Bonus Lab Part 2

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Section II

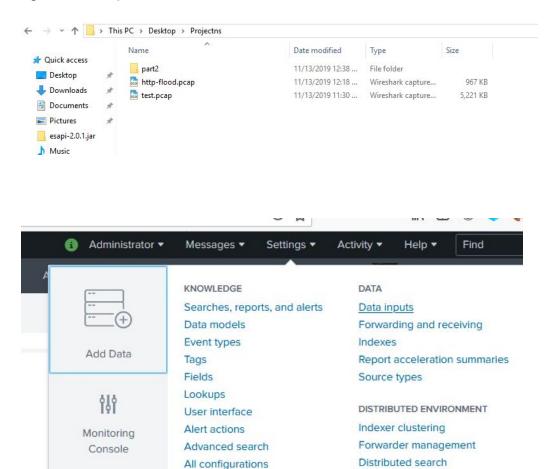
Q1.

Part 1:

In Part 1, we performed the following tasks:

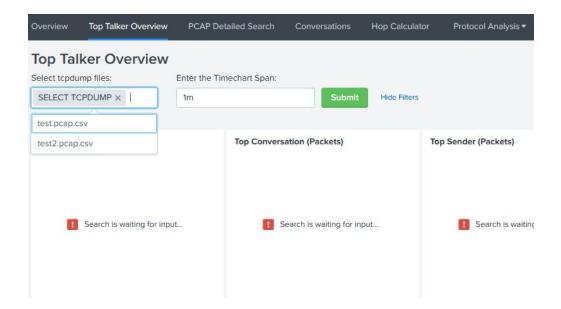
- a. Download and setup Splunk.
- b. Capture test data from Wireshark.
- c. Add the data to Splunk in PCAP format for Splunk to convert that to CSV.
- d. Visualize and examine the data in Splunk.

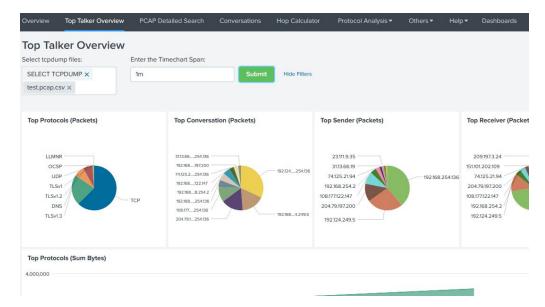
Following are the required Screenshots for Part 1:



Location of PCAP files to be analyzed

name *	
path *	Please specify the full path of the PCAP file location
More settings	



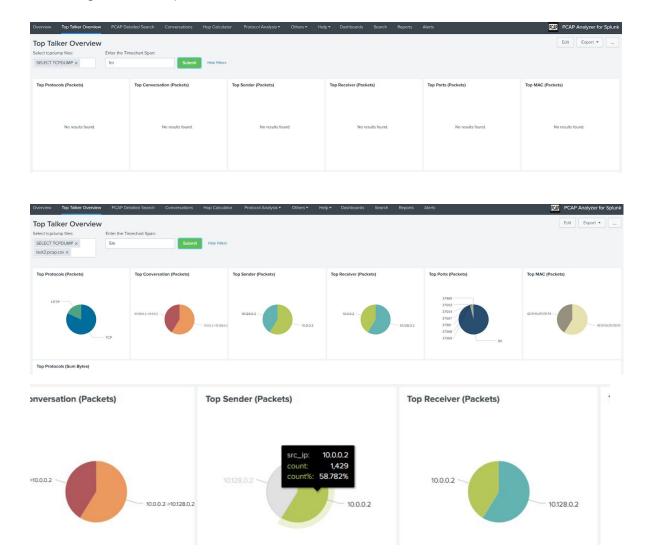


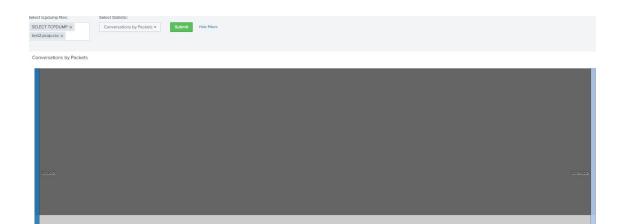
Part 2:

In Part 2, we performed the following tasks:

- a. Download the data provided.
- b. Add the data to Splunk.
- c. Visualize the data.
- d. Explore various options and try some of them to find relevant information.

Following are the required Screenshots for Part 1:





- a. What are the three top differences (in terms of pros and cons) between
 Wireshark and Splunk? Be as specific as possible.
 - Splunk shows data in Graphical format which makes it easier to analyze.
 - 2. Wireshhark shows data packets as they are. This is highly beneficial when we want to analyze packets in their raw format or in detail.
 - 3. Splunk can use rules to flag data and act on it automatically.
- b. What are your three favorite Splunk data analysis and visualization features?
 Justify your answers.
 - 1. Real-time analysis Splunk can collect real-time data and process it.
 - 2. Support for various Apps that allow various functionalities.
 - Has a really great and functional dashboard This is one of the best in the market in its class. It is highly customizable and offers high functionality.
- c. What are other SIEM products similar to Splunk? Name at least two. Compare their strengths and weaknesses against Splunk.
 - 1. McAfee ESM -

- a. It has a lot of reviews calling for better user interface/experience instead of Splunk which has been called really easy-to-use.
- b. Does not capture, store and analyze network flow data directly.

2. Solarwinds:

- a. It offers a well integrated solution that has a simple architecture, easy licensing and robust out of the box features instead of splunk where you have to install apps.
- b. It is difficult to integrate Solarwinds with third-party security solutions due to its closed ecosystem.
- d. What Splunk network security applications (other than detecting DDoS attacks) can you think of?
 - We can configure Splunk to detect and flag whatever criteria of network data that comes under its scan. It can range from detecting unusual dns requests to detecting malware communicating to it's command and control servers.
- e. Find at least one pcap file repository on the Internet. What do you think is the purpose of the website?

www.netresec.com

Netresec is an independent and independent software vendor which has it's focus in Security, especially network security. This repository is for the purpose of study, training and research.

Sources:

- a. https://wiki.splunk.com/Community:Splunk_for_Network_Security
- b. https://www.edureka.co/blog/what-is-splunk/
- c. https://mindmajix.com/splunk-interview-questions
- d. https://www.itcentralstation.com/products/comparisons/mcafee-enterprise-security-manager-mcafee-esm_vs_splunk
- e. https://answers.splunk.com/answers/607442/pros-and-cons-of-splunk-vs-solarwi
 nds.html
- f. https://www.splunk.com/pdfs/technical-briefs/advanced-threat-detection-and-resp
 onse-tech-brief.pdf