

## Splunk Fundamentals 2 – Lab Exercises

There are a number of source types used in these lab exercises.

Index	Туре	Sourcetype	Interesting Fields
web	Online sales	access_combined	<pre>action, bytes, categoryId, clientip, itemId, JSESSIONID, price, productId, product_name, referer, referer_domain, sale_price, status, user, useragent</pre>
security	Active Directory	winauthentication_security	action, app, Authentication_Package, name, Reason, signature, src_ip, subject
	Badge reader	history_access	Address_Description, Department, Device, Email, Event_Description, First_Name, last_Name, Rfid, Username
	Web server	linux_secure	<pre>action, app, COMMAND, dest, process, src_city, src_country, src_ip, src_port, user, vendor_action</pre>
sales	Business Intelligence server	sales_entries	AcctCode, CustomerID, TransactionID
	Retail sales	vendor_sales	AcctID, categoryId, product_name, productId, sale_price, Vendor, VendorCity, VendorCountry, VendorID, VendorStateProvince
network	Email security data	cisco_esa	dcid, icid, mailfrom, mailto, mid
	Web security appliance data	cisco_wsa_squid	action, cs_method, cs_mime_type, cs_url, cs_username, sc_bytes, sc_http_status, sc_result_code, severity, src_ip, status, url, usage, x_mcafee_virus_name, x_wbrs_score, x_webcat_code_abbr
	Firewall data	cisco_firewall	<pre>bcg_ip, dept, Duration, name, IP, lname, location, rfid, splunk_role, splunk_server, Username</pre>
games	Game logs	SimCubeBeta	<pre>date_hour, date_mday, date_minute, date_month, date_second, data_wday, data_year, data_zone, eventtype, index, linecount, punct, splunk_server, timeendpos, timestartpos</pre>



## Lab Exercise 2 – Beyond Search Fundamentals

## Description

This exercise reviews the concepts presented in Module 2, including using the Job Inspector.

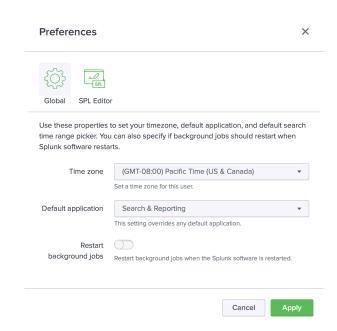
**NOTE**: If at any point you do not see results, check your search syntax and/or expand your time range.

Questions				
Examine these searches. Which searches would not return results?				
<ol> <li>index=security sourcetype=linux_secure</li> <li>index=web Sourcetype=access_combined</li> <li>index=web sourcetype=AcceSS_Combined</li> <li>index=security sourcetype=linux_se%</li> </ol>				
What is the most efficient filter?				
Identify the 3 Selected Fields that Splunk returns by default for every event.				
Steps				

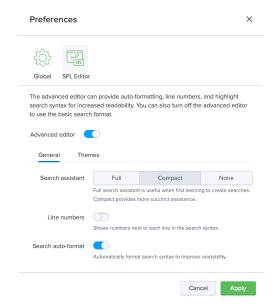
## Task 1: Change your account time zone setting to reflect your local time.

- 1. If you have not done so, launch the lab server by clicking the "Connect to Lab Server" button in the module for this lab.
- 2. Click your user name on the navigation bar and select **Preferences**.
- 3. From the **Time zone** dropdown, select your local time zone.
- 4. From the Default app dropdown, select Search & Reporting.





- Select the SPL Editor button.
- 6. Turn on the **Search auto-format** selector. This option will auto-format line breaks in your search bar for easier reading. If you decide you do not like this functionality, please turn it off.
- 7. Click Apply.



Task 3: Use the Search Job Inspector to troubleshoot problems.

8. Navigate to the Search & Reporting app. Perform and save all your searches in this app.



sure	rch for index=web sourcetype=access_combined productid=* over the last 15 minutes. Be to retain case. any results returned?	
10. Clicl	( <b>Job</b> > <b>Inspect Job</b> to open the Search Job Inspector and inspect the results.	
min	v, search for index=web sourcetype=access_combined productId=* over the last 15 utes. Be sure to retain case.  any results returned?	
	n the Search Job Inspector again and inspect the results.	
	o: IT wants to check for issues with customer purchases in the online store.	
cust	rch for online sales transactions during the last 30 days. Using the table command, display only the omer IP [clientip], the customer action [action], and the http status [status] of each event. sure to include an index in your search.	
Task 4:	Use Search Job Inspector to view performance.	
sear	Search for index=web sourcetype=access_combined over the last 30 days using the Verbose search mode, then open the Job Inspector (Job > Inspect Job). How much time did it take for the search o complete?	
	the same search using the Fast search mode. How much time did it take for the search job to plete?	
NOTE:	Given the small amount of data in our lab environment, comparing the Fast mode and Smart mode completion times probably won't produce useful data.	