# How Splunk Uses Telemetry to Improve Our Products and Services

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**Kevin Louther - Products Data Analyst** 

## .CONf19 splunk>

#### Forward-Looking Statements

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## What is Telemetry?

### Data that Splunk collects from Enterprise deployments

Contains license utilization, deployment topology, configuration, performance, search types, pageviews, apps, sourcetypes, etc. Aggregated and sent nightly

#### **Customers have choice** to share:

Opt-out/in at first launch, can modify later

#### Helping You Get More Value from Splunk Software

Splunk Inc. collects aggregated product usage data so that we can enhance the value of your investment in Splunk software. This product usage data does not include any data you ingest into your deployment. Examples of what we collect:

- Feature usage
- · Deployment topology
- · Infrastructure and operating environment
- Performance

We use this data to optimize your deployment, prioritize our features, improve your experience, notify you of patches, and develop high-quality product functionality.

Sharing of product usage data from this deployment is set to ON. You can change your data collection preferences at any time in your instrumentation Settings.

Learn more ∠ about what we collect, how we securely transmit data, and how we store the data. For details on Splunk's data practices, see the Splunk Privacy Policy ∠.

We are dedicated to helping you get the most out of your investment. Thank you for helping us make Splunk's products even better.

Got it!



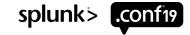
## What Does Telemetry Look Like?

```
Time
                   Event
9/12/19
                  [-]
                      component: app.session.session_start
11:29:18.000 PM
                      data: { [+]
                      deploymentID: acad1ffb-9da1-5e72-80ef-595d4d700f6d
                      eventID: d4165591-b34e-5734-5675-2c80c81ed06d
                      experienceID: 7fb86762-64e3-3e7e-669e-801f5a3457aa
                      timestamp: 1568330958
                      userID: 4c99702b43c02b7c01b0ebdc7d888a702e8e138efd4d4433190c6fa495457793
                      version: 3
                      visibility: anonymous, support
                   Show as raw text
                  host = acad1ffb-9da1-5e72-80ef-595d4d700f6d
                                                               source = app.session.session_start | sourcetype = _ison
9/12/19
                  [-]
11:29:05.000 PM
                      component: app.session.session_start
                      data: { [+]
                      deploymentID: acad1ffb-9da1-5e72-80ef-595d4d700f6d
                      eventID: 3f684344-2641-4a00-84e7-5d376b3cedee
                      experienceID: 0e900ef6-f866-f6b7-c4b2-43d19d343576
                      timestamp: 1568330945
                      userID: 4c99702b43c02b7c01b0ebdc7d888a702e8e138efd4d4433190c6fa495457793
                      version: 3
                     visibility: anonymous, support
                   Show as raw text
                  host = acad1ffb-9da1-5e72-80ef-595d4d700f6d | source = app.session_start | sourcetype = _ison
```

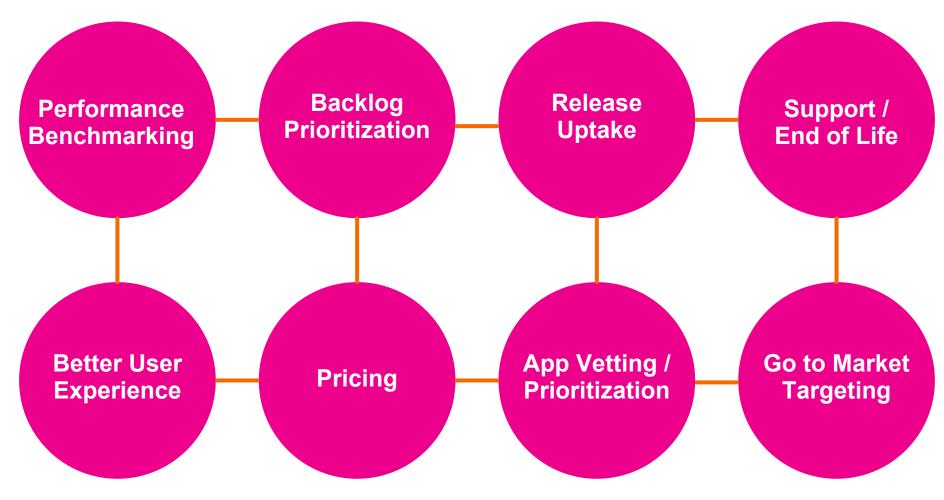


## What Does Telemetry Look Like?

```
Time
                  Event
9/12/19
                  { [-]
11:29:18.000 PM
                     component: app.session.session_start
                     data: { [-]
                       app: search
                       browser: Chrome
                       browserVersion: 76.0.3809.100
                       device: MacIntel
                       guid: B8E7D0B9-BB6E-41DB-928B-411ABBA5AD90
                       locale: en-US
                       os: Mac OS X
                       osVersion: 10.
                       page: search
                       splunkVersion: 7.3.1
                     deploymentID: acad1ffb-9da1-5e72-80ef-595d4d700f6d
                     eventID: d4165591-b34e-5734-5675-2c80c81ed06d
                     experienceID: 7fb86762-64e3-3e7e-669e-801f5a3457aa
                     timestamp: 1568330958
                     userID: 4c99702b43c02b7c01b0ebdc7d888a702e8e138efd4d4433190c6fa495457793
                     version: 3
                     visibility: anonymous, support
                  Show as raw text
                  host = acad1ffb-9da1-5e72-80ef-595d4d700f6d
                                                               source = app.session.session_start | sourcetype = _json
```



#### What Has Splunk Used Telemetry For?

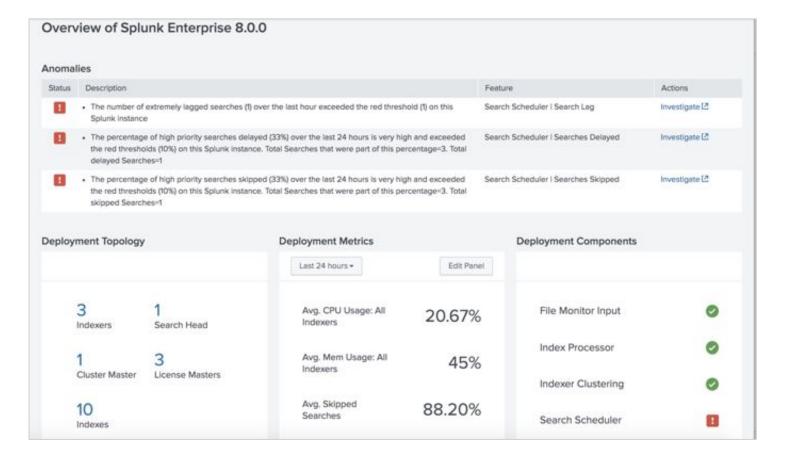




### Deployment Health and Monitoring Console

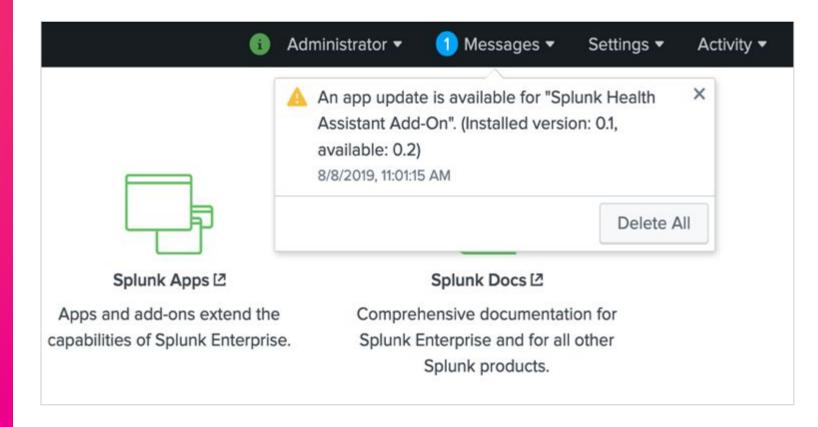
**Bharath Aleti** Director, Product Management

#### Health Overview and Alerts



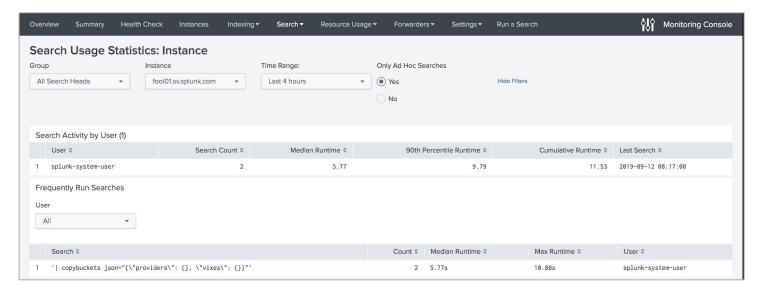


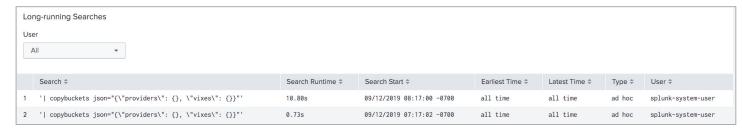
#### Proactive Notification





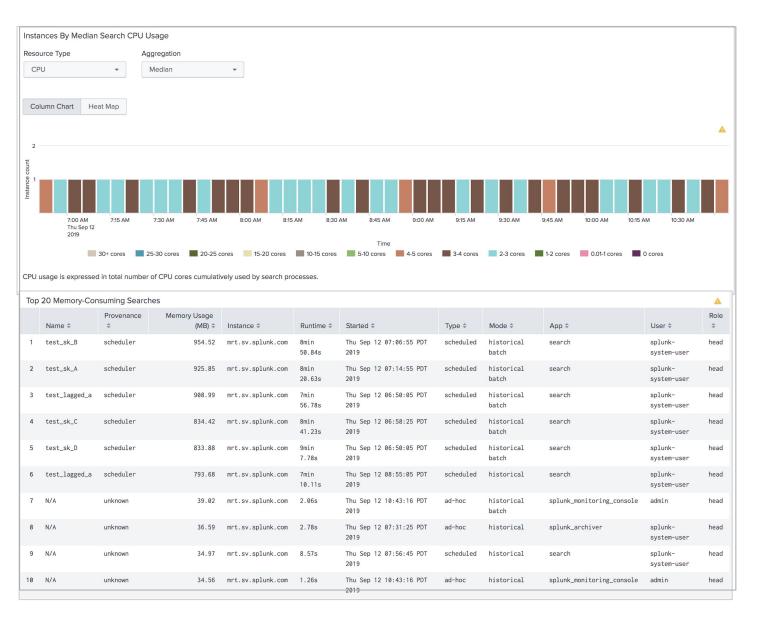
#### Search Usage Statistics

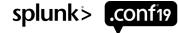






#### Search Resource Usage







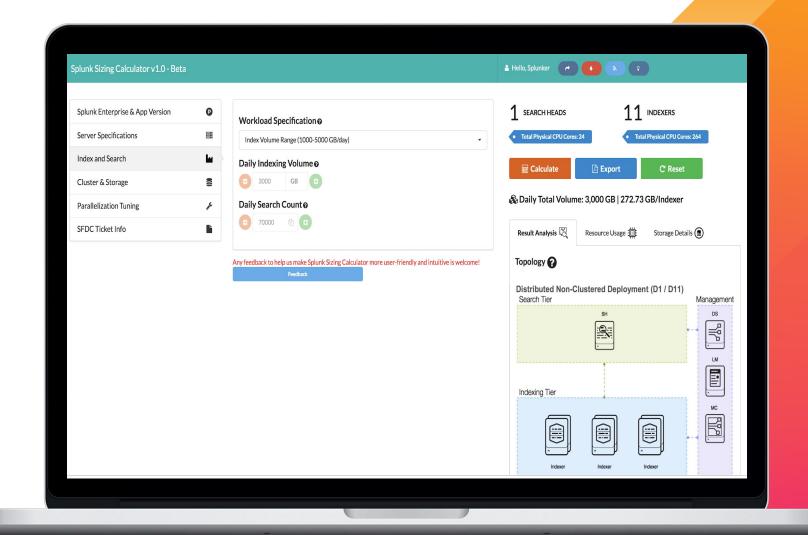
#### **Deployment Sizing and** Performance **Benchmarking**

**Tracy Knight** Director, Product Performance

#### Splunk Sizing Calculator

Helps Customer capacity planning

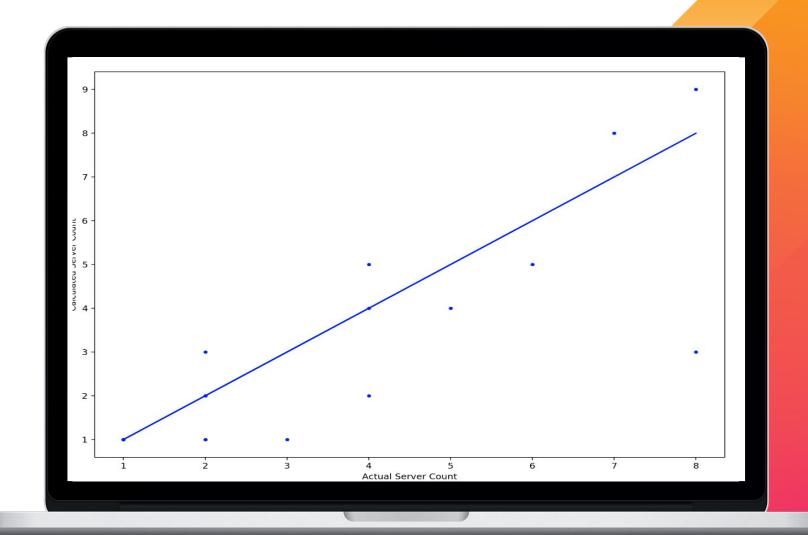
Populate workload default based on 80th% customer usage patterns



#### Splunk Sizing Calculator

**Accuracy Validation** 

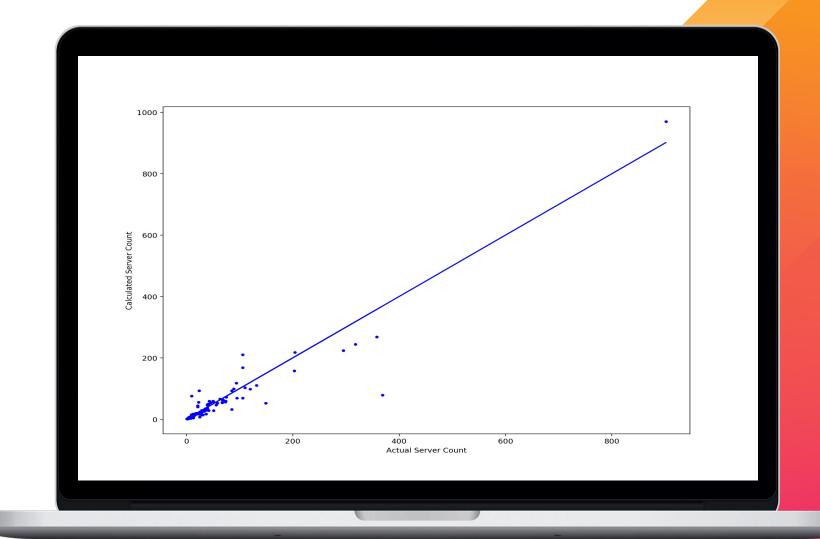
Leverage anonymous telemetry data



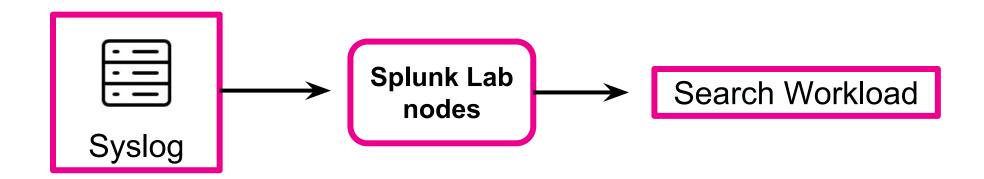
#### Splunk Sizing Calculator

**Accuracy Validation** 

Leverage anonymous telemetry data



#### We listen to data through telemetry

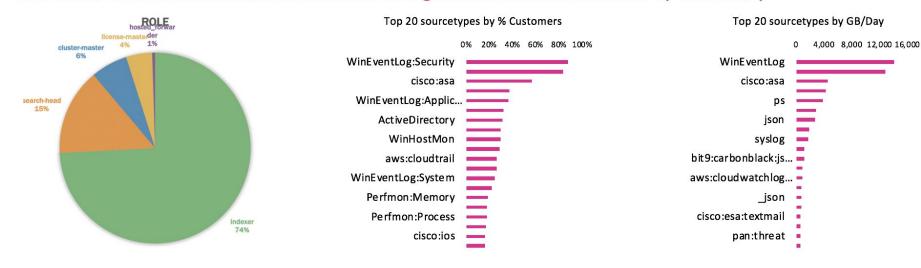


#### Performance Benchmark Design

We listen to data through telemetry

#### **Telemetry data analysis**

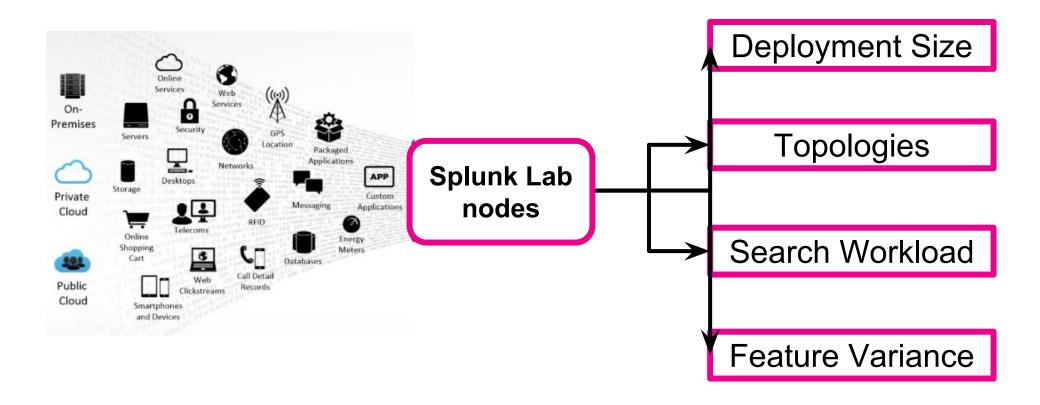
#### Enhance Performance benchmarks based on a generalization of statistics by Telemetry



Search Load	Saved Searches	DMA	Correlation	User-defined	Ingest Rate
AVG	40	22	12	6	358
MAX	257	164	93	78	4,265
80-PERCENTILE	64	31	23	7	448
90-PERCENTILE	88	53	33	12	738



#### We listen to data through telemetry



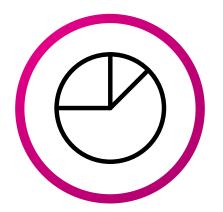


#### **Product Analytics**

Kevin Louther
Data Analyst

#### **Common Questions**

How many users are using my app?



What is the most used operating system?



How much time is spent in my app?



What is the most common Splunk version?

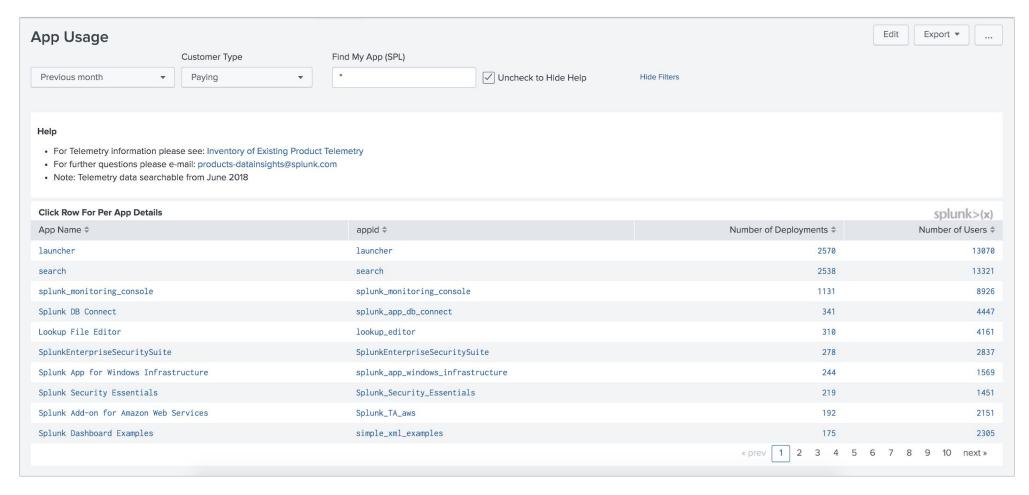




#### **Raw Telemetry**

```
i Time
                       Event
    9/12/19
                      [-]
     11:42:31.000 PM
                          component: app.session.dashboard.load
                          deploymentID: 0099ff91-5d36-525f-8b40-9924168f9c12
                          eventID: b23e2199-c22a-fdb0-bc45-3c446f3ff477
                          experienceID: 61c1aacc-0b18-128d-4465-91a7477db3a2
                          timestamp: 1568331751
                          userID: 448e81fd88cca1fb9edf8bc4ca77962187585c670f08834991e2842510cb7fb0
                          version: 3
                          visibility: anonymous, support
                      Show as raw text
                      host = 0099ff91-5d36-525f-8b40-9924168f9c12 | source = app.session.dashboard.load | sourcetype = _json
    9/12/19
     11:42:30.000 PM
                          component: app.session.pageview
                          data: { [+]
                          deploymentID: 0099ff91-5d36-525f-8b40-9924168f9c12
                          eventID: 093454c6-95d5-6ab7-e83d-dbe8caffa972
                          experienceID: 61c1aacc-0b18-128d-4465-91a7477db3a2
                          timestamp: 1568331750
                          userID: 448e81fd88cca1fb9edf8bc4ca77962187585c670f08834991e2842510cb7fb0
                          version: 3
                          visibility: anonymous, support
                      Show as raw text
                      host = 0099ff91-5d36-525f-8b40-9924168f9c12 | source = app.session.pageview | sourcetype = _json
```

#### **App Usage**

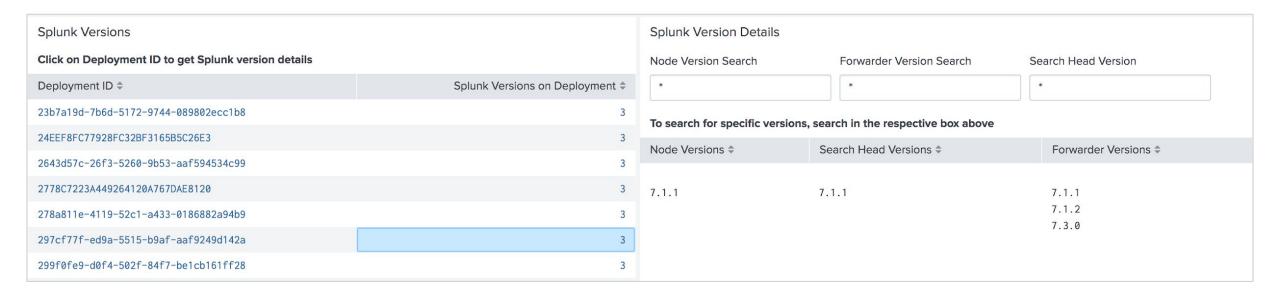




#### Splunk Versions JSON

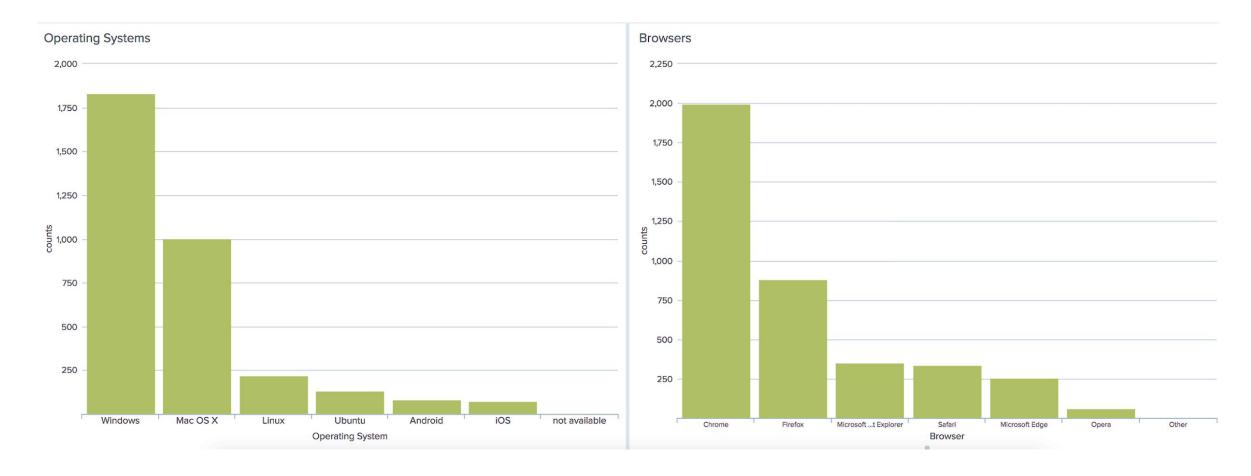
```
9/12/19
                 [-]
11:49:49.000 PM
                     component: app.session.session_start
                     data: { [-]
                      app: $SPLUNK_PLATFORM
                       browser: Chrome
                       browserVersion: 47.0.2526.69
                       device: Linux army71
                       guid: 09EC3DF1-428B-4D51-A0CC-B278FF05FCF2
                       locale: en-US
                       os: Linux
                       osVersion: not available
                       page: embed
                       splunkVersion: not available
                     deploymentID: 7a0afc65-15b4-5718-b508-86eb31febdf5
                     eventID: 6e6677db-8079-6af7-a37a-b7d982373036
                     experienceID: 1db7f460-496c-57a3-4e3d-64529cc282f5
                     timestamp: 1568332189
                    userID: a42214201707b8ab7f83afd1da167b237a982a25ee364d913fdecb11594efa34
                     version: 3
                    visibility: anonymous, support
                  Show as raw text
                 host = 7a0afc65-15b4-5718-b508-86eb31febdf5
                                                               source = app.session.session_start | sourcetype = _json
```

#### **Splunk Versions**





#### **OS + Browser Versions**



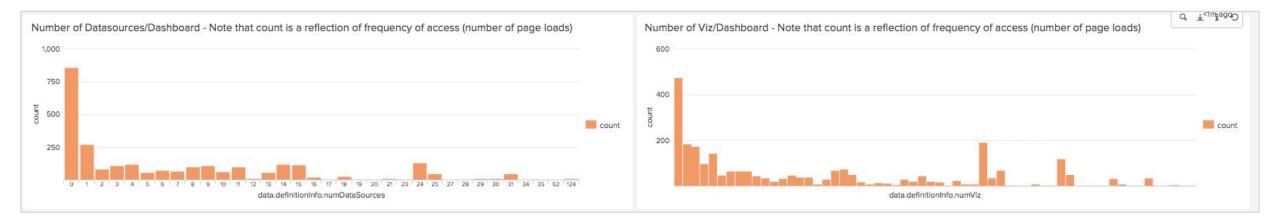




#### User Interface and Dashboard Framework

Miranda Luna Senior Product Manager

## What are the Key Elements to Storytelling?



### What Inputs to Prioritize for Simple XML Transition?



## Are We Enabling All Users to Become Storytellers?





#### **Enhanced Support**

David Alward
Senior Escalation Manager

#### Instrumentation

Configure automated reporting settings, view collected data, export data to file, work with diagnostic files, and send data to Splunk, Learn Mo

#### Usage Data 🌣

Sharing your software usage data helps Splunk Inc. optimize your deployment, prioritize our features, improve your experience, notify you of patches, and develop high quality product functionality.

Learn more [2]

#### Aggregated Usage Data

To improve our products and offerings, we collect aggregated data about feature usage, performance, deployment topology, infrastructure, and operating environment. This data is not linked to your account. Learn more [2]

#### Support Usage Data

To provide you enhanced support and help you troubleshoot and improve your implementation, we collect aggregated data about feature usage, performance, deployment topology, infrastructure, and operating environment. This data is linked to your account using your license GUID. Learn more [2]

#### License Usage Data

To ensure compliance with your purchased offering, we collect data about your license consumption. This data is linked to your account using your license GUID. Learn more [2]

#### Software Version Data

To understand the number of customers using older versions of Splunk software, we collect anonymized software version data. Learn more [2]

Automatically enabled

Enabled

Enabled

Automatically enabled

#### Share **Telemetry for Enhanced** Support

Settings

Instrumentation

Usage Data



#### **Python 3 Readiness**

Deployment ID	Unsupported Apps \$	Number of Unsupported Apps \$	Total Apps Being Used
00180209-f9b8-539f-90d7- 95f56dea3734	Cisco eStreamer eNcore Add-on for Splunk CyberSponse Add-on for Splunk Lookup File Editor SSL Certificate Checker Sideview Admin Tools Sideview Utils (free internal use license)	6	54
00bf7c17-8ddf-5685-92eb- e0bd5ac81265	Lookup File Editor Website Monitoring	2	10
013c7314-722f-5254-87fe- e47d7d278073	CylancePROTECT App for Splunk  Demisto App for Splunk  F5 Networks - LTM  FireEye App for Splunk Enterprise v3  G Suite For Splunk  Google Apps for Splunk  Input Add On for G Suite App  Input Add On for Netskope  Lookup File Editor  MAC Address Vendor Scripted Lookup  Microsoft Log Analytics Add-on (Formerly Known as  OMS)	15	67

#### **Enterprise Security EOL**

deploymentID \$	host	data.name	data.version	data.splunkVersion	ES ¢	ES_compatibility	ES_compatible
16b903d2-f4cd-54ea-b9a3- 892982dde3d0	16b903d2-f4cd-54ea-b9a3- 892982dde3d0	SplunkEnterpriseSecuritySuite	5.2.2	7.2.3	Yes	5.3.1, 5.3.0, 5.2.2, 5.2.1, 5.2.0, 5.1.1	Yes
172ba4ad-c13b-54f2-b116- a44f766a3d82	172ba4ad-c13b-54f2-b116- a44f766a3d82	SplunkEnterpriseSecuritySuite	5.3.1	7.2.7	Yes	5.3.1, 5.3.0, 5.2.2, 5.2.1, 5.2.0, 5.1.1	Yes
1DC20527E077A07317C532BF150FB2	1DC20527E077A07317C532BF150FB2	SplunkEnterpriseSecuritySuite	4.5.3	7.2.4	Yes	5.3.1, 5.3.0, 5.2.2, 5.2.1, 5.2.0, 5.1.1	No
1a0ff5a5-d606-544b-a3f4- 0e16cc7f67dc	1a0ff5a5-d606-544b-a3f4- 0e16cc7f67dc	SplunkEnterpriseSecuritySuite	4.7.2	7.1.3	Yes	5.3.1, 5.3.0, 5.2.2, 5.2.1, 5.2.0, 5.1.1, 5.1.0	No
1b117c87-43d3-5fa1-a8c4- aa72c2558f13	1b117c87-43d3-5fa1-a8c4- aa72c2558f13	SplunkEnterpriseSecuritySuite	5.2.2	7.2.4	Yes	5.3.1, 5.3.0, 5.2.2, 5.2.1, 5.2.0, 5.1.1	Yes
1b2fdab0-10a3-5997-ae7b- 0e5565fb3124	1b2fdab0-10a3-5997-ae7b- 0e5565fb3124	SplunkEnterpriseSecuritySuite	5.3.1	7.3.1	Yes	5.3.1, 5.3.0	Yes





**Archana Ganapathi**Director, Data Strategy



Bharath Aleti
Director, Product Management



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Miranda Luna Senior Product Manager



**Tracy Knight**Director, Product Performance



**Kevin Louther**Products Data Analyst

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