

# Send your spreadsheets to Splunk!

Ryan O'Connor | Senior Advisory Engineer Satoshi Kawasaki | Splunk for Good Ninja

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# Bio: Ryan O'Connor

MS in Business Analytics and Project Management



#### 1) Joined Splunk in 2018

Splunk User for 8+ Years
Joined Splunk Trust in 2017
Joined Splunk in 2018 - Emerging Products Advisory
Team

Wrote apps for Nest, HealthKit, and many more...

#### 2) Previous conf talks:

conf17: Taking Splunk Inside the Classroom

#### 3) This year's conf talks:

conf19: Monitoring Aquaponics Facilities Around the Globe

conf19: Send your spreadsheets to Splunk!

## Bio: Satoshi Kawasaki

BS in Aerospace Engineering from Georgia Tech



hobbes3

#### 1) Joined Splunk in 2013

3 years in Splunk Professional Services (PS)3+ years in Splunk for Good

#### 2) Previous conf talks:

conf14: I want that cool viz in Splunk!

conf15: Enhancing dashboards with javascript!

conf17: Speed up your searches!

conf17: Splunking to fight human trafficking!

conf17: Splunking the 2016 presidential election!

#### 3) This year's conf talks:

conf19: Speed up your searches!

conf19: Splunking refugees with help from NetHope and Cisco!

conf19: Splunking the 2018 midterm election!

conf19: Send your spreadsheets to Splunk!













## Splunk for Good

Big data can make a big difference

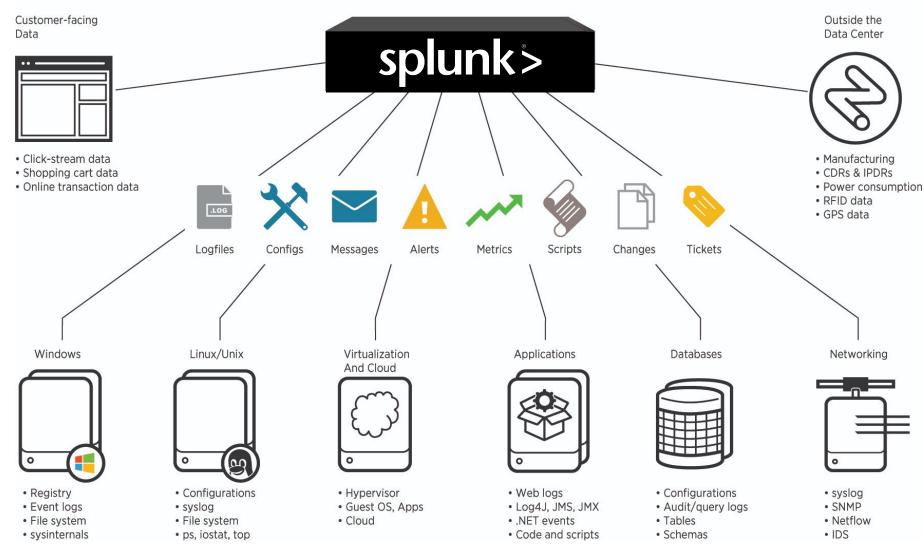
- •\$100 million Splunk Pledge has issued licenses and training worth over \$40 million.
- Workforce training initiatives for veterans, students and opportunity youth have reached more than 10,000 people.
- Engaging our partners in initiatives to promote STEM and develop shared solutions for humanitarian response and human trafficking.
- Supporting life-changing research at top universities.
- More than 100,000 hours of paid volunteer time.

# Table of Contents

- 1) Intro
- 2) Why spreadsheets?
- 3) Splunk App for Google Sheets
- 4) Installation and configuration
- 5) Usage
- 6) Best practices
- 7) Next steps



## Intro: What Splunk can index



## **BUT** spreadsheets!

Pros and cons



- Everyone understands them (easy to use).
- It's not strict (like databases).
- You can use them to create formulas, charts, and dashboards.
- Easy to share!
- So many free software!



- They are entered by humans.
- Need to saved/converted to CSV.
- You thought SPL was hard to write and troubleshoot?
- You can use them to create formulas, charts, and dashboards.

## **Google Sheets**

Many organizations, especially small ones, still rely on spreadsheets



Part of Google Drive suite of tools.

Free to individuals and nonprofits (Google for Nonprofits).

Designed with collaboration in mind with link sharing, permission system, automatic version controls, and commenting.

## Splunk App for Google Sheets

Available today!

Open Source and available on Github:

https://github.com/ryanwoconnor/GoogleDriveAddonforSplunk

Distributed on Github due to the reliance on two Python packages.

- BeautifulSoup[1]
- Pandas[1]

Setup time is less than 2 minutes.



[1]BeautifulSoup and Pandas are not distributed with Splunk today

## Splunk App for Google Sheets

#### Written in Python

Comes with several SPL Commands<sup>[1]</sup>:

- •getcsv list csv files in your drive.
- •getchanges list any changes in your Drive.
- •exportcsv stream a specific csv to splunk.
- •exportsheethtml stream a specific sheet to splunk (with merged cell support).
- •exportsubsheet export a specific subsheet.
- •subsheetlist list subsheets in a sheet.
- •deletegooglekey delete your Google API Key from Splunk.

[1] You can create commands like this too! <a href="http://dev.splunk.com/view/python-sdk/SP-CAAAEU2">http://dev.splunk.com/view/python-sdk/SP-CAAAEU2</a>



## **Bonus! Google Classroom**

Why not manage your gradebook in Splunk?

Also in this app are a few commands to stream in Google Classroom data.

- •listcourseworksubmission list submissions for coursework.
- •liststudents list students in your course.
- •listcoursework list assigned coursework.
- •listcourse list your courses.



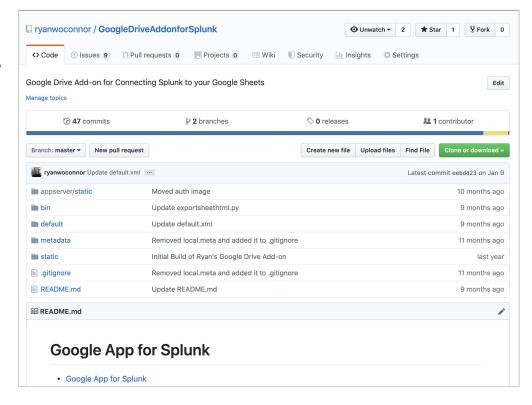
### **Installation Guide**

Full installation Guide is included on Github.

Includes a YouTube video!

#### High Level Steps:

- Install Google App for Splunk.
- Install Python for Scientific Computing.
- Configure apps.
- Setup Google App for Splunk.
- Setup Google App with custom python libraries.





### **Best Practices**

Keep the spreadsheet machine-friendly, not human-friendly.

- The app doesn't care about charts, legends, info box, colored/formatted cells, etc.
- Keep the spreadsheet simple and consistent.
- Create charts and do all that fancy stuff in Splunk instead!

First row of your sheet should always be a header (ie column names).

Don't have empty rows.

#### Don't merge cells.

The app supports merged cells (with Pandas and BeautifulSoup), but it's still not recommended.

Don't use long or human-friendly column names.

Use something like "sec\_0\_to\_60" over "Seconds to get from 0 and 60 mph".



## Using the App Choose Your Own Adventure

If you've followed Best Practices, you're going to have a good time.

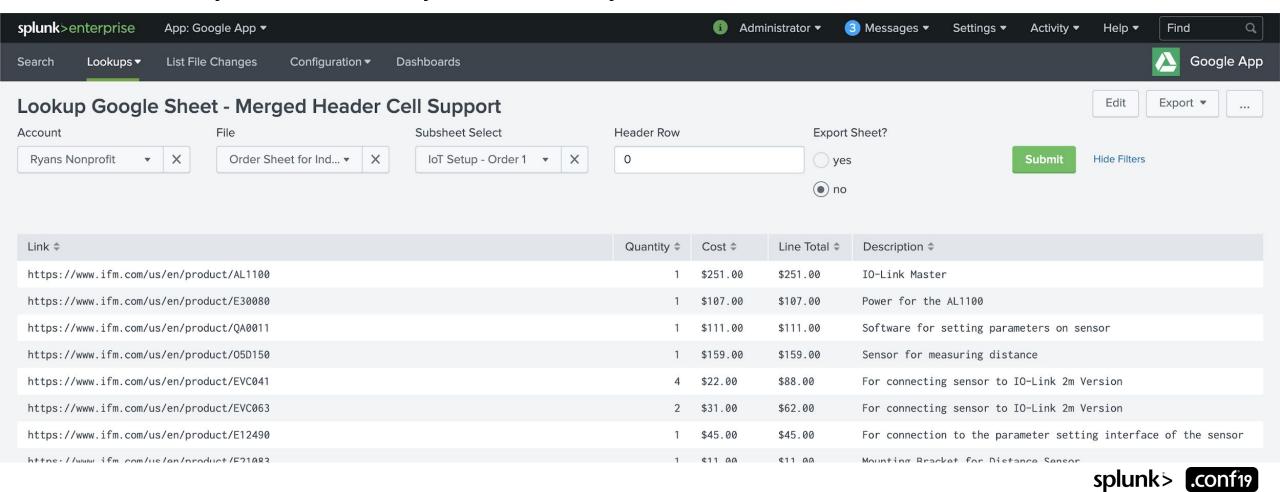
We've provided a nice set of dashboards for getting started.

- Lookup Google Sheet.
- The original dashboard.
- Lookup Google Sheet Merged Header Cell Support.
- This dashboard is one we added for merged cell support.
- · List File Changes.
- Dashboard to list file changes in your Google Drive (useful for alerting on file changes).



## Using the App Utilizing Built-in Dashboards

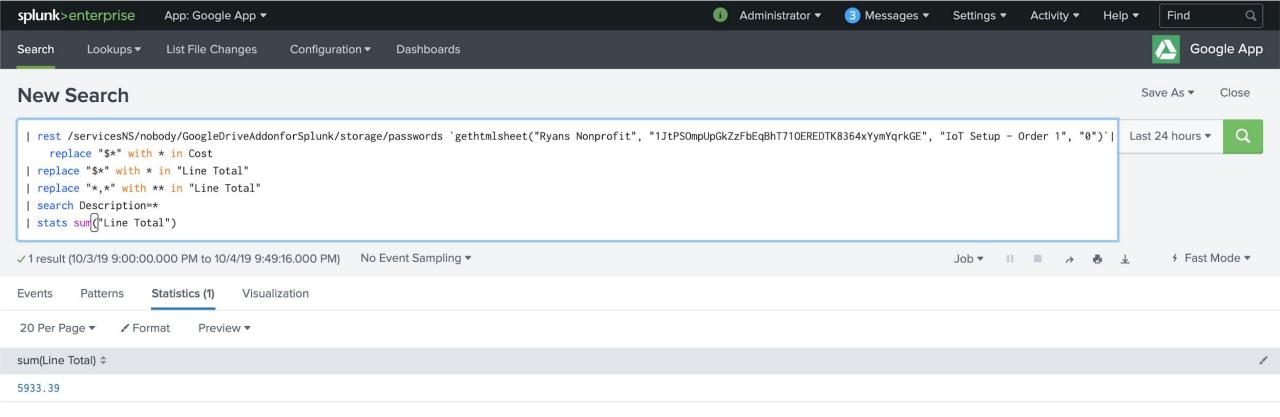
Easiest way to start to analyze data from your sheets is to use the dashboards.



## Using the App

#### Creating a Search

Our app streams your data into Splunk results. Then unleash your SPL-fu!





## **Going Forward**

The future

We'd like to keep developing this app!

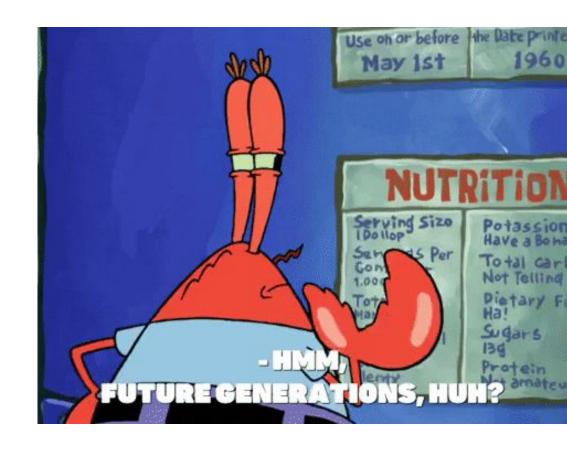
Haven't handled every edge case

Spreadsheets have some features and tools that allow it to work as:

- A database
- A data visualization platform
- A data science tool

So we need your feedback!

(And we'd love to collaborate)





## Q&A

Ryan O'Connor | Senior Advisory Engineer Satoshi Kawasaki | Splunk for Good Ninja .Conf19
splunk>

# Thank

You

Go to the .conf19 mobile app to

**RATE THIS SESSION** 



## **Using the App**

Don't forget you can even save the result

Don't forget you can even save the result

