

# SANS Faculty Free Tools

SANS Instructors have built more than 150 open source tools that support your work and help you implement better security. Search the lists on the following pages for the free tools that will help you get the job done.

# SANS FACULTY CREATED Free Tools Index

## Blue Team

LaBrea.py  
ShowMeThePackets  
VisualSniff  
DeepBlueCLI  
"WhatsMyName"  
untappdScraper  
Espial  
flare  
VulnWhisperer  
Log Campaign  
Update-VMs  
QRadar Threat Intelligence  
DNSSpoof  
Misc  
Freq Server  
Domain Stats

## Blue Team / Cyber Defense

API-ify  
Reassembler  
SET-KBLED

## Blue Team / DFIR

rastrea2r  
PAE  
DAD  
Silky  
CyberCPR

## Cloud Security

Puma Scan  
Serverless Prey  
cx-scan  
Kubesecc  
Kubernetes Simulator  
netassert  
Review Security Groups

## ICS (Industrial Control Systems)

CHAPS  
ControlThings

## Management

Human Metrics Matrix  
Risk Definitions  
Presenting to BOD  
NIST CSF+

## Digital Forensics & Incident Response

SIFT Workstation  
REMnux  
SOF-ELK  
EZ Tools  
SRUM-DUMP  
ESE Analyst  
Werejugo  
Aurora IR  
APOLLO  
AmcacheParser  
AppCompatCacheParser  
bstrings  
EZViewer  
EvtxECmd  
Hasher  
JLECmd  
JumpList Explorer  
LECmd  
MFTECmd  
MFTEExplorer  
PECmd  
RBCmd  
RecentFileCacheParser  
Registry Explorer  
RECmd  
SDB Explorer  
ShellBags Explorer  
SBECmd  
Timeline Explorer  
VSCMount  
WxTCmd  
iisGeoLocate  
KAPE  
TimeApp  
XWFIM  
Get-ZimmermanTools  
MacMRU  
The Pyramid of Pain  
Hunting Maturity Model  
teleparser  
kobackupdec  
dpapilab  
decwindbx  
hotoloti  
ios\_bfu\_triage  
unssz  
w10pfdecomp  
sigs.py  
mac\_robber.py  
docker\_mount.py  
tln\_parse.py  
sqlparse.py  
onion\_peeler.py  
quicklook\_parser  
chrome\_parse.py  
parse\_mftdump.py  
GA-Parser.py  
GA Cookie Cruncher  
"safari\_parser.py"  
thunderbird\_parser.py  
LMG  
DFIS  
analyzeEXT  
Linewatch  
pktIntel

## Penetration Testing

EmuRoot  
The C2 Matrix  
KillerBee  
KillerZee  
BitFit  
PPTXIndex  
PlistSubtractor  
PPTXSanity  
DynaPstalker  
PPTXUrls  
NM2LP  
MFSmartHack  
BTFind  
CoWPAtty  
PCAPHistogram  
EAPMD5Pass  
Asleep  
TIBTLE2Pcap  
Bluecrypt  
evtResourceIDGaps  
Slingshot  
EAP-MD5-Crack  
Digestive  
Autocrack  
wiki-dictionary-creator  
Voltaire  
Subterfuge  
Prismatica  
Diagon  
Oculus  
Tiberium  
Cryptbreaker  
Acheron  
Gryffindor  
Mailsniper for Gmail  
ads-payload  
"powercat"  
Emergence  
heimdall  
Kerberoasting  
Pause-Process  
obscureV4  
QuantumDuck

# Blue Team Tools

Click on Tool Name to visit tool's homepage

Tool Name	Description	Author
LaBrea.py	Modern implementation of LaBreay Tarpit in Python/Scapy. LaBrea allows you to set up a host that can take over all unused addresses within an IPv4 subnet, creating a low interaction honeypot (of sorts) for network worms and scans.	
ShowMeThePackets	Collection of IDS/Network Monitoring scripts and tools covering things from data collection through analysis.	David Hoelzer
VisualSniff	A simple communications visualization tool for Macos written in Objective-C. Visualizes communicating hosts, volume, and directionality of data.	
DeepBlueCLI	A PowerShell Module for Threat Hunting via Windows Event Log.	Eric Conrad
WhatsMyName	OSINT/recon tool for user name enumeration. JSON file that is used in Spiderfoot and Recon-ng modules.	Micah Hoffman
untappdScraper	OSINT tool for scraping data from the untappd.com social media site.	Micah Hoffman & Brandon Evans
Espial	OSINT tool for asset identification, service validation and vulnerability detection.	Serge Borso
flare	Helps to find command and control beacons against data already ingested into Elasticsearch (supports netflow, Zeek, and likely any standard connection log).	Austin Taylor & Justin Henderson
VulnWhisperer	Aggregates vulnerability data and lets you report off it with ELK and allows tagging things such as PIC, HIPAA, critical asset, etc. Supports adding a score called residual_risk score which allows you to document what you feel the risk really is.	Justin Henderson
Log Campaign	Scheduled task framework for automatic baselining and logging based on differences between baselines. Logging can be direct to a syslog server or to local EVT_X. Custom EVT_X channel is supported and log output can be plaintext or JSON.	Justin Henderson
Update-VMs	Automatic framework for snapshotting VMware VMs and patching them. Supports custom health checks per VM with automatic rollback of failed healthcheck and default healthcheck is to see if the server comes back online.	Josh Johnson
QRadar Threat Intelligence	Download a list of suspected malicious IPs and Domains. Create a QRadar Reference Set. Search Your Environment For Malicious Ips.	Nik Alleyne
DNSSpoof	Script to perform and teach how easy it is to build a DNS Spoofing tool using scapy.	
Misc PowerShell & VBScript	Hundreds of PowerShell and VBScript scripts for tasks large and small related to Microsoft product security.	Jason Fossen
Freq Server	A Web server that integrates with SEIM systems and identifies hosts being used for Command and control by identifying domains being used for Command and Control. The tools uses character frequency analysis to identify random hostnames.	Mark Baggett
Domain Stats	A SEIM Integration tool that monitors DNS hostnames used by your network to identify first contact with new domains and contact with new domains that have been established in the last 2 years, effective in identifying malicious actors.	
<b>Blue Team &amp; Cyber Defense</b>		
API-ify	A Web server that provides an API that allows network defenders to consume the output of any Linux based command and integrate it into their ELK stack, splunk or other SEIM tools.	
Reassembler	A tool that allows network defenders to reassemble and view packets using the 5 widely used fragment reassembly policies commonly found in Intrusion Detection Systems.	Mark Baggett
SET-KBLED	A Powershell script that will allow you to set the Keyboard LED Color to the color of your Clevo chipset based Keyboard. When used with event log actions you have a visible early warning system. Example, have keyboards turn red when a virus is detected.	
<b>Blue Team &amp; DFIR</b>		
Rastrea2r	Rastrea2r (pronounced "rastreador" - hunter- in Spanish) is a multi-platform open source tool that allows incident responders and SOC analysts to triage suspect systems and hunt for Indicators of Compromise (IOCs) across thousands of endpoints in minutes.	Ismael Valenzuela
PAE	A high-performance statistical analysis tool for packet headers and data. Excellent for anomaly detection, threat hunting, and beacon (protocol) detection. Supports visualization through accompanying Python script.	
DAD	Large scale log aggregation and analysis SIEM supporting the ability to create correlation scripts based on signatures and on correlations. Supports aggregation of syslog, Windows Event Logs, and any other text-based log format.	David Hoelzer
Silky	Web based GUI for easy interaction with SiLK based NetFlow repositories.	
CyberCPR	IR Management platform for secure comms and tracking of the incident and evidence, with immutable chat, comms, hashed and encrypted central evidence files. Allowing analysts to streamline protecting their evidence and plans for network or system remediation.	

# Digital Forensics & Incident Response Tools

Click on Tool Name to visit tool's homepage

Tool Name	Description	Author
<a href="#">SIFT Workstation</a>	The 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.	Rob Lee
<a href="#">REMnux</a>	REMnux® is a free Linux toolkit for assisting malware analysts with reverse-engineering malicious software. This lightweight distro incorporates many tools for analyzing Windows and Linux malware and examining browser-based threats.	Lenny Zeltser
<a href="#">SOF-ELK</a>	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 to make large scale analysis easier.	Phil Hagen
<a href="#">EZ Tools</a>	A suite of open source digital forensics tools that 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.	
<a href="#">AmcacheParser</a>	Amcache.hve parser with lots of extra features. Handles locked files.	
<a href="#">AppCompatCacheParser</a>	AppCompatCache aka ShimCache parser. Handles locked files.	
<a href="#">bstrings</a>	Find them strings yo. Built in regex patterns. Handles locked files.	
<a href="#">EZViewer</a>	Standalone, zero dependency viewer for .doc, .docx, .xls, .xlsx, .txt, .log, .rtf, .otd, .htm, .html, .mht, .csv, and .pdf. Any non-supported files are shown in a hex editor (with data interpreter!).	
<a href="#">EvtxECmd</a>	Event log (evt) parser with standardized CSV, XML, and json output! Custom maps, locked file support, and more!	
<a href="#">Hasher</a>	Hash all the things	
<a href="#">JLECmd</a>	Jump List parser	
<a href="#">JumpList Explorer</a>	GUI based Jump List viewer	
<a href="#">LECmd</a>	Parse Ink files	
<a href="#">MFTECmd</a>	\$MFT, \$Boot, \$J, \$SDS, and \$LogFile (coming soon) parser. Handles locked files	
<a href="#">MFTExplorer</a>	\$MFT, \$Boot, \$J, \$SDS, and \$LogFile (coming soon) parser.	
<a href="#">PECmd</a>	Prefetch parser	
<a href="#">RBCmd</a>	Recycle Bin artifact (INFO2/\$!) parser	
<a href="#">RecentFileCacheParser</a>	RecentFileCache parser	Eric Zimmerman
<a href="#">Registry Explorer</a>	Registry viewer with searching, multi-hive support, plugins, and more. Handles locked files	
<a href="#">RECmd</a>	Registry viewer with searching, multi-hive support, plugins, and more. Handles locked files	
<a href="#">SDB Explorer</a>	Shim database GUI	
<a href="#">ShellBags Explorer</a>	GUI for browsing shellbags data. Handles locked files	
<a href="#">SBECmd</a>	CLI for analyzing shellbags data.	
<a href="#">Timeline Explorer</a>	View CSV and Excel files, filter, group, sort, etc. with ease	
<a href="#">VSCMount</a>	Mount all VSCs on a drive letter to a given mount point	
<a href="#">WxTCmd</a>	Windows 10 Timeline database parser	
<a href="#">KAPE</a>	Kroll Artifact Parser/Extractor: Flexible, high speed collection of files as well as processing of files. Many features	
<a href="#">iisGeoLocate</a>	Geolocate IP addresses found in IIS logs	
<a href="#">TimeApp</a>	A simple app that shows current time (local and UTC) and optionally, public IP address. Great for testing	
<a href="#">XWFIM</a>	X-Ways Forensics installation manager	
<a href="#">Get-ZimmermanTools</a>	PowerShell script to auto discover and update everything above.	
<a href="#">pktIntel</a>	This tool is used to perform threat intelligence against packet data.	Nik Alleyne

# Digital Forensics & Incident Response Tools Continued...

Click on Tool Name to visit tool's homepage

Tool Name	Description	Author	
<a href="#">APOLLO</a>	Apple Pattern of Life Lazy Output'er (APOLLO) extracts and correlates data from numerous databases, then organizes it to show a detailed event log of application usage, device status, and many other pattern-of-life artifacts from Apple devices.	Sarah Edwards	
<a href="#">MacMRU</a>	Mac MRU parser		
<a href="#">The Pyramid of Pain</a>	The Pyramid of Pain is a conceptual model for the effective use of Cyber Threat Intelligence in threat detection operations, with a particular emphasis on increasing the adversaries' cost of operations.	David J. Bianco	
<a href="#">Hunting Maturity Model</a>	The Hunting Maturity Model (HMM) is a simple model for evaluating an organization's threat hunting capability. It provides not only a "where are we now?" metric, but also a roadmap for program improvement.		
<a href="#">teleparser</a>	teleparser is a Python3 script aimed to parse the Telegram cache4.db database.	Francesco Picasso	
<a href="#">kobackupdec</a>	The kobackupdec is a Python3 script to decrypt Huawei HiSuite or KoBackup (Android app) backups.		
<a href="#">dpapilab</a>	Python toolkit based on dpapick to decrypt, online and offline, DPAPI protected blobs, Windows Vaults included.		
<a href="#">decwindbx</a>	Windows toolkit to decrypt Dropbox .dbx databases.		
<a href="#">hotoloti</a>	Zena Forensics blog scripts set (regripper plugins, volatility mimikatz/rekall plugin, event log, etc.)		
<a href="#">unssz</a>	Python script to decrypt Samsung / Seagate Secure Zone crypto containers (without knowing the password...).		
<a href="#">w10pfdecomp</a>	Windows 10 Prefetch (native) decompression		
<a href="#">ios_triage</a>	Bash script to extract data from a "chekcra1ned" iOS device.		Mattia Epifani
<a href="#">sigs.py</a>	Generate md5, sha1, sha256, sha512, sha3-384 signatures from files (potentially recursively)		Jim Clausing
<a href="#">mac_robber.py</a>	mac_robber rewritten in python		
<a href="#">docker_mount.py</a>	Script to read-only mount docker layered filesystems (currently supports underlying aufs and overlay2)		
<a href="#">tln_parse.py</a>	Python script to replace parse.exe in Mari's KAPE mini-timeline workflow to give me good yyyy-dd-mm UTC timestamps.		
<a href="#">sqlparse.py</a>	Python and EXE to recover delete entries in SQLite Databases		
<a href="#">onion_peeler.py</a>	Python tool to batch query IP addresses to see if they are Tor exit nodes		
<a href="#">quicklook_parser</a>	Python tool to parse the Mac QuickLook index.sqlite database. Contains information about thumbnails generated on a Mac.	Mari DeGrazia	
<a href="#">chrome_parse.py</a>	Parse Chrome history and downloads into TSV or TLN format.		
<a href="#">parse_mftdump.py</a>	Parses the output of mftdump.exe to bodyfile format		
<a href="#">GA-Parser.py</a>	Python script to parse out Google Analytic Values from E01, RAM, etc.		
<a href="#">GA Cookie Cruncher</a>	Parses out Google Analytic values for IE, FireFox, Chrome and Safari.		
<a href="#">safari_parser.py</a>	Parses Safari history, downloads, bookmarks and topsites.		
<a href="#">thunderbird_parser.py</a>	Parses out email from the Thunderbird client, to include deleted emails.		
<a href="#">SRUM-DUMP</a>	Windows GUI Forensics tool produces XLSX spreadsheet with detailed information on all processes that have run in the last 30 days on Windows computers.		Mark Baggett
<a href="#">ESE Analyst</a>	Command line based tool that dumps and analyzes databases used on Windows systems that stores various forensics information. Plugins are used to dump different types of data.		
<a href="#">Werejugo</a>	A Windows Forensics tool that analyzes the registry, event logs and wireless network configurations to identify physical locations of where the laptop has been used.		
<a href="#">Aurora IR</a>	Spreadsheet of Doom on steroids with some nice little graphing features, task tracking, and much more. I'll be adding new features soon.	Mathias Fuchs	
<a href="#">LMG</a>	Script to automate memory capture and profile creation for Linux systems	Hal Pomeranz	
<a href="#">DFIS</a>	EXT3 file recovery tools, timelining tools, and more		
<a href="#">analyzeEXT</a>	Recover EXT filesystem info from carved directory blocks		
<a href="#">Linewatch</a>	Spot outliers in large data runs		

# Penetration Testing Tools

Click on Tool Name to visit tool's homepage

Tool Name	Description	Author
<a href="#">Slingshot</a>	Slingshot is an Ubuntu-based Linux distribution with the MATE Desktop Environment built for use in the SANS penetration testing curriculum and beyond. Designed to be stable, reliable and lean, Slingshot is built with Vagrant and Ansible. SANS Slingshot C2 Matrix Edition also available which includes everything from Slingshot and 8 popular command and control frameworks.	Ryan O'Grady
<a href="#">The C2 Matrix</a>	Matrix of Command and Control Frameworks for Penetration Testing, Red Teaming, and Purple Teaming. Apart from the Google Sheet/Golden Source Matrix is a C2 Questionnaire, How-To website, and the SANS Slingshot C2 Matrix Edition Virtual Machine.	Jorge Orchilles
<a href="#">Kerberoasting</a>	Portions of Kerberos tickets may be encrypted using the password hash of the target service, and is thus vulnerable to offline Brute Force attacks that may expose plaintext credentials.	Tim Medin
<a href="#">KillerBee</a>	KillerBee is a framework, programming API, and suite of tools for testing the security of ZigBee wireless networks	Joshua Wright
<a href="#">KillerZee</a>	KillerZee is a framework, programming API, and suite of tools for testing the security of Z-Wave wireless networks	
<a href="#">BitFit</a>	BitFit is a tool for guaranteeing an integrity check for distributed data files.	
<a href="#">PPTXIndex</a>	PPTXIndex generates a Microsoft Word indexed document from PowerPoint PPTX files.	
<a href="#">PlistSubtractor</a>	PlistSubtractor simplifies the process of assessing nested plist data	
<a href="#">PPTXSanity</a>	PPTXSanity evaluates all of the links in a PowerPoint file to check for dead links	
<a href="#">DynaPstalker</a>	DynaPstalker assists when fuzzing a Windows process by color-coding reached blocks for use in IDA Pro.	
<a href="#">PPTXUrls</a>	PPTXUrls generates a HTML report of all links in one or more PowerPoint files.	
<a href="#">NM2LP</a>	NM2LP converts NetMon wireless packet capture data to libpcap format.	
<a href="#">MFSmartHack</a>	MFSmartHack is a suite of tools for hacking MIFARE DESFire and ULC high frequency RFID cards	
<a href="#">BTFind</a>	BTFind is a graphical and audio interface for tracking the location of Bluetooth and Bluetooth Low Energy devices	
<a href="#">CoWPAtty</a>	CoWPAtty is a WPA2-PSK password cracking tool.	
<a href="#">PCAPHistogram</a>	PCAPHistogram assesses the payload of libpcap packet capture data, generating a histogram to characterize data entropy.	
<a href="#">EAPMD5Pass</a>	EAPMD5Pass is a password cracking tool for EAP-MD5 packet captures.	
<a href="#">Asleep</a>	Aleap is a Cisco LEAP and generic MS-CHAPv2 password cracking tool.	
<a href="#">TIBTLE2Pcap</a>	TIBTLE2Pcap converts Bluetooth and Bluetooth Low Energy packet captures using the proprietary TI SmartRF format into libpcap-compatible files.	
<a href="#">Bluecrypt</a>	Bluecrypt is a simple implementation of the Bluetooth authentication cryptographic functions including E0, E21 and E22. Includes some wrapper functions to make Bluetooth authentication functions a little simpler.	
<a href="#">evtxResourceIDGaps</a>	evtxResourceIDGaps is a script to evaluate Windows EVTX logging data to identify evidence of tampered logging data.	
<a href="#">EAP-MD5-Crack</a>	A python implementation of an EAP authentication cracking. PCAP in, password out.	Mark Baggett
<a href="#">Digestive</a>	Dictionary cracking tool for HTTP Digest challenge/response hashes	Eric Conrad
<a href="#">Autocrack</a>	This python script is a Hashcat wrapper to help automate the cracking process. The script includes multiple functions to select a set of wordlists and rules, as well as the ability to run a bruteforce attack, with custom masks, before the wordlist/rule attacks.	Timothy McKenzie
<a href="#">obscureV4</a>	Obscure an IPv4 address into over 100 different formats that still work for connecting to network resources. Useful for bypassing web application firewalls and intrusion detection systems.	Kevin Tyers
<a href="#">QuantumDuck</a>	Translate Ducky Script into QMK Send_String() macros that can be loaded on QMK compatible PCBs. Allows you to make your own mechanical keyboard with hidden attack macros. Useful for physical pentest (and maybe office pranks too).	

# Penetration Testing Tools Continued...

Click on Tool Name to visit tool's homepage

Tool Name	Description	Author
<a href="#">wiki-dictionary-creator</a>	Creates a wordlist based on a Wikipedia sites articles. Allows you to select Wikipedia language. Creates wordlists based on the article titles.	Chris Dale
<a href="#">VoIP Hopper</a>	VoIP Hopper is a network infrastructure penetration testing tool to test the (in)security of VLANS as well as mimic the behavior of IP Phones to automatically VLAN Hop and demonstrate risks within IP Telephony network infrastructures.	Jason Ostrom
<a href="#">Voltaire</a>	Voltaire is a web-based indexing tool for GIAC certification examinations. Creating an index with Voltaire is a three phase process involving: documentation/note-taking, sorting & normalization, and word processing. This readme is meant to guide users through the process.	
<a href="#">Subterfuge</a>	Subterfuge is a Framework to take the arcane art of Man-in-the-Middle Attack and make it as simple as point and shoot. It demonstrates vulnerabilities in the ARP Protocol by harvesting credentials that go across the network, and even exploiting machines through race conditions.	
<a href="#">Prismatica</a>	Project Prismatica is a focused framework for Command and Control that is dedicated to extensibility. Our core objective is to provide a convenient platform with modular Transports, Backends, and Implants to enable rapid retooling opportunities and enhance Red Team ops.	
<a href="#">Diagon</a>	The Diagon Attack Framework is a Prismatica application containing the Ravenclaw, Gryffindor, and Slytherin remote access tools (RATs).	Matthew Toussain
<a href="#">Oculus</a>	Oculus is a malleable python-based C2 system allowing for instantiation of listeners for the purpose of communication with remote access tools (RATs).	
<a href="#">Tiberium</a>	A Command and Control scanning tool	
<a href="#">Gryffindor</a>	The Gryffindor RAT was released at Derbycon 2018.	
<a href="#">Mail sniper for Gmail</a>	MailSniper is a penetration testing tool for searching through email in a Microsoft Exchange and Gsuite environment for specific terms (passwords, insider intel, network architecture information, etc.). It can be used as a non-administrative user to search their own email, or by an Exchange administrator to search the mailboxes of every user in a domain.	
<a href="#">Emergence</a>	The Emergence fabric is an interface where interaction and integration of disparate information security subsystems gain combined intelligence.	
<a href="#">Acheron</a>	Acheron is a RESTful vulnerability assessment and management framework built around search and dedicated to terminal extensibility.	Matthew Toussain & Geoffrey Pamerleau
<a href="#">Cryptbreaker</a>	Cryptbreaker is web application that utilizes Amazon Web Services (AWS) to perform cloud-based cracking of LM and NTLM hashes (the primary storage mechanism for hashes in a Windows Domain environment).	Geoffrey Pamerleau
<a href="#">ads-payload</a>	Powershell script which will take any payload and put it in the a bat script which delivers the payload. The payload is delivered using environment variables, alternating-data-streams and wmic.	Chris Dale
<a href="#">powercat</a>	Netcat implementation in PowerShell 2.0 to allow maximum portability on all PowerShell enabled hosts.	
<a href="#">Pause-Process</a>	PowerShell script which allows one to pause/unpause a running application. Makes use of existing OS functionality so there is no need to install any additional components. Can be used to allow defenders to respond at a lower threshold.	Mick Douglas
<a href="#">heimdall</a>	Python tool to distribute commands across many cloud instances. Originally intended for highly distributed recon scanning (non evasive, just performant). Basically, wrapper around Terraform	Derek Rook
<a href="#">EmuRoot</a>	Android_Emuroot is a Python script that allows to grant root privileges to Google API Playstore emulator shells on the fly to help Reverse Engineers to go deeper into their investigations.	Mouad Abouhali

# Cloud / ICS / Management Tools

Click on Tool Name to visit tool's homepage

## Cloud Security

Tool Name	Description	Author
<a href="#">Puma Scan</a>	Puma Scan is an open source software security analyzer for C# applications. Puma Scan provides a Visual Studio extension for scanning source code in the development environment and displaying vulnerabilities as spell check and compiler warnings.	Eric Johnson
<a href="#">Serverless Prey</a>	Serverless Prey is a collection of serverless functions (FaaS) for GCP Functions, Azure Functions, and AWS Lambda. Once launched to the environment and invoked, these functions establish a TCP reverse shell for the purposes of introspecting the container runtimes of the various function runtimes.	Eric Johnson / Brandon Evans
<a href="#">kubesecc</a>	Kubesecc is security risk analysis for Kubernetes resources, as a web service or admission controller. It takes a Kubernetes pod-like resource as input, and returns a score based on the security configuration. If the configuration is too risky and the score too low, the deployment fails.	
<a href="#">Kubernetes Simulator</a>	Simulator is a Kubernetes Security Training Platform. It teaches Red and Blue teams to exploit and mitigate security vulnerabilities in a Kubernetes cluster with real-world infrastructure and configuration, leading to experience usually only found whilst attacking and maintaining production systems.	ControlPlane / Andy Martin
<a href="#">netassert</a>	This is a security testing framework for fast, safe iteration on firewall, routing, and NACL rules for Kubernetes (Network Policies, services) and non-containerized hosts (cloud provider instances, VMs, bare metal). It aggressively parallelizes nmap to test outbound network connections and ports from any accessible host, container, or Kubernetes pod by joining the same network namespace as the instance under test.	
<a href="#">cx-scan</a>	This project helps automate onboarding and scanning in Checkmarx (on-premise only) and enables the use of instance profiles with cross-account access to AWS CodeCommit repositories. This enables organizations to onboard projects without gathering and maintaining credentials for every repository. It also can allow developers to set up webhooks or triggers to kick off incremental or full scans if deployed appropriately.	David Hazar
<a href="#">Review Security Groups</a>	A small set of scripts to summarize AWS Security Groups, and generate visualizations of the rules.	Ben Allen

## Industrial Control Systems

Tool Name	Description	Author
<a href="#">CHAPS</a>	Configuration Hardening Assessment PowerShell Script (CHAPS) is a PowerShell script for checking system security settings where additional software and assessment tools, such as Microsoft Policy Analyzer, cannot be installed.	Don C. Weber
<a href="#">ControlThings</a>	An umbrella project that includes several sub-projects, including a Linux distribution (ControlThings Platform) for conducting security assessments on ICS/IloT environments and other tools to interact with various protocols and technologies including ctmodbus, ctserial, ctui, ctspi, cti2c, etc...	Justin Searle

## Management

Tool Name	Description	Author
<a href="#">Human Metrics Matrix</a>	Interactive matrix cataloging different types of human metrics, to include compliance, behavior, cultural and strategic	
<a href="#">Risk Definitions</a>	Breakdown, definitions and examples of the three different variables of risk	Lance Spitzner
<a href="#">Presenting to BOD</a>	Slide deck on how to prepare for and present to Board of Directors on Cybersecurity	
<a href="#">NIST CSF+</a>	Framework management tool - service catalog, 5-year plan	Brian Ventura