Lab 4 - Interacting with the SIEM App

Introduction

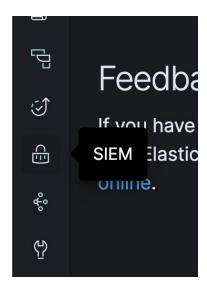
In this lab guide we will walk you through the Elastic SIEM App and all its components.

Now that we have data flowing into our stack, we can walk through the different parts of the Elastic SIEM App, which is made up of the following components:

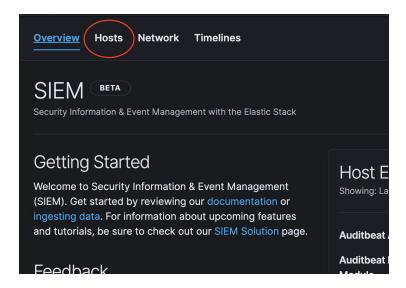
- Overview This is a break down of events received by the SIEM app. It is split into the respective beats modules
- Hosts This page shows information about all the reporting hosts. This
 includes some KPIs to get you started, an authentication table, an
 Uncommon Processes table, and an events table.
- Network This view shows all related network activities, similar to the hosts view, it includes some KPIs to get started and some tables related to potential network anomalies such as top talkers and dns queries being made.

The Hosts View

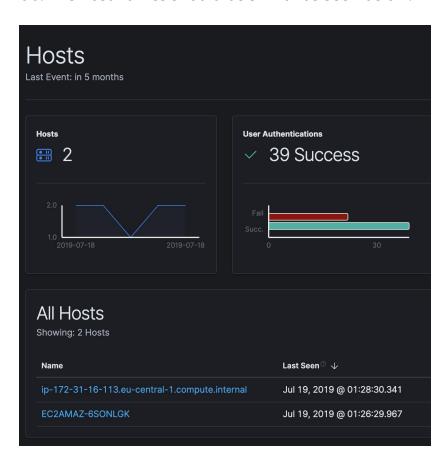
Let's start trying out the hosts view. If you haven't already, click on the "SIEM" app in kibana.



Click on "Hosts" at the top of the screen:



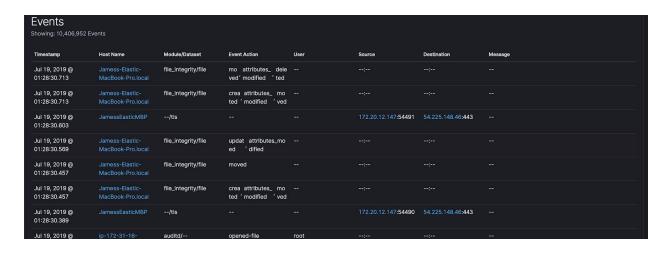
You should now be able to see the populated hosts view with the two VM's in your lab. The host names should be similar as seen below.



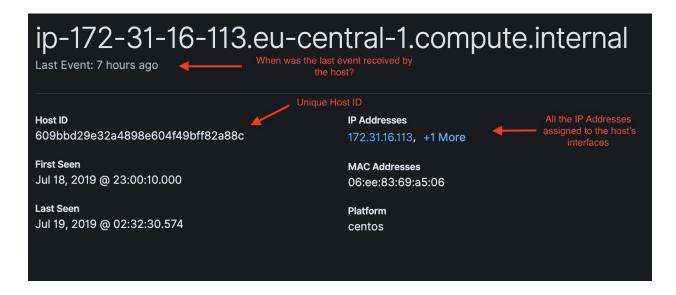
Further down, you will notice the authentication, uncommon process and events tables:

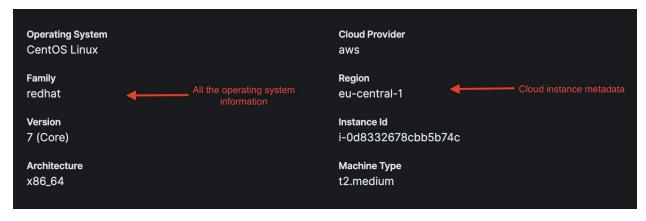
| Authentications Showing: 4,097 Users | | | | | | | | | | |
|--------------------------------------|-----------|----------|--------------|------------------------|--|--------------|--------------------|----------------------------------|--|--|
| User | Successes | Failures | Last Success | Last Successful Source | Last Successful Destina | Last Failure | Last Failed Source | Last Failed Destination | | |
| b88868553a | 128 | | 9 hours ago | 47.197.173.73 | james-honeypot- logstash-demo | | | | | |
| 7c1ebd8ae5 | 49 | | 9 hours ago | 21.52.237.238 | james-honeypot- logstash-demo | | | | | |
| 6caa204a04 | 40 | | 9 hours ago | 217.26.5.247 | james-honeypot- logstash-demo | | | | | |
| 4d9f267c26 | 27 | | 9 hours ago | | james-honeypot- logstash-demo | | | | | |
| SYSTEM | | | 9 hours ago | | EC2AMAZ-6SONLGK | | | | | |
| james_spiteri | 18 | | 13 hours ago | 203.116.43.34 | james-honeypot- logstash-demo | | | | | |
| 4813494d13 | 14 | 1154 | 9 hours ago | 241.243.181.98 | james-honeypot- logstash-demo | 9 hours ago | 243.66.88.34 | james-honeypot- logstash-demo | | |
| james | | 23 | 22 hours ago | 118.200.212.31 | centos-s-1vcpu-1gb- lon1-02- 1526802504052-s- 1vcpu-1gb-lon1-01 | 10 hours ago | | james-honeypot- logstash-demo | | |
| bob | 6 | 15636 | 10 hours ago | | james-honeypot- logstash-demo | 9 hours ago | | james-honeypot- logstash-demo | | |
| Administrator | | | 11 hours ago | 34.253.154.199 | EC2AMAZ-6SONLGK | 9 hours ago | | EC2AMAZ-6SONLGK | | |

| Uncommon Processes | | | | | | | | | |
|-------------------------|-----------------|---------------------|----------------------------------|---|-----------|--|--|--|--|
| Showing: 430 Processes | | | | | | | | | |
| Name | Number of Hosts | Number of Instances | Hosts | Last Command | Last User | | | | |
| 0yum-daily.cron | | | james-honeypot-logstash-demo | /bin/bash ••• | root | | | | |
| AGMService | | | Jamess-Elastic-MacBook-Pro.local | /Library/Application Support/Adobe/AdobeGCClient/ *** AGMService | james | | | | |
| Adobe Desktop Service | | | Jamess-Elastic-MacBook-Pro.local | /Library/Application Support/Adobe/Adobe Desktop Common/ADS/Adobe Desktop Service.app/Contents/MacOS/A dobe Desktop Service | james | | | | |
| AdobelPCBroker | | | Jamess-Elastic-MacBook-Pro.local | /Library/Application Support/Adobe/Adobe Desktop Common/IPCBox/AdobeIPCBrok *** er.app/Contents/MacOS/Adobel PCBroker | james | | | | |
| AirPlayUlAgent | | | Jamess-Elastic-MacBook-Pro.local | /System/Library/CoreServices/A irPlayUIAgent.app/Contents/Ma === cOS/AirPlayUIAgent | james | | | | |
| App Store | | | Jamess-Elastic-MacBook-Pro.local | /Applications/App Store.app/Contents/MacOS/App ••• Store | james | | | | |
| AppleMobileDeviceHelper | 1 | 1 | Jamess-Elastic-MacBook-Pro.local | /System/Library/PrivateFramew orks/MobileDevice.framework/V ersions/Current/AppleMobileDe viceHelper.app/Contents/MacO | james | | | | |



Let's look at all the host info we get from our beats configuration. Click on any of the two hosts from the hosts table to drill down.

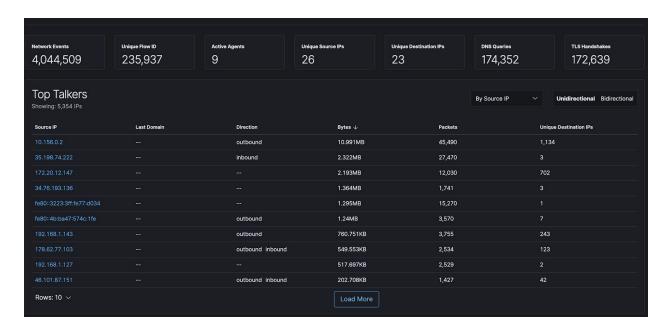




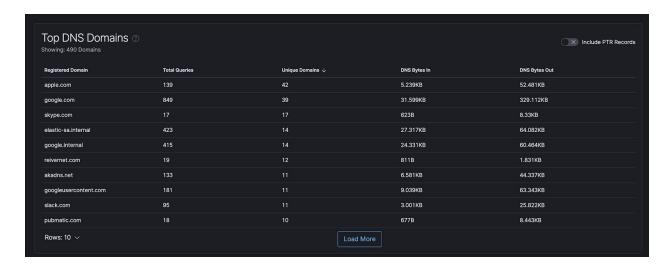
You will notice that the authentications and events table have switched context to this host.

The Network View

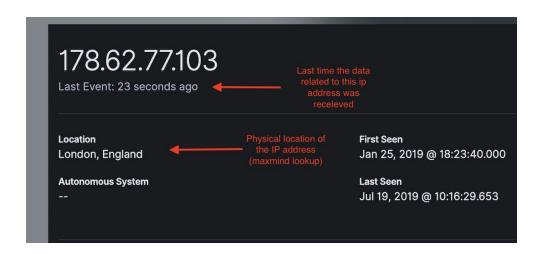
Let's see the information we get in the network view. Switch from the hosts view to the network view.



You can see that we are again presented with KPIs, this time related to network activity. We also have a table highlighting the "top talkers" (the IP addresses with the highest number of packets and bytes). Additionally, there is a list of the top domains being queries by DNS:

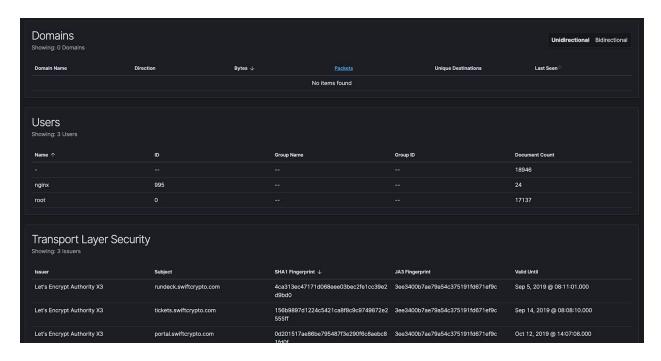


We can pick any IP address from the list of top talkers (or anywhere within the SIEM app) to drill down and get more information related to it. Go ahead and click on any IP address you like:





You will also notice some new tables when you drill down into an IP address:



These tables show:

- Any domains related to the IP address
- Users running processes making request to/from this IP address
- Encrypted TLS connections being made to/from this IP address

Feel free to play around in both the hosts view and the network view. You might have noticed that we have a filter bar and a time picker at the top of every page. Feel free to also experiment with any filtering. Autocomplete will help you build a query.

