### SANS Free Tools

#### **Blue Team**

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

#### Blue Team / Cyber Defense

API-ify Reassembler SET-KBLED

**Domain Stats** 

#### Blue Team / DFIR

rastrea2r PAE DAD Silky CyberCPR

#### DevSecOps

Puma Scan Serverless Prey

#### Industrial Control Systems

CHAPS ControlThings

#### Management

Human Metrics Matrix Risk Definitions Presenting to BOD NIST CSF+ SANS Faculty has a comprehensive list of Open Source tools available to support your Information Security Career, Training & Research.

#### **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 MFTExplorer 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** "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

#### **Penetration Testing**

**EmuRoot** The C2 Matrix KillerBee KillerZee BitFit **PPTXIndex** PlistSubtractor **PPTXSanity** DynaPstalker **PPTXUrls** NM2LP **MFSmartHack BTFind** CoWPAtty **PCAPHistogram** EAPMD5Pass Asleap TIBTLE2Pcap Bluecrypt evtxResourceIDGaps Slingshot EAP-MD5-Crack Digestive Autocrack CrackMapExec SILENTTRINITY SprayingToolkit Red Baron WitnessMe OffensiveDLR **GCat** MITMf **DHCPShock** wiki-dictionary-creator Voltaire Subterfuge Prismatica Diagon Oculus **Tiberium** Cryptbreaker Acheron Gryffindor Mailsniper for Gmail ads-payload "powercat" Emergence heimdall

Kerberoasting

Pause-Process

## SANS Blue Team Tools

Tool Name	Description	Author
	Modern implementation of LaBreay Tarpit in Python/Scapy. LaBrea allows you to set up a	
LaBrea.py	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	David Hoelzer
SHOWIVIE THEF ackets	through analysis.	
VisualSniff	A simple commnuications visualization tool for Macos written in Objective-C. Visualizes	
	communicating hosts, volume, and directionality of data.	
<u>DeepBlueCLI</u>	A PowerShell Module for Threat Hunting via Windows Event Log.	Eric Conrad
<u>WhatsMyName</u>	OSINT/recon tool for user name enumeration. JSON file that is used in Spiderfoot and	Micah Hoffman
	Recon-ng modules.	Micah Hoffman &
untappdScraper	OSINT tool for scraping data from the untappd.com social media site.	Brandon Evans
Espial	OSINT tool for asset identification, service validation and vulnerability detection.	Serge Borso
<u>LSpiai</u>	Helps to find command and control beacons against data already ingested into Elasticsearch	Serge Borso
<u>flare</u>	(supports netflow, Zeek, and likely any standard connection log).	
	Aggregates vulnerability data and lets you report off it with ELK and allows tagging things	Austin Taylor & Justin
VulnWhisperer	such as PIC, HIPAA, critical asset, etc. Supports adding a score called residual_risk score	Henderson
	which allows you to document what you feel the risk really is.	
	Scheduled task framework for automatic baselining and logging based on differences	
Log Campaign	between baselines. Logging can be direct to a syslog server or to local EVTX. Custom EVTX	Justin Henderson
	channel is supported and log output can be plaintext or JSON.	
	Automatic framework for snapshotting VMware VMs and patching them. Supports custom	
<u>Update-VMs</u>	health checks per VM with automatic rollback of failed healthcheck and default healthcheck is	Josh Johnson
ODeder Threet	to see if the server comes back online.	
QRadar Threat Intelligence	Download a list of suspected malicious IPs and Domains. Create a QRadar Reference Set.	Nik Allovoo
DNSSpoof	Search Your Environment For Malicious Ips. Script to perform and teach how easy it is to build a DNS Spoofing tool using scapy.	Nik Alleyne
Misc Powershell &	Hundreds of PowerShell and VBScript scripts for tasks large and small related to Microsoft	
VBScript	product security.	Jason Fossen
	A Web server that integrates with SEIM systems and identifies hosts being used for	0000111000011
Freq Server	Command and control by identifying domains being used for Command and Control. The	
	tools uses character frequency analysis to identify random hostnames.	Mark Paggett
	A SEIM Integration tool that monitors DNS hostnames used by your network to identify first	Mark Baggett
<u>Domain Stats</u>	contact with new domains and contact with new domains that have been established in the	
	last 2 years, effective in identifying malicious actors.	
	Blue Team & Cyber Defense	
<u>API-ify</u>	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.  A tool that allows network defenders to reassemble and view packets using the 5 widely used	•
Reassembler	fragment reassembly policies commonly found in Intrusion Detection Systems.	Mark Baggett
	A Powershell script that will allow you to set the Keyboard LED Color to the color of your	Wark Daggott
SET-KBLED	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.	
	Blue Team & DFIR	
	Rastrea2r (pronounced "rastreador" - hunter- in Spanish) is a multi-platform open source tool	
Rastrea2r	that allows incident responders and SOC analysts to triage suspect systems and hunt for	Ismael Valenzuela
	Indicators of Compromise (IOCs) across thousands of endpoints in minutes.	
	A high performance statistical analysis tool for packet headers and data. Excellent for	
<u>PAE</u>	anomaly detection, threat hunting, and beacon (protocol) detection. Supports visualization	
	through accompanying Python script.	Dovid Haalaa
DAD	Large scale log aggregation and analysis SIEM supporting the ability to create correlation	David Hoelzer
DAD	scripts based on signatures and on correlations. Supports aggregation of syslog, Windows	
Silky	Event Logs, and any other text based log format.  Web based GUI for easy interaction with SiLK based NetFlow respositories.	
Oliky	IR Management platform for secure comms and tracking of the incident and evidence, with	
CyberCPR	immutable chat, comms, hashed and encrypted central evidence files. Allowing analysts to	Steve Armstrong
System IX	streamline protecting their evidence and plans for network or system remediation.	2.2.3 /
	parameter processing their or tracking and plane for horizont or dynam formation.	



## Digital Forensics & Incident Response Tools – 1 of 2

Tool Name	Description	Author	
	The SIFT® demonstrates that advanced incident response capabilities and deep dive digital forensic		
SIFT Workstation	techniques to intrusions can be accomplished using cutting-edge open-source tools that are freely		
	available and frequently updated.	Rob Lee	
	REMnux® is a free Linux toolkit for assisting malware analysts with reverse-engineering malicious		
REMnux	software. This lightweight distro incorporates many tools for analyzing Windows and Linux malware		
	and examining browser-based threats.	Lenny Zeltser	
	SOF-ELK® is a "big data analytics" platform focused on the typical needs of computer forensic	,	
SOF-ELK	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 suite of open source digital forensics tools that can be used in a wide variety of investigations		
EZ Tools	including cross validation of tools, providing insight into technical details not exposed by other tools,		
	and more.		
<u>AmcacheParser</u>	Amcache.hve parser with lots of extra features. Handles locked files.	]	
<u>AppCompatCacheParser</u>	AppCompatCache aka ShimCache parser. Handles locked files.	]	
<u>bstrings</u>	Find them strings yo. Built in regex patterns. Handles locked files.		
E7\/:ovor	Standalone, zero dependency viewer for .doc, .docx, .xls, .xlsx, .txt, .log, .rtf, .otd, .htm, .html, .mht,		
<u>EZViewer</u>	.csv, and .pdf. Any non-supported files are shown in a hex editor (with data interpreter!).		
Francos d	Event log (evtx) parser with standardized CSV, XML, and json output! Custom maps, locked file	1	
<u>EvtxECmd</u>	support, and more!		
Hasher	Hash all the things	]	
JLECmd	Jump List parser		
JumpList Explorer	GUI based Jump List viewer		
LECmd	Parse Ink files		
MFTECmd	\$MFT, \$Boot, \$J, \$SDS, and \$LogFile (coming soon) parser. Handles locked files		
MFTExplorer	\$MFT, \$Boot, \$J, \$SDS, and \$LogFile (coming soon) parser.		
PECmd	Prefetch parser	Eric	
RBCmd	Recycle Bin artifact (INFO2/\$I) parser	Zimmerman	
RecentFileCacheParser	RecentFileCache parser	1	
Registry Explorer	Registy viewer with searching, multi-hive support, plugins, and more. Handles locked files	]	
RECmd	Registy viewer with searching, multi-hive support, plugins, and more. Handles locked files		
SDB Explorer	Shim database GUI		
ShellBags Explorer	GUI for browsing shellbags data. Handles locked files		
SBECmd	CLI for analyzing shellbags data.		
Timeline Explorer	View CSV and Excel files, filter, group, sort, etc. with ease	1	
VSCMount	Mount all VSCs on a drive letter to a given mount point		
WxTCmd	Windows 10 Timeline database parser		
KADE	Kroll Artifact Parser/Extractor: Flexible, high speed collection of files as well as processing of files.		
<u>KAPE</u>	Many many features (SHORT: Rapid Triage Forensic Artifact Acquisition and Processing Tool)		
<u>iisGeoLocate</u>	Geolocate IP addresses found in IIS logs		
TimeAnn	A simple app that shows current time (local and UTC) and optionally, public IP address. Great for	]	
<u>TimeApp</u>	testing		
XWFIM	X-Ways Forensics installation manager		
Get-ZimmermanTools	PowerShell script to auto discover and update everything above.		
	Apple Pattern of Life Lazy Output'er (APOLLO) extracts and correlates data from numerous		
<u>APOLLO</u>	databases, then organizes it to show a detailed event log of application usage, device status, and	Sarah	
	many other pattern-of-life artifacts from Apple devices.	Edwards	
MacMRU	Mac MRU parser	1	
	The Pyramid of Pain is a conceptual model for the effective use of Cyber Threat Intelligence in threat		
The Pyramid of Pain	detection operations, with a particular emphasis on increasing the adversaries' cost of operations.	Dovid	
	The Hunting Maturity Model (HMM) is a simple model for evaluating an organization's threat hunting	David J.	
Hunting Maturity Model	capability. It provides not only a "where are we now?" metric, but also a roadmap for program	Bianco	
	improvement.		



### Digital Forensics & Incident Response Tools – 2 of 2

Tool Name	Description	Author
<u>kobackupdec</u>		
	The kobackupdec is a Python3 script to decrypt Huawei HiSuite or KoBackup (Android app) backups.	1
dpapilab	Python toolkit based on dpapick to decrypt, online and offline, DPAPI protected blobs, Windows Vaults	;
<u>арарнав</u>	included.	Francesco
<u>decwindbx</u>	Windows toolkit to decrypt Dropbox .dbx databases.	Picasso
<u>hotoloti</u>	Zena Forensics blog scripts set (regripper plugins, volatility mimikatz/rekall plugin, event log, etc.)	1 100330
110000	Python script to decrypt Samsung / Seagate Secure Zone crypto containers (without knowing the	
unssz	password).	
w10pfdecomp	Windows 10 Prefetch (native) decompression	
ios bfu triage	Bash script to extract data from a "chekcra1ned" iOS device.	Mattia Epifan
<u>sigs.py</u>	Generate md5, sha1, sha256, sha512, sha3-384 signatures from files (potentially recursively)	
mac_robber.py	mac_robber rewritten in python	
docker_mount.py	Script to read-only mount docker layered filesystems (currently supports underlying aufs and overlay2)	Jim Clausing
41	Python script to replace parse.exe in Mari's KAPE mini-timeline workflow to give me good yyyy-dd-mm	1
tln_parse.py	UTC timestamps.	
sqlparse.py	Python and EXE to recover delete entries in SQLite Databases	
onion_peeler.py	Python tool to batch query IP addresses to see if they are Tor exit nodes	1
	Python tool to parse the Mac QuickLook index.sqlite database. Contains information about thumbnails	1
<u>quicklook_parser</u>	generted on a Mac.	
chrome_parse.py	Parse Chrome history and downloads into TSV or TLN format.	1
parse mftdump.py	Parses the output of mftdump.exe to bodyfile format	Mari DeGrazia
GA-Parser.py	Python script to parse out Google Analytic Values from E01, RAM, etc.	†
GA Cookie Cruncher	Parses out Google Analytic values for IE, FireFox, Chrome and Safari.	†
safari_parser.py	Parses Safari history, downloads, bookmarks and topsites.	†
thunderbird_parser.py	Parses out email from the Thunderbird client, to inlude deleted emails.	†
	Windows GUI Forensics tool produces XLSX spreadsheet with detailed information on all processes	
SRUM-DUMP	that have run in the last 30 days on Windows computers.	
	Command line based tool that dumps and analyzes databases used on Windows systems that stores	†
ESE Analyst	various forensics information. Plugins are used to dump different types of data.	Mark Bagget
	A Windows Forensics tool that analyzes the registry, event logs and wireless network configurations to	†
<u>Werejugo</u>	identify physical locations of where the laptop has been used.	
	Spreadsheet of Doom on steroids with some nice little graphing features, task tracking, and much	
Aurora IR		Mathias Fuch
LMC	more. I'll be adding new features soon.	Matrias Fucri
LMG	Script to automate memory capture and profile creation for Linux systems	-
<u>DFIS</u>	EXT3 file recovery tools, timelining tools, and more	Hal Pomeran
<u>analyzeEXT</u>	Recover EXT filesystem info from carved directory blocks	1
<u>Linewatch</u>	Spot outliers in large data runs	
	DFIR & Blue Team	
	Rastrea2r (pronounced "rastreador" - hunter- in Spanish) is a multi-platform open source tool that	Ismael
Rastrea2r	allows incident responders and SOC analysts to triage suspect systems and hunt for Indicators of	Valenzuela
	Compromise (IOCs) across thousands of endpoints in minutes.	Valorizacia
	A high performance statistical analysis tool for packet headers and data. Excellent for anomaly	
<u>PAE</u>	detection, threat hunting, and beacon (protocol) detection. Supports visualization through	
	accompanying Python script.	
	Large scale log aggregation and analysis SIEM supporting the ability to create correlation scripts	David Hoelze
DAD	based on signatures and on correlations. Supports aggregation of syslog, Windows Event Logs, and	
	any other text based log format.	]
<u>Silky</u>	Web based GUI for easy interaction with SiLK based NetFlow repositories.	
	IR Management platform for secure comms and tracking of the incident and evidence. With	
CyberCPR	immutable chat, comms, hashed and encrypted central evidence files. The platform unburdens	Steve
	analysts from having to think about protecting their evidence and plans for network or system	Armstrong
	remediation.	,



### Penetration Testing Tools 1 of 2

Tool Name	Description	Author
	Slingshot is an Ubuntu-based Linux distribution with the MATE Desktop Environment built for	
Slingshot	use in the SANS penetration testing curriculum and beyond. Designed to be stable, reliable	Ryan O'Grady
	and lean, Slingshot is built with Vagrant and Ansible.	
The C2 Matrix	Matrix of Command and Control Frameworks for Penetration Testing, Red Teaming, and	Jorge Orchilles
THE CZ Matrix	Purple Teaming	Jorge Ordrines
Kerberoasting	Portions of Kerberos tickets may be encrypted using the password hash of the target service,	Tim Medin
renderoasting	and is thus vulnerable to offline Brute Force attacks that may expose plaintext credentials.	TillTiviCaliT
KillerBee	KillerBee is a framework, programming API, and suite of tools for testing the security of	
KIIICIDCC	ZigBee wireless networks	
KillerZee	KillerZee is a framework, programming API, and suite of tools for testing the security of Z-	
	Wave wireless networks	
<u>BitFit</u>	BitFit is a tool for guaranteeing an integrity check for distributed data files.	
<u>PPTXIndex</u>	PPTXIndex generates a Microsoft Word indexed document from PowerPoint PPTX files.	
<u>PlistSubtractor</u>	PlistSubtractor simplifies the process of assessing nested plist data	
<u>PPTXSanity</u>	PPTXSanity evaluates all of the links in a PowerPoint file to check for dead links	
DynaPstalker	DynaPstalker assists when fuzzing a Windows process by color-coding reached blocks for	
	use in IDA Pro.	
<u>PPTXUrls</u>	PPTXUrls generates a HTML report of all links in one or more PowerPoint files.	
NM2LP	NM2LP converts NetMon wireless packet capture data to libpcap format.	
MFSmartHack	MFSmartHack is a suite of tools for hacking MIFARE DESFire and ULC high frequency RFID	
<u>IVII SITIAITI IACK</u>	cards	Joshua Wright
BTFind	BTFind is a graphical and audio interface for tracking the location of Bluetooth and Bluetooth	Joshua Wright
	Low Energy devices	
<u>CoWPAtty</u>	CoWPAtty is a WPA2-PSK password cracking tool.	
PCAPHistogram	PCAPHistogram asseses the payload of libpcap packet capture data, generating a histogram	
	to characterize data entropy.	
EAPMD5Pass	EAPMD5Pass is a password cracking tool for EAP-MD5 packet captures.	
<u>Asleap</u>	Aleap is a Cisco LEAP and generic MS-CHAPv2 password cracking tool.	
TIBTLE2Pcap	TIBTLE2Pcap converts Bluetooth and Bluetooth Low Energy packet captures using the	
TIBTELZI OUP	proprietary TI SmartRF format into libpcap-compatible files.	
	Bluecrypt is a simple implementation of the Bluetooth authentication cryptographic functions	
Bluecrypt	including E0, E21 and E22. Includes some wrapper functions to make Bluetooth	
	authentication functions a little simpler.	
evtxResourceIDGaps	evtxResourceIDGaps is a script to evaluate Windows EVTX logging data to identify evidence	
	of tampered loging data.	
EAP-MD5-Crack	A python implementation of an EAP authentication cracking. PCAP in, password out.	Mark Baggett
<u>Digestive</u>	Dictionary cracking tool for HTTP Digest challenge/response hashes	Eric Conrad
	This python script is a Hashcat wrapper to help automate the cracking process. The script	
<u>Autocrack</u>	includes multiple functions to select a set of wordlists and rules, as well as the ability to run a	Timothy McKenzie
	bruteforce attack, with custom masks, before the wordlist/rule attacks.	
CrackMapExec	A swiss army knife for pentesting internal networks, allows pentesters to perform post-	
	exploitation at scale.	
SILENTTRINITY	A modern, asynchronous, multiplayer & multiserver C2/post-exploitation framework powered	
	by Python 3 and .NETs DLR.	
SprayingToolkit	Scripts to make password spraying attacks against Lync/S4B & OWA a lot quicker, less	
	painful and more efficient	Managha O. J. et
Red Baron	Automate creating resilient, disposable, secure and agile infrastructure for Red Teams	Marcello Salvati
WitnessMe	Web Inventory tool, takes screenshots of webpages using Pyppeteer (headless	
	Chrome/Chromium) and provides some extra bells & whistles to make life easier.	
<u>OffensiveDLR</u>	Toolbox containing research notes & PoC code for weaponizing .NET's DLR	
GCat	A PoC backdoor that uses Gmail as a C&C server	
MITMf	Framework for Man-In-The-Middle attacks	
DHCPShock	Spoofs a DHCP server and exploits all clients vulnerable to the 'ShellShock' bug.	
wiki-dictionary-creator	Creates a wordlist based on a Wikipedia sites articles. Allows you to select Wikipedia	Chris Dale
	language. Creates wordlists based on the article titles.	
	VoIP Hopper is a network infrastructure penetration testing tool to test the (in)security of	
VoIP Hopper	VLANS as well as mimic the behavior of IP Phones to automatically VLAN Hop and	Jason Ostrom
	demonstrate risks within IP Telephony network infrastructures.	

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# Penetration Testing Tools 2 of 2 + Additional Curricula

Tool Name	Description	Author
<u>Voltaire</u>	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.	
<u>Subterfuge</u>	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.	
<u>Prismatica</u>	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.	
<u>Diagon</u>	The Diagon Attack Framework is a Prismatica application containing the Ravenclaw, Gryffindor, and Slytherin remote access tools (RATs).	Matthew Toussain
<u>Oculus</u>	Oculus is a malleable python-based C2 system allowing for instantiation of listeners for the purpose of communication with remote access tools (RATs).	
<u>Tiberium</u>	A Command and Control scanning tool	
<u>Gryffindor</u>	The Gryffindor RAT was released at Derbycon 2018.	
Mailsniper for Gmail	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.	
<u>Emergence</u>	The Emergence fabric is an interface where interaction and integration of disparate information security subsystems gain combined intelligence.	
Acheron	Acheron is a RESTful vulnerability assessment and management framework built around search and dedicated to terminal extensibility.	Matthew Toussain and Geoffrey Pamerleau
Cryptbreaker	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
ads-payload	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
powercat	Netcat implementation in PowerShell 2.0 to allow maximum portability on all PowerShell enabled hosts.	
Pause-Process	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
<u>heimdall</u>	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
<u>EmuRoot</u>	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

#### **Other Curricula Tools**

DevSecOps			
Puma Scan	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	
Serverless Prey	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	
	Industrial Control Systems		
CHAPS	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	
ControlThings	An umbrella project that includes several sub-projects, including a Linux distribution (ControlThings Platform) for conducting security assessments on ICS/IIoT environments and other tools to interact with various protocols and technologies including ctmodbus, ctserial, ctui, ctspi, cti2c, etc	Justin Searle	
	Management		
Human Metrics Matrix	Interactive matrix cataloging different types of human metrics, to include compliance, behavior, cultural and strategic		
Risk Definitions	Breakdown, definitions and examples of the three different variables of risk	Lance Spitzner	
Presenting to BOD	Slide deck on how to prepare for and present to Board of Directors on Cybersecurity		
NIST CSF+	Framework management tool - service catalog, 5-year plan	Brian Ventura	