



**splunk®**

# Splunking the DevOps Pipeline: A Buttercup Tale

# Matthew Modestino | ITOA Practitioner Doug Erkkila | Customer Success Manager

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.

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# Meet the Splunkers!

**Matt****ITOA Practitioner****Doug****Customer Success Manager**

# Buttercup Store

A microservices demo





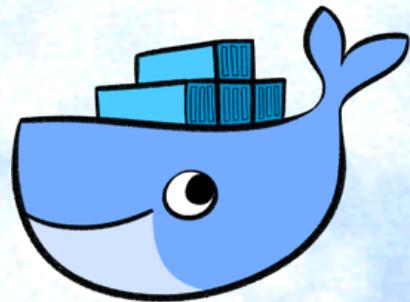
<http://buttercup.gotdns.com>



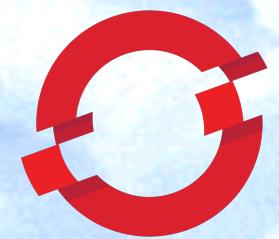
# The Landscape

A vast sea of adventure awaits you, Splunker





# Amazon EKS



# OPENSHIFT

# CNCF

## Cloud Native Computing Foundation



### Currently Hosted Projects

Graduated



Kubernetes

Orchestration



Prometheus

Monitoring



Incubating



OpenTracing

Distributed Tracing API



Fluentd

Logging



gRPC

Remote Procedure Call



containerd

Container Runtime



rkt

Container Runtime



CNI

Networking API





## CLOUD NATIVE TRAIL MAP

The Cloud Native Landscape [cnf.io](#) has a large number of options. This Cloud Native Trail Map is a recommended process for leveraging open source, cloud native technologies. At each step, you can choose a vendor-supported offering or do it yourself, and everything after step #3 is optional based on your circumstances.

### HELP ALONG THE WAY

#### A. Training and Certification

Consider training offerings from CNCF and then take the exam to become a Certified Kubernetes Administrator or a Certified Kubernetes Application Developer [cnf.io/training](#)

#### B. Consulting Help

If you want assistance with Kubernetes and the surrounding ecosystem, consider leveraging a Kubernetes Certified Service Provider [cnf.io/kcsp](#)

#### C. Join CNCF's End User Community

For companies that don't offer cloud

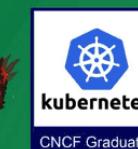
### 1. CONTAINERIZATION

- Commonly done with Docker containers
- Any size application and dependencies (even PDP-11 code running on an emulator) can be containerized
- Over time, you should aspire towards splitting suitable applications and writing future functionality as microservices



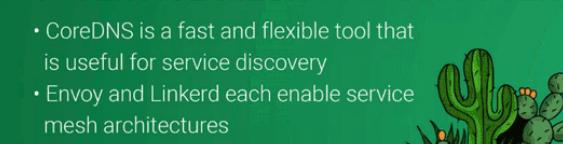
### 3. ORCHESTRATION & APPLICATION DEFINITION

- Kubernetes is the market-leading orchestration solution
- You should select a Certified Kubernetes Distribution, Hosted Platform, or Installer: [cnf.io/ck](#)
- Helm Charts help you define, install, and upgrade even the most complex Kubernetes application



### 5. SERVICE MESH AND DISCOVERY

- CoreDNS is a fast and flexible tool that is useful for service discovery
- Envoy and Linkerd each enable service mesh architectures



### 2. CI/CD

- Setup Continuous Integration/Continuous Delivery (CI/CD) so that changes to your source code automatically result in a new container being built, tested, and deployed to staging and eventually, perhaps, to production
- Setup automated rollouts, roll backs and testing

### 4. OBSERVABILITY & ANALYSIS

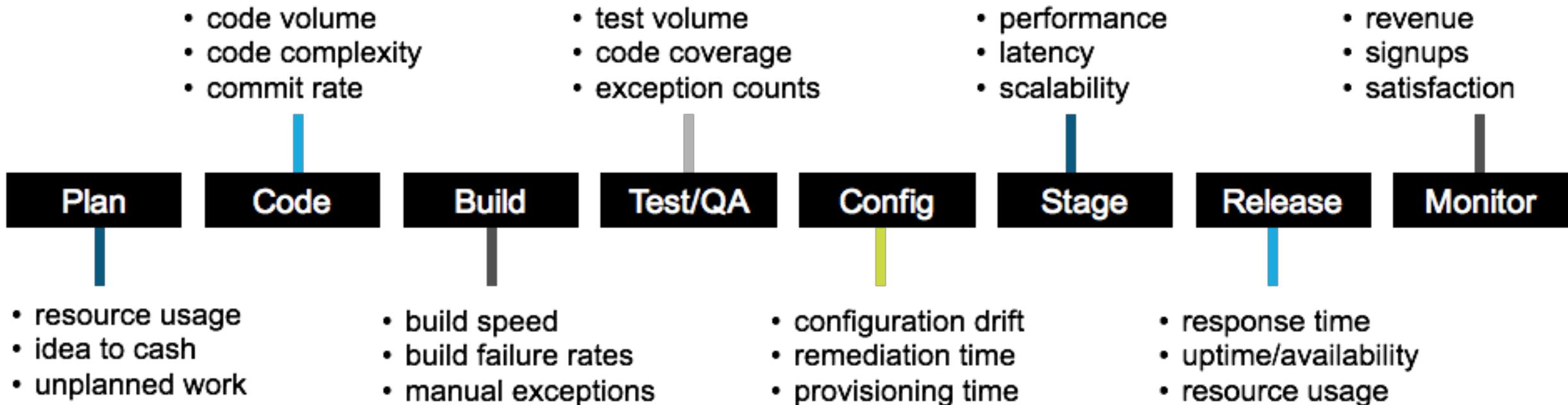
- Pick solutions for monitoring, logging and tracing
- Consider CNCF projects Prometheus for monitoring, Fluentd for logging and Jaeger for Tracing
- For tracing, look for an OpenTracing-compatible implementation like Jaeger







# Splunk Provides Analytics At Every Phase of The Product Delivery Lifecycle



**splunk> Platform for turning machine data into answers**

# Got Splunk? Get TAs and Apps for Dev and Ops!

- ▶ Enable collaborative troubleshooting and knowledge sharing across roles

## Add-Ons for DevOps Processes and Development Tools

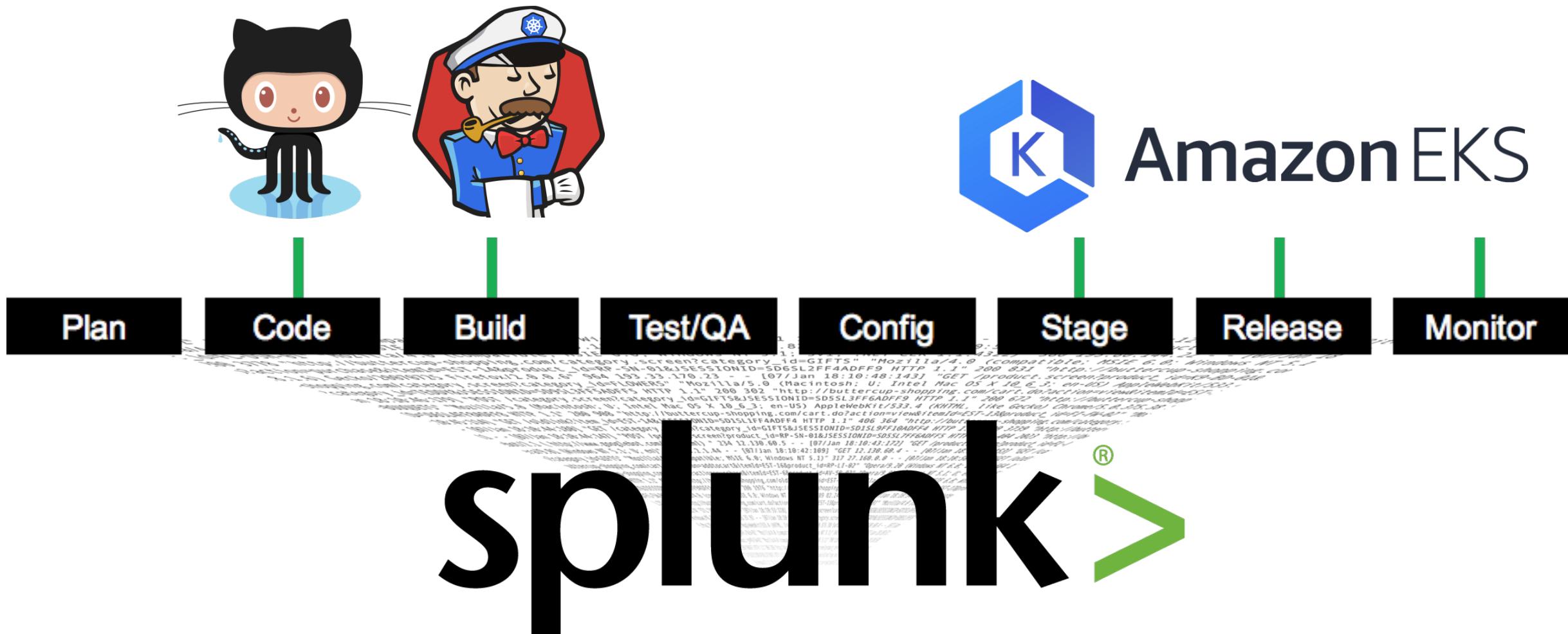


## Operational Intelligence for On-Premises, Cloud, and Mobile Operations



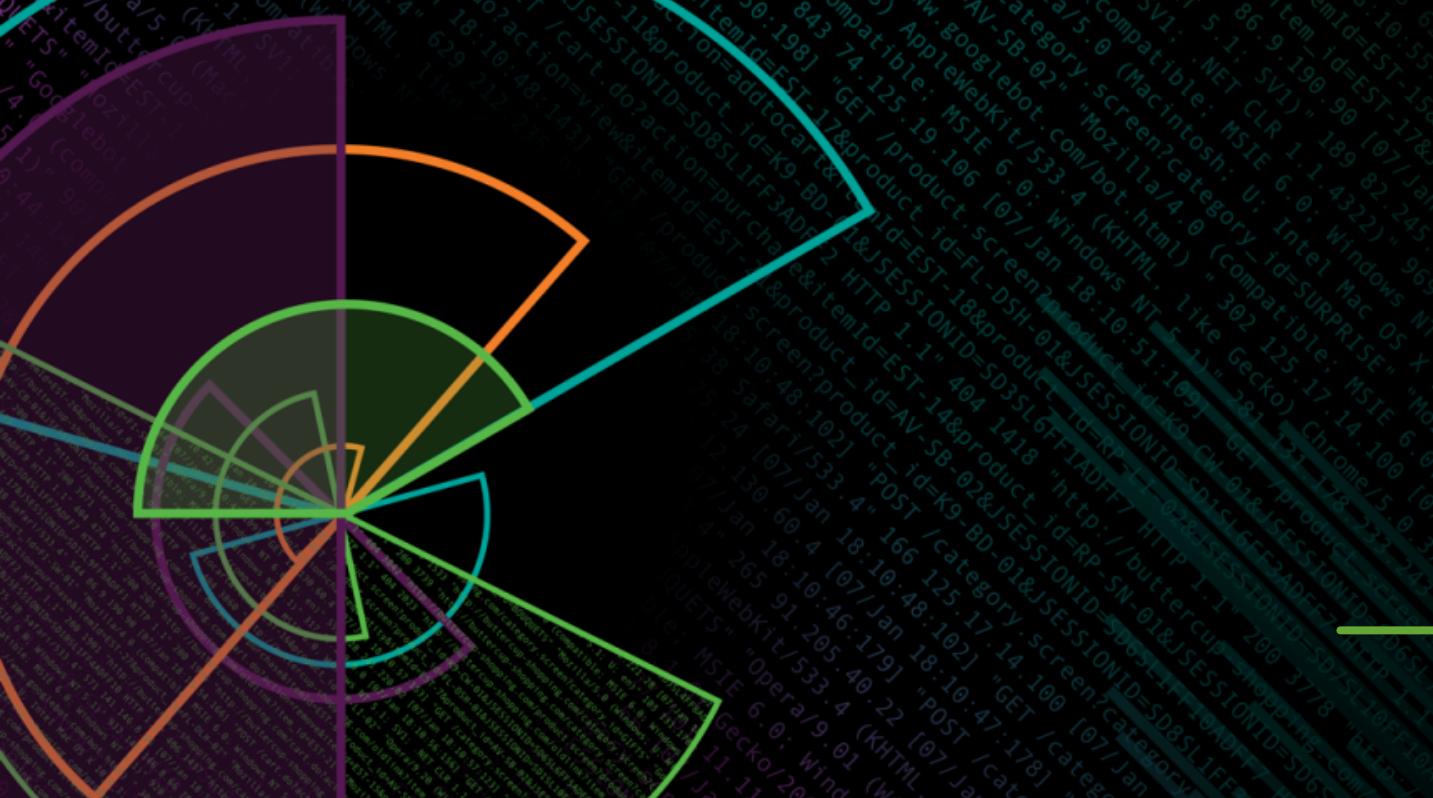
**splunk >**





# Code

## Splunk for Code Analytics



# Splunk for DevTeam & Code Analytics

## Github



Screenshot of a GitHub repository settings page for `matthewmodestino / buttercup_store`.

The repository was forked from `derkkila/buttercup_store`. The `Settings` tab is active.

**Repository name:** buttercup\_store (Renamed)

**Features:**

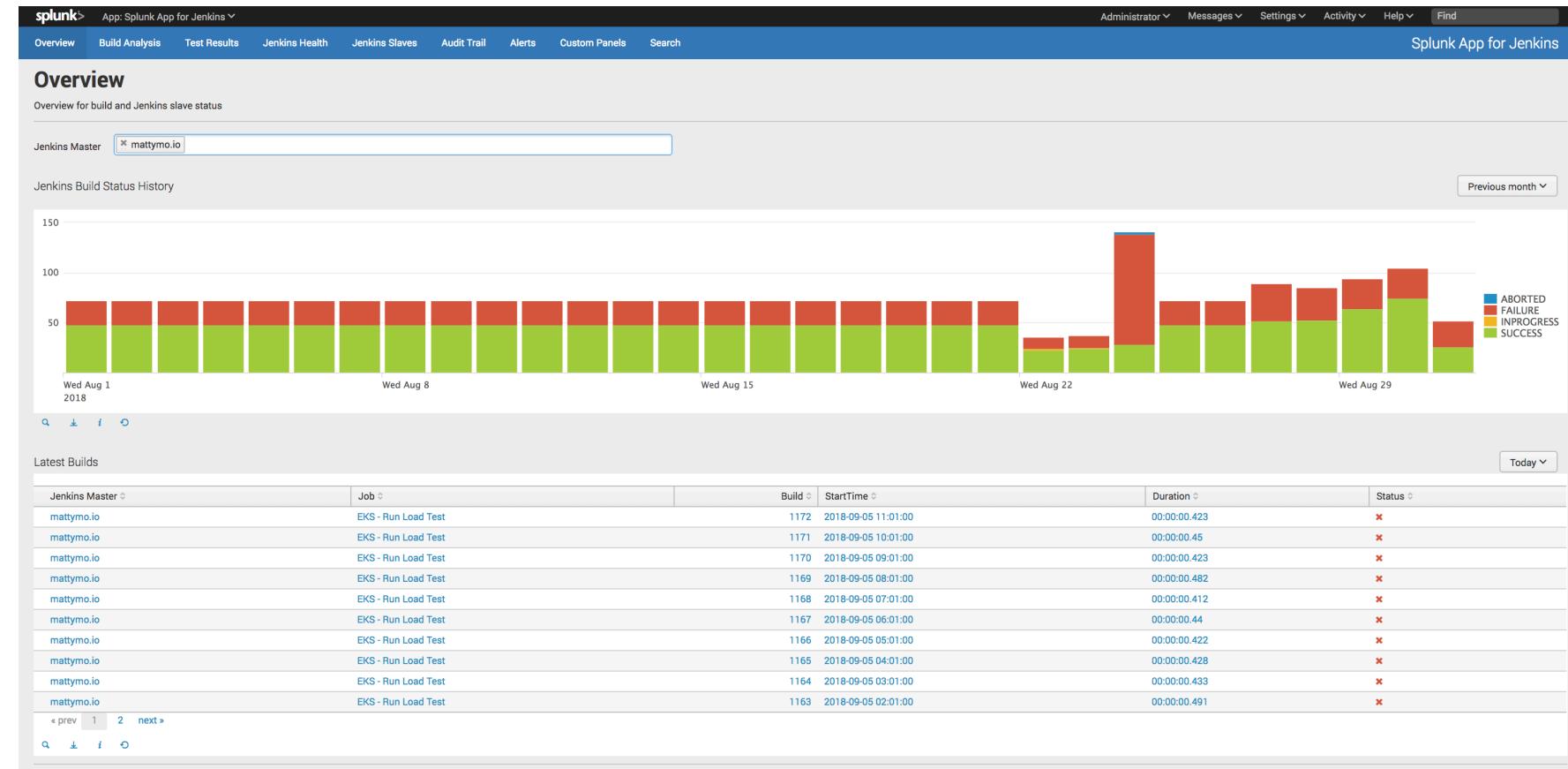
- Wikis**: GitHub Wikis is a simple way to let others contribute content. Any GitHub user can create and edit pages to use for documentation, examples, support, or anything you wish.
- Restrict editing to collaborators only**: Public wikis will still be readable by everyone.

# Build

## Splunk for Build Analytics

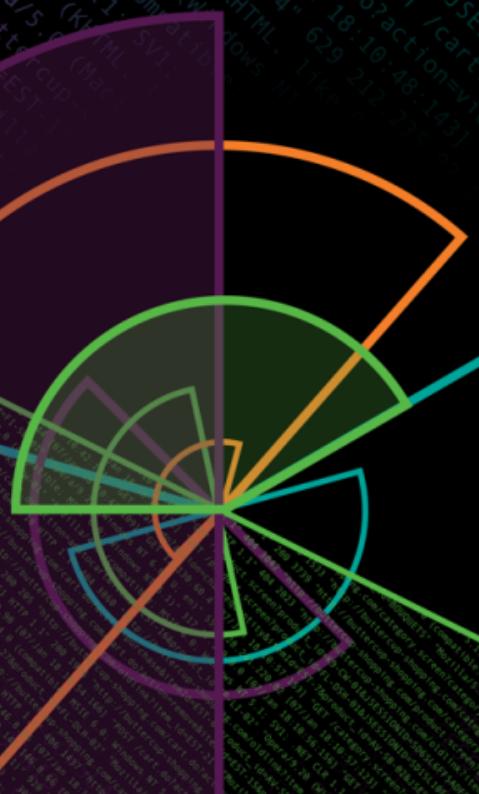
# Splunk for Build Analytics

## Jenkins



# Deploy & Operate

## Splunking EKS



# Splunk for Kubernetes Infrastructure

## Kubernetes



Amazon  
EKS

Screenshot of a GitHub repository page for `splunk / splunk-connect-for-kubernetes`.

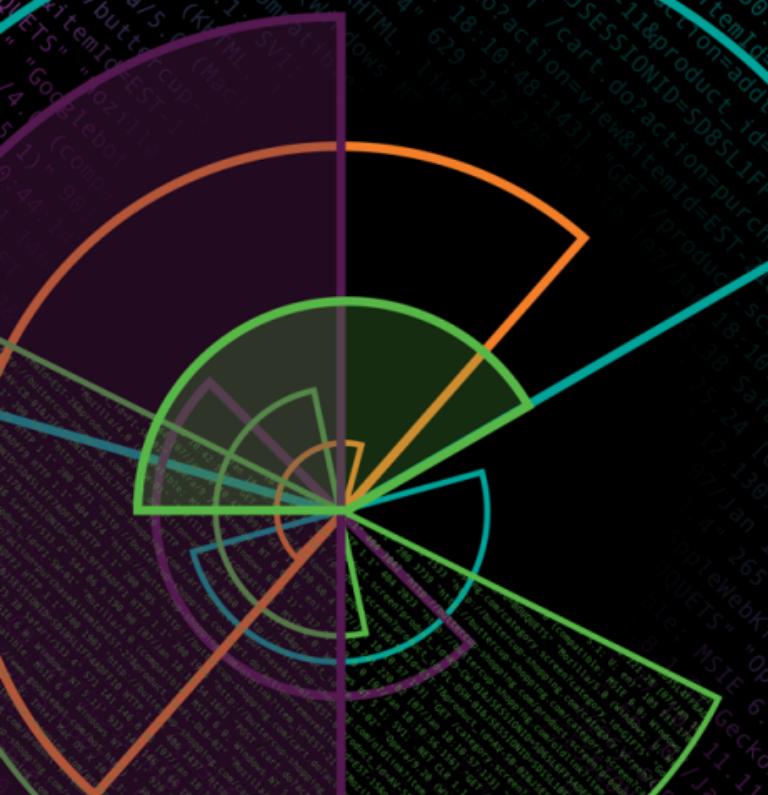
The repository has 65 commits, 8 branches, 7 releases, and 3 contributors. The license is Apache-2.0.

Recent commits:

File	Description	Date
helm-chart	Make dependency charts optional, fixes #26 (#27)	a month ago
manifests	Updated manifests.	2 months ago
tools	Reorganized structure.	4 months ago
.gitignore	Added back `_helpers.tpl`, fixes #13.	3 months ago
CONTRIBUTING.md	Added LICENSE.	4 months ago
CONTRIBUTORS.md	Added LICENSE.	4 months ago
LICENSE	Added LICENSE.	4 months ago
Makefile	Reorganized structure.	4 months ago
README.md	Update README.md	a month ago

# Answering the Call!

VictorOps ftw!



# Splunk + VictorOps

## VictorOps



Screenshot of the Splunk + VictorOps integration interface:

The interface shows a top navigation bar with Timeline, Settings, Reports, Help, and a user dropdown for Matthew Modestino (@mmodestino). On the left, a sidebar titled "People" lists "Teams", "Users" (selected), and filters for "On-call", "Engaged", "Teammates", and "All Users". It displays two user cards: "Matthew Modestino @mmodestino" and "Doug Erkkila @derkkila Example".

The central "Timeline" section displays four recent commits from "Splunk, Inc" with their timestamps and commit details:

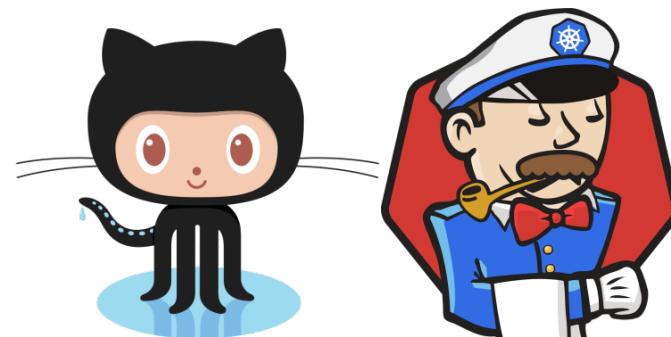
- Aug. 31 - 1:00 PM: Info: Splunk Alert: Commit Alert  
New Commit: Message: edit product URL removed internal cluster dns Committer: [Alert Payload](#)
- Aug. 31 - 12:50 PM: Info: Splunk Alert: Commit Alert  
New Commit: Message: Update delete status Committer: [Alert Payload](#)
- Aug. 31 - 12:00 PM: Info: Splunk Alert: Commit Alert  
New Commit: Message: Added Order Delete Method Committer: [Alert Payload](#)
- Aug. 31 - 10:30 AM: Info: Splunk Alert: Commit Alert  
New Commit: Message: Wrong order id Committer: [Alert Payload](#)

The right side of the interface is the "Incidents" panel, which includes fields for "Create New Incident" (Monitor Type: Manual, Created By: Matthew Modestino), "Send To" (Search for Escalation Policies and Users), "Incident Description", "Incident Body", and buttons for "Cancel" and "Create".

# Executive View

## Service & Event Management for Buttercup





# Amazon EKS

Plan      Code      Build      Test/QA      Config      Stage      Release      Monitor

splunk®>

# Q&A

Matthew Modestino | @mattymo  
Doug Erkkila | @derkkila  
[splk.it/slack](http://splk.it/slack)

# Looking for More?

# Links To More Great Content!



Buttercup Store Microservices Demo

Repo: [https://github.com/derkkila/buttercup\\_store](https://github.com/derkkila/buttercup_store)

VictorOps

<https://victorops.com/>

Splunk Connect for Kubernetes

Repo: <https://github.com/splunk/splunk-connect-for-kubernetes>

Blog: <https://www.splunk.com/blog/2018/07/19/splunk-connect-for-kubernetes-on-eks.html>

Splunk App for Jenkins:

<https://splunkbase.splunk.com/app/3332/>

Splunk App for Infrastructure:

<https://splunkbase.splunk.com/app/3975/>

# Thank You

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



# Two Column Text Layouts

This is where the subtitle goes

- ▶ First level bullets should be sentence case, 24pt
  - Second level bullets, 20pt
  - Third level bullets, 20pt
    - Fourth level bullets, 16pt

Fifth level tab is for highlighted text, 20pt

**Sixth level tab is for highlight content, 28pt, Bold**

- ▶ First level bullets should be sentence case, 24pt
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# Bullet Slide

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Fifth level tab is for highlighted text, 20pt

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Seventh level is for paragraphs with no bullets, 24pt

Eighth level is for paragraphs with no bullets, 20pt

Ninth level is for paragraphs with no bullets, 16pt

# Two Column Text Layouts

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# Comparison

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## Title, 24pt, Bold

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# Three Column Content

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# Key Takeaways

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# Three Column Content

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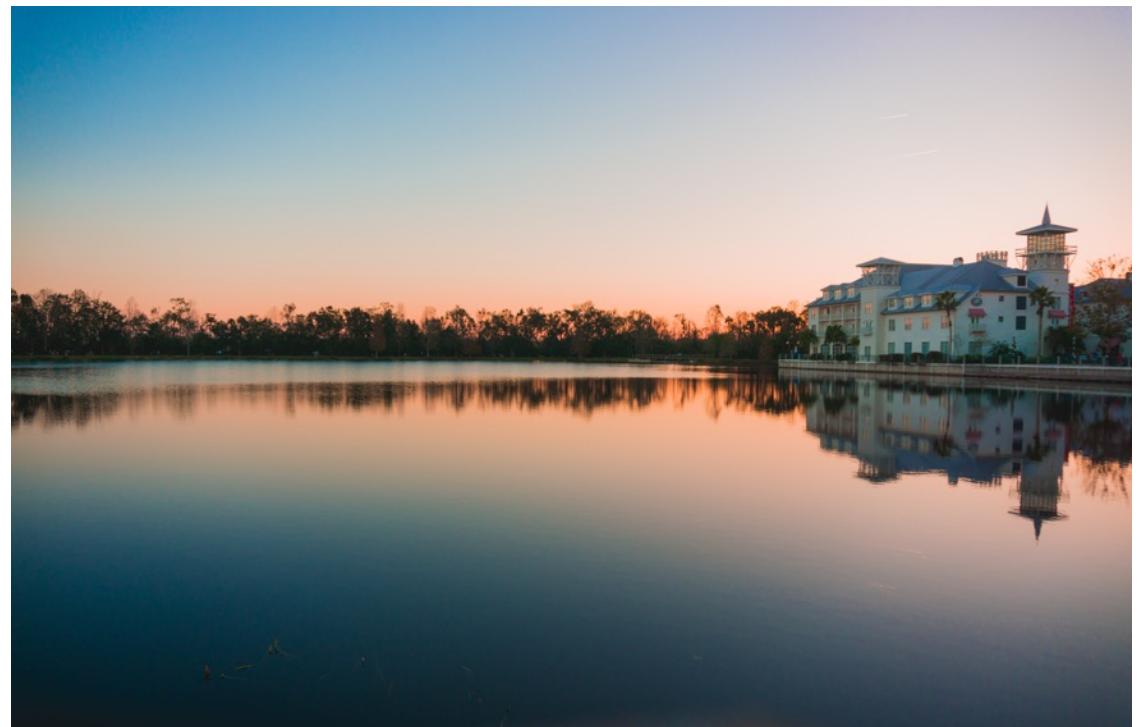
# Bullets and Content

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# Join the Pony Poll



[ponypoll.com/\\*\\*\\*](http://ponypoll.com/)

# Bullets and Content

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# Three Column Quotes

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# Three Column Quotes

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# Title and Subtitle Only

# This is where the subtitle goes

# Title and Subtitle Only

# This is where the subtitle goes

# Title and Subtitle with No Footer Graphic

This is where the subtitle goes

“ Quotes are more impactful when you selectively highlight key terms.”

Source information here

# Screenshot and Content

This is where the subtitle goes

2017 Predictions

Splunk visionaries predict the technology and trends to watch in 2017

Read Predictions   Get the 2017 Predictions e-book   Ask an Expert

What Is Splunk?

You see servers and devices, apps and logs, traffic and clouds. We see data—everywhere. Splunk® offers the leading platform for Operational Intelligence. It enables the curious to look closely at what others ignore—machine data—and find what others never see: insights that can help make your company more productive.

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# Screenshot and Title

This is where the subtitle goes



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Just ask.

# Screenshot and Title

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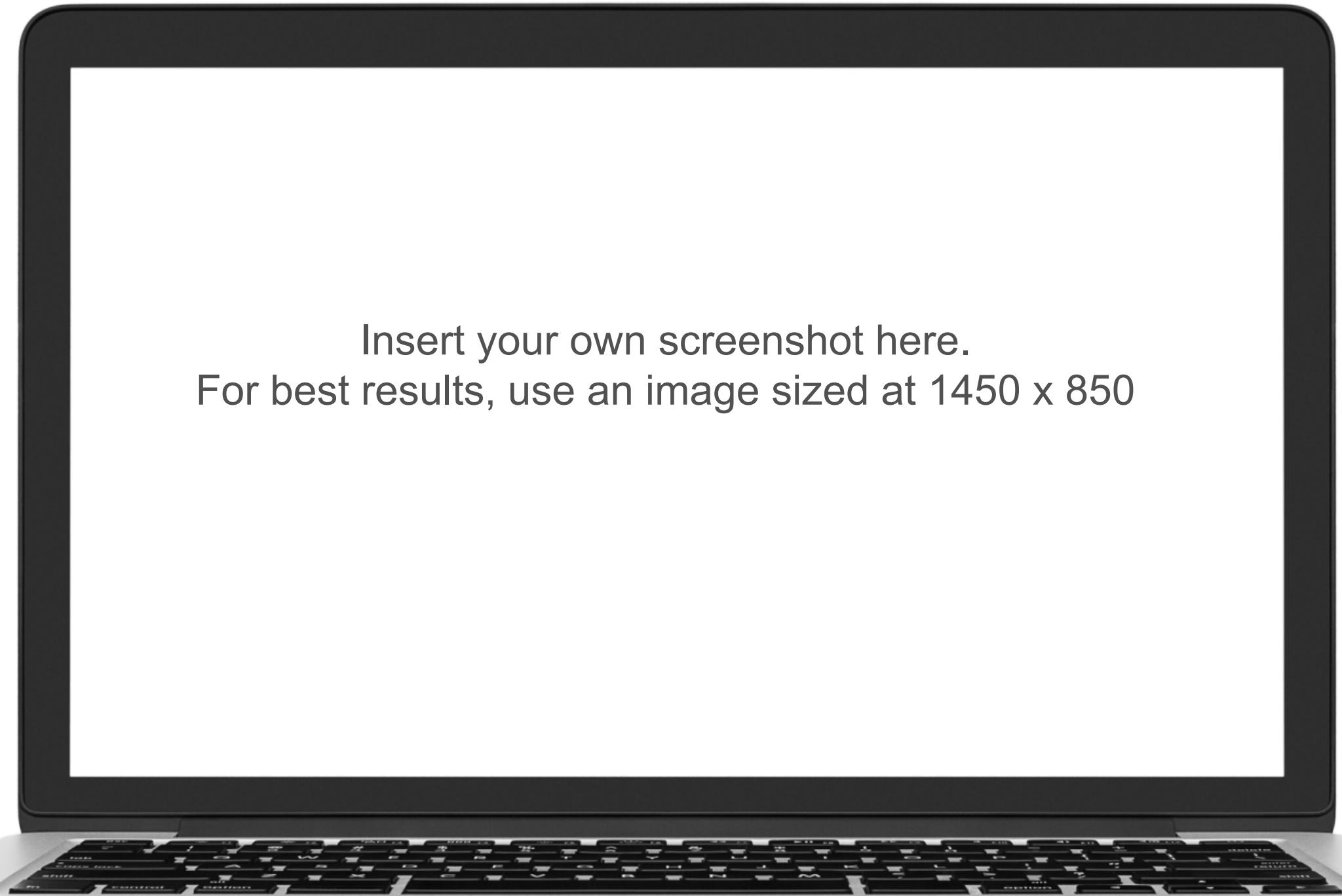


## What Is Splunk?

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Next Step

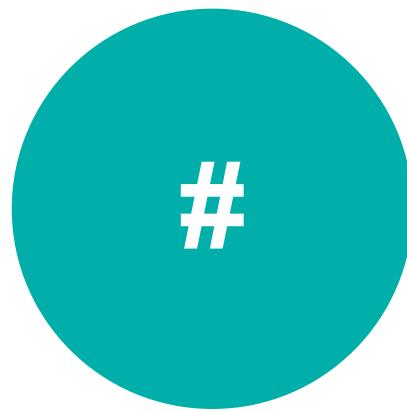
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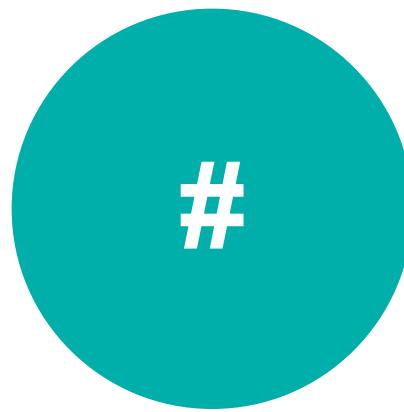
Insert your own screenshot here.  
For best results, use an image sized at 1450 x 850

# Big Stats and Supporting Text

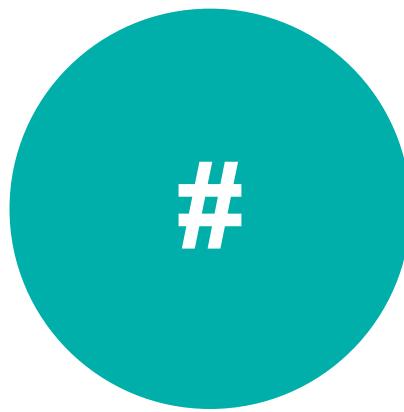
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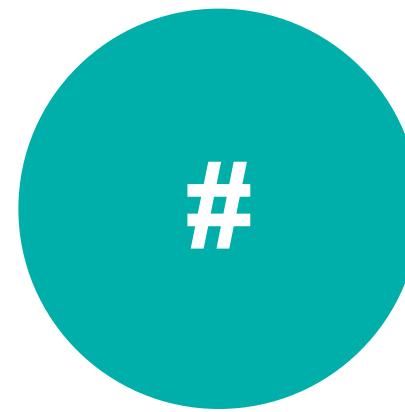
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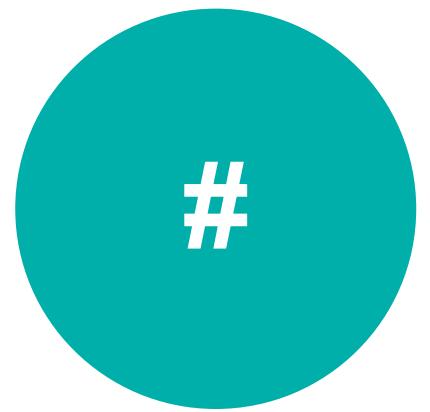
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Simply click  
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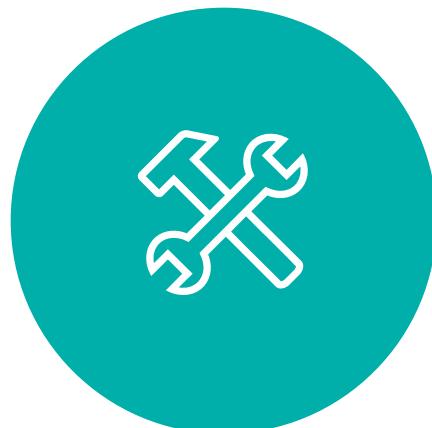
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# Four Icons with Supporting Text

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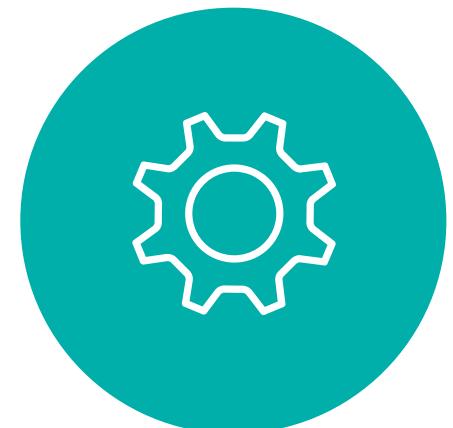
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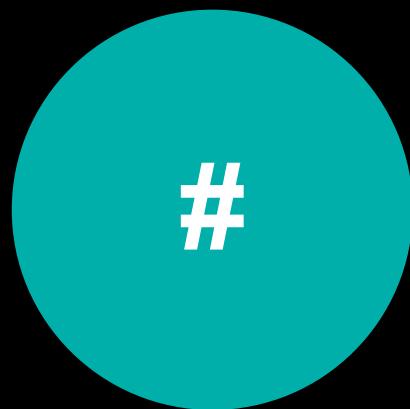
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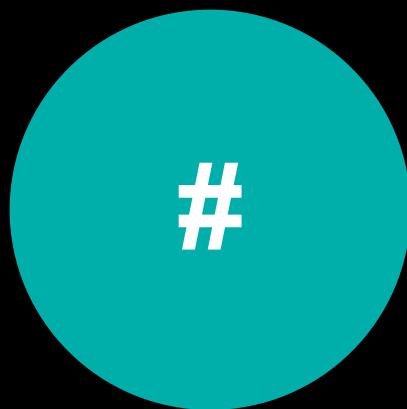
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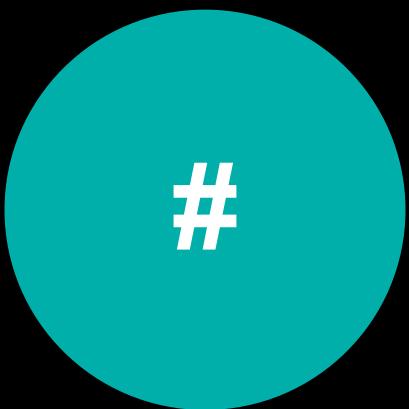
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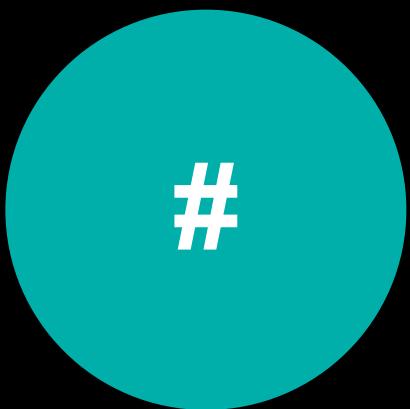
This layout  
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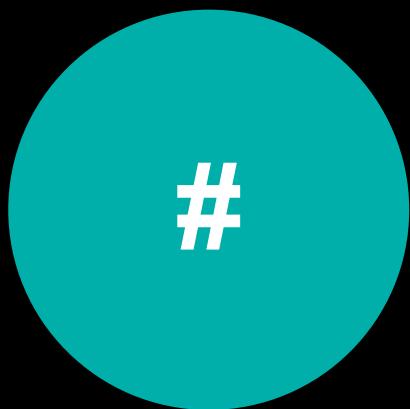
If you have  
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Simply click  
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# Choose delete



Delete one  
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# Three Icons with Supporting Text

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# Five Icons with Supporting Text

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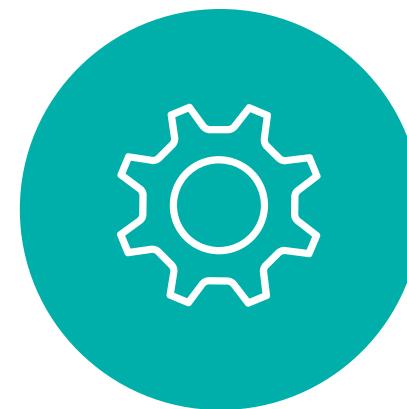
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# Three Icons with Supporting Text

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# Four Icons with Supporting Text

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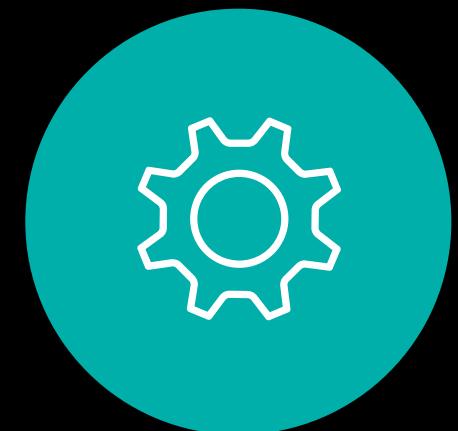
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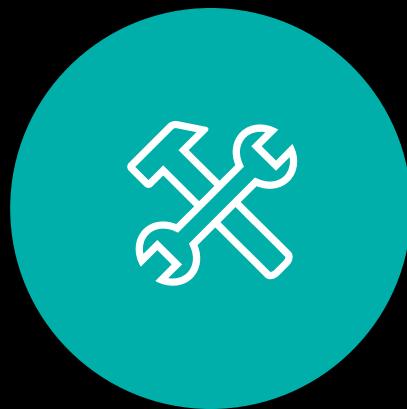
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# Five Icons with Supporting Text

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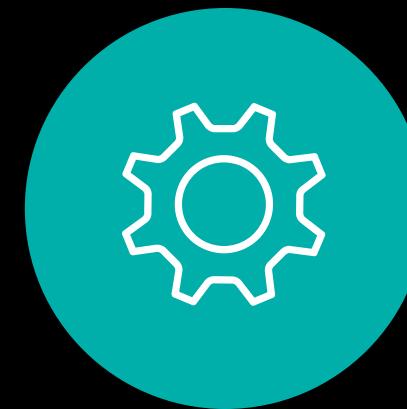
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# Making machine data accessible, usable and valuable to everyone.

# Thank You

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



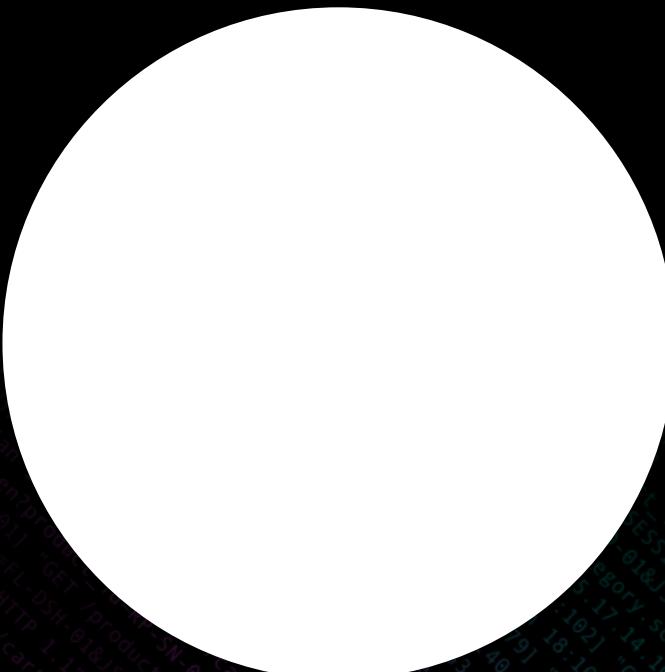
# Tracks and Sessions

New to Splunk	11:15 – 12:15	Splunk Overview	<b>Presenter Name</b> , Senior Sales Engineer, Splunk <b>Presenter Name</b> , Senior Sales Engineer, Splunk
	1:30 – 2:30	Getting Started with Splunk Enterprise ( <b>HANDS-ON</b> )	<b>Presenter Name</b> , Senior Sales Engineer, Splunk <b>Presenter Name</b> , Senior Sales Engineer, Splunk
	2:45 – 3:45	Data Onboarding	<b>Presenter Name</b> , Senior Sales Engineer, Splunk
IT Ops	11:15 – 12:15	Happy Apps, Happy Users: Using Splunk APM	<b>Presenter Name</b> , Senior Sales Engineer, Splunk <b>Presenter Name</b> , Senior Sales Engineer, Splunk
	1:30 – 2:30	Splunk Enterprise for IT Troubleshooting ( <b>HANDS-ON</b> )	<b>Presenter Name</b> , Senior Sales Engineer, Splunk
	2:45 – 3:45	How to Design, Build and Map IT and Business Services in Splunk	<b>Presenter Name</b> , Senior Sales Engineer, Splunk <b>Presenter Name</b> , Senior Sales Engineer, Splunk
Security	11:15 – 12:15	Build a Security Portfolio That Strengthens Your Security Posture	<b>Presenter Name</b> , Senior Sales Engineer, Splunk <b>Presenter Name</b> , Senior Sales Engineer, Splunk
	1:30 – 2:30	Building an Analytics Driven Security Operation Center using Splunk Enterprise Security	<b>Presenter Name</b> , Senior Sales Engineer, Splunk <b>Presenter Name</b> , Senior Sales Engineer, Splunk
	2:45 – 3:45	An End-To-End Approach: Detect via Behavior and Orchestrate via SIEM	<b>Presenter Name</b> , Senior Sales Engineer, Splunk <b>Presenter Name</b> , Senior Sales Engineer, Splunk
Advanced	11:15 – 12:15	The Power of SPL	<b>Presenter Name</b> , Senior Sales Engineer, Splunk
	1:30 – 2:30	Advanced Analytics and Machine Learning in Splunk	<b>Presenter Name</b> , Senior Sales Engineer, Splunk
	2:45 – 3:45	Ransomware Investigation and Prevention Strategies ( <b>HANDS-ON</b> )	<b>Presenter Name</b> , Senior Sales Engineer, Splunk <b>Presenter Name</b> , Senior Sales Engineer, Splunk

# BUTTERCUP SPLUNKER

Mascot, Internal Mischief

# Our Speakers



**BUTTERCUP SPLUNKER**

Mascot, Internal Mischief



**BUTTERCUP SPLUNKER**

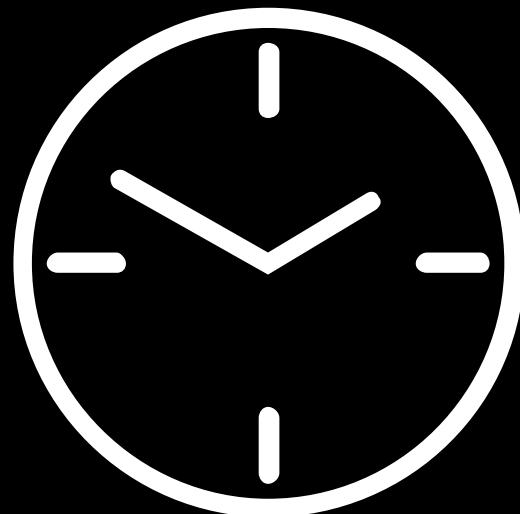
Mascot, Internal Mischief

MODERATED BY GREEN TRACKSUIT

# Splunk Demo

Presented by Buttercup Splunker

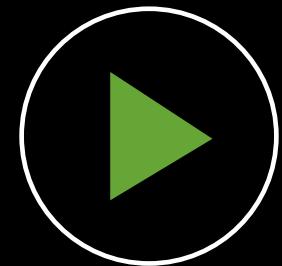




# BREAK 15 MINUTES

# Customer Logo Here

Please use an all-white image on a transparent background, like this Splunk logo: 



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# Q&A

Participant name | Role  
Participant name | Role

# Splunk Corporate Logo

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**Note:** The Splunk corporate logo should be used whenever you are referencing Splunk as a company. When you're representing the product, use the product logo (with the green > symbol).

# Splunk Corporate Logo

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**Note:** The Splunk corporate logo should be used whenever you are referencing Splunk as a company. When you're representing the product, use the product logo (with the green > symbol).

# Splunk Corporate Logo: One Color

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# Splunk Corporate Logo: One Color

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**Note:** The Splunk corporate logo should be used whenever you are referencing Splunk as a company. When you're representing the product, use the product logo (with the green > symbol).

# Splunk Product Logo: Two Color

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**Note:** The Splunk product logo should be used whenever you are referencing the product or its capabilities.

# Splunk Product Logo: Two Color

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**Note:** The Splunk product logo should be used whenever you are referencing the product or its capabilities.

# Premium Solutions Logos

Copy/paste these graphics to use in your own presentation



Splunk User Behavior  
Analytics™



Splunk User Behavior  
Analytics™



Splunk IT Service  
Intelligence™



Splunk IT Service  
Intelligence™



Splunk Enterprise  
Security™



Splunk Enterprise  
Security™

# Line and Shape Assets

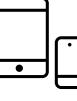
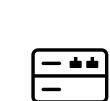
Copy/paste this graphic to use in your own presentations

Black background  
texture



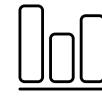
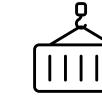
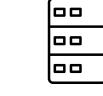
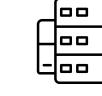
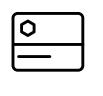
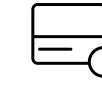
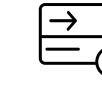
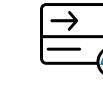
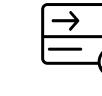
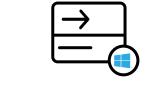
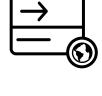
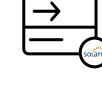
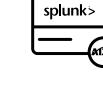
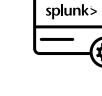
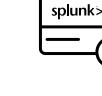
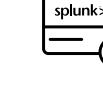
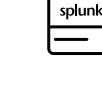
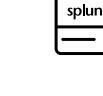
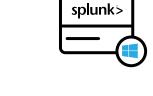
# Splunk Marketing Icons

Copy/paste these graphics to use in your own presentations

									
Custom Applications	OS	VM	APP OS	Applications	Energy Meters	Messaging	Databases	GPS Location	RFID
									
Call Detail Records	Web Services/Global	Security/Lock	Telecoms	Web Clickstreams	Online Services	Desktop	Laptop	Online Shopping Cart	Cell Phones and Devices
									
Servers	Networks	Networks Alt	Storage	On-Premise	Public Cloud	Private Cloud	Internet of Things	Active Directory	Search
									
Advanced Search	Analyze	Document	Folder	Log Files	Envelope	Splunk Server Database	Splunk Server	Server	Virtual Server

# Splunk Marketing Icons

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Servers	Hadoop Storage	Bar Chart	Pie Chart	Pie Chart Alt	Shipping Container	Enterprise Scale Platform	Gear	Gears / Setting	VoIP
									
Script	Mobile App	Mobile App Alt	Tag/Ticket	Galaxy Note	iPhone	Datacenter	Datacenters	iPad	Blackberry
									
Check Mark	Indexer	Forwarder	Search Head	Blank Database	Forwarder Database	Forwarder AIX	Forwarder FreeBSD	Forwarder Linux	Forwarder Windows
									
Forwarder Web	Forwarder OSX	Forwarder Solaris	Splunk Server AIX	Splunk Server Gearz	Splunk Server Linux	Splunk Server Network	Splunk Server Web	Splunk Server FreeBSD	Splunk Server Windows

# Splunk Marketing Icons

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Splunk Server  
Solaris



Splunk Server  
OSX



Splunk Server  
Search



Failed Splunk  
Server



Failed Server



Server License



Tools



Clock



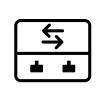
RSS



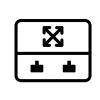
Send Arrow



Android



Network  
Switch



Router



Cloud Services  
Monitoring



Telephone



Facebook



Facebook Color



Twitter



Twitter Color



LinkedIn



LinkedIn Color



YouTube



YouTube Color



Healthcare



Info



Stop



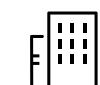
Calendar



Alert



Hospital



Office Building



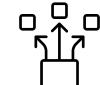
Process  
Analytics



Universal  
Collection



Wire Data



Load Balancing



Cycle



Customer  
Support



Customer  
Support Alt



Male



Female



Stacked  
Document/  
Documents

# Splunk Marketing Icons

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People



People Alt



Splunk People



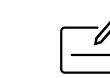
Splunk Male



Splunk Female



Meter



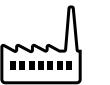
Signature Capture



POS Card Reader



EMV Card Reader



Factory



Electric Car



Shield



Footsteps



Malware Document



Malware



Malware Packaged



Security Server



Security Badge



Virus



Key



Firewall



Botnet



Attacker General



Attacker Insider



Attacker Nation/State



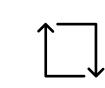
Real Time Monitoring



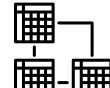
Detect Unknown Threats



Asset Lifecycle Management



Instant Pivot



Data Model



Fraud Detection

Product Analytics/  
Custom DashboardHost/  
Activity/SecurityOperational  
EfficiencyShield  
RevisedWaste  
Reduction

Monitoring

Environmental  
and Industrial

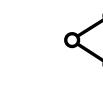
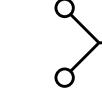
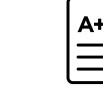
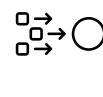
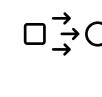
House



Innovate

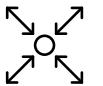
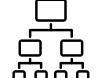
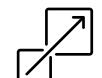
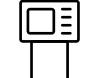
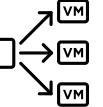
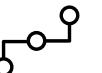
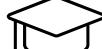
# Splunk Marketing Icons

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Mission Operations	Facilities and Assets	Warfighter	Vehicle Fleet	Vehicle Fleet Cloud	Share with Mission Partners	Collaboration	Data Management	Device Usage Analytics	DHCP/DNS
									
Disaster Relief	Campus Experience	Learning Management System	Machine learning	Learning Management	Emergency Management	Shared Services	Consolidation	Grades	Admissions
									
Admissions and Registration	Consolidation and Modernization	Consolidation and Modernization	Situational Awareness	Infrastructure	Public Services	IT Infrastructure	Campus Housing	Connected Campus + Smart Campus	Control Fraud Waste and Abuse
									
Dispatch Systems	Subway	Locomotive	Energy	Water	Vulnerability Scans	Transportation	Threat Intelligence	Package	Business Analytics

# Splunk Marketing Icons

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Badge/Pass	Tailored	Hourglass	Predictive Analytics	Satellite	Intrusion Prevention	Application Management	DevOps/Application Deployment	IT Operations	Adaptive Response
									
Automation or Operational Efficiency	Preventative Maintenance	Splunk Enterprise License	Aviation	New Developer Resources	Data Prep & Analysis	Filter Results	Parallel Processing	Scalable	Kiosk
									
Value Assurance	Trading Systems	Flexible	Platform	Hypervisor	Heart	Patient Generated Data	Healthcare App	CMDB	Service Monitoring
									
Cost Savings	Education	Threat PDF Stealing							

# Splunk Marketing Icons

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Custom Applications	OS	VM	APP OS	Applications	Energy Meters	Messaging	Databases	GPS Location	RFID
Call Detail Records	Web Services/Global	Security/Lock	Telecoms	Web Clickstreams	Online Services	Desktop	Laptop	Online Shopping Cart	Cell Phones and Devices
Servers	Networks	Networks Alt	Storage	On-Premise	Public Cloud	Private Cloud	Internet of Things	Active Directory	Search
Advanced Search	Analyze	Document	Folder	Log Files	Envelope	Splunk Server Database	Splunk Server	Server	Virtual Server

# Splunk Marketing Icons

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Servers



Hadoop Storage



Bar Chart



Pie Chart



Pie Chart Alt



Shipping Container



Enterprise Scale Platform



Gear



Gears / Setting



VoIP



Script



Mobile App



Mobile App Alt



Tag/Ticket



Galaxy Note



iPhone



Datacenter



Datacenters



iPad



Blackberry



Check Mark



Indexer



Forwarder



Search Head



Blank Database



Forwarder Database



Forwarder AIX



Forwarder FreeBSD



Forwarder Linux



Forwarder Windows



Forwarder Web



Forwarder OSX



Forwarder Solaris



Splunk Server AIX



Splunk Server Gearz



Splunk Server Linux



Splunk Server Network



Splunk Server Web



Splunk Server FreeBSD



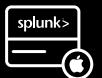
Splunk Server Windows

# Splunk Marketing Icons

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Splunk Server  
Solaris



Splunk Server  
OSX



Splunk Server  
Search



Failed Splunk  
Server



Failed Server



Server License



Tools



Clock



RSS



Send Arrow



Android



Network  
Switch



Router



Cloud Services  
Monitoring



Telephone



Facebook



Facebook Color



Twitter



Twitter Color



LinkedIn



LinkedIn Color



YouTube



YouTube Color



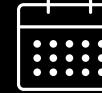
Healthcare



Info



Stop



Calendar



Alert



Hospital



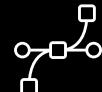
Office Building



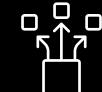
Process  
Analytics



Universal  
Collection



Wire Data



Load Balancing



Cycle



Customer  
Support



Customer  
Support Alt



Male



Female



Stacked  
Document/  
Documents

# Splunk Marketing Icons

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People



People Alt



Splunk People



Splunk Male



Splunk Female



Meter



Signature Capture



POS Card Reader



EMV Card Reader



Factory



Electric Car



Shield



Footsteps



Malware Document



Malware



Malware Packaged



Security Server



Security Badge



Virus



Key



Firewall



Botnet



Attacker General



Attacker Insider



Attacker Nation/State



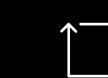
Real Time Monitoring



Detect Unknown Threats



Asset Lifecycle Management



Instant Pivot



Data Model



Fraud Detection

Product Analytics/  
Custom DashboardHost/  
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EfficiencyShield  
RevisedWaste  
Reduction

Monitoring

Environmental  
and Industrial

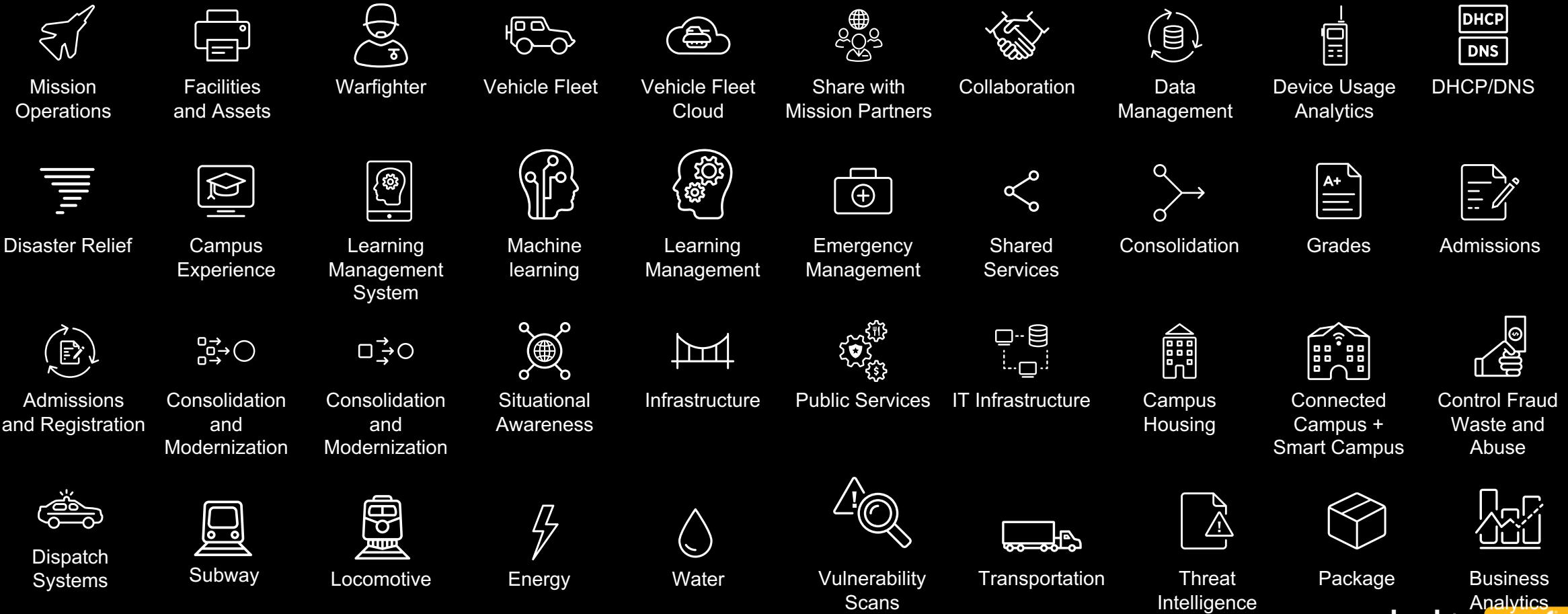
House



Innovate

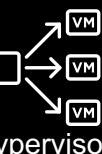
# Splunk Marketing Icons

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# Splunk Marketing Icons

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Badge/Pass	Tailored	Hourglass	Predictive Analytics	Satellite	Intrusion Prevention	Application Management	DevOps/Application Deployment	IT Operations	Adaptive Response
									
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Value Assurance	Trading Systems	Flexible	Platform	Hypervisor	Heart	Patient Generated Data	Healthcare App	CMDB	Service Monitoring
									
Cost Savings	Education	Threat PDF Stealing							