

A background featuring a network diagram with white nodes and lines on a green-to-dark-green gradient. The nodes are connected by thin white lines, creating a complex web of connections. The overall aesthetic is modern and technical.

# Security Operation Center 100 Tools

Joas Antonio

# Sooty

- Sooty is a tool developed with the task of aiding SOC analysts with automating part of their workflow. One of the goals of Sooty is to perform as many of the routine checks as possible, allowing the analyst more time to spend on deeper analysis within the same time-frame. Details for many of Sooty's features can be found below.
- <https://github.com/TheresAFewCorners/Sooty>

```
-----  
S O O T Y  
-----  
What would you like to do?  
  
OPTION 1: Sanitise URL For emails  
OPTION 2: Decoders (PP, URL)  
OPTION 3: Reputation Checker  
OPTION 4: DNS Tools  
OPTION 5: Hashing Function  
OPTION 0: Exit Tool  
3
```

# Peepdf

- peepdf is a Python tool to explore PDF files in order to find out if the file can be harmful or not. The aim of this tool is to provide all the necessary components that a security researcher could need in a PDF analysis without using 3 or 4 tools to make all the tasks. With peepdf it's possible to see all the objects in the document showing the suspicious elements, supports the most used filters and encodings, it can parse different versions of a file, object streams and encrypted files. With the installation of **PyV8** and **Pylibemu** it provides Javascript and shellcode analysis wrappers too. Apart of this it is able to create new PDF files, modify existent ones and obfuscate them.
- <https://eternal-todo.com/tools/peepdf-pdf-analysis-tool>

```
Usage: ./peepdf.py [options] PDF_file
```

## Options:

```
-h, --help          show this help message and exit
-i, --interactive   Sets console mode.
-s SCRIPTFILE, --load-script=SCRIPTFILE
                   Loads the commands stored in the specified file and
                   execute them.
-c, --check-vt      Checks the hash of the PDF file on VirusTotal.
-f, --force-mode    Sets force parsing mode to ignore errors.
-l, --loose-mode    Sets loose parsing mode to catch malformed objects.
-m, --manual-analysis
                   Avoids automatic Javascript analysis. Useful with
                   eternal loops like heap spraying.
-u, --update        Updates peepdf with the latest files from the
                   repository.
-g, --grinch-mode   Avoids colored output in the interactive console.
-v, --version       Shows program's version number.
-x, --xml           Shows the document information in XML format.
```

# PyREBox

- PyREBox is a Python scriptable Reverse Engineering sandbox. It is based on QEMU, and its goal is to aid reverse engineering by providing dynamic analysis and debugging capabilities from a different perspective. PyREBox allows to inspect a running QEMU VM, modify its memory or registers, and to instrument its execution, by creating simple scripts in Python to automate any kind of analysis. It also offers a shell based on IPython that exposes a rich set of commands, as well as a Python API.
- <https://talosintelligence.com/pyrebox>

# Fail2Ban

- Fail2ban scans log files (e.g. /var/log/apache/error\_log) and bans IPs that show the malicious signs -- too many password failures, seeking for exploits, etc. Generally Fail2Ban is then used to update firewall rules to reject the IP addresses for a specified amount of time, although any arbitrary other action (e.g. sending an email) could also be configured. Out of the box Fail2Ban comes with filters for various services (apache, courier, ssh, etc).
- Fail2Ban is able to reduce the rate of incorrect authentications attempts however it cannot eliminate the risk that weak authentication presents. Configure services to use only two factor or public/private authentication mechanisms if you really want to protect services.
- [https://www.fail2ban.org/wiki/index.php/Main\\_Page](https://www.fail2ban.org/wiki/index.php/Main_Page)

# OSSEC

- OSSEC is a full platform to monitor and control your systems. It mixes together all the aspects of HIDS (host-based intrusion detection), log monitoring and SIM/SIEM together in a simple, powerful and open source solution.
- <https://github.com/ossec/ossec-hids>
- <https://www.ossec.net/>

# RKHunter and CHRootkit

- <http://rkhunter.sourceforge.net/>
- <http://chkrootkit.org/>

# Process Hacker

- Process Hacker, A free, powerful, multi-purpose tool that helps you monitor system resources, debug software and detect malware.
- <https://processhacker.sourceforge.io/downloads.php>

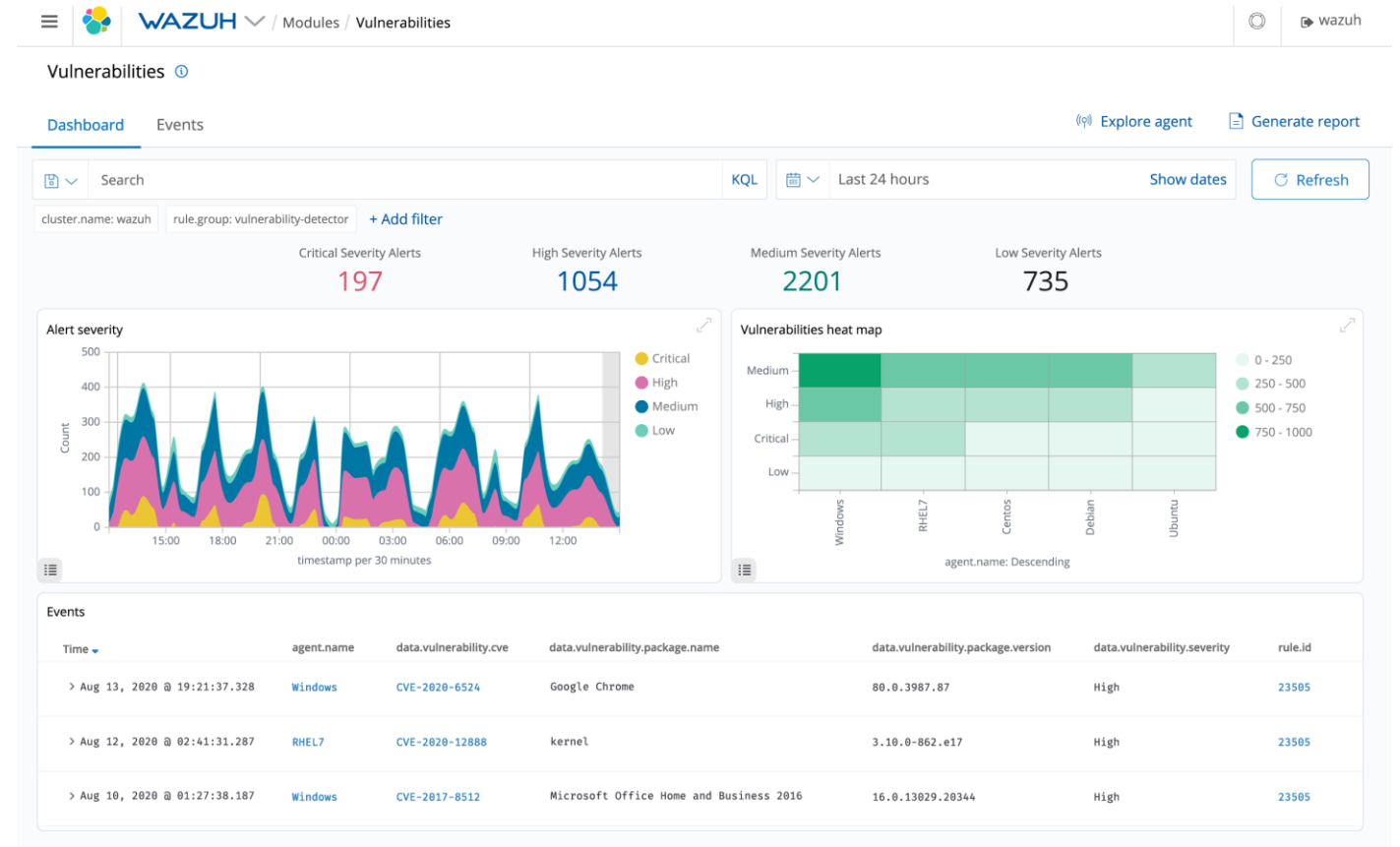


# Splunk

- Its software helps capture, index and correlate real-time data in a searchable repository, from which it can generate graphs, reports, alerts, dashboards and visualizations. Splunk uses machine data for identifying data patterns, providing metrics, diagnosing problems and providing intelligence for business operations. Splunk is a horizontal technology used for application management, security and compliance, as well as business and web analytics.
- <https://www.splunk.com/>

# Wazuh

- Wazuh is a free, open source and enterprise-ready security monitoring solution for threat detection, integrity monitoring, incident response and compliance.
- <https://wazuh.com/>



# TheHive

- A scalable, open source and free Security Incident Response Platform, tightly integrated with MISP (Malware Information Sharing Platform), designed to make life easier for SOCs, CSIRTs, CERTs and any information security practitioner dealing with security incidents that need to be investigated and acted upon swiftly.
- <https://thehive-project.org/>

# Security Onion

- Our products include both the Security Onion software and specialized hardware appliances that are built and tested to run Security Onion. Our appliances will save you and your team time and resources, allowing you to focus on keeping your organization secure.
- <https://securityonionsolutions.com/>

# Caine

- CAINE (Computer Aided INvestigative Environment) is an Italian GNU/Linux live distribution created as a Digital Forensics project
- <https://www.caine-live.net/>

# Caine

What does CALDERA do?

- CALDERA helps cybersecurity professionals reduce the amount of time and resources needed for routine cybersecurity testing.
- CALDERA empowers cyber teams in three main ways:

Autonomous Adversary Emulation

- With CALDERA, your cyber team can build a specific threat (adversary) profile and launch it in a network to see where you may be susceptible. This helps with testing defenses and training blue teams on how to detect specific threats.

Autonomous Incident Response

- Enables your team to perform automated incident response on a given host, allowing them to find new ways to identify and respond to threats.

Manual Red-Team Engagements

- Helps your red team perform manual assessments with computer assistance by augmenting existing offensive toolsets. The framework can be extended with any custom tools you may have.
- <https://caldera.mitre.org/>

# Atomic Red Team



<https://atomicredteam.io/>

# Metta

Metta is an information security preparedness tool.

This project uses Redis/Celery, python, and vagrant with virtualbox to do adversarial simulation. This allows you to test (mostly) your host based instrumentation but may also allow you to test any network based detection and controls depending on how you set up your vagrants.

The project parses yaml files with actions and uses celery to queue these actions up and run them one at a time without interaction.

<https://github.com/uber-common/metta>



# OSSIM

- AlienVault® OSSIM™, Open Source Security Information and Event Management (SIEM), provides you with a feature-rich open source SIEM complete with event collection, normalization and correlation. Launched by security engineers because of the lack of available open source products, AlienVault OSSIM was created specifically to address the reality many security professionals face: A SIEM, whether it is open source or commercial, is virtually useless without the basic security controls necessary for security visibility.
- <https://cybersecurity.att.com/products/ossim>

# Prelude

- Prelude is a Universal "Security Information & Event Management" (SIEM) system. Prelude collects, normalizes, sorts, aggregates, correlates and reports all security-related events independently of the product brand or license giving rise to such events; Prelude is "agentless".
- As well as being capable of recovering any type of log (system logs, syslog, flat files, etc.), Prelude benefits from a native support with a number of systems dedicated to enriching information even further (snort, samhain, ossec, auditd, etc.).
- <https://www.prelude-siem.org/>

# Nagios

- Nagios XI provides monitoring of all mission-critical infrastructure components including applications, services, operating systems, network protocols, systems metrics, and network infrastructure. Hundreds of third-party addons provide for monitoring of virtually all in-house and external applications, services, and systems.
- <https://www.nagios.org/>

# Zabbix

Monitor any possible performance metrics and incidents in your network:

## Network performance

- Network bandwidth usage
- Packet loss rate
- Interface errorrate
- High CPU or memory utilization
- Number of tcp connections is anomaly high for this day of the week
- Aggregate throughput of core routers is low

## Network health

- Link is down
- System status is in warning/critical state
- Device temperature is too high / too low
- Power supply is in critical state
- Free disk space is low
- Fan is in critical state
- No SNMP data collection

## Configuration changes

- New device added or removed
- Network module is added, removed or replaced
- Firmware has been upgraded
- Device serial number has changed
- Interface has changed to lower speed or half-duplex mode

This is a sample list of network-related metrics and incidents, monitored by Zabbix out of the box. See the full list in template descriptions. You can extend/customize the scope of monitored objects by adding new items, writing custom data collection scripts, building custom templates, etc.

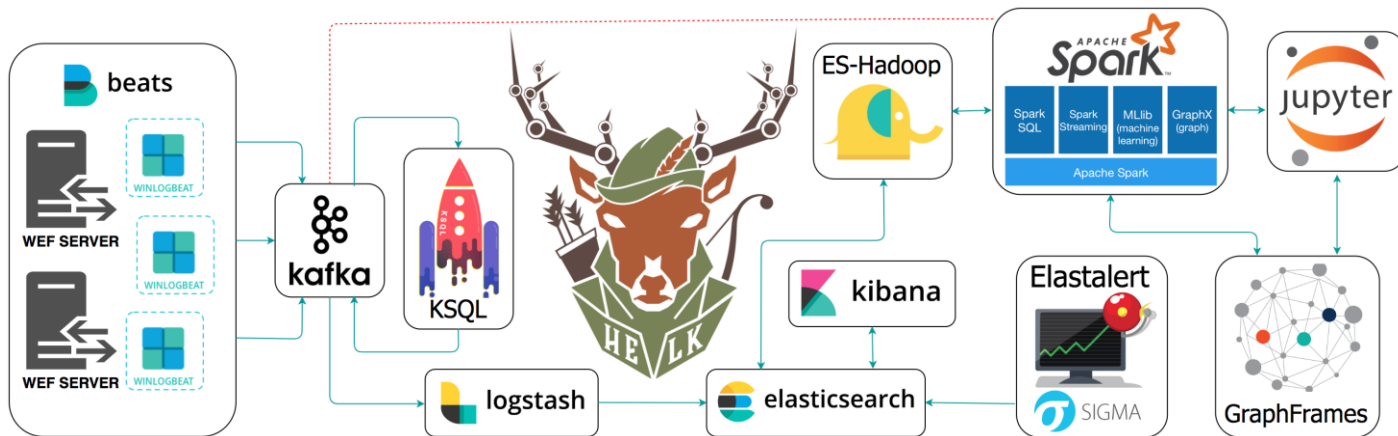
- [https://www.zabbix.com/network\\_monitoring](https://www.zabbix.com/network_monitoring)



# Icinga

- Find answers, take actions and become a problem-solver. Be flexible and take your own ways. Stay curious, stay passionate, stay in the loop. Tackle your monitoring challenge.
- <https://icinga.com/>

# Helk



- The Hunting ELK or simply the HELK is one of the first open source hunt platforms with advanced analytics capabilities such as SQL declarative language, graphing, structured streaming, and even machine learning via Jupyter notebooks and Apache Spark over an ELK stack. This project was developed primarily for research, but due to its flexible design and core components, it can be deployed in larger environments with the right configurations and scalable infrastructure.
- <https://github.com/Cyb3rWard0g/H-ELK>

# CimSweep

- CimSweep is a suite of CIM/WMI-based tools that enable the ability to perform incident response and hunting operations remotely across all versions of Windows. CimSweep may also be used to engage in offensive reconnaissance without the need to drop any payload to disk. Windows Management Instrumentation has been installed and its respective service running by default since Windows XP and Windows 2000 and is fully supported in the latest versions of Windows including Windows 10, Nano Server, and Server 2016.
- <https://github.com/PowerShellMafia/CimSweep>

# PowerForensics

- The purpose of PowerForensics is to provide an all inclusive framework for hard drive forensic analysis. PowerForensics currently supports NTFS and FAT file systems, and work has begun on Extended File System and HFS+ support.
- <https://github.com/Invoke-IR/PowerForensics>





# RedLine

- Redline®, FireEye's premier free endpoint security tool, provides host investigative capabilities to users to find signs of malicious activity through memory and file analysis and the development of a threat assessment profile.

With Redline, you can:

- Thoroughly audit and collect all running processes and drivers from memory, file-system metadata, registry data, event logs, network information, services, tasks and web history.
- Analyze and view imported audit data, including the ability to filter results around a given timeframe using Redline's Timeline functionality with the TimeWrinkle™ and TimeCrunch™ features.
- Streamline memory analysis with a proven workflow for analyzing malware based on relative priority.
- Perform Indicators of Compromise (IOC) analysis. Supplied with a set of IOCs, the Redline Portable Agent is automatically configured to gather the data required to perform the IOC analysis and an IOC hit result review.
- <https://www.fireeye.com/services/freeware/redline.html>

# Yara

- YARA is a tool aimed at (but not limited to) helping malware researchers to identify and classify malware samples. With YARA you can create descriptions of malware families (or whatever you want to describe) based on textual or binary patterns. Each description, a.k.a. rule, consists of a set of strings and a boolean expression which determine its logic.
- <https://github.com/VirusTotal/yara>

# Forager

- Do you ever wonder if there is an easier way to retrieve, store, and maintain all your threat intelligence data? Random user, meet Forager. Not all threat intel implementations require a database that is "correlating trillions of data points.." and instead, you just need a simple interface, with simple TXT files, that can pull threat data from other feeds, PDF threat reports, or other data sources, with minimal effort. With 15 pre-configured threat feeds, you can get started with threat intelligence feed management today
- <https://github.com/opensoursecsec/Forager>

# Forager

- **Connect Open-Source Security Tools:** Threat Bus is a pub-sub broker for threat intelligence data. With Threat Bus you can seamlessly integrate threat intel platforms like OpenCTI or MISP with detection tools and databases like Zeek or VAST.
- **Native STIX-2:** Threat Bus transports indicators and sightings encoded as per the STIX-2 open format specification.
- **Plugin-based Architecture:** The project is plugin-based and can be extended easily. Read about the different plugin types and how to write your own. We welcome contributions to adopt new open source tools!
- **Official Plugins:** We maintain many plugins right in the official Threat Bus repository. Check out our integrations for MISP, Zeek, CIFv3, and generally apps that connect via ZeroMQ, like vast-threatbus and our OpenCTI connector.
- **Snapshotting:** The snapshot feature allows subscribers to directly request threat intelligence data for a certain time range from other applications. Threat Bus handles the point-to-point communication of all involved apps.
- <https://github.com/tenzir/threatbus>

# Threat Ingestor

- ThreatIngestor can be configured to watch Twitter, RSS feeds, or other sources, extract meaningful information such as malicious IPs/domains and YARA signatures, and send that information to another system for analysis.
- <https://github.com/InQuest/ThreatIngestor>

# Misp

- User guide for MISP - The Open Source Threat Intelligence Sharing Platform. This user guide is intended for ICT professionals such as security analysts, security incident handlers, or malware reverse engineers who share threat intelligence using MISP or integrate MISP into other security monitoring tools. The user guide includes day-to-day usage of the MISP's graphical user interface along with its automated interfaces (API), in order to integrate MISP within a security environment and operate one or more MISP instances.
- <https://github.com/MISP/misp-book>

# Malware-IOC

- Here are indicators of compromise (IOCs) of our various investigations. We are doing this to help the broader security community fight malware wherever it might be.
- .yar files are Yara rules
- .rules files are Snort rules
- samples.md5, samples.sha1 and samples.sha256 files are newline separated list of hexadecimal digests of malware samples
- If you would like to contribute improved versions please send us a pull request.
- If you've found false positives give us the details in an issue report and we'll try to improve our IOCs.
- These are licensed under the permissive BSD two-clause license. You are allowed to modify these and keep the changes to yourself even though it would be rude to do so.
- <https://github.com/eset/malware-ioc>

# Cobalt Strike Scan

- Scan files or process memory for Cobalt Strike beacons and parse their configuration.
- CobaltStrikeScan scans Windows process memory for evidence of DLL injection (classic or reflective injection) and/or performs a YARA scan on the target process' memory for Cobalt Strike v3 and v4 beacon signatures.
- Alternatively, CobaltStrikeScan can perform the same YARA scan on a file supplied by absolute or relative path as a command-line argument.
- If a Cobalt Strike beacon is detected in the file or process, the beacon's configuration will be parsed and displayed to the console.
- <https://github.com/Apr4h/CobaltStrikeScan>



# Harden Tools

- Hardentools is designed to disable a number of "features" exposed by operating systems (Microsoft Windows, for now) and some widely used applications (Microsoft Office and Adobe PDF Reader, for now). These features, commonly thought for enterprise customers, are generally useless to regular users and rather pose as dangers as they are very commonly abused by attackers to execute malicious code on a victim's computer. The intent of this tool is to simply reduce the attack surface by disabling the low-hanging fruit. Hardentools is intended for individuals at risk, who might want an extra level of security at the price of some usability. It is not intended for corporate environments.
- <https://github.com/securitywithoutborders/hardentools>

# Windows Secure Host Baseline

- The Windows Secure Host Baseline (SHB) provides an automated and flexible approach for assisting the DoD in deploying the latest releases of Windows 10 using a framework that can be consumed by organizations of all sizes.
- The DoD CIO issued a memo on November 20, 2015 directing Combatant Commands, Services, Agencies and Field Activities (CC/S/As) to rapidly deploy the Windows 10 operating system throughout their respective organizations with the objective of completing deployment by the end of January 2017. The Deputy Secretary of Defense issued a memo on February 26, 2016 directing the DoD to complete a rapid deployment and transition to Microsoft Windows 10 Secure Host Baseline by the end of January 2017.
- <https://github.com/nsacyber/Windows-Secure-Host-Baseline>

# Any Run

- It is not enough to run a suspicious file on a testing system to be sure in its safety. For some types of malware or vulnerabilities (e.g., APT), direct human interaction during analysis is required. A set of online malware analysis tools, allows you to watch the research process and make adjustments when needed, just as you would do it on a real system, rather than relying on a wholly automated sandbox.
- <https://any.run/>

# Hybrid Analysis



- This is a free malware analysis service for the community that detects and analyzes unknown threats using a unique Hybrid Analysis technology.
- <https://www.hybrid-analysis.com/>

# PSHunt

- PSHunt is a Powershell Threat Hunting Module designed to scan remote endpoints\* for indicators of compromise or survey them for more comprehensive information related to state of those systems (active processes, autostarts, configurations, and/or logs).
- PSHunt began as the precursor to Infocyte's commercial product, Infocyte HUNT, and is now being open sourced for the benefit of the DFIR community.
- <https://github.com/Infocyte/PSHunt>

# GoPhish

- Gophish is a powerful, open-source phishing framework that makes it easy to test your organization's exposure to phishing.
- <https://getgophish.com/>

# Solar Winds

- The log manager gathers log messages from all over your system, consolidating the different formats they are written in to be stored and searched together. The dashboard shows all events live on the screen, and there is also an analytical tool that helps you search through stored log files for pertinent security information. The log manager also protects logfiles from tampering with a file integrity monitor.
- The Security Event Manager isn't just a SIEM. It includes a threat intelligence feed, which pools threat detection experiences from all of the clients of the SolarWinds system. The security system uses the guidance from the feed when searching through log messages for indicators of attack.
- <https://www.solarwinds.com/security-event-manager>

# SentinelOne

- Today we are pleased to announce the revolutionary technology of ActiveEDR. ActiveEDR solves the problems of EDR as you know it by tracking and contextualizing everything on a device. ActiveEDR is able to identify malicious acts in real time, automating the required responses and allowing easy threat hunting by searching on a single IOC. Read more to understand how we got here and how we created the first and only EDR that is truly active.
- <https://www.sentinelone.com/blog/active-edr-feature-spotlight/>



# Qualys

- Cyber risk is business risk - with risks growing faster than what traditional VM and SIEM tools can manage. Security and IT teams need a new approach to tackle cyber threats with a clear understanding of cybersecurity risk and automate workflows for rapid response..
- <https://www.qualys.com/apps/vulnerability-management-detection-response/>

# EzTools

- These open source digital forensics tools can be used in a wide variety of investigations including cross validation of tools, providing insight into technical details not exposed by other tools, and more. Over the years, Eric has written and continually improve over a dozen digital forensics tools that investigators all over the world use and rely upon daily.
- <https://www.sans.org/tools/ez-tools/>

# Remnux

- REMnux® is a free Linux toolkit for assisting malware analysts with reverse-engineering malicious software. It strives to make it easier for forensic investigators and incident responders to start using the variety of freely-available tools that can examine malware, yet might be difficult to locate or set up.
- The heart of the project is the REMnux Linux distribution based on Ubuntu. This lightweight distro incorporates many tools for analyzing Windows and Linux malware, examining browser-based threats such as obfuscated JavaScript, exploring suspicious document files and taking apart other malicious artifacts. Investigators can also use the distro to intercept suspicious network traffic in an isolated lab when performing behavioral malware analysis.
- <https://sansgear.com/remnux/>

# Sift Workstation

- Why SIFT? The SIFT Workstation is a group of free open-source incident response and forensic tools designed to perform detailed digital forensic examinations in a variety of settings. It can match any current incident response and forensic tool suite. SIFT demonstrates that advanced incident response capabilities and deep dive digital forensic techniques to intrusions can be accomplished using cutting-edge open-source tools that are freely available and frequently updated.
- <https://sansgear.com/sift-workstation/>

# Sof-Elk

- SOF-ELK® is a “big data analytics” platform focused on the typical needs of computer forensic investigators/analysts and information security operations personnel. The platform is a customized build of the open source Elastic stack, consisting of the Elasticsearch storage and search engine, Logstash ingest and enrichment system, Kibana dashboard frontend, and Elastic Beats log shipper (specifically filebeat). With a significant amount of customization and ongoing development, SOF-ELK® users can avoid the typically long and involved setup process the Elastic stack requires. Instead, they can simply download the pre-built and ready-to-use SOF-ELK® virtual appliance that consumes various source data types (numerous log types as well as NetFlow), parsing out the most critical data and visualizing it on several stock dashboards. Advanced users can build visualizations the suit their own investigative or operational requirements, optionally contributing those back to the primary code repository.
- <https://sansgear.com/sof-elk/>

# MXToolbox

- This test will list MX records for a domain in priority order. The MX lookup is done directly against the domain's authoritative name server, so changes to MX Records should show up instantly. You can click Diagnostics , which will connect to the mail server, verify reverse DNS records, perform a simple Open Relay check and measure response time performance. You may also check each MX record (IP Address) against 105 DNS based blacklists . (Commonly called RBLs, DNSBLs)
- <https://mxttoolbox.com/>



# DevSec.io

- Server hardening framework providing Ansible, Chef, and Puppet implementations of various baseline security configurations.
- <https://dev-sec.io/>

# Clevis

- Pluggable framework for automated decryption, often used as a Tang client.
- <https://github.com/latchset/clevis>





# Cortex

- Provides horizontally scalable, highly available, multi-tenant, long term storage for Prometheus.
- <https://cortexmetrics.io/>

# Jaeger

- Distributed tracing platform backend used for monitoring and troubleshooting microservices-based distributed systems.
- <https://www.jaegertracing.io/>

# KubeSec

- Static analyzer of Kubernetes manifests that can be run locally, as a Kubernetes admission controller, or as its own cloud service.
- <https://kubesecc.io/>

# Linkerd

- Ultra light Kubernetes-specific service mesh that adds observability, reliability, and security to Kubernetes applications without requiring any modification of the application itself.
- <https://linkerd.io/>

# Globaleaks

- Free, open source software enabling anyone to easily set up and maintain a secure whistleblowing platform.
- <https://www.globaleaks.org/>

# Teleport

- Allows engineers and security professionals to unify access for SSH servers, Kubernetes clusters, web applications, and databases across all environments.
- <https://goteleport.com/>

# DynInst

- Tools for binary instrumentation, analysis, and modification, useful for binary patching.
- <https://dyninst.org/dyninst>

# Dynamo Rio

- Runtime code manipulation system that supports code transformations on any part of a program, while it executes, implemented as a process-level virtual machine.
- <https://dynamorio.org/>



# Egalito

- Binary recompiler and instrumentation framework that can fully disassemble, transform, and regenerate ordinary Linux binaries designed for binary hardening and security research.
- <https://egalito.org/>

# Kushtaka

- Sustainable all-in-one honeypot and honeypot orchestrator for under-resourced blue teams.
- <https://kushtaka.org/>

# Manuka

- Open-sources intelligence (OSINT) honeypot that monitors reconnaissance attempts by threat actors and generates actionable intelligence for Blue Teamers.
- <https://github.com/spaceraccoon/manuka>

# Threat Note

- Web application built by Defense Point Security to allow security researchers the ability to add and retrieve indicators related to their research.
- [https://github.com/DefensePointSecurity/threat\\_note](https://github.com/DefensePointSecurity/threat_note)

# AutoMacTC

- Modular, automated forensic triage collection framework designed to access various forensic artifacts on macOS, parse them, and present them in formats viable for analysis.
- <https://github.com/CrowdStrike/automactc>

# Margarita Shotgun

- Command line utility (that works with or without Amazon EC2 instances) to parallelize remote memory acquisition.
- <https://github.com/ThreatResponse/margaritashotgun>

# Mailspooof

- Scans SPF and DMARC records for issues that could allow email spoofing.
- <https://github.com/serain/mailspooof>

# Phishing Catcher

- Configurable script to watch for issuances of suspicious TLS certificates by domain name in the Certificate Transparency Log (CTL) using the CertStream service.
- [https://github.com/x0rz/phishing\\_catcher](https://github.com/x0rz/phishing_catcher)



# SentinelOne

- Today we are pleased to announce the revolutionary technology of ActiveEDR. ActiveEDR solves the problems of EDR as you know it by tracking and contextualizing everything on a device. ActiveEDR is able to identify malicious acts in real time, automating the required responses and allowing easy threat hunting by searching on a single IOC. Read more to understand how we got here and how we created the first and only EDR that is truly active.
- <https://www.sentinelone.com/blog/active-edr-feature-spotlight/>

# BadBlood

- Fills a test (non-production) Windows Domain with data that enables security analysts and engineers to practice using tools to gain an understanding and prescribe to securing Active Directory.
- <https://www.secframe.com/badblood/>

# Drool

- Replay DNS traffic from packet capture files and send it to a specified server, such as for simulating DDoS attacks on the DNS and measuring normal DNS querying.
- <https://www.dns-oarc.net/tools/drool>

# Dumpster Fire

- Modular, menu-driven, cross-platform tool for building repeatable, time-delayed, distributed security events for Blue Team drills and sensor/alert mapping.
- <https://github.com/TryCatchHCF/DumpsterFire>

# GRR Rapid Response

- Incident response framework focused on remote live forensics consisting of a Python agent installed on assets and Python-based server infrastructure enabling analysts to quickly triage attacks and perform analysis remotely.
- <https://github.com/google/grr>

# MozDef

- Automate the security incident handling process and facilitate the real-time activities of incident handlers.
- <https://github.com/mozilla/MozDef>

# Rastrea2r

- Multi-platform tool for triaging suspected IOCs on many endpoints simultaneously and that integrates with antivirus consoles.
- <https://github.com/rastrea2r/rastrea2r>

# AttackerKB

- Free and public crowdsourced vulnerability assessment platform to help prioritize high-risk patch application and combat vulnerability fatigue.
- <https://attackerkb.com/>



# Data

- Credential phish analysis and automation tool that can accept suspected phishing URLs directly or trigger on observed network traffic containing such a URL.
- <https://github.com/hadojae/DATA>

# Forager

- Multi-threaded threat intelligence gathering built with Python3 featuring simple text-based configuration and data storage for ease of use and data portability.
- <https://github.com/opensoursecsec/Forager>

# Unfetter

- Identifies defensive gaps in security posture by leveraging Mitre's ATT&CK framework.
- <https://nsacyber.github.io/unfetter/>

# Onion Balance

- Provides load-balancing while also making Onion services more resilient and reliable by eliminating single points-of-failure.
- <https://onionbalance.readthedocs.io/en/latest/>



# Nebula

- Completely open source and self-hosted, scalable overlay networking tool with a focus on performance, simplicity, and security, inspired by tinc.
- <https://github.com/slackhq/nebula>

# TailScale

- Managed freemium mesh VPN service built on top of WireGuard.
- <https://tailscale.com/>

# Cobalt Strike Scan

- Scan files or process memory for Cobalt Strike beacons and parse their configuration.
- <https://github.com/Apr4h/CobaltStrikeScan>

# Sigcheck

- Audit a Windows host's root certificate store against Microsoft's Certificate Trust List (CTL).
- <https://docs.microsoft.com/en-us/sysinternals/downloads/sigcheck>



# Domain Hunter

- Checks expired domains for categorization/reputation and Archive.org history to determine good candidates for phishing and C2 domain names
- <https://github.com/threatexpress/domainhunter>

# Elastic for Red Team

- Repository of resources for configuring a Red Team SIEM using Elastic.
- <https://github.com/SecurityRiskAdvisors/RedTeamSIEM>

# SharpEDRChecker

- Checks running processes, process metadata, DLLs loaded into your current process and the each DLLs metadata, common install directories, installed services and each service binaries metadata, installed drivers and each drivers metadata, all for the presence of known defensive products such as AV's, EDR's and logging tools.
- <https://github.com/PwnDexter/SharpEDRChecker>

# SeatBelt

- Seatbelt is a C# project that performs a number of security oriented host-survey "safety checks" relevant from both offensive and defensive security perspectives.
- <https://github.com/GhostPack/Seatbelt>

# BloodHound

- Six Degrees of Domain Admin
- <https://github.com/BloodHoundAD/BloodHound>

# Rubeus

- Rubeus is a C# toolset for raw Kerberos interaction and abuses. It is heavily adapted from Benjamin Delpy's Kekeo project (CC BY-NC-SA 4.0 license) and Vincent LE TOUX's MakeMeEnterpriseAdmin project (GPL v3.0 license).
- <https://github.com/GhostPack/Rubeus>

# Mimikatz

- Mimikatz is an open-source application that allows users to view and save authentication credentials like Kerberos tickets.
- <https://github.com/gentilkiwi/mimikatz>

# CredBandit

- CredBandit is a proof of concept Beacon Object File (BOF) that uses static x64 syscalls to perform a complete in memory dump of a process and send that back through your already existing Beacon communication channel.
- <https://github.com/xforcered/CredBandit>



# SharpChromium

- .NET 4.0 CLR Project to retrieve Chromium data, such as cookies, history and saved logins.
- <https://github.com/djhohnstein/SharpChromium>

# Watson

- Watson is a .NET tool designed to enumerate missing KBs and suggest exploits for Privilege Escalation vulnerabilities.
- <https://github.com/rasta-mouse/Watson>

# DNS Exfiltration

- Data exfiltration over DNS request covert channel
- <https://www.sentinelone.com/blog/active-edr-feature-spotlight/>

# Prelude Operator

- A Platform for Developer-first advanced security. Defend your organization by mimicking real adversarial attacks.
- <https://www.prelude.org/>

# Stratus Red Team

- Stratus Red Team is "Atomic Red Team™" for the cloud, allowing to emulate offensive attack techniques in a granular and self-contained manner.
- <https://github.com/DataDog/stratus-red-team>

# PowerForensic

- PowerForensics is a framework for live disk forensic analysis
- <https://github.com/Invoke-IR/PowerForensics>

# FastFinder

- Fast customisable cross-platform suspicious file finder. Supports md5/sha1/sha256 hashes, literal/wildcard strings, regular expressions and YARA rules
- <https://github.com/codeyourweb/fastfinder>

# Fireeye Memorize

- A free memory forensic software
- <https://fireeye.market/apps/211368>



# KeeFarce

- Extract KeePass passwords from memory
- <https://github.com/denandz/KeeFarce>

# Logon Tracer

- Investigate malicious Windows logon by visualizing and analyzing Windows event log
- <https://github.com/JPCERTCC/LogonTracer>

# RegRippy

- A framework for reading and extracting useful forensics data from Windows registry hives
- <https://github.com/airbus-cert/regrippy>

# Pancake Viewer

- Disk image viewer based in dfvfs, similar to the FTK Imager viewer
- <https://github.com/forensicmatt/PancakeViewer>

# AWESOME!

- <https://github.com/fabacab/awesome-cybersecurity-blueteam>
- <https://github.com/CyberSecurityUP/Awesome-Red-Team-Operations>
- <https://github.com/infosecninja/Red-Teaming-Toolkit>
- <https://github.com/an4kein/awesome-red-teaming>
- <https://github.com/cugu/awesome-forensics>
- <https://github.com/dcarlin/Blue-Team-Tools>
- <https://github.com/fabacab/awesome-cybersecurity-blueteam>