Cover Your Assets

Protect Your Knowledge Objects from Yourself (and Others) - A Paychex story

Dustin Marling and Eric Favreau

2019-08 | v2
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For legal purposes, we know nothing, and shouldn’t be thought of as knowledgeable about anything.

Remember this part – it'll be important later on.
How did this get started?
How did this get started?

Dustin R Marling // 12:17

Hey Dude

Eric D Favreau // 12:17

What’s Up?

Dustin R Marling // 12:17

Did you talk to the Splunk admins yet?

Eric D Favreau // 12:17

No. Why?

Dustin R Marling // 12:17

I think we’ve lost 2 months of knowledge objects

Eric D Favreau // 12:17

That’s not funny

Eric D Favreau // 12:17

You serious?

Dustin R Marling // 12:17

Yes
Who are these guys?

Dustin Marling
- Splunk Developer
- Splunk Power User – 5 years
- Analyzes Client Production Errors, Incidents, and Impacts
- Works in a high visibility environment
  -.linkedin.com/in/dmarlingsplunk/

Eric D. Favreau
- Service Health Operations Analyst
- Splunk Power User – 6 years
- Analyzes Client Experience in Production Products
- Works in a high visibility environment
  -linkedin.com/in/efavreau/
About Paychex

Paychex is a leading provider of integrated human capital management solutions for payroll, human resources, retirement, and insurance services. By combining its innovative software-as-a-service technology and mobility platform with dedicated, personal service, Paychex empowers small- and medium-sized business owners to focus on the growth and management of their business.

Backed by more than 45 years of industry expertise, Paychex serves over 670,000 payroll clients as of May 31, 2019, across more than 100 locations in the U.S. and Europe, and pays one out of every 12 American private sector employees.
# Paychex Market Leadership

<table>
<thead>
<tr>
<th>Payroll</th>
<th>HR</th>
<th>Retirement</th>
<th>Insurance</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 small business</td>
<td>1.5 million worksite employees</td>
<td>#1 recordkeeper in the U.S. by number of plans*</td>
<td>20th largest insurance agency in the U.S.**</td>
</tr>
<tr>
<td>#2 mid-market</td>
<td>52,000 clients</td>
<td>87,000 clients served</td>
<td>$2.4+ billion in premiums paid</td>
</tr>
<tr>
<td>~12 million people paid</td>
<td>Inc.com Best HR Outsourcing for SMBs</td>
<td>1 million participants</td>
<td>125,000 insurance clients</td>
</tr>
</tbody>
</table>

* Listing by PLANSPONSOR magazine

** Listing by Business Insurance magazine
Paychex Awards + Recognition
If you don’t know Paychex yet

Remember those “Forward looking statements” and “Safe Harbor” parts?

Good.
Splunk @ Paychex

Numbers about our Splunk environment

416k Searches Daily
6TB Daily Ingestion
70 Number of indexers @ 16 CPU & 24GB RAM
4392 Unique Production Dashboards
>500 Unique users per day
What happened
What we thought was lost and how we lost it.

How it happened.

Here’s the amount of updates we thought we lost:

<table>
<thead>
<tr>
<th>Type</th>
<th>Modifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>lookups</td>
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<tr>
<td>views</td>
<td>3066</td>
</tr>
<tr>
<td>savedsearches</td>
<td>1644</td>
</tr>
<tr>
<td>ui-tour</td>
<td>221</td>
</tr>
<tr>
<td>macros</td>
<td>163</td>
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<td>extract</td>
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</tr>
<tr>
<td>viewstates</td>
<td>81</td>
</tr>
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<td>eventtypes</td>
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<td>datamodels</td>
<td>14</td>
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<tr>
<td>models</td>
<td>14</td>
</tr>
<tr>
<td>report</td>
<td>11</td>
</tr>
<tr>
<td>transforms</td>
<td>10</td>
</tr>
</tbody>
</table>
I have so much that I want to do. I hate wasting time.”

Stephen Hawking
What can I do?

I want to save time and effort from loss

Goals for

1) Export
2) Import
3) Audit
4) Simple
Not in Scope

Things considered and ruled out

---------------------------

Enterprise Backups

Apps in Splunkbase

Integration into your favorite source control system

Anything involving your admins (nice people, we’re sure)
Hold up… Knowledge Object?

Right. So a knowledge object is:

Splunk Enterprise knowledge objects include saved searches, event types, tags, field extractions, lookups, reports, alerts, data models, transactions, workflow actions, and fields.

For our purposes, we are stretching this definition to include anything where you invest time to create/customize items, like dashboards and macros. Collectively, we’ll call them Assets.

Source: https://docs.splunk.com/Splexicon:Knowledgeobject
Solution Genesis

Where’s my stuff and how do I get it from Splunk?
How many assets?

Let’s start small; with only the most important assets - MINE

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Macros</td>
<td>103</td>
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<tr>
<td>Dashboards</td>
<td>298</td>
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<tr>
<td>Reports/Saved Searches</td>
<td>365</td>
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<tr>
<td>Lookups</td>
<td>200</td>
</tr>
<tr>
<td>Field Extractions</td>
<td>236</td>
</tr>
</tbody>
</table>
I can’t do this one by one
Using the API might help – decisions to make

Which API Path? → Which Splunk App & Which User?
Which format do I want to use? → JSON, XML, or CSV?
How do I invoke? → Look for examples in Splunk Docs, Splunk Answers, DuckDuckGo?
Do I want to RTFM? → Not really
CYA Master Query
The one query to rule them all

```
union maxtime=300 timeout=300
[ rest splunk_server="local" /servicesNS/~data/ui/views | eval Type="view" | fields - type description label]
[ rest splunk_server="local" /servicesNS/~data/props/calcfields | eval Type="calculated fields" | fields - type field | rex field=title " : \[\{\}\]+=\(\?\{title\}\{\}\]+)"
[ rest splunk_server="local" /servicesNS/~data/props/fieldaliases | eval Type="field aliases" | fields - type value | rex field=title " : \[\{\}\]+=\(\?\{title\}\{\}\]+)"
[ rest splunk_server="local" /servicesNS/~data/transforms/extractors | eval Type="field transformations" | fields - type]
[ rest splunk_server="local" /servicesNS/~data/props/extractors | eval Type="extractors" | rex field=title " : \(\?\{type\}\{\}\]+)"
[ rest splunk_server="local" /servicesNS/~data/props/sourceType-rename | eval Type="sourceType renaming" | fields - type stanza]
[ rest splunk_server="local" /servicesNS/~data/transforms/lookups | eval Type="lookup table files"
[ rest splunk_server="local" /servicesNS/~data/views | eval Type="Time Ranges" | fields - type]
[ rest splunk_server="local" /servicesNS/~data/props/searches | search NOT search="noop" | eval Type="Saved Searches/Alerts/Reports" | fields - type]
[ rest splunk_server="local" /servicesNS/~data/models | eval Type="Data Models" | fields - type]
[ rest splunk_server="local" /servicesNS/~data/eventtypes | eval Type="Event Types" | fields - type | eval tags=mvjoin(tags,",")]
[ rest splunk_server="local" /servicesNS/~data/lookups | eval Type="List by Field value pair" | fields - type]
[ rest splunk_server="local" /servicesNS/~data/tags | eval Type="List by tag name" | fields - type]
[ rest splunk_server="local" /servicesNS/~admin/tags | eval Type="Tags" | rex field=field_name_value "(?<field_name>\{\}\]+)=\(?<field_value>\{\}\]+)"
```

...
Begin with a `union` command to allow multiple rest calls to be executed.

Iterate through the different rest end points that contain your assets.
Format the `updated` data to an epoch time with `strftime`

Add a `_time` field set to `now()` to know when you extracted the data from Splunk.
| union maxtime=300 timeout=300 |
| rest splunk_server="local""/servicesNS/-/data/ui/views" | eval Type="view" | fields - type description label |
| rest splunk_server="local""/servicesNS/-/data/props/calcfields" | eval Type="calculated fields" | fields - type field. | rex field=title " : [^\n]+-(?<title>[^\n]+)" |
| rest splunk_server="local""/servicesNS/-/data/props/fieldaliases" | eval Type="field aliases" | fields - type value | rex field=" : [^\n\-]+-(?<title>[^\n\-]+)"

Add a search filter
Format any arrays to comma separated results using foreach.
Add a table command to make the output in a consumable format
Machine Learning Toolkit
Assets
A little different than Enterprise Splunk
MLTK Master Query

| rest splunk_server="local"
|   [] rest splunk_server=local /services/authentication/current-context
| table username
| rename username as search
| eval search="servicesNS/".search."/Splunk_ML_Toolkit/mltk/experiments"
| eval Type="MLTK experiments"
| eval entry= spath(value, "entry{}")
| mvexpand entry
| table Type entry
| spath input=entry
| search author=[] makeresults count=1 | eval username="$username$" | eval search="".mvfilter(NOT match(username,"username"))."" | table search | append
|   [] rest splunk_server=local /services/authentication/current-context | table username | rename username as search | eval search="".search.""[]
|   | stats list(search) as search | eval search=mvindex(search, 0)]
| fields – entry
IT Service Intelligence

Also a little different than Enterprise Splunk
ITSI Master Query

| union maxtime=300 timeout=300
  | [| rest splunk_server=local /servicesNS/-/-/itoa_interface/glass_table | eval Type="ITSI Glass Tables"]
  | [| rest splunk_server=local /servicesNS/-/-/itoa_interface/home_view | eval Type="ITSI Home View"]
  | [| rest splunk_server=local /servicesNS/-/-/itoa_interface/deep_dive | eval Type="ITSI Deep Dive"]
  | [| rest splunk_server=local /servicesNS/nobody/SA-ITOA/itoa_interface/event_management_state | eval Type="ITSI Event Management State"]
| fields Type value
| eval value= spath(value, "{}")
| mvexpand value
| table Type value
| spath input=value
| search "acl.owner"=|[| makeresults count=1 | eval username="$username$" | eval search=\"".mvfilter(NOT match(username,"username"))).\"\" | table search | append
  | [| rest splunk_server=local /services/authentication/current-context | table username | rename username as search | eval search="\"".search."\""]
  | [| stats list(search) as search | eval search=mvindex(search, 0)]
| eval _time=now()
| fields - value
| table _time Type acl.appauthor acl.perms.read acl.perms.write *
I have other stuff

We’ll teach you how to fish
How to Fish for Assets
Finding more API endpoints on your own

Identify something missing
Navigate to it in the GUI settings
Observe URI in browser
Use URI segment in REST API call
Profit!
Let’s find something missing
We left out Scheduled Views

Step 1
- User interface
  - Time ranges
  - Views
  - Navigation menus
  - Prebuilt panels
  - Bulletin messages

Step 2
- User interface

Step 3
- View PDF scheduling
  - Name: _ScheduledView__dont_touch_my_drumset
  - Scheduled Time: None
  - To: efavreau@exa
Can we use this URI in a rest call?

It worked! Add this to the CYA query now!
“If you have two, you have one. If you have one, you have none.”

Unknown
Importing Assets

How do we get it back into Splunk?
Import your CYA file into Splunk
Lots of options – let’s look at the GUI

Step 1

Step 2

Step 3
null
Inputlookup or search the summary indexed data to retrieve the Assets you want to import

Table a list of fields you want to include in your import command

Foreach the same field list except id, type, and title to url encode the contents
### rex sed statement for the “id” field to insert the domain/splunk server name you will be importing to

```bash
rex field=id mode=sel "s/(https?://\d{1,3}\.\d{1,3}\.\d{1,3}\d{1,3}:8089/localhost:8089\/)g"
```

### foreach a list of fields you want to include in your import command

```bash
foreach "eai:data" "eai:acl.sharing" "eai:acl.perms.read" "eai:acl.perms.write" search definition stanza value transform tag* filename fields_list collection external_type disabled description *cron* is_scheduled schedule_window action* alert* args errormsg validation earliest_time latest_time header_label label order display_location fields eventtypes REGEX FORMAT link.* search.* display.* type alias.* field* overwrite lookup.*
```

### eval is used to insert your auth token

```bash
eval AuthToken=PUT AUTH TOKEN HERE
```
Eval and then rex statement create a “create” version of the id
eval is used to create two different versions of cURL commands.
One to create and one to update.
# Putting things back where they were

Context is key for restoration

## Importing one Asset

Use the GUI (easiest)

## Importing many Assets

Making it easy to restore in a batch is more than a little difficult

- Escaping issues
  - Think rex

How do we reduce the number of steps needed?

## Make importing simple

- Season CYA import query to taste
- Get the cURL commands automagically (you’re welcome)
- Import 1 or more Assets as needed
  - In case of disaster
  - Move it to other systems (HUGE BONUS!)
Cover Your Assets from Yourself

Self-inflicted losses are WAY more likely
Cover Your Assets from Yourself
Self-Inflicted losses

- Output to a Lookup file / KV Store
- Collect into a Summary Index
- DIY Version Control
- Weekend brain drain protection
- Easier than using cURL every time
- You can NOT email it!
Searching your CYA lookup file

What's that look like?
Auditing

OK... Who touched my stuff?
<table>
<thead>
<tr>
<th>_time</th>
<th>user</th>
<th>app</th>
<th>object_name</th>
<th>object_type</th>
<th>activity</th>
<th>author</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-03-04 16:11:9.272</td>
<td>dmario</td>
<td>search</td>
<td>dustins_trumbone_dashboard</td>
<td>ui_views</td>
<td>Deleted</td>
<td>efavreau</td>
</tr>
<tr>
<td>2019-03-04 16:00:54.348</td>
<td>dmario</td>
<td>search</td>
<td>don't_touch_my_drumset</td>
<td>ui_views</td>
<td>Edited</td>
<td>efavreau</td>
</tr>
<tr>
<td>2019-03-04 16:00:10.412</td>
<td>efavreau</td>
<td>EricBigAssets.csv</td>
<td>lookup-table-files</td>
<td>Deleted</td>
<td>Edited</td>
<td>efavreau</td>
</tr>
<tr>
<td>2019-03-04 16:00:47.484</td>
<td>efavreau</td>
<td>EricBigAssets.csv</td>
<td>lookup-table-files</td>
<td>Permissions Update</td>
<td>Permissions Update</td>
<td>efavreau</td>
</tr>
<tr>
<td>2019-03-04 16:00:20.291</td>
<td>dmario</td>
<td>search</td>
<td>dustins_trumbone_dashboard</td>
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<td>Permissions Update</td>
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</tr>
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<td>dustins_trumbone_dashboard</td>
<td>ui_views</td>
<td>Permissions Update</td>
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</tr>
<tr>
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<td>ui_views</td>
<td>Permissions Update</td>
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<td>ui_views</td>
<td>Permissions Update</td>
<td>efavreau</td>
</tr>
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<td>2019-03-04 15:50:37.192</td>
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<td>search</td>
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<td>ui_views</td>
<td>Permissions Update</td>
<td>efavreau</td>
</tr>
<tr>
<td>2019-03-04 15:49:06.599</td>
<td>efavreau</td>
<td>search</td>
<td>don't_touch_my_drumset</td>
<td>ui_views</td>
<td>Permissions Update</td>
<td>efavreau</td>
</tr>
</tbody>
</table>
CYA Audit Query

(index=_internal (sourcetype="splunkd_ui_access" OR sourcetype="splunkd_access") (method="POST" OR method="DELETE") (uri_path="/servicesNS/*" uri_path="/user-prefs/" uri_path="/servicesNS/*/jobs/control" uri_path="/servicesNS/mobile_access" uri_path="/search/jobs" uri_path="/ui/prefs" uri_path="/search/parser" uri_path="/search/intentionsparser") (user="splunk-system-user" user="" user="admin") status<300) OR (index=_audit |outputlookup search=* NOT "index=_audit" NOT "index=_" NOT user=splunk-system-user) replace "/ui/views" WITH "/ui_views", "/props" WITH "/distributed_peers", "/server/serverclasses" WITH "/server_class" IN uri_path

where mvcount(split(uri_path,"/")) > 6

eval activity = case(
  method=="POST",
  AND like(uri_path, "%acl"), "Permissions Update",
  AND like(uri, "%trigger.condition_state"), "Scheduled Search",
  AND like(uri_path, "%dispatch"), "Dispatch",
  AND NOT like(uri_path, "%acl"), "Edited",
  method=="DELETE", "Deleted",
  index="_audit", "Edited"
)

eval object_name = coalesce(object_name, modfile)
eval object_type = if(NOT index="_audit", object_type, "lookup-table-files")
eval app=coalesce(app, app2)
eval joiner=app.object_name
eval author=if(index="_audit", null(), author)

join joiner type=left

[] inputlookup EricsBigAssets.csv | eval joiner=coalesce(eai:acl.app,'acl.app').title | table joiner author

| join object_name type=left
[] inputlookup EricsBigAssets.csv | eval object_name=title | table object_name author2

| eval author=coalesce(author, author2)
| eval object_name = urldecode(object_name)
| where isnotnull(object_name)
| table _time, user, app, object_name, object_type, activity
| sort _time
CXA Audit Query

```
(index=internal sourcetype="splunkd_ui_access" OR sourcetype="splunkd_access") (method="POST" OR method="DELETE") (uri_path="/servicesNS/*" uri_path="/servicesNS/*/mobile_access" uri_path="/search/jobs" uri_path="/search/intentionsparser") (user!="splunk-system-user" user!="admin") status<300) OR (index=_audit | outputlookup "search=* NOT "index=_audit" NOT index=_* NOT user=splunk-system-user) | replace "/ui/views/" WITH "*/ui_views/", "/props/" WITH "*/props/", "/distributed/peers/" WITH "*/distributed_peers/", "/server/serverclasses/" WITH "*/server_class/" IN uri_path | where mvcount(split(uri_path, "/")) > 6
```
Create an activity field with `eval` to translate uri’s to actions
Join in your assets lookup file so it only looks are assets in your lookup file
List the results in a `table` format
As a single user, with no special permissions, using native tools, you can use:

1. CYA Master Query for Splunk Enterprise (export the Assets to a file or lookup)
   - CYAMLTK query
   - CYAITSI query

2. CYA Import Query (to get the curl commands for importing Assets)

3. CYA Audit Query (to see what’s been touched and when)
Don't Touch My Drumset

this is my office and my beat laboratory
Summary and Conclusion

Cover Your Assets before you go home!

Have a user-level CYA plan. At least for you.

You can save your own time and effort. Be the hero in your story. Be empowered!

These queries can provide benefits right now.
Making it even simpler

https://github.com/paychex/splunk.conf19
References
Citing sources


Thank You!

Go to the .conf19 mobile app to RATE THIS SESSION
Q&A

Dustin Marling | Splunk Developer
Eric D. Favreau | Service Health Operations Analyst
Let’s follow Eric who is going to Cover His Assets on an important dashboard

Also note Dustin’s contribution
Don’t Touch My Drumset

This is my office and my beat laboratory
```
| rest splunk_server="local" |
| rest splunk_server-local/services/authentication/current-context |
| table username |
| rename username as search |
| eval search="servicesML.search"/Splunk_ML_Toolkit/mlkit/experiments" |
| eval type="MLT experiments" |
| eval entry="spath(value, "entry")" |
| eval type="MLT Experiments" |
| expand entry |
| table type entry |
| spath input=entry |
| search author= |
| makeresults count=1 |
| eval username="Username" |
| eval search="" + match(username, username) + "," |
| table search |
| append |
| rest splunk_server="local"/services/authentication/current-context |
| table username |
| rename username as search |
| eval search="" + match(username, username) + "," |
| stats list(search as search) |
| eval search=mindex(search, 0) |
```

Don’t Touch My Drumset

This is my office and my beat laboratory.
Don't Touch My Drumset

this is my office and my beat laboratory

I touched your drumset
Don't Touch My Drumset

this is my office and my beat laboratory

I touched your drumset
inputlookup "friendship.csv" 

# Table 1: Definition of Stanzas

<table>
<thead>
<tr>
<th>Collection</th>
<th>External Type</th>
<th>Disabled Description</th>
<th>crontab</th>
<th>Schedule Window</th>
<th>Alert</th>
<th>Args</th>
<th>Error Handling</th>
<th>Validation</th>
<th>Maximum Warning</th>
<th>Maximum Error</th>
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</thead>
<tbody>
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<td>external_type</td>
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</tr>
</tbody>
</table>

# Table 2: Transform Tag

<table>
<thead>
<tr>
<th>Transform Tag</th>
<th>filename</th>
<th>fields_list</th>
<th>collection</th>
<th>external_type</th>
<th>disabled_description</th>
<th>crontab</th>
<th>Schedule Window</th>
<th>Alert</th>
<th>Args</th>
<th>Error Handling</th>
<th>Validation</th>
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<th>Maximum Error</th>
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</tr>
<tr>
<td>fields</td>
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</tr>
</tbody>
</table>

# Table 3: REST API Calls

<table>
<thead>
<tr>
<th>Method</th>
<th>URL</th>
<th>Headers</th>
<th>Data</th>
<th>Status Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>/api</td>
<td>Accept</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>POST</td>
<td>/api</td>
<td>Authorization</td>
<td></td>
<td>200</td>
</tr>
</tbody>
</table>
Don't Touch My Drumset

this is my office and my beat laboratory

I touched your drumset
Don’t Touch My Drumset

this is my office and my beat laboratory
End of Demo