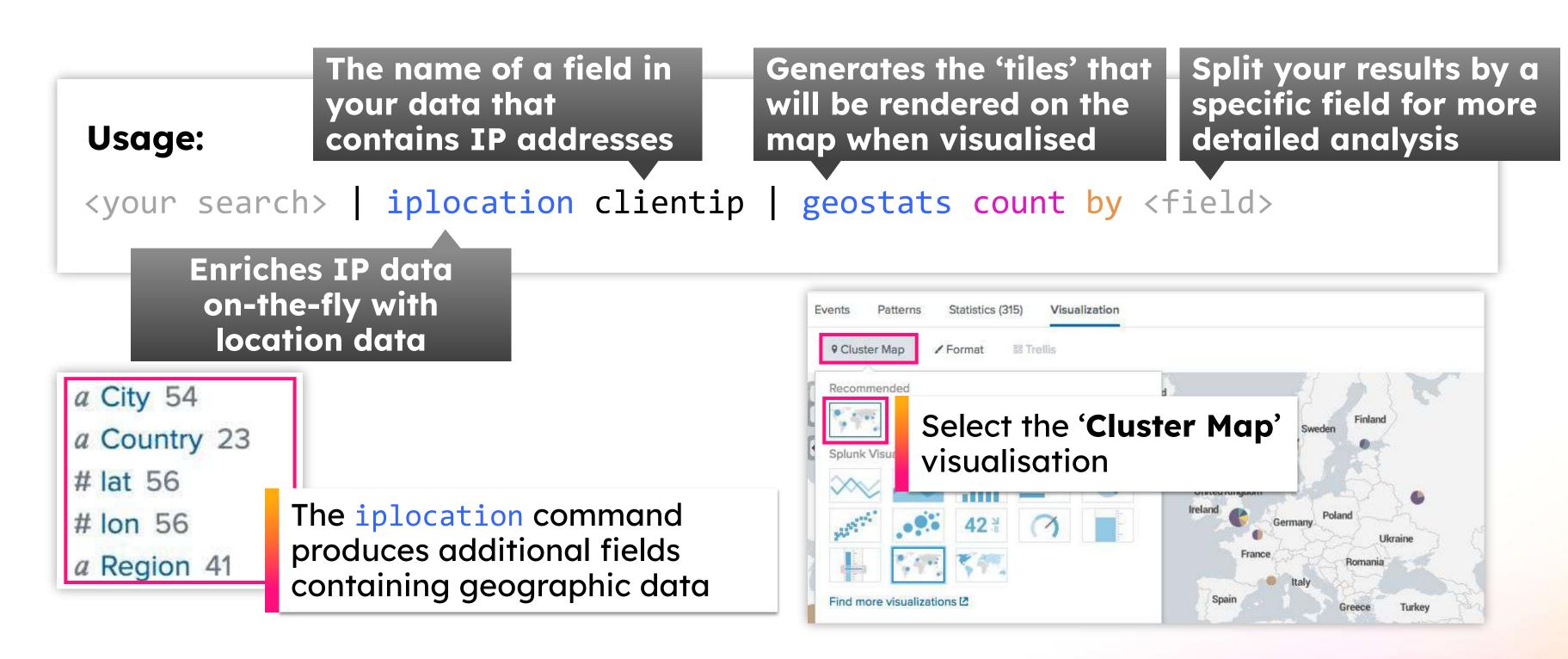








Obtaining Location Information with the iplocation and geostats Commands

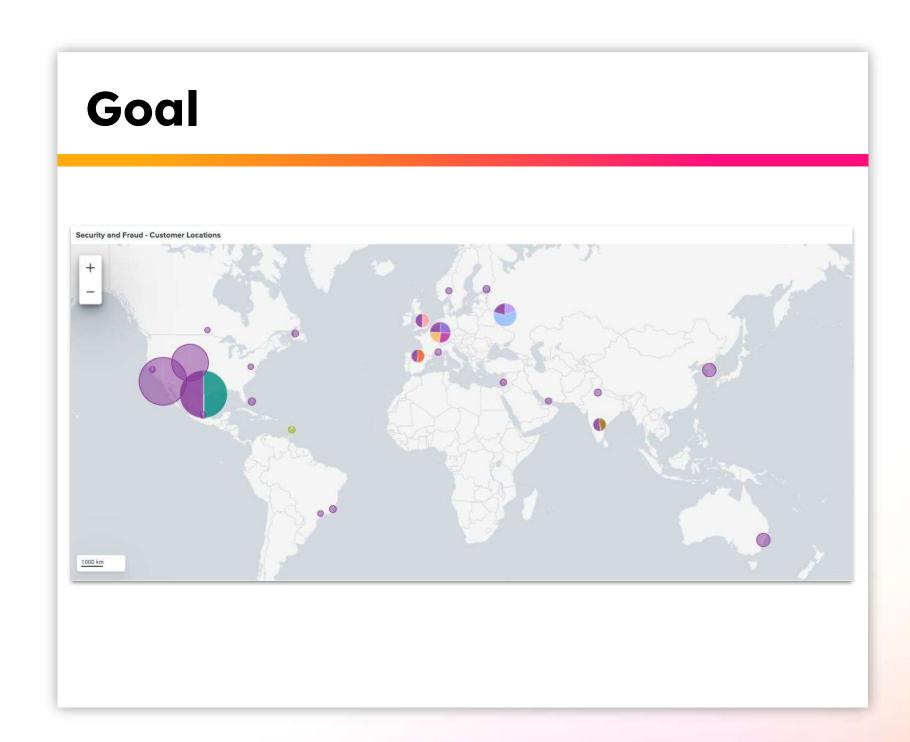


Security and Fraud Team

Show website activity by geographic location

Tasks

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



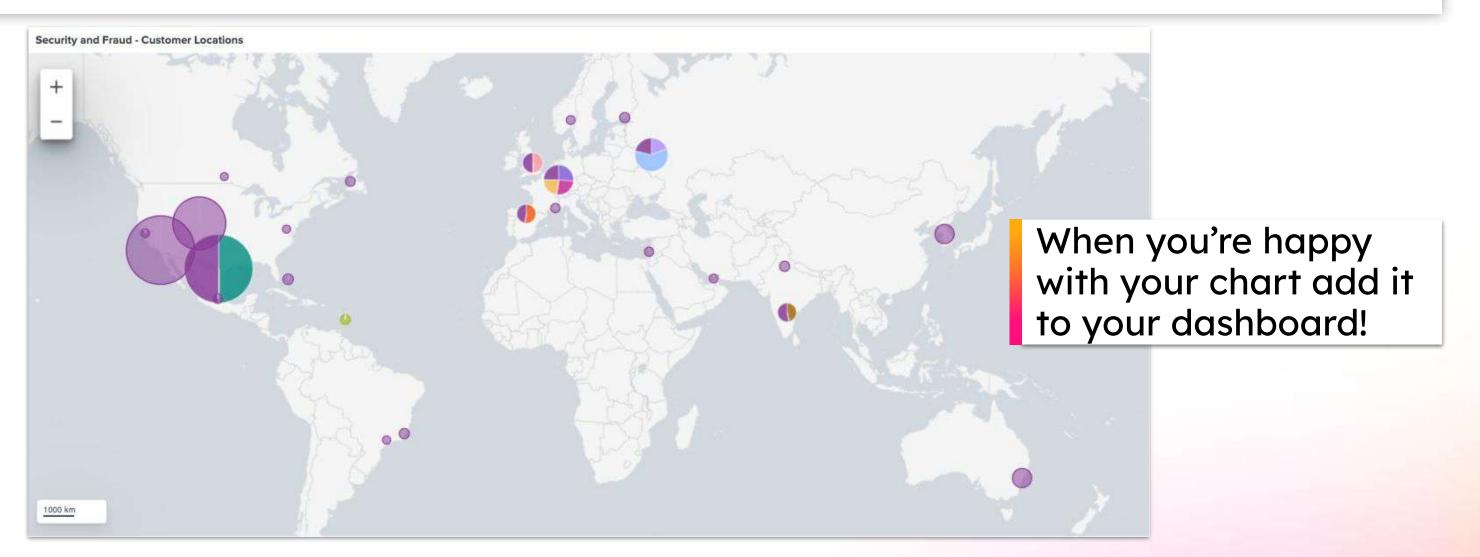


Security and Fraud Team

Show website activity by geographic location

Solution:

index=main sourcetype=access_combined
| iplocation clientip | geostats count by City



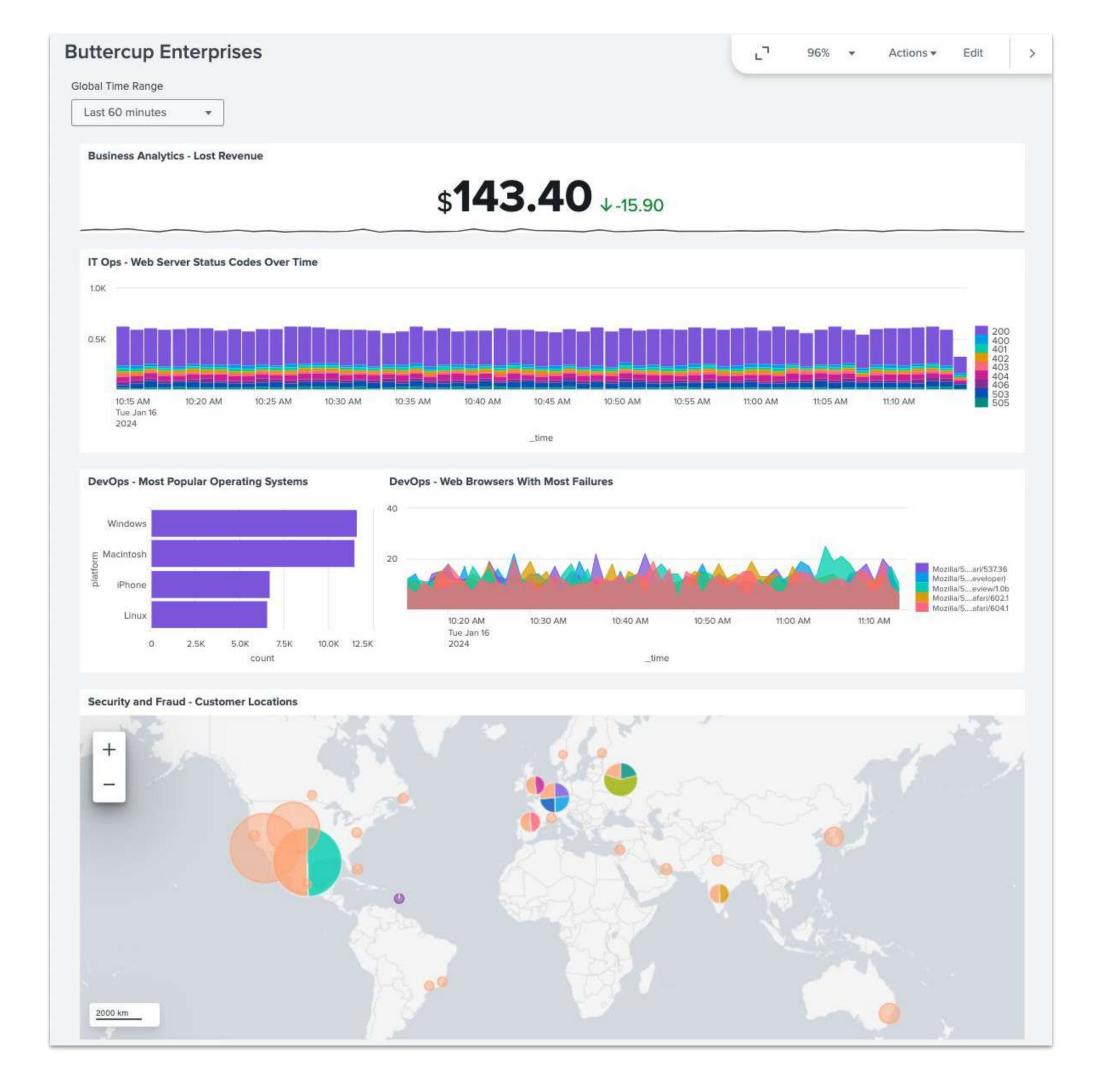
Your dashboard so far...





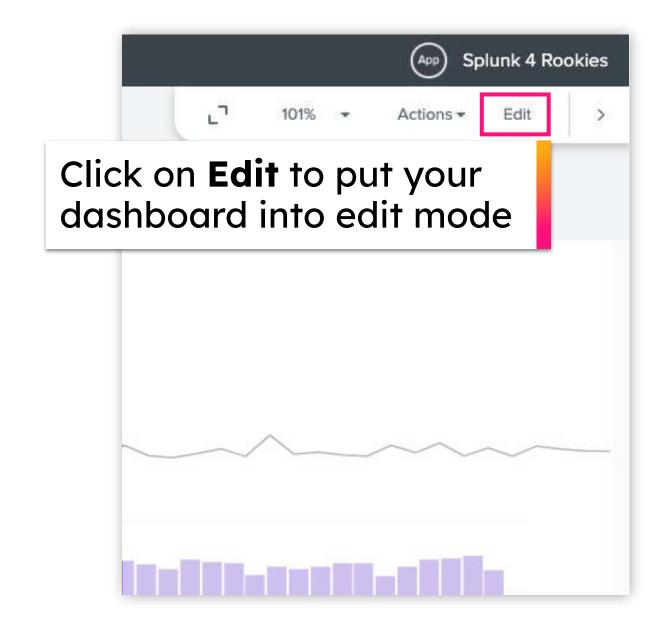


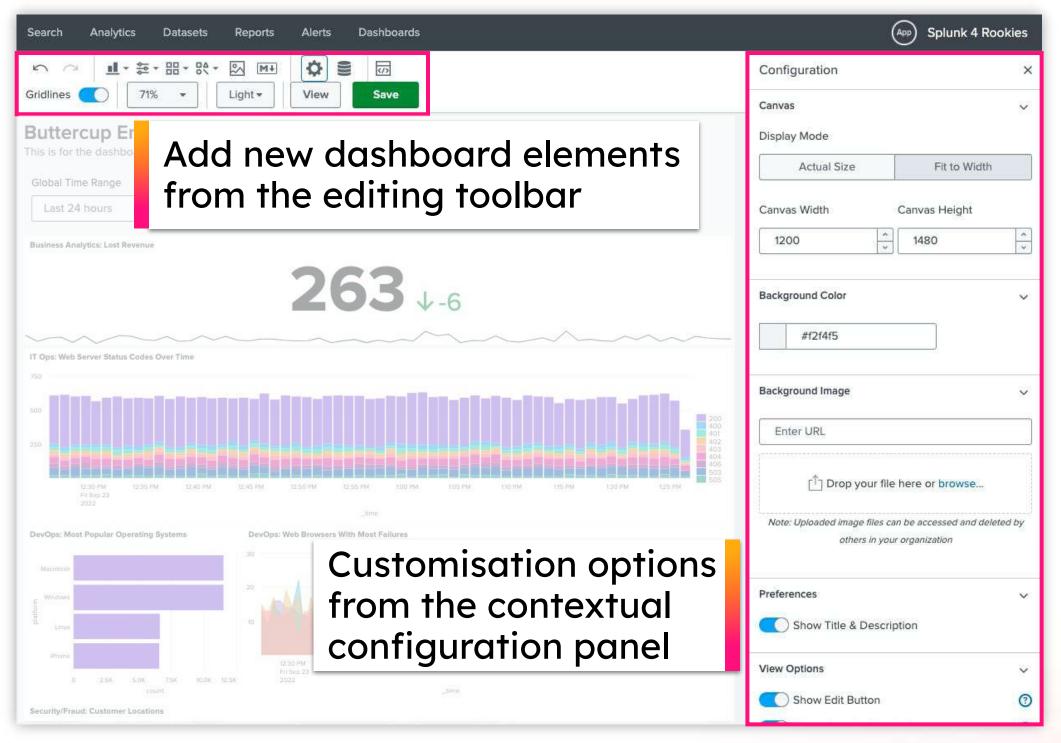






Customise Your Dashboard

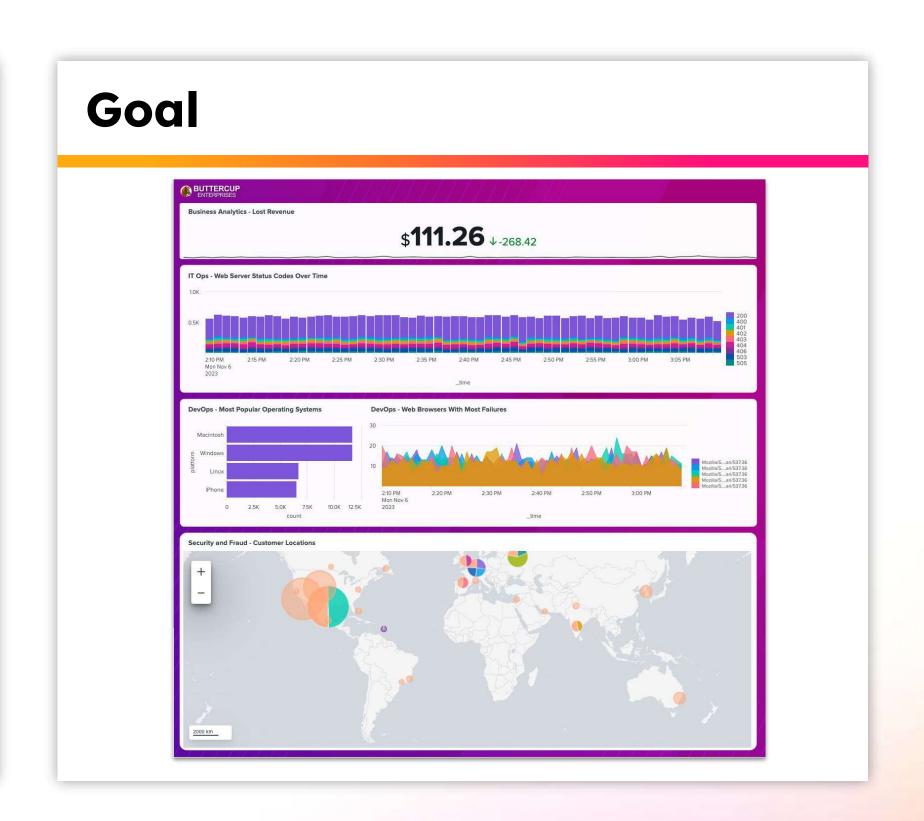




Customise Your Dashboard

Tasks

- Add a custom background image provided by the Buttercup Enterprises Marketing team (https://splk.it/ButtercupBackground)
- 2. Resize your dashboard panels to fit within the boxes on the background image
- 3. Link your dashboard panels to the global time picker



You've Finished the Hands-on Exercises!

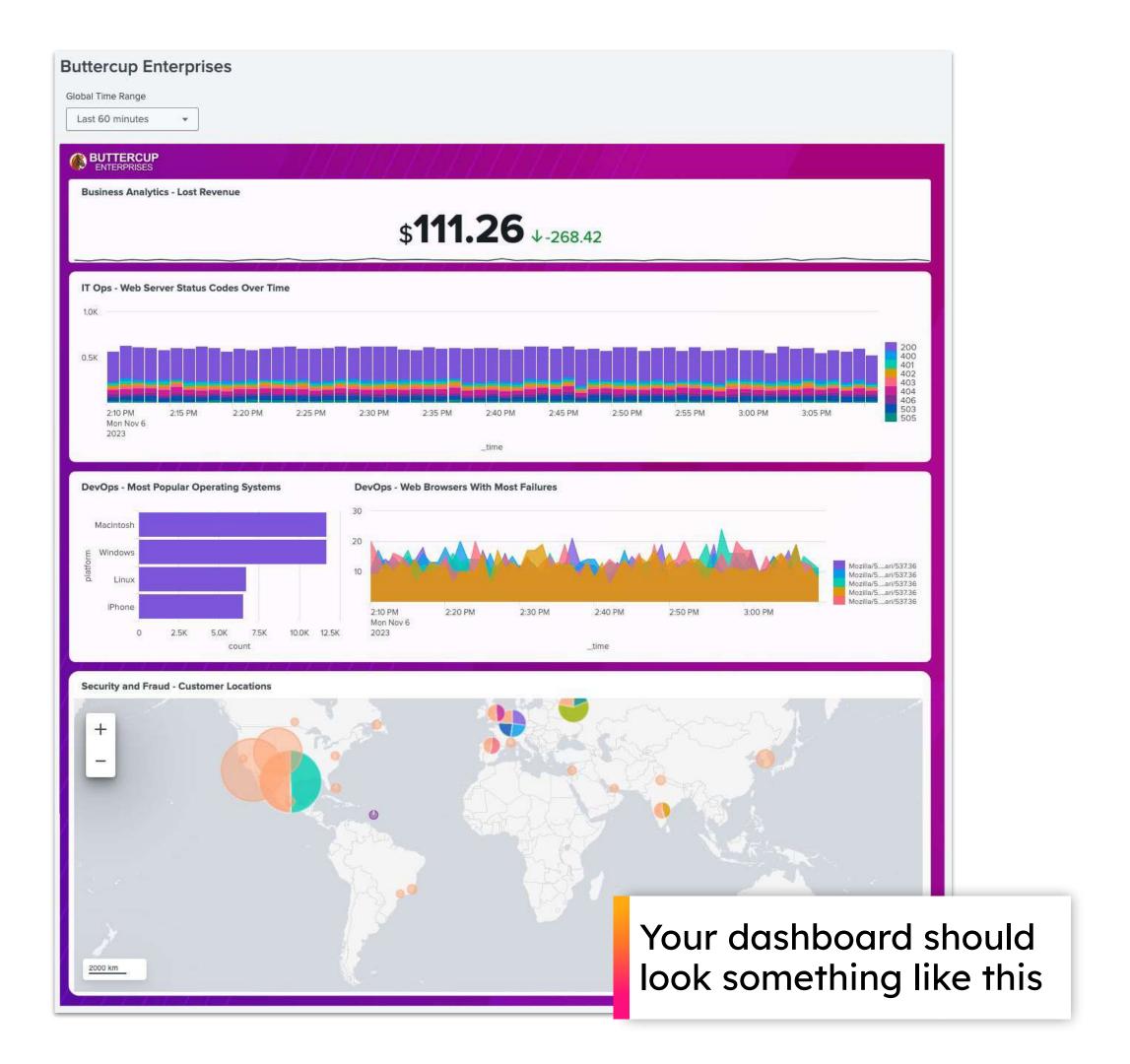












Splunk Resources

Where to go after today's workshop



Splunk Community

https://community.splunk.com

- Connect, learn, have fun, and find success with Splunk
- Ask questions, get answers, and find solutions from experts
- Meet in-person or virtually with like-minded enthusiasts
- Search for, vote on, or submit ideas for product enhancements



Splunk Answers >

Search the community

260K Members • 2,030 Online • 147K Posts

Welcome to the Splunk Community! Get started by visiting our <u>welcome hub</u> to learn more about the site. We're so glad you're here!

News & Education ➤ Community Lounge ➤ Apps and Add-ons ➤

Check out the Splunk Community Dashboard Challenge for a chance to win prizes



splunk > community

Getting Started

Learn more about the Splunk Community and how we can help



Community Blog

Community happenings, product announcements, and Splunk news



Splunk Answers

Troubleshoot problems
with help from the
community



User Groups

Meet up with other Splunk practitioners, virtually or in-person



Resources >

Office Hours

Webinar-style deep dives and workshops for hands-on guidance

Splunk Events

https://splunk.com/events

 Expand your network and connect with the global and local Splunk community



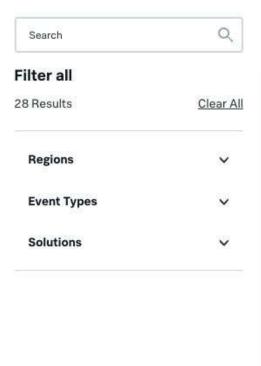
https://conf.splunk.com

- Join us at .conf!
- Hundreds of on-demand sessions from product updates to learning new Splunk skills!



Splunk Events

Join us at an event near you to gain new skills, expand your network and connect with the Splunk Community.



Featured Events







Upcoming Events

Documentation

https://docs.splunk.com

- Search reference for SPL
- Step-by-step tutorials Search:

https://splk.it/SplunkSearchTutorial **Dashboard Studio:**

https://splk.it/SplunkDashStudioTutorial

- Product references
- Procedures/guides
- And more!



Products v

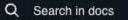
Solutions v

Why Splunk? v

Resources v

Support v Q

Documentation



Splexicon the Splunk glossary



Platform

Splunk Cloud Platform Splunk® Enterprise Splunk Universal Forwarder Splunk® Data Stream Processor Splunk® Cloud Services



Security

Splunk Attack Analyzer Splunk Asset and Risk Intelligence

Splunk Enterprise Security Splunk® Mission Control

Splunk® SOAR (Cloud)

Splunk SOAR (On-premises)

Splunk® User Behavior Analytics

Splunk Security Essentials

Splunk Security Content

Show more >



IT Operations Overview

Splunk® IT Service Intelligence

Splunk® IT Essentials Work

Splunk® IT Essentials Learn

Splunk App for Content Packs

Splunk On-Call



Observability

Splunk® Observability Cloud Splunk® Infrastructure Monitoring Splunk® APM Splunk" Log Observer Connect

Splunk Real User Monitoring

Splunk® Synthetic Monitoring



Apps and add-ons

Splunk Supported Add-ons

Splunk® OpenTelemetry Collector for Kubernetes

Splunk® Add-on for OpenTelemetry Collector

Splunk Add-on Builder

Splunk Firehose Nozzle for VMware Tanzu

Splunk Connect for Kafka

Splunk Connect for Zoom

Splink Connected Evperiences



Developer tools

Splunk Add-on Builder

Splunk SDKs

Splunk® Web Framework

Splunk Lantern

https://lantern.splunk.com

- Use case library
- Product tips
- Step-by-step procedures
- Map use cases to data sources
- Splunk Success Framework to increase the value of Splunk across your organisation



Lantern Home

Documentation Community Training & Certification Support Portal User Groups . S



Splunk Lantern Customer Success Center

Let Splunk experts light your path toward gaining valuable data insights, achieving your key use cases, and managing Splunk more efficiently.

Click here to learn more.

Search



FEATURED: SPLUNK APM

Monitoring applications using OpenAl API and GPT models with OpenTelemetry and Splunk APM

By leveraging OpenTelemetry and Splunk Application Performance Monitoring, you can gain valuable insights into the performance of an AI assistant application and the effectiveness of different GPT models. The integration provides a comprehensive monitoring solution that ensures your application's FEATURED: EDGE PROCESSOR

Scaling Edge Processor infrastructure

There are a number of factors that can affect the required scale of your Splunk Edge Processor infrastructure, including changes in data volume, use cases, and pipline complexity. This article series looks at scaling Splunk Edge Processor using Amazon EKS.

FEATURED: MISSION CONTROL

Enhancing endpoint monitoring with threat intelligence

When investigating endpoints, SOC analysts need as much telemetry as possible because there are often many attack vectors in play. Using Splunk Mission Control or Splunk Enterprise Security provides you the most flexibility for configuring many threat intelligence sources to get you the information you need.

Developer Resources

https://dev.splunk.com

- Developer Guide
- API Reference
- Tutorials
- Downloads
 APIs, libraries, tools
- Code examples
- Free Developer licence

splunk>dev

Welcome to splunk>dev

Build apps that Turn Data into Doing ™ with Splunk.

Deliver apps and integrations that bring new kinds of data into the Splunk platform and deliver data-based insights, enabling users to investigate, monitor, analyze and act to make better and smarter decisions. Get started today.

Develop for Splunk Cloud and Splunk Enterprise

in the Splunkbase marketplace.

Build apps and integrations for Splunk Cloud and Splunk Enterprise, test in your free development Splunk platform instance, and deliver



Develop for Observability

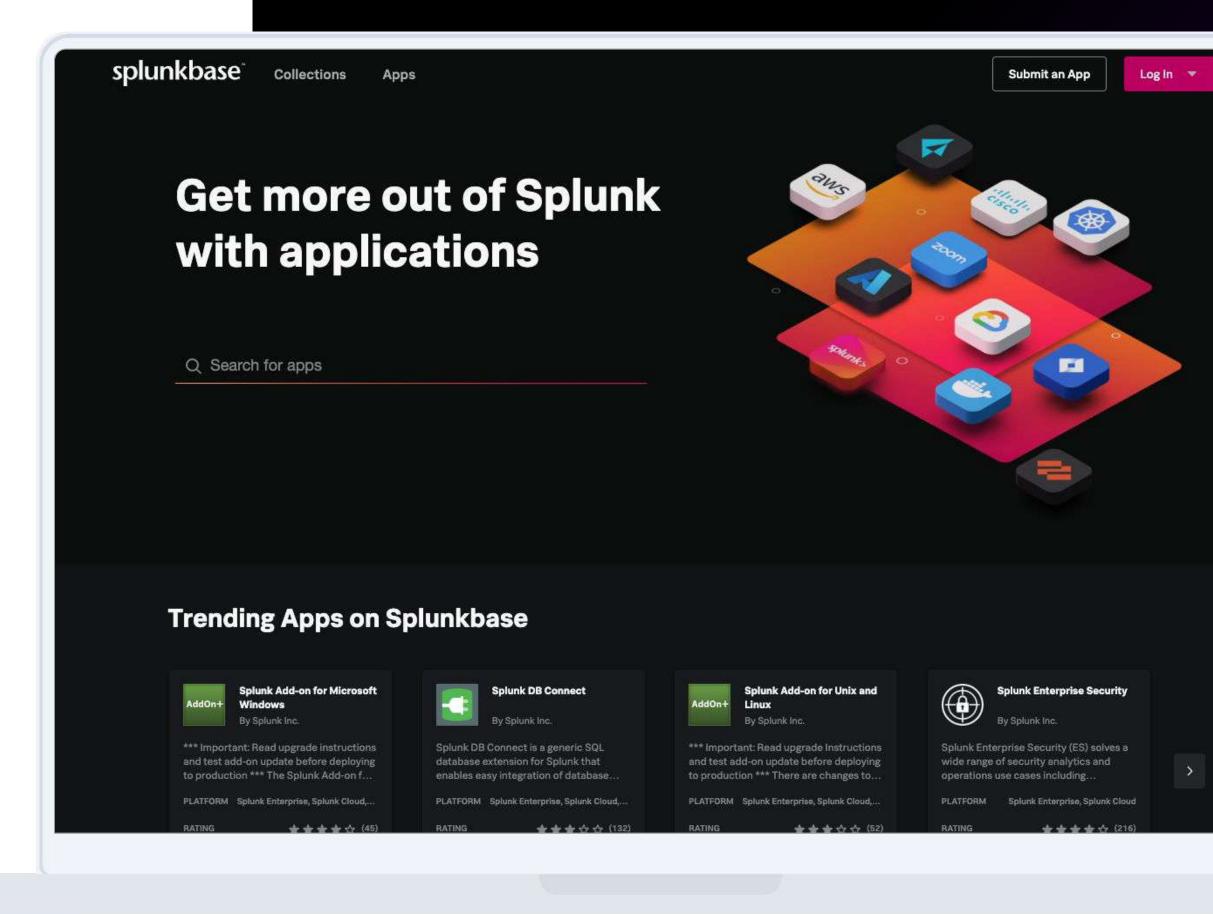


Manage, integrate with, and access features of your Splunk Infrastructure Monitoring organization with the API.

Splunk Apps & Add-ons

https://splunkbase.splunk.com

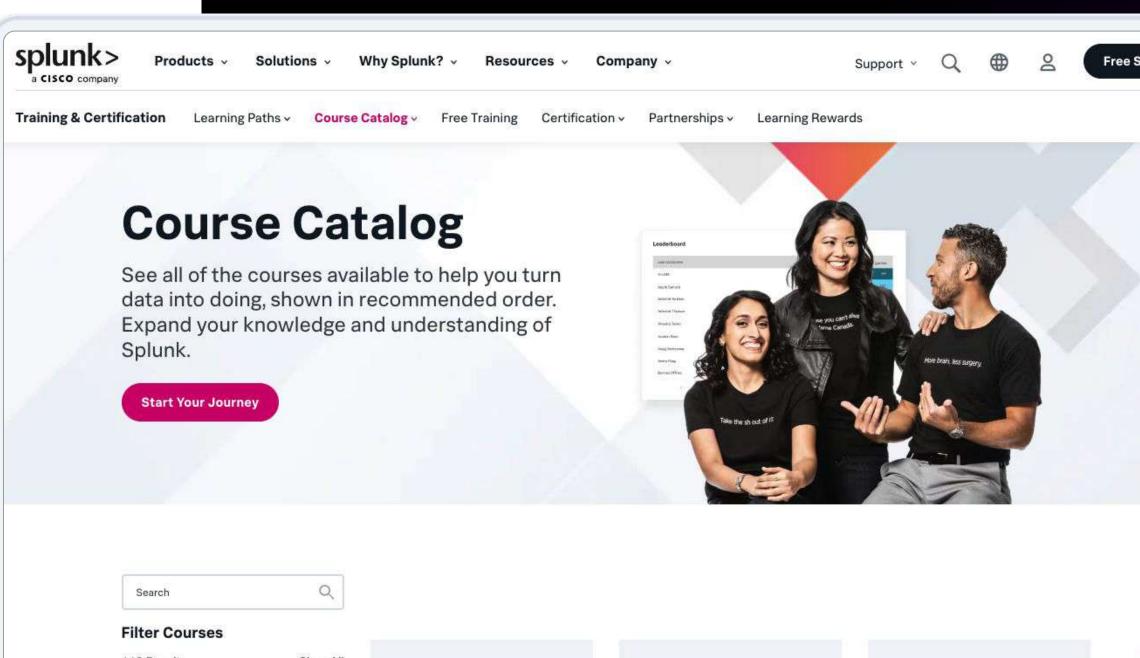
- 2100+ apps and add-ons
- Pre-built searches, reports,
 visualisations and integrations for
 specific use cases and technologies
- Download apps and customise them based on your requirements
- Fast time to value from your data
- Build and contribute your own apps!

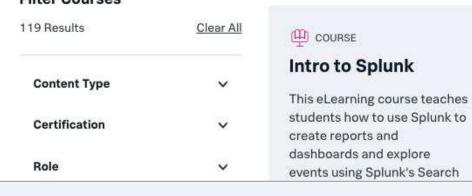


Training & Certification

https://splunk.com/training

- Online education classes
 Instructor-led and self-paced eLearning
- Certification tracks for different roles
 User, Power User, Admin, Architect and Developer
- Splunk Education Rewards
 Complete training and receive points
 that you can redeem for Splunk swag!
- Free education!
 Single-subject eLearning courses
 to kick start your Splunk learning





COURSE

Using Fields

This three-hour course is for power users who want to learn about fields and how to use fields in searches. COURSE

Scheduling Reports & Alerts

This eLearning course teaches students how to use scheduled reports and alerts to automate processes in their

Thank you

