Elastic SIEM Workshop

Lab 5 - Interacting with the SIEM app

Introduction

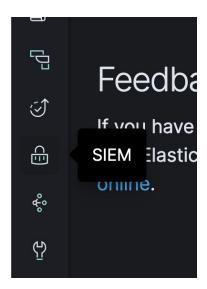
In this lab guide we will walk you through the SIEM ui and all its components.

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

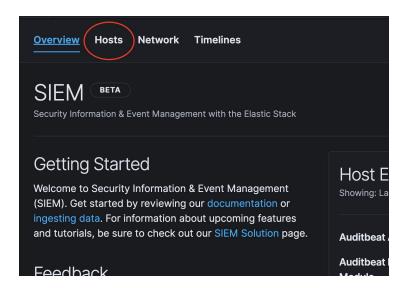
- Overview This is a break down of events received by the SIEM app. It is split into the respective beats modules
- Hosts This page shows information about all the reporting hosts. This
 includes some KPIs to get you started, an authentications table, an
 Uncommon Processes table, and an events table.
- Network This view shows all related network activity, 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

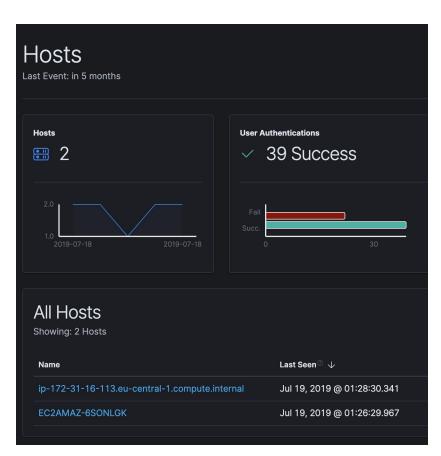
Let's start trying out the hosts view. If you haven't already, click on the "SIEM" app in kibana.



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



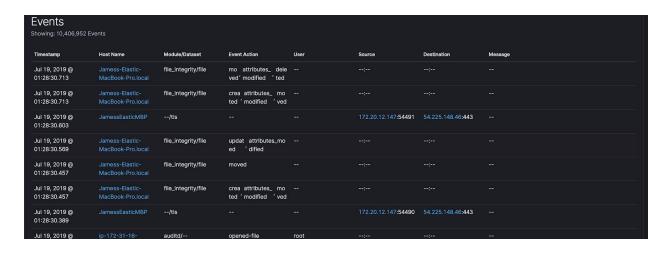
You should now be able to see the populated hosts view with the two VM's in your lab. The host names should be similar as seen below.



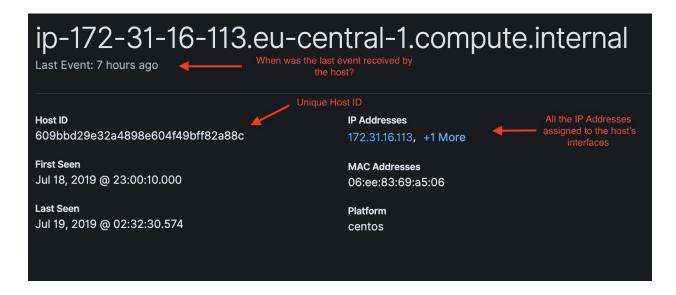
Further down, you will notice the authentication, uncommon process and events tables:

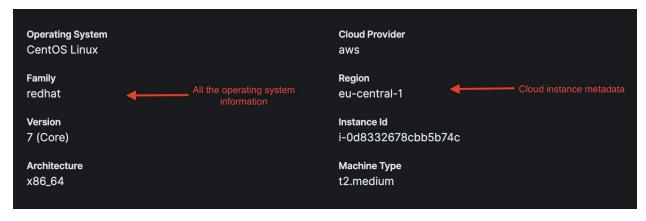
Authentications Showing: 4,097 Users										
User	Successes	Failures	Last Success	Last Successful Source	Last Successful Destina	Last Failure	Last Failed Source	Last Failed Destination		
b88868553a	128		9 hours ago	47.197.173.73	james-honeypot- logstash-demo					
7c1ebd8ae5	49		9 hours ago	21.52.237.238	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.

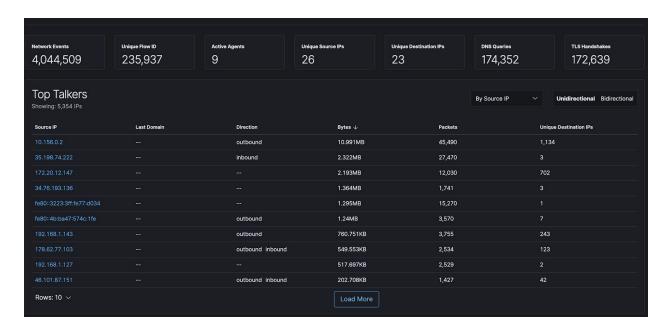




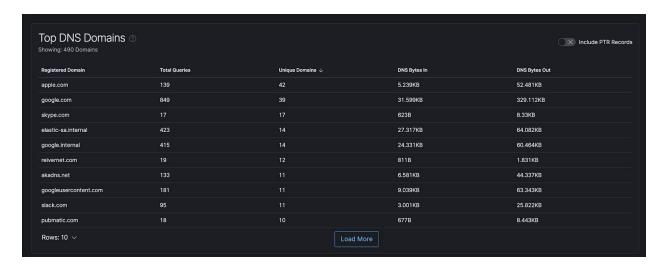
You will notice that the authentications and events table have switched context to this host.

The Network view

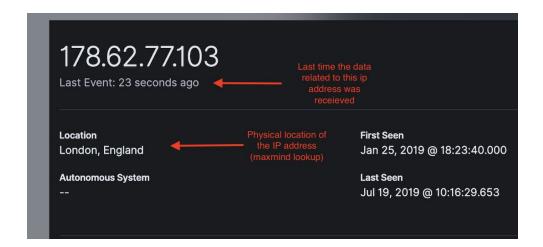
Let's see the information we get in the network view. Switch from the hosts view to the network view.

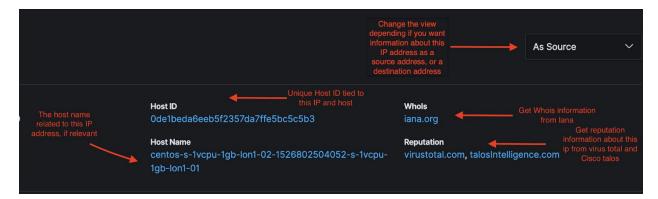


You can see that we are again presented with KPIs, this time related to network activity. We also have a table highlighting the "top talkers" (the IP addresses with the highest number of packets and bytes). Additionally, there is a list of the top domains being queries by DNS:

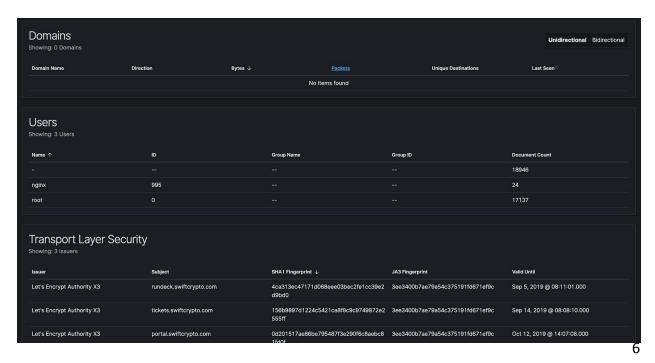


We can pick any IP address from the list of top talkers (or anywhere within the SIEM app) to drill down and get more information related to it. Go ahead and click on any IP address you like:





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.

