Splunk4Rookies -Splunk Connect for Syslog (SC4S)

Lab Guide



Overview

This lab guide contains the hands-on exercises for the Splunk4Rookies - Splunk Connect for Syslog (SC4S) workshop and is a companion to the full workshop slides to assist you with configuration file contents and flow.

Before proceeding with these exercises, please ensure that you have a copy of the workshop slide deck, which will help to put into context the tasks you are carrying out.

Download the workshop slide deck: https://splk.it/S4R-SC4S-Attendee

Prerequisites

In order to complete these exercises, you will need your own Splunk instance. The presenter delivering your workshop will give you a unique URL for your event, which will allow you to register and create your own Splunk instance.

Please follow the steps provided by the presenter to get access to Splunk!

▲ Troubleshooting Connectivity

If you experience connectivity issues with accessing either your workshop environment or the event page, please try the following troubleshooting steps. If you still experience issues please reach out to the team running your workshop.

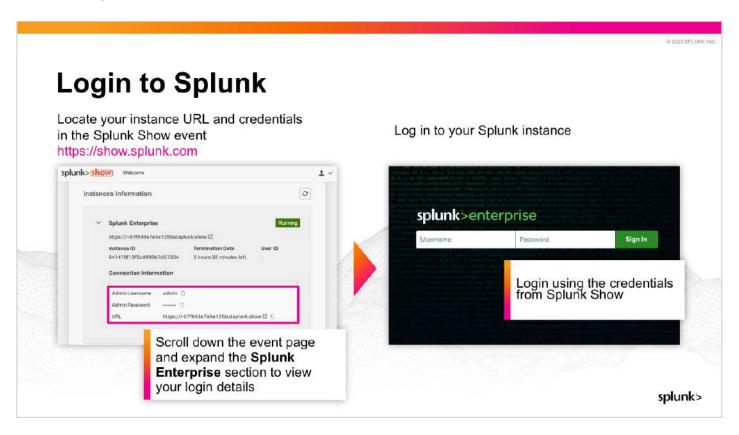
- **Use Google Chrome** (if you're not already)
- If the event page (i.e. https://show.splunk.com/event/<eventID>) didn't load when you clicked on the link, try refreshing the page
- **Disconnect from VPN** (if you're using one)
- Clear your browser cache and restart your browser (if using Google Chrome, go to: Settings > Privacy and security > Clear browsing data)
- Try using private browsing mode (e.g. Incognito in Google Chrome) to rule out any cache issues
- Try using another computer such as your personal computer all you need is a web browser! Cloud platforms like AWS can often be blocked on corporate laptops.

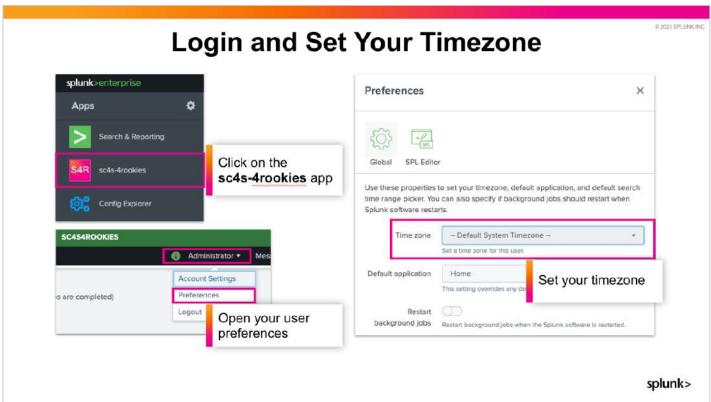
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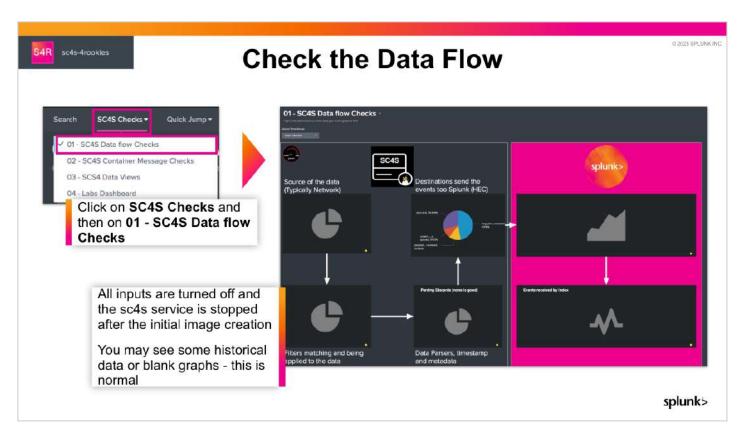
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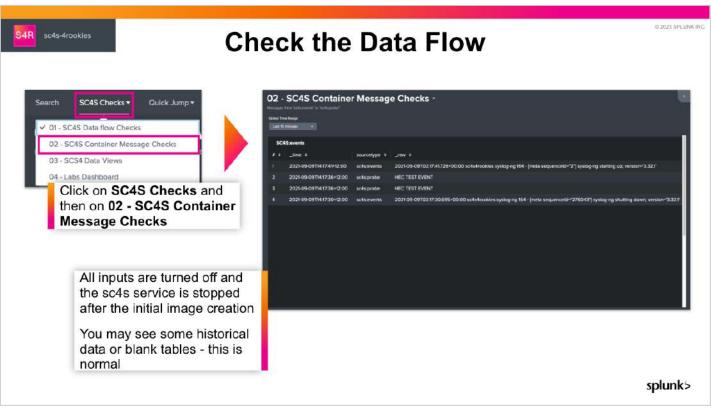
Labs: SC4S 101

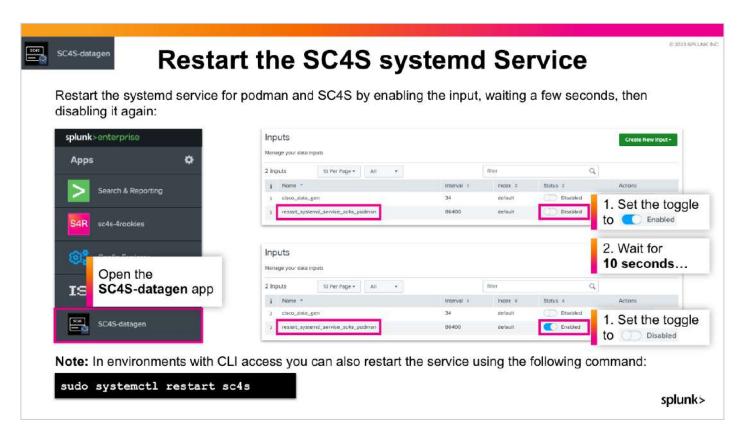
Lab 1: Setup Your Environment



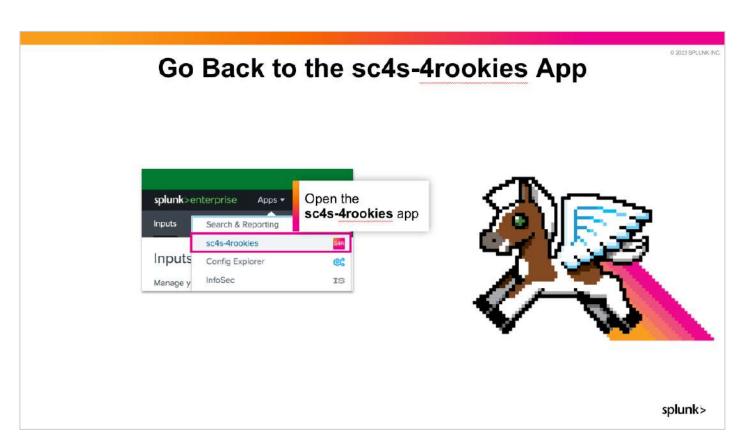


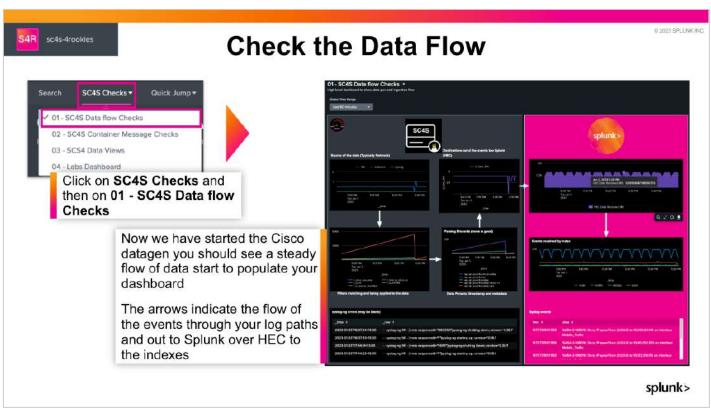


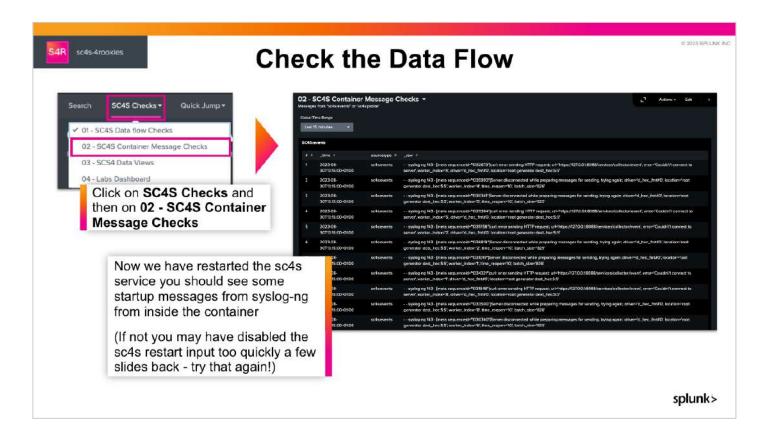












Lab 2: Introduction to Search

Q. How would you find <u>DNS</u> events that are NOT <u>.google.com</u>?

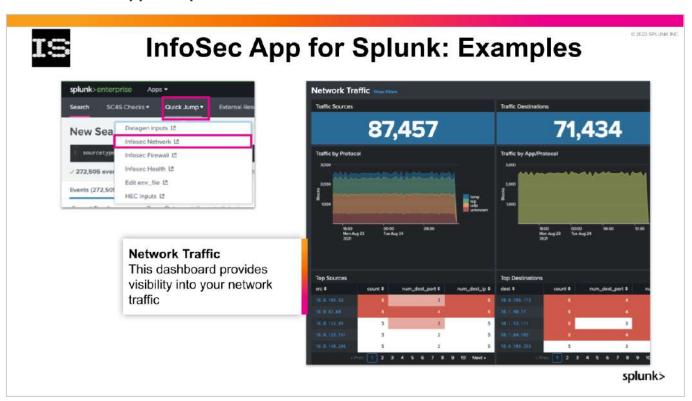
Possible answers:

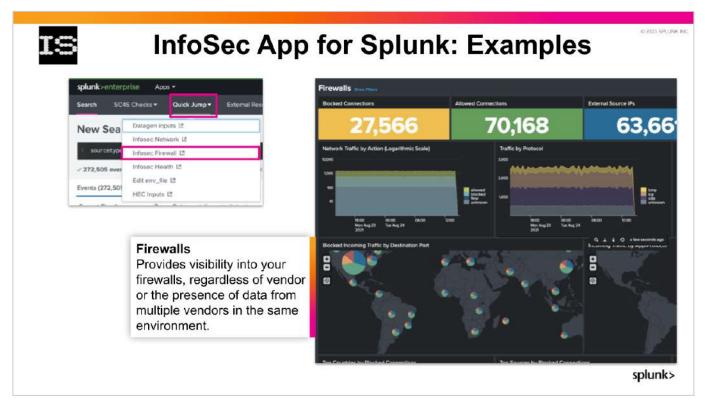
dns NOT *.google.com
dns query!=*.google.com

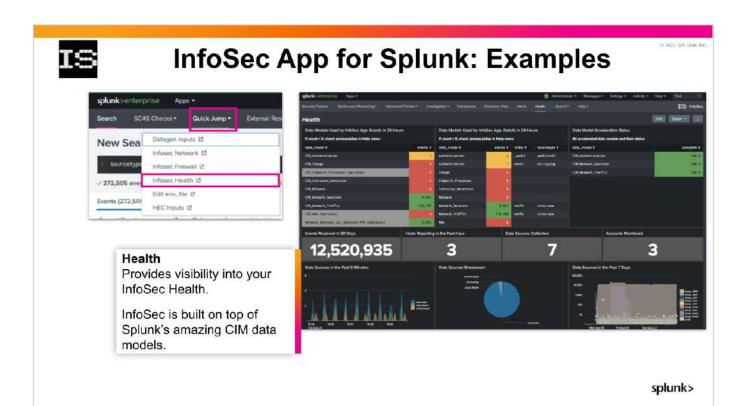


For more information on the difference between NOT and != please see https://docs.splunk.com/Documentation/Splunk/latest/Search/NOTexpressions.

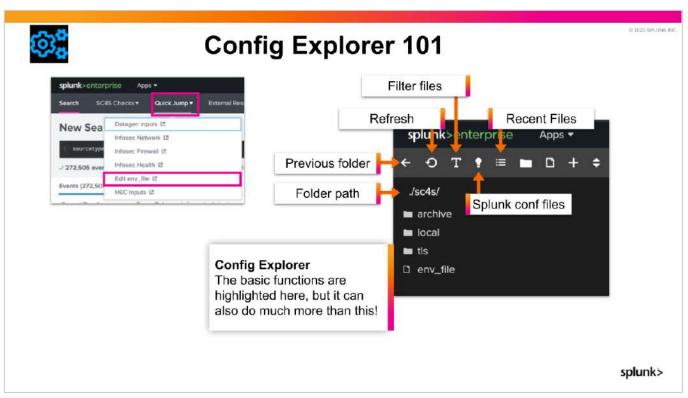
Lab 3: InfoSec App for Splunk

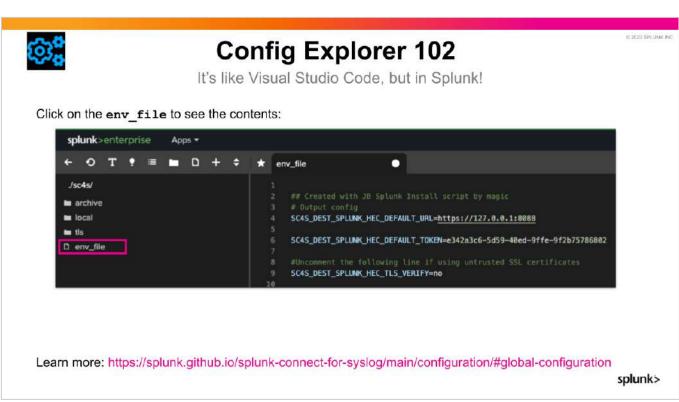




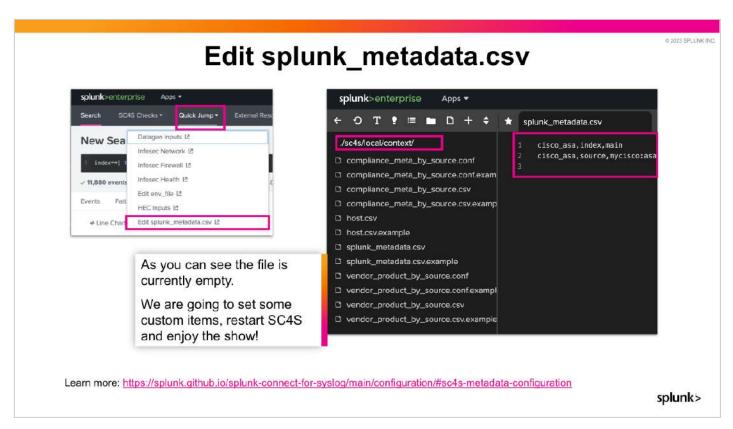


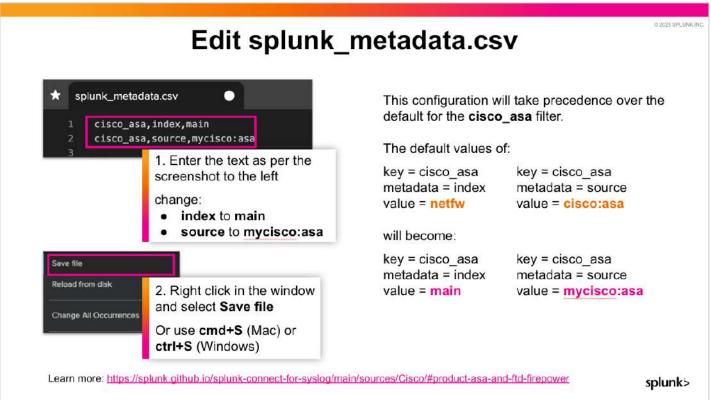
Lab 4: Config Explorer





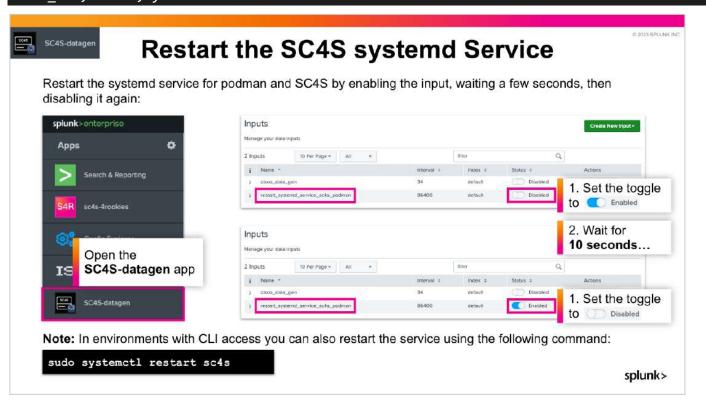
Lab 5: Set a Custom Index and Source





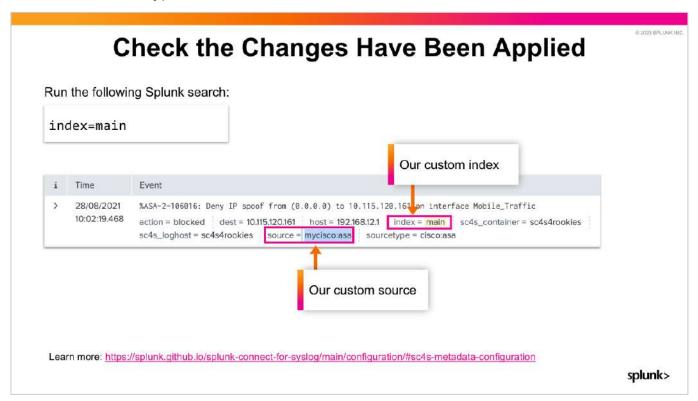
Splunk_metadata.csv contents:

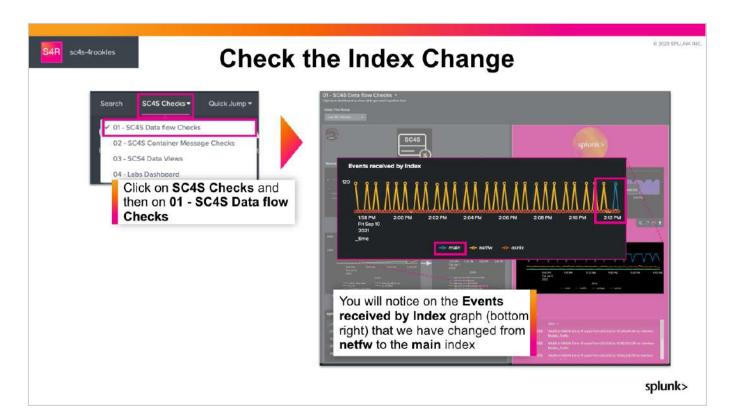
cisco_asa,index,main cisco_asa,source,mycisco:asa



Example search to check the changes have been applied:

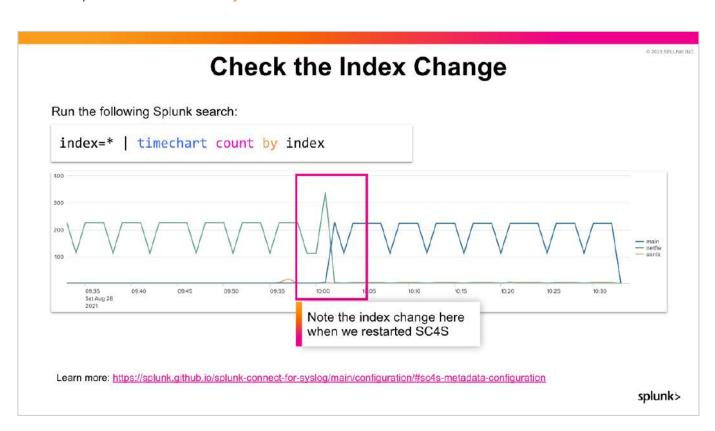
index=main sourcetype=cisco:asa





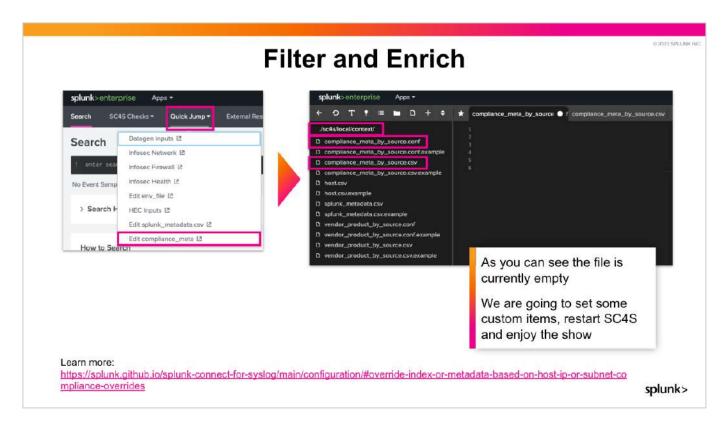
Example search to see index changeover:

index=* | timechart count by index



Labs: SC4S 201

Lab 6: Set a Custom Filter

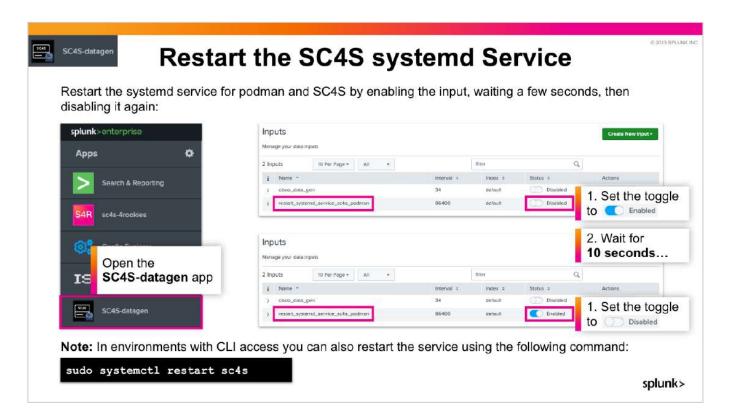


Compliance_meta_by_source.conf contents:

```
filter f_sc4s {
   host("192.168.12.*" type(glob)) or
   netmask(192.168.12.0/24)
};
```

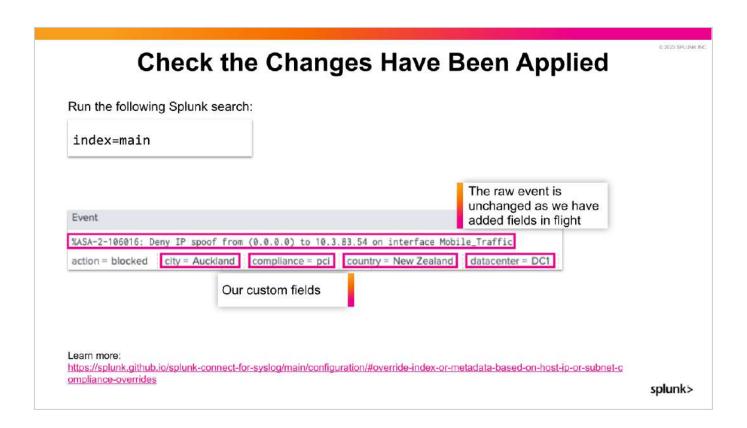
Compliance_meta_by_source.csv contents:

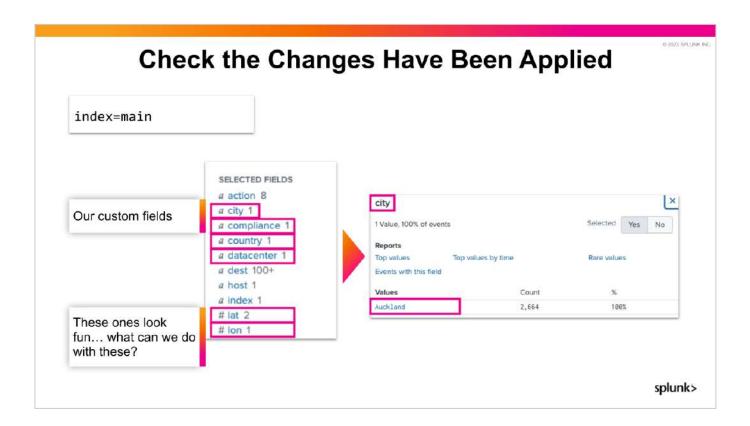
```
f_sc4s,fields.compliance,"pci"
f_sc4s,fields.datacenter,"DC1"
f_sc4s,fields.city,"Auckland"
f_sc4s,fields.country,"New Zealand"
f_sc4s,fields.lat,"-36.8509"
f_sc4s,fields.lon,"174.7645"
```



Example search to check events:

index=main

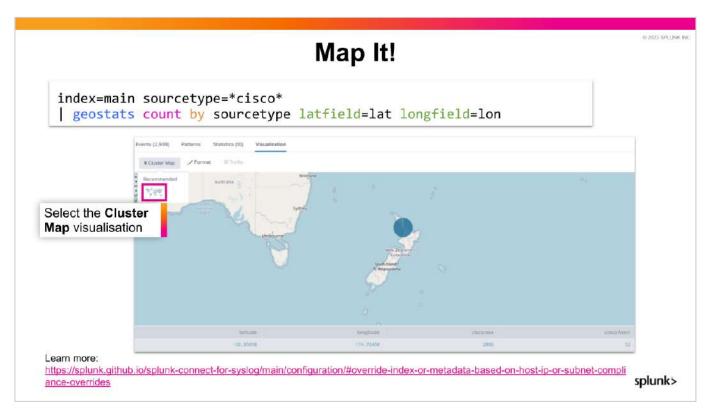




Example search to check events:

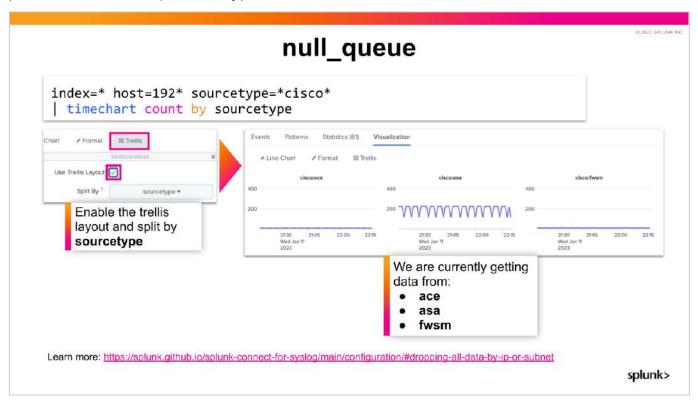
index=main sourcetype=*cisco*

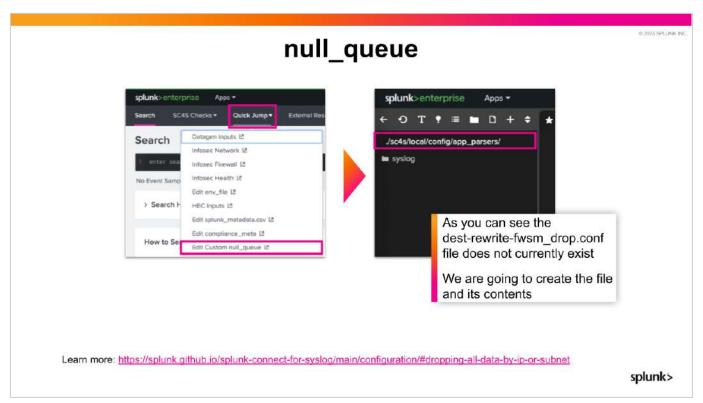
| geostats count by sourcetype latfield=lat longfield=lon

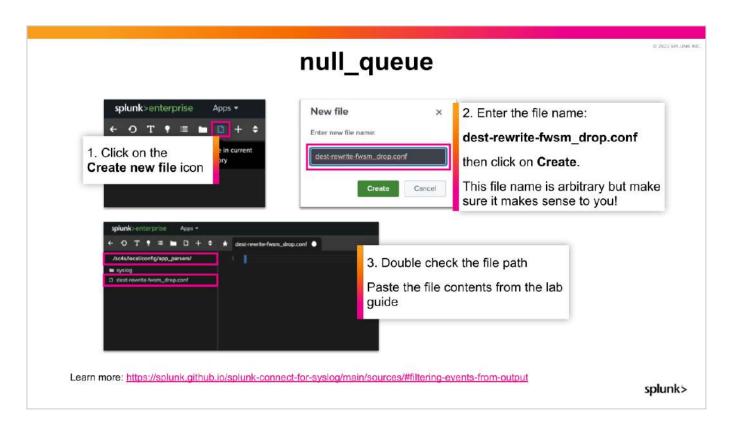


Lab 7: null_queue

index=* host=192* sourcetype=*cisco*
| timechart count by sourcetype





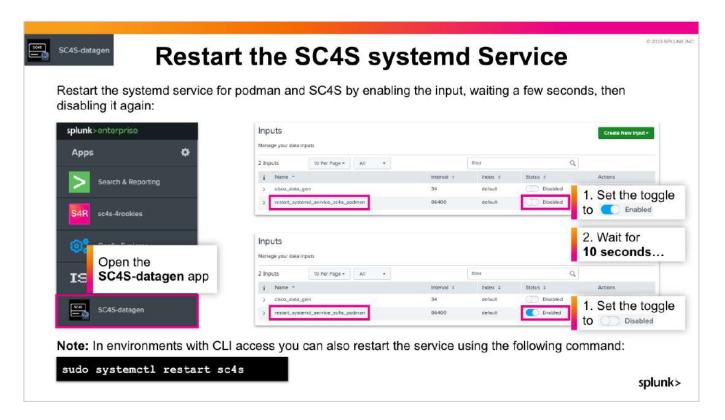


dest-rewrite-fwsm_drop.conf:

```
# /opt/splunk/sc4s/local/config/app_parsers/dest-rewrite-fwsm_drop.conf

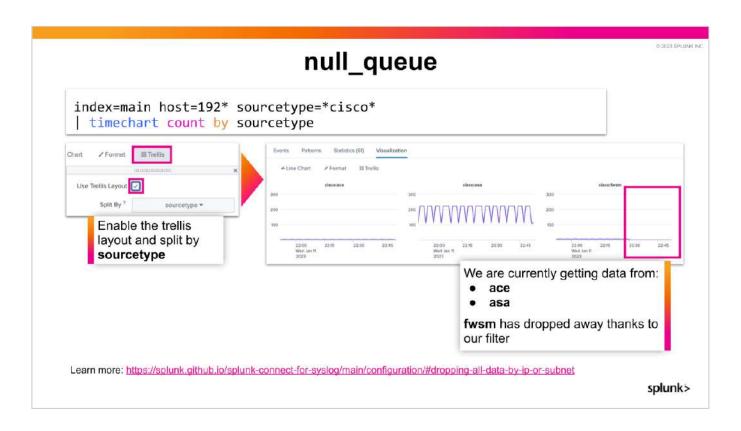
block parser fwsm_drop-postfilter() {
    channel {
# In this case the outcome is drop the event
        rewrite(r_set_dest_splunk_null_queue);
    };
};
application fwsm_drop-postfilter[sc4s-postfilter] {
    filter {
        "${fields.sc4s_vendor}" eq "cisco" and
        "${fields.sc4s_product}" eq "fwsm"

# Note regex reads as start from first position
# Any atleast 1 char that is not a `-`
# constant '-7-'
# and message('^%[^\-]+-7-');
    };
    parser { fwsm_drop-postfilter(); };
};
```



Example search to check events:

index=* host=192* sourcetype=*cisco*
| timechart count by sourcetype



Check Labs Dashboard

