

### Splunk Fundamentals 1 Lab Exercises

Lab typographical conventions:

[sourcetype=db audit] OR [cs mime type] indicates either a source type or the name of a field.

**NOTE:** Lab work will be done on your personal computer or virtual machine, no lab environment is provided. We suggest you **DO NOT** do the lab work on your production environment.

# Lab Module 4 – Ingesting Data

### Description

This lab exercise will get data ingested into Splunk from three source types.

**NOTE:** We will be ingesting static data sources that cover 30 days. For this demo you will not see real-time data.

### Steps

**Scenario**: You have recently joined the team at Buttercup Games as a Splunk Administrator. You have been asked to ingest data into your Splunk Enterprise instance for searching.

#### Task 1: Download log files from the repository.

- 1. Open a new browser window and direct it to http://splk.it/f1data
- 2. The file **Splunk f1 Data.zip** will be downloaded to your system.
- 3. Use an archive tool to unarchive the file.
- 4. Once unarchived, you will see a folder labeled tmp.



5. Inside the folder you will see three files.

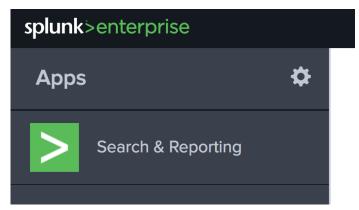


6. Return to the browser window for your instance of Splunk Web or open a new one.

### Task 2: Ingest web application data into Splunk Enterprise.

7. Go to the **Home** app by clicking the Splunk Enterprise logo in the upper left hand of the interface. © 2018 Splunk Inc. All rights reserved. Splunk Fundamentals 1





8. Click the Add Data icon.



**Add Data** 

Add or forward data to Splunk Enterprise. Afterwards, you may extract fields.

**NOTE:** You must be logged in as admin to see this icon. If you do not see the icon, log out and back in with your administrator account.

9. From the Add Data page, click the upload button.

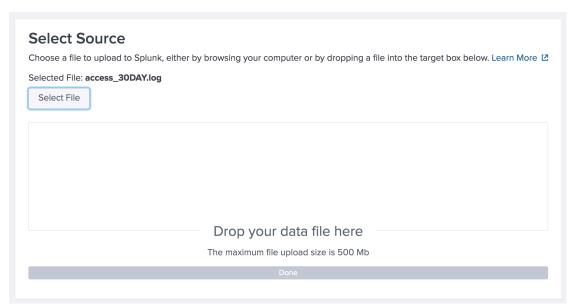


### **Upload**

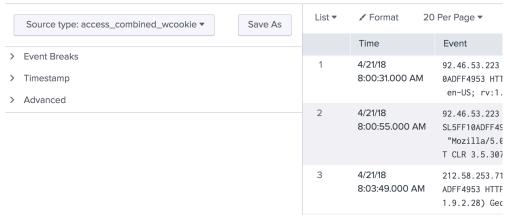
files from my computer

10. You will be taken to the **Select Source** step. Click the **Select File** button and choose the access\_30Day.log file that you downloaded and unarchived earlier.

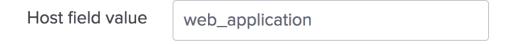




- 11. Once the file is uploaded, click the **Next** button.
- 12. On the **Set Source Type** step, you will see that Splunk automatically set the source type correctly as **access\_combined\_wcookie**. Click the **Next** button.



13. From the Input Settings step, enter web\_application as the Host field value and click the Review button.



14. You will be taken to the **Review** step. Make sure your settings match what is shown below and click the **Submit** button.



# Review

15. Splunk will process the file.

### **Uploading File**

80%

16. When completed, a dialog will appear telling you the file has been successfully uploaded.

#### Task 3: Ingest web server data into Splunk Enterprise.

17. Click the Add More Data button.



# File has been uploaded successfully.

Configure your inputs by going to Settings > Data Inputs

Start Searching

Search your data now or see examples and tutorials. 

Extract Fields

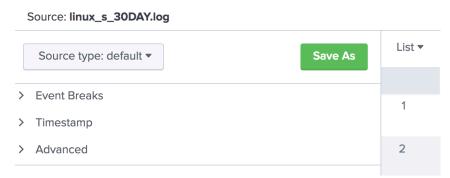
Create search-time field extractions. Learn more about fields. 

Add More Data

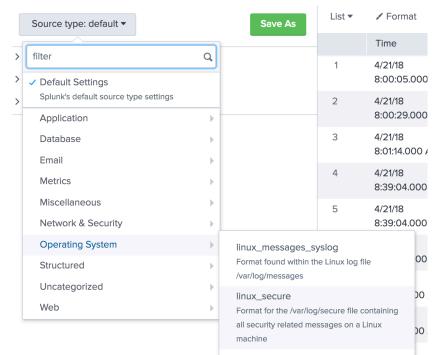
Add more data inputs now or see examples and tutorials.

- 18. Click the **upload** icon and the **Select File** button.
- 19. Select the linux\_s\_30Day.log file that you downloaded and unarchived earlier and click the **Next** button.
- 20. Notice that this time Splunk was not able to automatically select a source type for the data.





21. Manually assign the source type by selecting the **Source type** button and selecting **linux\_secure** from the **Operating System** menu.



- 22. Click the Next button.
- 23. For the Input Settings step, enter web server as the Host field value and click the Review button.



24. On the Review step, make sure your settings match what is shown below and click the Submit button.



# Review

Task 4: Ingest database server data into Splunk Enterprise.

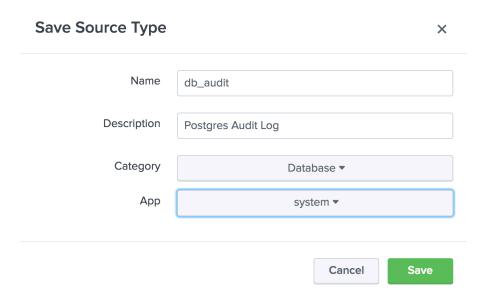
25. Click the Add More Data button.

Add More Data

- 26. Click the **upload** icon and the **Select File** button.
- 27. Select the db\_audit\_30DAY.csv file that you downloaded and unarchived earlier and click the **Next** button.
- 28. Notice that Splunk automatically selected a source type of csv for the data. We want to create a new source type for this data so we click the **Save As** button.



29. In the modal window, give the source type a name of db\_audit and a description. Using the Category menu, select Database and click Save.



- 30. Click the **Next** button to continue to the **Input Settings** step.
- 31. Enter database as the Host field value and click the Review button.



Host field value

database

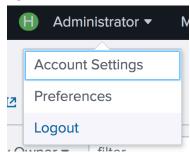
32. Make sure your settings match what is shown below and click the **Submit** button.

# Review

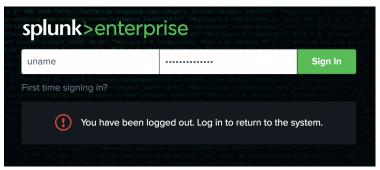
Input Type	Uploaded File
File Name	db_audit_30DAY.csv
Source Type	db_audit
Host	database
Index	Default

Task 5: Log in to Splunk Enterprise as a Power User.

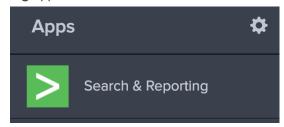
33. Log out of your instance using the **Logout** link in the **User** menu.



34. Log back in using the Power User account you created earlier. If you followed the suggested credentials, use uname in the **Username** field and 5p1unkbcup for the **Password** field.



35. Select the Search & Reporting app from the sidebar.





36. You will be asked if you would like to take a tour. Click the **Skip** button.



37. You should now see the number of events indexed in your system.

What to Search

239,625 Events a month ago 12 hours ago
INDEXED EARLIEST EVENT LATEST EVENT

Data Summary