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## Got Assets?

Defending Your Assets Part Two: You Asked for It!

SEC1219B

### Megan Parsons

Security Strategist | Splunk

### **Scott McCarthy**

Senior SOAR Engineer | National Grid





### **Scott McCarthy**

Senior SOAR Engineer | National Grid

### **Megan Parsons**

Staff Security Strategist | Splunk



### Finding Last Year's Presentation

### Got Assets? Part 1: SEC1689C

- <u>https://conf.splunk.com/files/2021/recordings</u> /SEC1689C.mp4
- <u>https://conf.splunk.com/files/2021/slides/SE</u>
   <u>C1689C.pdf</u>



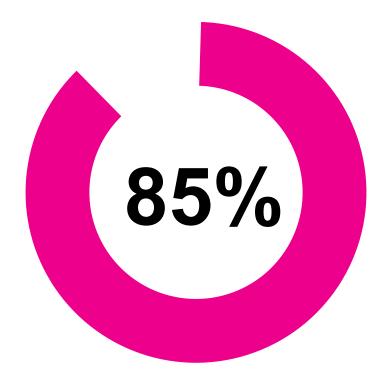


# Why Should You Care?

### After all it is just Assets



### Companies Failing At Creating A CMDB



# Don't Stop at CMDB

Configuration Management Databases are incomplete

According to Forbes most companies fail at creating a CMDB. This is probably true at your company. What can we do about it?



## See what data you are missing...

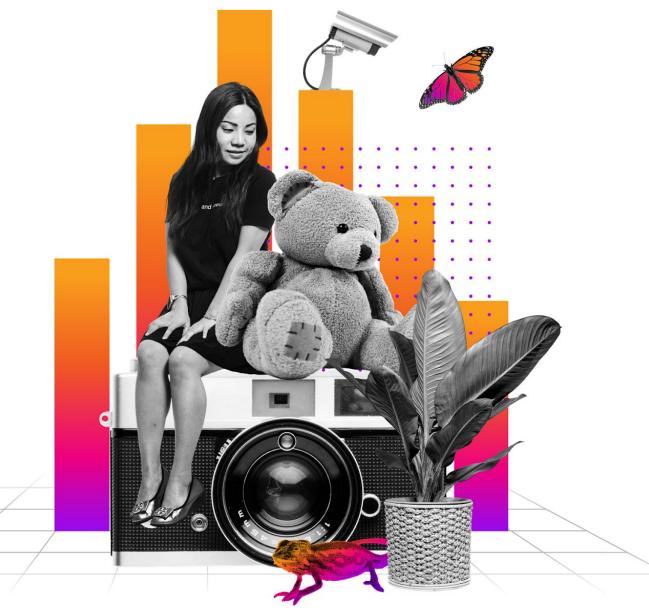
Let's check that notable that just fired

| i | Title \$                     | Risk Object 💠                 | Risk Score 🗢      | Risk Events 🔅        | Type 💠   | Time 🗸         | Disposition \$             | Security Domain \$       | Urgency \$  | Status 🗢 | Owner \$   | Actions |
|---|------------------------------|-------------------------------|-------------------|----------------------|----------|----------------|----------------------------|--------------------------|-------------|----------|------------|---------|
| ~ | Threat - Test Alert - Rule 🔻 | -                             |                   | -                    | Notable  | Today, 7:45 PM | Undetermined               | Threat                   | Low         | New      | unassigned |         |
|   |                              |                               |                   |                      |          |                |                            |                          |             |          |            |         |
|   | Description:                 |                               |                   |                      |          | Related I      | nvestigations:             |                          |             |          |            |         |
|   | unknown                      |                               |                   |                      |          |                |                            |                          |             |          |            |         |
|   | Additional Fields            | Value                         |                   |                      | Action   | Correlati      | on Search:                 |                          |             |          |            |         |
|   | Destination                  | 10.111.167.109                | 0                 |                      | *        | Threat - 1     | est Alert - Rule 12        |                          |             |          |            |         |
|   | Risk Score                   | 0                             |                   |                      | -        | History:       |                            |                          |             |          |            |         |
|   | Severity                     | unknown                       |                   |                      | •        |                | eview activity for this No | table Event 12           |             |          |            |         |
|   | Source User                  | abigail.randa                 | all O             |                      | •        |                |                            |                          |             |          |            |         |
|   |                              |                               |                   |                      |          | Adaptive       | Responses: C               |                          |             |          |            |         |
|   |                              |                               |                   |                      |          | Respons        | e Mode Time                | User                     | Status      |          |            |         |
|   |                              |                               |                   |                      |          | Notable        | saved 2022-04-             | 15T19:45:02+0000 mccars3 | 3 🗸 success |          |            |         |
|   |                              |                               |                   |                      |          | View Ada       | ptive Response Invocati    | ons 🖸                    |             |          |            |         |
|   |                              |                               |                   |                      |          | Next Ste       |                            |                          |             |          |            |         |
|   |                              |                               |                   |                      |          |                |                            |                          |             |          |            |         |
|   |                              |                               |                   |                      |          | <b>(</b> )     | lo next steps defined.     |                          |             |          |            |         |
|   |                              |                               |                   |                      |          |                |                            |                          |             |          |            |         |
|   | Event Details:               |                               |                   |                      |          |                |                            |                          |             |          |            |         |
|   | event_id F05DE15F-           | 0D49-41C2-96C0-DB78450F6603@@ | @notable@@ab0abb0 | )a62946cf941a121d29d | 9d184d 💌 |                |                            |                          |             |          |            |         |
|   | event_hash ab0abb0a6         | 2946cf941a121d29d9d184d       |                   |                      | -        |                |                            |                          |             |          |            |         |
|   | eventtype modnotable         | e_results                     |                   |                      | *        |                |                            |                          |             |          |            |         |
|   | notable                      |                               |                   |                      | •        |                |                            |                          |             |          |            |         |
|   | Short ID Create Sho          | rt ID                         |                   |                      |          |                |                            |                          |             |          |            |         |

## See what data you are missing...

Let's check that notable that just fired

| i | Title \$                   | Risk Object \$     | Risk Score \$         | Risk Events \$ | Type ‡  | Time 🗸         | Disposition \$             | Security Domain 💲        | Urgency \$ | Status \$ | Owner \$   | Actions |
|---|----------------------------|--------------------|-----------------------|----------------|---------|----------------|----------------------------|--------------------------|------------|-----------|------------|---------|
| ~ | Threat - Test Alert - Rule | 10<br>75.(         | (77)<br>(77)          |                | Notable | Today, 7:45 PM | Undetermined               | Threat                   | 🔺 Medium   | New       | unassigned | •       |
|   |                            |                    |                       |                |         |                |                            |                          |            | J         |            |         |
|   | Description:               |                    |                       |                |         | Related        | Investigations:            |                          |            |           |            |         |
|   | unknown                    |                    |                       |                |         | Currently      | y not investigated.        |                          |            |           |            |         |
|   | Additional Fields          | Value              |                       |                | Action  | Correlat       | ion Search:                |                          |            |           |            |         |
|   | Destination                | 10.111.167.109 0   |                       |                | -       | Threat -       | Test Alert - Rule 12       |                          |            |           |            |         |
|   | Destination Business Unit  | research and deve  | lopment               |                | -       | History:       |                            |                          |            |           |            |         |
|   | Destination Category       | server             |                       |                | -       |                |                            |                          |            |           |            |         |
|   | Destination Country        | canada             |                       |                | -       | View all       | review activity for this N | Notable Event 12         |            |           |            |         |
|   | Destination DNS            | canada_dev_hwal    | 1r2k.extdomain.com    |                | -       | Adaptive       | e Responses: O             |                          |            |           |            |         |
|   | Destination IP Address     | 10.111.167.109     |                       |                | -       | Pesnon         | se Mode Time               | User                     | Status     |           |            |         |
|   | Destination Latitude       | 56.130366          |                       |                |         | Notabl         |                            | 4-15T19:45:02+0000 mcca  |            |           |            |         |
|   | Destination Longitude      | -106.346771        |                       |                |         | Notabi         | e saved 2022-0             | 4-13113.43.02/0000 11000 | success    |           |            |         |
|   | Destination MAC Address    | bf:75:1d:cb:9c:9b  |                       |                |         | View Ad        | aptive Response Invoca     | ations 🖸                 |            |           |            |         |
|   | Destination NT Hostname    | canada_dev_hwal    | 1r2k                  |                |         | Next Ste       | eps:                       |                          |            |           |            |         |
|   | Destination Owner          | robert avery       |                       |                | -       |                |                            |                          |            |           |            |         |
|   | Destination PCI Domain     | untrust            |                       |                | *       | 6              | No next steps defined.     |                          |            |           |            |         |
|   | Risk Score                 | 0                  |                       |                | *       | •              |                            |                          |            |           |            |         |
|   | Severity                   | unknown            |                       |                |         |                |                            |                          |            |           |            |         |
|   | Source User                | abigail.randall    |                       |                | •       |                |                            |                          |            |           |            |         |
|   | Source User Business Unit  | services           |                       |                | -       |                |                            |                          |            |           |            |         |
|   | Source User Email          | abigail.randall@bu | ttercupgames.com      |                | •       |                |                            |                          |            |           |            |         |
|   | Source User First Name     | abigail            |                       |                | -       |                |                            |                          |            |           |            |         |
|   | Source User Identity       | 9839ae86-e381-40   | db1-8122-bf4bc4f68715 | 5              | •       |                |                            |                          |            |           |            |         |
|   |                            | abigail.randall    |                       |                | •       |                |                            |                          |            |           |            |         |
|   |                            | abigail.randall@bu | ttercupgames.com      |                | •       |                |                            |                          |            |           |            |         |
|   | Source User Last Name      | randall            |                       |                | •       |                |                            |                          |            |           |            |         |
|   | Source User Work City      | new orleans        |                       |                | •       |                |                            |                          |            |           |            |         |



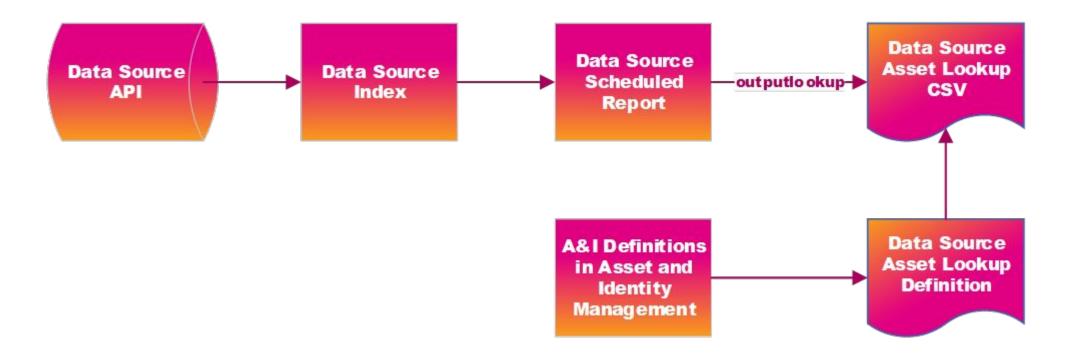
# Getting Data In

**Best Practices** 



## Bringing data into A&I

The process outlined





## Standardization

### Keeping names easy for future edits and reporting

Naming conventions to make it easier to identify reports, CSVs, and lookups that ingest into Assets and Identity

Assets\_Identities\_DataSourceName\_lookup Report Assets\_Identities\_DataSourceName\_lookup.csv Assets\_Identities\_DataSourceName\_lookup

Schedule at off hours and stagger them

Interval = 6 2 \* \* \*

Use Macros to standardize data cleanup

This macro formats the multi-value fields so they can be stored in lookups

'multivalue\_fields\_for\_lookup'

This macro is design to remove invalid IPs (home IPs) and you can edit this macro to match your needs

'remove\_home\_ip'

This macro is designed to deduplicate multivalue fields

`remove\_duplicates`

## Append vs. Overwrite

- Depends on the data source
- Depends on how far you wish to go back on each search

```
| inputlookup lookup_name.csv
| append
    [ search index=sourcedata ...
    | stats ...]
| stats max(time) as time by nt_host
| outputlookup lookup_name.csv
```

NOTE: If you are looking for the "latest" and put a \_time somewhere in the lookup you must convert both to epoch and use max()



## **Normalizing Data with Macros**

| add_meta(2)                  | eval meta="\$field_name\$: ".strftime(\$time\$,"%Y-%m-%d %H:%M:%S")   | field_name,time |
|------------------------------|---|-----------------|
| extract_meta(1)              | $\label{eq:linear} $$ field_name \:\s(?<\field_name \>\d{4}\-\d{2}\-\d{2}\) \(2)\-\d{2}\) \(2)\) \(2)\-\d{2}\) \(2)\-\d{2}\) \(2)\)\)\(2)\)\)\(2)\)\)\(2)\)\)\(2)\)\)\(2)\)\)\(2)\)\)\)\$ | field_name      |
| multivalue_fields_for_lookup | foreach * [ eval < <field>&gt; = mvjoin(mvdedup(mvappend(mvfilter(NOT match(&lt;<field>&gt;,".+[a-zA-Z]+\$")),&lt;<field>&gt;))," ") ]</field></field></field>  |                 |
| os_filter                    | search NOT (OS="*cisco*" OR OS="*vmware*" OR OS="*no os*" OR OS="*emc*" OR OS="*switch*" OR OS="*openvms*")   |                 |
| remove_duplicates            | foreach * [  eval < <field>&gt;=mvdedup(&lt;<field>&gt;)]</field></field>   |                 |
| remove_home_ip               | eval ip=if(match(ip,"192\.168\*"),null(),ip)   eval ip=if(match(ip,"169\.254\*"),null(),ip)   eval ip=if(match(ip,"0\.0\*"),null(),ip)  |                 |
| remove_ip_based_on_os        | eval ip=if(match(OS,"Windows ((?!Server).).*(BusinesslEnterpriselPro.*).*"),null(),ip)   eval<br>ip=if(match(OS,"macOS.*"),null(),ip)   eval ip=if(match(OS,"Mac.*"),null(),ip)   |                 |
| splunk_data_indexes          | index=os  |                 |



## Auditing A&I Data

- Reports to identify the Sources and Searches/schedule of A&I
- Audit dashboard to identify problem assets or identities



### **Considerations for Customization**

- Max custom fields = 20
- Reuse fields that aren't needed (lat, lon)
- Create metadata field **meta** to use for additional context
- Use | in fields that support | use multi-value fields!
- Don't use non-ascii characters





# A&I Searches and IR Dashboard



### **Search Assets**

Assets

To make an ad-hoc query you just need an event with any field that contains an IP address, MAC address, hostname, or DNS name

| makeresults

| eval hostname="host"

| `get\_asset(hostname)`

If you have a list of assets or events you can cross-reference the details very easily

| inputlookup hostlookup

| `get\_asset(hostnames)`

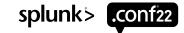
OR if you have a non-CIM compliant search

index="endpoint"

| `get\_asset("Computer Name")`

If you have a list of assets or events you can cross-reference the details very easily

| `assets`



## **Search Identities**

#### Identities

To make an ad-hoc query you just need an event with any field that contains a username, sid, or email address.

makeresults

| eval user="someuser@buttercupgames.com"

| `get\_identity4events(user)`

OR a list of users

makeresults

| eval user="someuser@buttercupgames.com, someotheruser@buttercupgames.com"

| makemv delim="," user

| mvexpand user

| `get\_identity4events(user)`

Or you can just make it part of any search, but the field must be an approved identiy field:

index="email"

| eval user='recipient'

| `get\_identity4events(user)`

#### If you want to get a list of all identities:

| `identities`



### **Correlation Search A&I Extraction**

- CIM Compliant fields usually automatically lookup
- Edit which fields are used

| Identity Extraction | <pre>src_user x user x src_user_id x</pre> |
|---------------------|--|
|                     | src_user_role $\times$ user_id $\times$    |
|                     | user_role x vendor_account x               |
|                     | src_user_email x recipient x               |
|                     |  |
| Asset Extraction    | src x dest x dvc x orig_host x             |

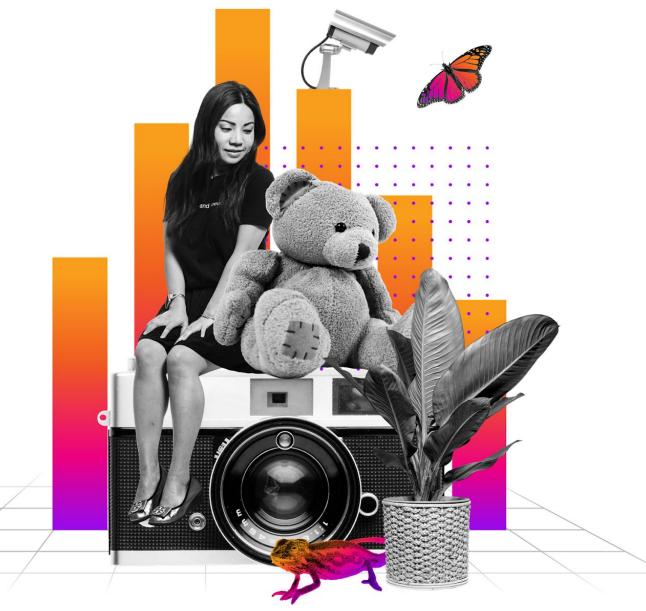


### **IR Dashboard Fields**

#### Incident Review - Event Attributes (?)

| filter        | Q               | < Prev 1 2 | 3 4 | 5 13 Next>    |
|---------------|-----------------|------------|-----|---------------|
| Field         | Label           |            |     |               |
| Computer IP   | Computer IP     |            |     | Edit   Remove |
| Intel Name    | Intel Name      |            |     | Edit I Remove |
| Computer Name | Computer Name   |            |     | Edit   Remove |
| num_hosts     | Number of hosts |            |     | Edit I Remove |
| id            | Alert ID        |            |     | Edit   Remove |
| body          | Alert Rody      |            |     | Edit   Remove |





# Endpoint Tooling Helper

Creating Metadata to Gain Better Insights



## **Security Tooling field**

Use this to indicate the source of the data you are bringing into the A&I Framework

This is helpful to identify hosts which have Splunk and other endpoint tooling enabled.

```
index="endpoint"
    rename hostname as nt_host, os AS OS
    stats values(domain) as domain, values(OS) as OS, values(ip) as ip, values(mac) as mac latest(_time) as last_checked_in by nt_host
    eval security_tooling="endpoint"
        add_meta(ep_last_discovered,last_checked_in)`
    search NOT ip=*ip*
        `remove_home_ip`
        `remove_ip_based_on_os`
        `multivalue_fields_for_lookup`
    outputlookup Assets_Identity_Endpoint_lookup.csv
```



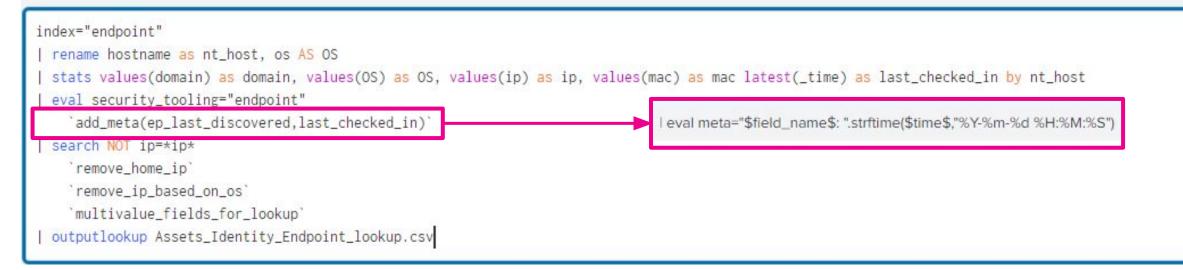
## Metadata field - Assets

Create the Metadata field

Standardize formats for data ingestion

Use date stamps to record the last interaction with the tooling being checked.

Example of endpoint checking dates





## **Extracting Metadata**

#### New Search

| `assets`<br>`extract_meta(ep_last_discovered)`<br>`extract_meta(sp_data_last_ingested)`<br>  table nt_host ep_last_discovered sp_las |                                  | rex field=meta "\$field_name\$\:\s(?<\$field_name\$>4 | 4)\-\d{2}\-\d{2}\s\d{2}\:\d{2})" |
|--|----------------------------------|---|----------------------------------|
| ✓ 4,967 results (before 4/18/22 4:54:33.000 PM)  | I) No Event Sampling 🔻           |   | ▼ doL                            |
| Events (0) Patterns Statistics (4,967)   | Visualization                    |   |                                  |
| 20 Per Page 🔻 🖌 Format 🛛 Preview 💌   |                                  |   | < Prev 1                         |
| nt_host \$   | <pre>ep_last_discovered \$</pre> | ✓ sp_last_discovered \$                               | ✓ sp_data_last_ingested \$       |
| canada_dev_03mdpy0z  | 2022-04-11 20:24:56              |   |                                  |
| canada_dev_04swmm01  | 2022-04-12 16:54:02              |   |                                  |
| canada_dev_0rmqh8dh  | 2022-04-12 16:54:02              |   | 2022-02-28 15:02:53              |
| canada_dev_0u3qzss0  | 2022-04-12 16:54:02              |   |                                  |
| canada_dev_11pirjdo  | 2022-04-12 16:54:02              |   | 2022-02-26 04:16:11              |
| canada_dev_16sacaai  | 2022-04-11 20:24:56              |   | 2022-03-05 13:44:27              |
| canada_dev_1d1qktyj  | 2022-04-11 20:24:56              |   | 2022-04-05 17:16:18              |
| canada_dev_1es6n8n6  | 2022-04-11 20:24:56              |   |                                  |
| canada_dev_1gfzpb9b  | 2022-04-11 20:24:56              |   |                                  |
| canada_dev_1k4kurpm  | 2022-04-11 20:24:56              |   |                                  |



# Dashboards



### **A&I Sources Dashboard**

|   |   |                |   |                        |               |                              |                   |                                    | E-IX            |                    |
|---|---|----------------|---|------------------------|---------------|------------------------------|-------------------|------------------------------------|-----------------|--------------------|
| Assets and Identities Sou                   | rces  |                |   |                        |               |                              |                   |                                    | Edit            | Export             |
| Name  |   |                |   |                        |               |                              |                   |                                    |                 |                    |
| splunk                                      | mit Hide Filters  |                |   |                        |               |                              |                   |                                    |                 |                    |
| Lookups                                     |   |                |   |                        |               |                              |                   |                                    |                 |                    |
| title ≎                                     |   | field          | ds_array 🗢                                    |                        |               | filename 🗢                   |                   |                                    |                 |                    |
| Assets_Identity_SplunkData_lookup           |   | las<br>met     | host<br>t_data_ingested<br>a<br>urity_tooling |                        |               | Assets_Identity_Splu         | nkData_lookup.csv |                                    |                 |                    |
| Assets_Identity_SplunkDS_lookup             |   |                | urity_tooling<br>host<br>a                    |                        |               | Assets_Identity_Splu         | nkDS_lookup.csv   |                                    |                 |                    |
| Reports                                     |   |                |   |                        |               |                              |                   |                                    |                 |                    |
| title 🗢                                     | search ≎  | disabled<br>\$ | is_scheduled                                  | next_scheduled_time \$ | cron_schedule | dispatch.earliest_time<br>\$ | eai:acl.app ≎     | id ≎                               |                 |                    |
| Assets_Identity_SplunkData_lookup<br>Report | <pre>  tstats latest(_time) as last_data_ingested where<br/>`splunk_data_indexes` by host<br/>  eval security_tooling="splunk"<br/>  rename host AS nt_host<br/>`add_meta(sp_data_last_ingested,last_data_ingested)`<br/>`remove_home_ip`<br/>`multivalue_fields_for_lookup`<br/>  outputlookup Assets_Identity_SplunkData_lookup.csv</pre> | 6              | 0   |                        |               | 0                            | DA_Assets_Helper  | https://es.soar.ssn.ngrid.net:8089 | /servicesNS/mco | cars3/DA_Assets_He |
| 4   |   |                |   |                        |               |                              |                   |                                    |                 | •                  |



Edit

Export

### **Debug Asset Data Dashboard**

#### **Debug Asset Data**

This is designed to debug issues with the A&I Framework sources. You can enter a hostname, IP, dns, or SID in the asset field and see the current set up in A&I and each feed from each source to identify issues. The source\_of\_data in the input panel shows which lookup is feeding that row of data.

| sset  |                          |          |               |              |                                    |          |       |           |                   |   |                      |               |              |
|---|--------------------------|----------|---------------|--------------|------------------------------------|----------|-------|-----------|-------------------|---|----------------------|---------------|--------------|
| germany_dev_ou5sf6ge  | bmit Hide Filters        |          |               |              |                                    |          |       |           |                   |   |                      |               |              |
| Asset Search  |                          |          |               |              |                                    |          |       |           |                   |   |                      |               |              |
| asset ≎   | asset_id \$              | bunit 🕈  | category<br>¢ | country<br>¢ | dns ≎                              | ip ¢     | lat ¢ | long ≎    | mac 🗢             | meta 🗢  | nt_host ≎            | owner 🗢       | pci_dom<br>¢ |
| germany_dev_ou5sf6ge.extdomain.com<br>10.185.108.157<br>da:b6:a8:84:34:76<br>germany_dev_ou5sf6ge | 6259c908357f871391136378 | services | server        | germany      | germany_dev_ou5sf6ge.extdomain.com |          |       | 10.451526 | da:b6:a8:84:34:76 | ep_last_discovered:<br>2022-04-12 16:54:02<br>sp_data_last_ingested:<br>2022-04-06 17:35:51 | germany_dev_ou5sf6ge | sean<br>payne | untrust      |
|   |                          |          |               | G            | et the Source o                    | f vour [ | Data  |           |                   | <pre>sp_last_checked_in:<br/>2022-04-06 17:35:51</pre>                                      |                      |               |              |

| M            |          |                |              |                                    |           |                |                       |                          |           |           |                   |   |                      |              |               |
|--------------|----------|----------------|--------------|------------------------------------|-----------|----------------|-----------------------|--------------------------|-----------|-----------|-------------------|---|----------------------|--------------|---------------|
| Inputs       |          |                |              |                                    |           |                |                       |                          |           |           |                   |   |                      |              |               |
| OS \$        | bunit 🕈  | category<br>\$ | country<br>¢ | dns 🕈                              | domain 🗢  | ip \$          | last_checked_in<br>\$ | last_data_ingested<br>\$ | lat ¢     | long ≎    | mac 🗢             | meta 🗢  | nt_host \$           | os 🗢         | owner 🗢       |
| solaris<br>8 |          |                |              |                                    | extdomain | 10.185.108.157 | 1649782442            |                          |           |           | da:b6:a8:84:34:76 | ep_last_discovered:<br>2022-04-12 16:54:02    | germany_dev_OU5SF6GE |              |               |
|              | Services | server         | germany      | germany_dev_OU5SF6GE.extdomain.com | extdomain | 10.185.108.157 |                       |                          | 51.165691 | 10.451526 | da:b6:a8:84:34:76 |   | germany_dev_OU5SF6GE | solaris<br>8 | Sean<br>Payne |
|              |          |                |              |                                    |           |                |                       | 1649266551               |           |           |                   | sp_data_last_ingested:<br>2022-04-06 17:35:51 | germany_dev_OU5SF6GE |              |               |
|              |          |                |              |                                    |           |                |                       |                          |           |           |                   | sp_last_checked_in:<br>2022-04-06 17:35:51    | germany_dev_OU5SF6GE |              |               |



### **Asset Search**

| Search for asset details Asset germany_dev_ou5sf6ge Sut  | omit Hide Filters |         |               |   |                    |       |   |                                    |                      |               | Edit      | Export  | •            |  |
|--|-------------------|---------|---------------|---|--------------------|-------|---|------------------------------------|----------------------|---------------|-----------|---------|--------------|--|
| Splunk Installed   | rue               |         |               | Splunk  | act                | ive   | Splunk Internal Data Status<br>inactive |                                    |                      |               |           |         |              |  |
| Splunk Last Checked In   | 0                 |         |               |   | Data Last Ingested | 6 17: | 35:                                     | Splunk Internal Data Last Ingested |                      |               |           |         |              |  |
| asset \$   | asset_id \$       | bunit 🕈 | category<br>¢ | country<br>¢  | dns ≎              | ip 🗢  | lat 🗢                                   | long 🗢                             | mac 🗢                | meta 🗢        | nt_host ≎ | owner 🗢 | pci_don<br>¢ |  |
| germany_dev_ou5sf6ge.extdomain.com 6259c908357f871391136378 services server<br>10.185.108.157<br>da:b6:a8:84:34:76<br>germany_dev_ou5sf6ge |                   |         |               | germany germany_dev_ou5sf6ge.extdomain.com 10.185.108.157 51.165691 10.451526 |                    |       |   | da:b6:a8:84:34:76                  | germany_dev_ou5sf6ge | sean<br>payne | untrust   |         |              |  |

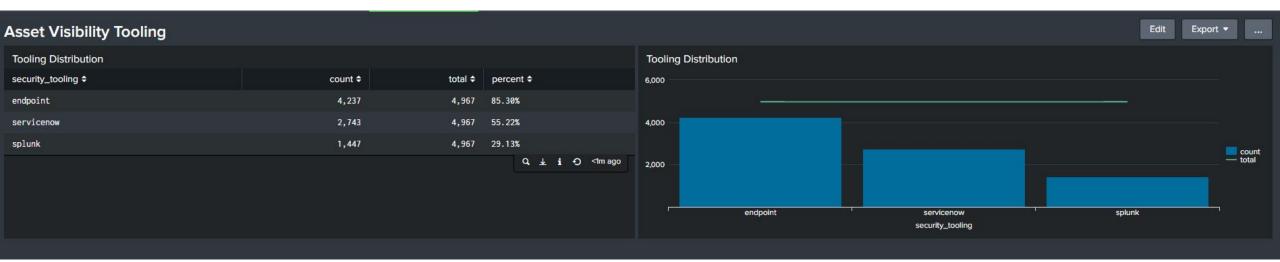


## **Identity Search**

| Identity Search          |  |                    |               |                                     |              |         |   |                    |           |                |           |            |             |            | Edit           | Export 🔻      |             |
|--------------------------|--|--------------------|---------------|-------------------------------------|--------------|---------|---|--------------------|-----------|----------------|-----------|------------|-------------|------------|----------------|---------------|-------------|
| andrew.mackenzie         | Submit   |                    |               |                                     |              |         |   |                    |           |                |           |            |             |            |                |               |             |
| Results                  |  |                    |               |                                     |              |         |   |                    |           |                |           |            |             |            |                |               |             |
| identity_id ≎            | UUID \$  | bunit ≎            | category<br>¢ | email 🕈                             | endDate<br>¢ | first 🗢 | identity ≎  | identity_tag<br>¢  | last ≎    | managedBy<br>¢ | nick<br>≑ | phone<br>¢ | prefix<br>≎ | priority 🗢 | startDate<br>¢ | e suffix<br>≑ | watchl<br>¢ |
| 6259a62bc12a7464e77a1481 | b478c76c-<br>1057-4a99-<br>9d0a-<br>f965f05825ce | human<br>resources |               | andrew.mackenzie@buttercupgames.com |              | andrew  | b478c76c-1057-4a99-9d0a-<br>f965f05825ce<br>andrew.mackenzie<br>andrew.mackenzie@buttercupgames.com | human<br>resources | mackenzie |                |           |            |             | critical   |                |               |             |
| A                        |  |                    |               |                                     |              |         |   |                    |           |                |           | 1          |             |            |                |               |             |

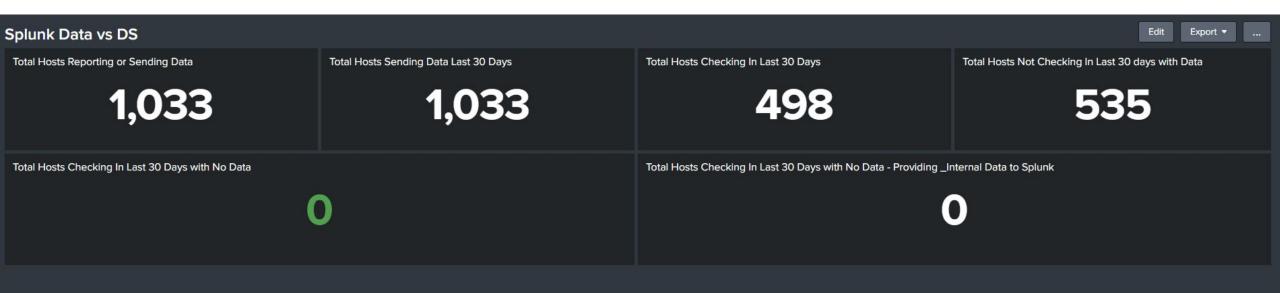


## **Tooling Visibility**





### **Splunk DS/UF Data Trends**







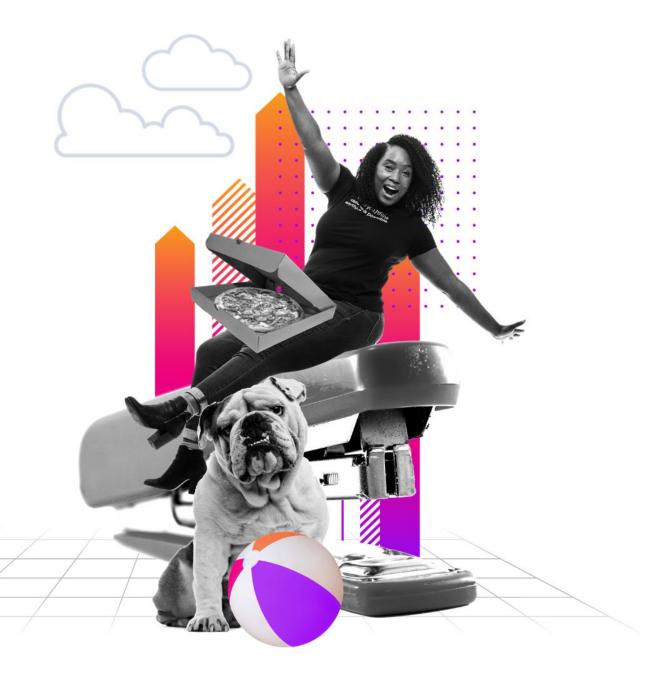
# Demo





# **Next Steps**



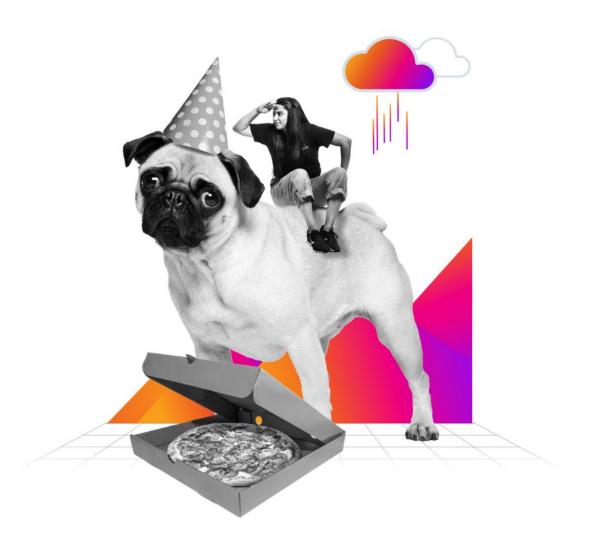


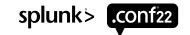
- Risk Based Alerts
- VIP
- Priority-based
- Watch List



 Manage new assets/identities

 Age out old assets/identities









### **Download the helper app**

https://splunkbase.splunk.com/app/6406/



# Thank You



