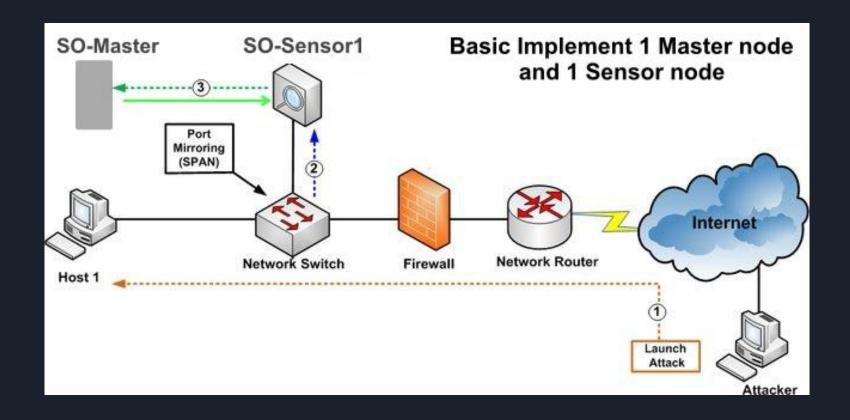
# Network Analysis & Detection Intrusion Service

Architecture & Security Team Packetlove IT Service and Consulting Co.,Ltd.



## What is Security Onion (SO)?

- Security Onion start implement on 2008 by Doug Burks
- Security onion is a network security monitoring (NSM) system that provides full context and forensic visibility into the traffic it monitors
- Designed to make deploying complex open source tools simple via a single package (Snort, Suricata, Squert, Sguil etc.)
- Having the ability to pivot from one tool to the next to seamlessly, provides the most effective collection of network security tools available in a single package
- Allows the choice of IDS engines, analysts consoles, web interfaces
- Support ipv4 and ipv6 for snort and suricata
- Free (Open Source)!!

# The security onion - A single entity with many layers.

- The corporate layer
- Policy and human error layers
- The target layer
- The hacker layer
- The threat layer
- The testing layer



### What is NSM (Network Security Management)?

"the collection, analysis, and escalation of indications and warnings (I&W) to detect and respond to intrusions."

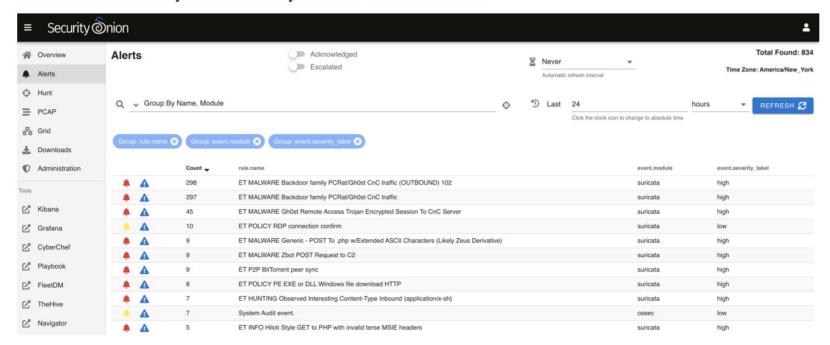
#### **Types of Intrusion Detection Systems**

There are two main types of intrusion detection systems (both are explained in more detail later in this guide):

- **1. Host-based intrusion detection (HIDS)** this system will examine events on a computer on your network rather than the traffic that passes around the system.
- **2. Network-based intrusion detection (NIDS)** this system will examine the traffic on your network.

#### CONSOLE

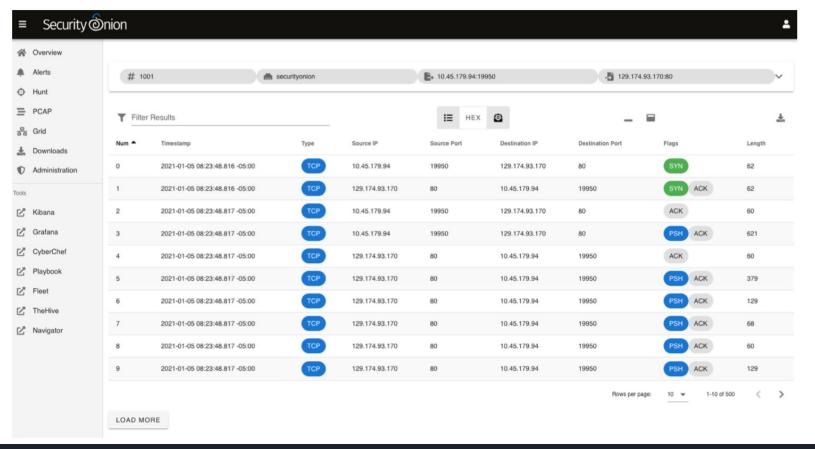
Security Onion Console (SOC) is the first thing you see when you log into Security Onion. It includes a new Alerts interface which allows you to see all of your NIDS and HIDS alerts.



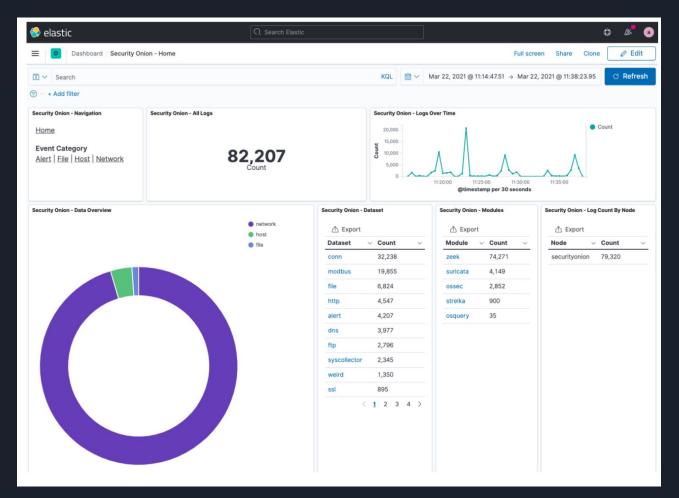
Security Onion Console (SOC) also includes a new *Hunt* interface for threat hunting which allows you to query not only your NIDS/HIDS alerts but also *Zeek* logs and system logs.

#### PACKET CAPTURE

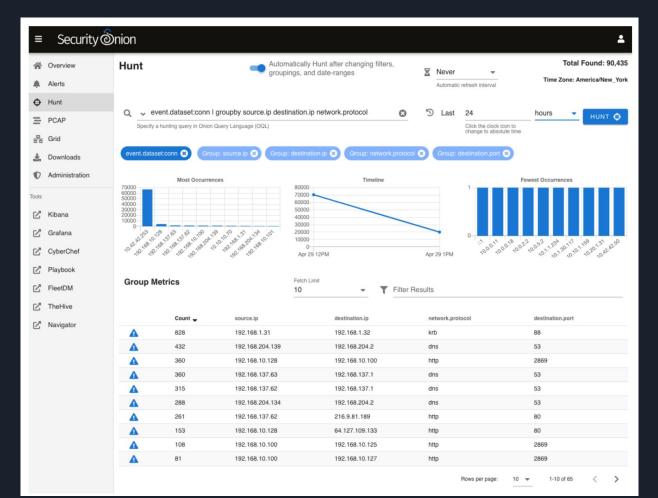
Security Onion Console (SOC) also includes an interface for full packet capture (PCAP) retrieval.



#### DASHBOARD CONSOLE

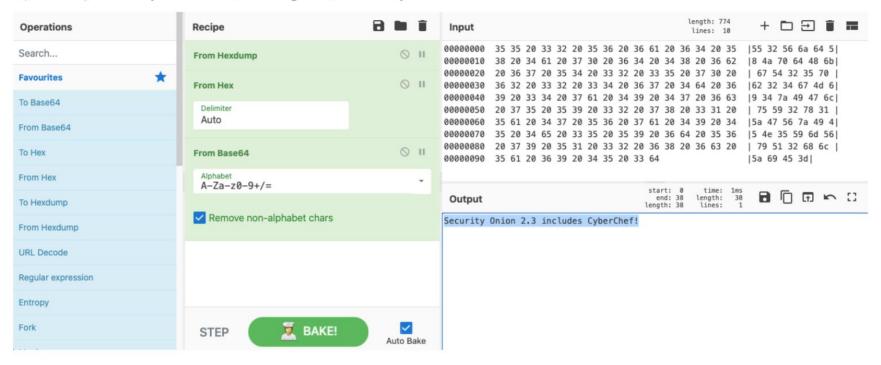


#### CONSOLE FOR HUNT AND SEE ATTACK SOURCE



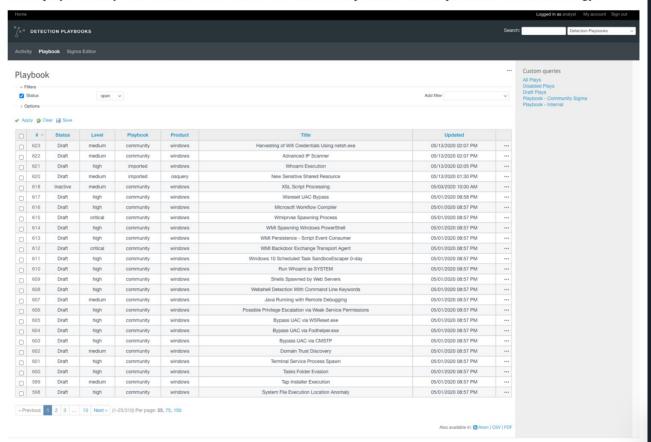
#### **CYBERCHEF**

CyberChef allows you decode, decompress, and analyze artifacts.



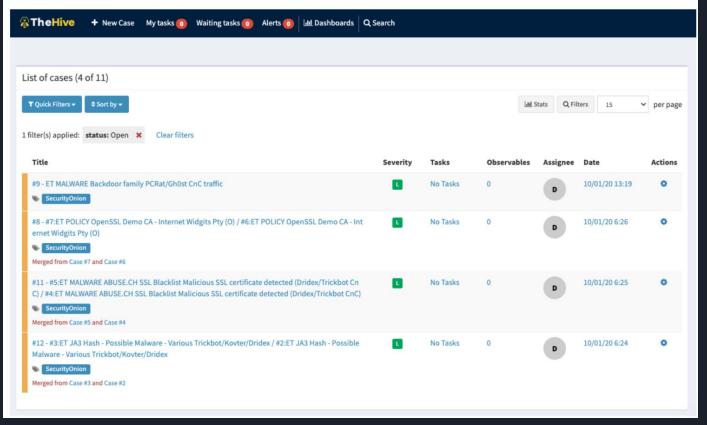
#### **PLAYBOOK**

*Playbook* is a web application that allows you to create a Detection Playbook, which itself consists of individual plays. These plays are fully self-contained and describe the different aspects around the particular detection strategy.



#### HIVE

*TheHive* is the case management interface. As you are working in *Alerts*, *Hunt*, or *Kibana*, you may find alerts or logs that are interesting enough to send to *TheHive* and create a case. Other analysts can collaborate with you as you work to close that case.



#### ARCHITECTURE DESIGN AND SUPPORT HIGH LOAD OF LOG

