Project Name: Security Onion (Security Tool) Network Intrusion Detection System.

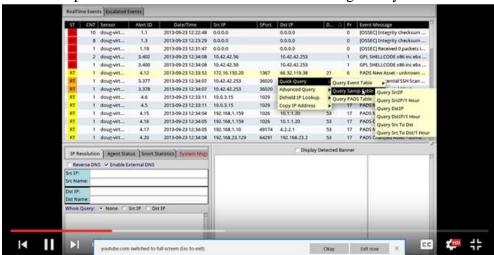
What is Security Onion?

In simple words, it is a Digital Forensic Tool that makes Forensic Analysts life easy.

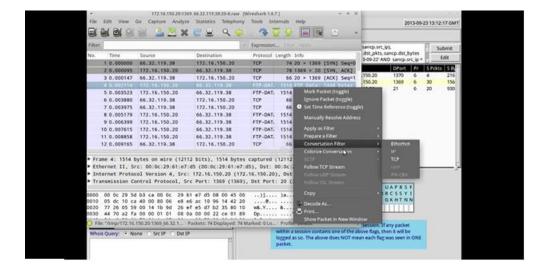
Plan: To implement Security Onion and analysis network traffic and find a way to remove file or network that compromise a system.

Security Onion is a Linux distro for intrusion detection, network security monitoring, and log management. It's based on Ubuntu and contains Snort, Suricata, Bro, OSSEC, Sguil, Squert, ELSA, Xplico, Network Miner, and many other security tools. The easy-to-use Setup wizard allows to build an army of distributed sensors for enterprise in minutes.

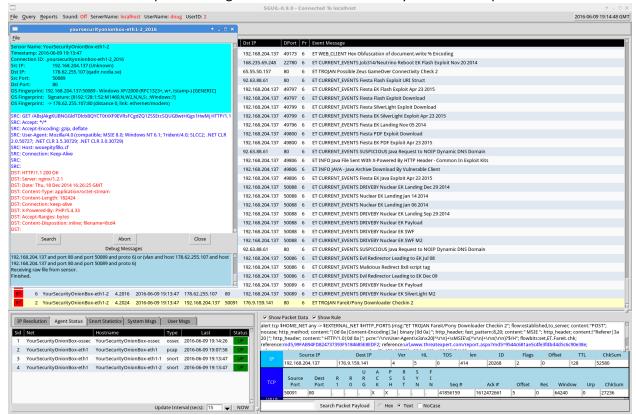
The below picture shows the RealTime Events running in a system.



Then we analyzed the event using Wireshark to evaluate malware.



With the help of Sguil(Default tool in Security Onion) all the packets were visible in multiple screens in one window and this helps to investigate on the raw data i.e binary file of the suspicious network.



All of the above data is collected by virtualization aka installing various operating system under one host operating system. We downloaded, Kali Linux, Ubuntu 64bits, Metasploitable, Wireshark, Security Onion as virtual OS in one host Windows OS. This type of system is known as standalone system.

We also wanted to find a way to mitigate the risk of incoming suspicious network but due to restriction of time and poor Internet connection we could not accomplish our goal. But we, will continue our work after Bitcamp also.

Thank You.

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