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# SIMPLIFY PENTEST WORKFLOWS USING CERNO

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## \$ whoami

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## Modern Nessus Review & Security Tool

### Orchestration

- By Ridgeback InfoSec
- Open Source CLI/TUI Tool
- [github.com/ridgebackinfosec/cerno](https://github.com/ridgebackinfosec/cerno)

A TUI tool for reviewing Nessus scan findings and orchestrating security tools (**nmap**, **NetExec**, custom commands). Import `.nessus` files into a SQLite database for organized, persistent vulnerability verification and exploitation.

#### Key capabilities:

- 🔎 Interactive TUI for browsing/reviewing vulnerability findings
- 📁 SQLite-backed persistence (cross-scan tracking, session resume)
- ⚡ One-command tool launches (nmap NSE scripts, NetExec, custom workflows)
- 📈 CVE extraction, Metasploit module search, host comparison
- 🔗 NetExec database integration (correlate credentials with findings)



# The Problem

## The Manual Nessus Review/Verification

### Struggle

- Thousands of findings across hundreds of hosts
- Context switching between Nessus UI and terminal tools
- No persistent tracking of reviewed findings
- Copy-paste IP addresses and ports for each tool command
- Lost progress when terminals close or sessions end

Sev ▾	Name ▾	Count ▾
CRITICAL	Cisco IOS XE Unauthenticated Remote Command Execution (CVE-2023-20198) (Direct Check)	2
CRITICAL	Samba 'AndX' Request Heap-Based Buffer Overflow	1
CRITICAL	NFS Exported Share Information Disclosure	11
CRITICAL	Plex Media Server 1.41.7.x < 1.42.1 Undisclosed Vulnerability	1
CRITICAL	Canonical Ubuntu Linux SEoL (16.04.x)	12
CRITICAL	Microsoft SQL Server Unsupported Version Detection (remote check)	12
CRITICAL	Debian Linux SEoL (7.x)	4
CRITICAL	Python Unsupported Version Detection	4
CRITICAL	Canonical Ubuntu Linux SEoL (14.04.x)	3
CRITICAL	Unsupported Web Server Detection	3

### Plugin Output

172.16.0.14 (tcp/2049/rpc-nfs\_acl)

The following shares have no access restrictions :  
/Public \*

172.16.0.60 (tcp/2049/rpc-nfs)

The following shares have no access restrictions :  
/volume1/SYNSSD \*

172.16.3.152 (tcp/2049/rpc-nfs\_acl)

The following shares have no access restrictions :  
/exports/oe \*

172.16.6.1 (tcp/2049/rpc-nfs\_acl)

The following shares have no access restrictions :  
/Public \*  
/ISO\_Images \*



# The Solution

## Cerno: Discern What

### Matters

- Import .nessus files into SQLite database (single source of truth)
- Interactive TUI with keyboard-driven navigation
- One-command tool launches against exact hosts/ports
- Persistent session tracking (resume where you left off)
- Cross-scan analysis and host tracking

```
Usage: cerno [OPTIONS] COMMAND [ARGS]...
```

```
cerno – faster review & tooling runner for vulnerability scans
```

#### Options

--version	-v	Show version and exit
--install-completion		Install completion for the current shell.
--show-completion		Show completion for the current shell, to copy it or customize the installation.
--help		Show this message and exit.

#### Commands

review	Interactive review of findings.
import	Import data from various sources into cerno
scan	Scan management - list and delete imported scans
config	Configuration management - view and modify settings
workflow	Workflow management - list and view available workflows



# Feature Overview

## Key Capabilities

- Interactive Rich-based TUI with color-coded severity levels
- Tool orchestration: nmap (NSE profiles), NetExec, Metasploit, custom commands
- CVE extraction and Metasploit module search
- Host comparison and overlapping findings analysis
- NetExec database integration (credential correlation) [Beta]
- Custom workflow mappings for plugin-specific verification

Demo\_Scan > Critical > Findings  
Welcome to Cerno Review | Press [?] for help

Unreviewed findings (41) | Filter: '\*'  
Sort: Plugin ID ↑ (next: Name A-Z) | [ ] Page \*\*1/2\*\* (41 total) | Session: 3m 19s

#	Severity	Plugin ID	Name	Hosts
1	Crit	20007	SSL Version 2 and 3 Protocol Detection	37
2	Crit	34460	Unsupported Web Server Detection	2
3	Crit	56997	VMware ESX / ESXi Unsupported Version Detection	2
4	Crit	58327	Samba 'Andx' Request Heap-Based Buffer Overflow	1
5	Crit	73756	Microsoft SQL Server Unsupported Version Detection (remote check)	11
6	Crit	93650	Dropbear SSH Server < 2016.72 Multiple Vulnerabilities	1
7	Crit	97991	Cisco IOS Cluster Management Protocol Telnet Option Handling RCE (cisco-sa-20170317-cmp)	1
8	Crit	106559	Jenkins < 2.89.2 / 2.95 Multiple Vulnerabilities	1
9	Crit	108722	Cisco IOS Software Smart Install Remote Code Execution Vulnerability	1
10	Crit	108802	Microsoft Exchange Server Unsupported Version Detection (Unprivileged)	1
11	Crit	119780	Netatalk OpenSession Remote Code Execution	2
12	Crit	128148	Flexera FlexNet Publisher < 11.16.2 Multiple Vulnerabilities	1
13	Crit	136890	Telnetd - Remote Code Execution (CVE-2020-10188)	1
14	Crit	148367	Python Unsupported Version Detection	4
15	Crit	154894	Jenkins LTS < 2.303.3 / Jenkins weekly < 2.319 Multiple Vulnerabilities	2
16	Crit	158900	Apache 2.4.x < 2.4.53 Multiple Vulnerabilities	5
17	Crit	161948	Apache 2.4.x < 2.4.54 Multiple Vulnerabilities	5
18	Crit	163258	Jenkins LTS < 2.332.4 / Jenkins weekly < 2.356 Multiple Vulnerabilities	3
19	Crit	163259	Jenkins plugins Multiple Vulnerabilities (2022-06-22)	1
20	Crit	165766	Jenkins weekly < 2.370 Multiple Vulnerabilities	1
21	Crit	170113	Apache 2.4.x < 2.4.55 Multiple Vulnerabilities	5
22	Crit	171351	Apache Tomcat SEoL (7.0.x)	1
23	Crit	171929	Jenkins plugins Multiple Vulnerabilities (2023-01-24)	1
24	Crit	172085	Jenkins plugins Multiple Vulnerabilities (2022-10-19)	1
25	Crit	172186	Apache 2.4.x < 2.4.56 Multiple Vulnerabilities	5

- 16 more findings available (press N for next page)  
[Enter] Open first match / [B] Back / [?] Help [F] Filter / [C] Clear filter / [S] Sort: Plugin ID  
[R] Reviewed / [H] Compare / [O] Overlapping [N] Next page / [P] Prev page  
[E] CVEs (41) / [M] Mark reviewed (41)  
Choose a file number, or action:



# Database-First Design

## SQLite as Single Source of

### Truth

- Location: `~/.cerno/cerno.db` (global, cross-scan)
- Fully normalized schema with foreign key constraints
- Computed statistics via SQL views (no redundant data)
- Foundation tables: `severity_levels`, `artifact_types`, `hosts`, `ports`
- Cross-scan tracking: "show all findings for host X across all scans"

Name
Tables (14)
artifact_types
artifacts
audit_log
finding_affected_hosts
findings
hosts
plugins
ports
scans
sessions
severity_levels
sqlite_sequence
tool_executions
workflow_executions
Indices (24)
idx_artifacts_execution
idx_artifacts_type
idx_audit_changed_at
idx_audit_table_record
idx_fah_finding
idx_fah_host
idx_fah_port
idx_findings_plugin
idx_findings_review_state
idx_findings_scan
idx_findings_scan_plugin
idx_hosts_fqdn
idx_hosts_ip
idx_hosts_netbios
idx_hosts_target
idx_hosts_target_type
idx_plugins_metasploit
idx_plugins_severity



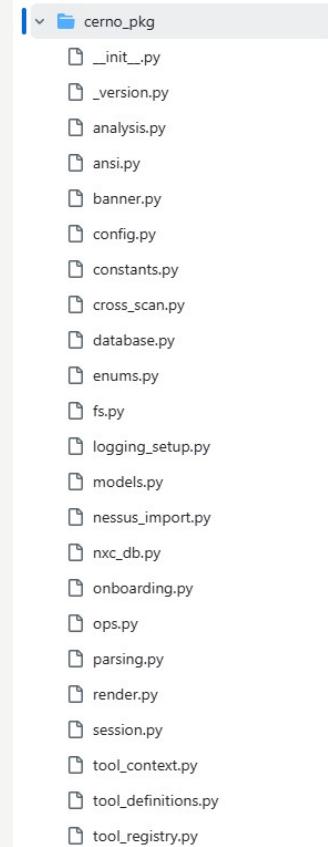
# Module Architecture

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## Clean Separation of

### Concerns

- cerno.py - CLI entry point (Typer commands)
- nessus\_import.py - XML parsing and database import
- render.py - Rich UI tables, panels, menus
- tui.py - Interactive navigation and action handlers
- tools.py - Command builders and tool orchestration
- analysis.py - Host comparison, superset detection





## Data Flow

### From Nessus to Verified

#### Finding

- Import: .nessus XML parsed, hosts/ports normalized into database
- Review: Query findings by severity, display in Rich tables
- Tool Execution: Pass host/port data to nmap/NetExec/MSF
- Track Results: Tool executions and artifacts logged in database
- Resume: Session state persists across terminal closures

Session Statistics	
Metric	Count
Session Duration	1m 44s
Findings Reviewed (not marked)	0
Findings Marked Complete	8
Findings Skipped (empty)	0
Total Findings Processed	8

```
└→ $cerno import nessus cerno_webcast.nessus
Using scan name: Demo_Scan
```

```
Importing scan to database
: Importing cerno_webcast.nessus... 0:00:02
```

```
Importing scan to database
✓ Import complete: 524 findings
```

#### Severity Breakdown:

Severity	Plugins
Critical	47
High	105
Medium	94
Low	14
Info	264



## Interactive TUI

### Keyboard-Driven Review

#### Interface

- Severity selection: 1-5 for levels, M for Metasploit, W for workflows
- Finding list: N/P pagination, F filter, S sort, H host compare
- Detail view: V view hosts, E CVEs, T tools, W workflow, M mark reviewed
- Responsive layouts adapt to terminal width
- Press ? for context-sensitive help anywhere

Scan Overview – Demo_Scan	
Findings:	524 total   Reviewed: 8 (1.5%)
Host & Port Analysis	
Metric	Value
Unique Hosts	912
└ IPv4	234
└ IPv6	0
Unique Ports	1526
Top 5 Ports	
Port	Occurrences
80	444
445	393
139	377
135	362
3389	344



# Severity Filtering

## Prioritize What

### Matters

- Color-coded: Critical (red), High (yellow), Medium (blue), Low (green), Info (cyan)
- Review progress tracking per severity level
- Special filters: [M] Metasploit modules, [W] Workflow mapped
- Sort modes: Severity, Plugin ID, Name, Host count
- Text filtering with partial matching

Demo\_Scan > Choose severity

#	Severity	Unreviewed (%)	Reviewed (%)	Total
1	Critical	47 (100%)	0 (0%)	47
2	High	105 (100%)	0 (0%)	105
3	Medium	94 (100%)	0 (0%)	94
4	Low	14 (100%)	0 (0%)	14
5	Info	264 (100%)	0 (0%)	264

Special Filters

M	Metasploit Module	8 (100%)	0 (0%)	8
W	Workflow Mapped	9 (100%)	0 (0%)	9

>> [H] Host search / [B] Back  
Tip: Use numbers (1-5), M, W, or combine (e.g., 1-3,M)  
Choose:



# Finding Review

## Get To Verifying - Level-Up Your Workflow

- Focus on specific findings
- Affected hosts, Nessus output details, CVE info, & MORE!
- Get flags for existing Metasploit modules & mapped Workflows

```
----- SNMP Agent Default Community Name (public) -----
Nessus Plugin ID: 41028
Severity: High
Unique hosts: 11 across 1 port(s) (161)
Example: 10.0.0.101:161

----- Workflow Available: SNMP Default Community Strings -----
>>
[I] Finding Info / [D] Finding Details
[V] View host(s) / [E] CVE info
[W] Workflow
[T] Run tool
[M] Mark reviewed
[B] Back
Choose action:
```

Verification Workflow: SNMP Default Community Strings  
Plugin ID(s): 41028  
Description: Default SNMP community string usage could allow for configuration read through SNMP queries and possibly a full SNMP MIB tree walk.

----- Step 1 -----
Enumerate SNMP info against the internal scope  
  
sudo nmap -sU -sV -p161 -T4 --script "snmp\* and not snmp-brute" IP\_address

----- Step 2 -----
Specifically use snmp-brute to verify this issue and to check for additional commonly used SNMP community strings  
  
sudo nmap -sU -sV -p161 -T4 --script snmp-brute IP\_address

----- Step 3 -----
Also available to use...
  
msfconsole -q -x 'use auxiliary/scanner/snmp/snmp\_login'
<https://github.com/trailofbits/onesixtyone>
<https://github.com/net-snmp/net-snmp>

References:
- <https://www.tenable.com/plugins/nessus/41028>
- <https://www.blackhillsinfosec.com/snmp-strings-attached/>
- <https://github.com/trailofbits/onesixtyone>
- <https://github.com/net-snmp/net-snmp>

[Press Enter to continue]



## Tool Orchestration – nmap

### One-Command Tool

#### Launches

- NSE Profiles: Crypto, SSH, SMB, SNMP, IPMI
- Custom scripts addable alongside profiles
- UDP support for SNMP/IPMI (automatic)
- Pre-flight summary: targets, scripts, output directory
- Results saved: `~/.cerno/artifacts/<scan>/<severity>/<plugin>/`

```
nmap Configuration

NSE Profile: Crypto
  Scripts: ssl-enum-ciphers, ssl-cert, ssl-date

Custom Scripts: None

UDP Scan: No

>>
[P] Select NSE Profile / [S] Add/Edit Custom Scripts
[U] Toggle UDP (OFF) / [Enter] Continue
[B] Back/Cancel
Choose ():
✓ Configuration saved: 3 script(s), UDP=No
```

Command Review

Tool: `nmap`

Targets: 37 host(s)

Output directory: `/home/telchar/.cerno/artifacts/Demo_Scan/Critical/20007_SSL_Version_2_and_3_Protocol_Detection`

Execution Summary

Command:

```
sudo nmap -A --script=ssl-enum-ciphers,ssl-cert,ssl-date -iL /tmp/nph_work_cq4a90td/tcp_ips.list -p 25,443,444,465,1433,4084,4085,5002,8006,8172,9933,9955,21344 -oA /home/telchar/.cerno/artifacts/Demo_Scan/Critical/20007_SSL_Version_2_and_3_Protocol_Detection/run-20260129-090901
```

>>

[1] Run now / [2] Copy to clipboard

[B] Back

Choose: [ ]



## NetExec & Custom Tools

### Beyond nmap - NetExec, Metasploit,

#### Custom

- NetExec: Protocol selection (smb, ssh, rdp, etc.), auto-populates targets
- Metasploit: Module search by CVE/description, launch msfconsole
- Custom: Placeholder substitution for flexible templating
- Placeholders: {TCP\_IPS}, {UDP\_IPS}, {TCP\_HOST\_PORTS}, {PORTS}
- All executions logged with exit code, duration, sudo usage

```
Metasploit Module Information
Found 1 Metasploit module(s):
1. MS09-050 Microsoft SRV2.SYS SMB Negotiate ProcessID Function Table Dereference

>> Available commands:
1. msfconsole -q -x 'search MS09-050 Microsoft SRV2.SYS SMB Negotiate ProcessID Function Table Dereference; exit'
2. msfconsole -q -x 'search CVE-2009-2532; exit'
3. msfconsole -q -x 'search CVE-2009-3103; exit'
```

```
Run which command? (number or [N] None) (n): 1
```

```
NetExec: choose protocol
[1] mssql
[2] smb
[3] ftp
[4] ldap
[5] nfs
[6] rdp
[7] ssh
[8] vnc
[9] winrm
[10] wmi
>> [8] Back
(Press Enter for 'smb')
Choose protocol (smb):
```

```
Command Review
```

```
Tool: netexec
Targets: 37 host(s)
Output directory:
/home/telchar/.cerno/artifacts/Demo_Scan/Critical/20007_SSL_Version_2_and_3_Protocol_Detection
```

```
Command:
nxc smb /tmp/nph_work_cq4a90td/tcp_ips.list --gen-relay-list /home/telchar/.cerno/artifacts/Demo_Scan/Critical/20007_SSL_Version_2_and_3_Protocol_Detection/run-20260129-091303.SMB_Signing_not_required_targets.txt --shares --log /home/telchar/.cerno/artifacts/Demo_Scan/Critical/20007_SSL_Version_2_and_3_Protocol_Detection/run-20260129-091303.nxc.smb.log
```

```
>>
[1] Run now / [2] Copy to clipboard
[B] Back
Choose:
```



## NetExec DB [Beta]

### Beyond nmap - NetExec, Metasploit,

#### Custom

- Credential correlation - Shows which NetExec-discovered credentials have access to affected hosts
- Share access - Displays SMB share read/write permissions across hosts
- Security flags - Highlights SMB signing disabled, Zerologon, PetitPotam vulnerabilities
- Per-host breakdown - Press [N] in findings view for detailed per-host NetExec context

SMB Signing not required

Nessus Plugin ID: 57608  
Severity: Medium  
Unique hosts: 2 across 1 port(s) (445)  
Example: 192.168.56.22:445

Workflow Available: SMB Signing Not Required

NetExec Context

Protocols: SMB | 2/2 hosts have NXC data

Credentials (2 unique):  
[SMB] north.sevenkingdoms.local\robb.stark (plaintext) on 1 host  
[SMB] essos.local\robb.stark (plaintext) on 1 host

Flags: SMB signing disabled (2), SMBv1 (1)

Press [N] for per-host breakdown



# Host Comparison

## Find Patterns Across

### Findings

- [H] Compare Hosts: Groups findings with identical host:port combinations
- [O] Overlapping: Identifies superset relationships
- Group filtering: Focus on related findings
- Use case: "5 findings affect same 3 hosts" - review together
- Reduces duplicate work across plugins

Filtered Files: Overlapping Findings Analysis  
Files analyzed: 24

#### Overlapping Findings Groups

#	Root Finding	Covers	Covered findings (sample)
1	Plugin 241984: Apache 2.4.x < 2.4.64 Multiple Vulnerabilities	14	Plugin 158900: Apache 2.4.x < 2.4.53 Multiple Vulnerabilities Plugin 161948: Apache 2.4.x < 2.4.54 Multiple Vulnerabilities Plugin 170113: Apache 2.4.x < 2.4.55 Multiple Vulnerabilities Plugin 172186: Apache 2.4.x < 2.4.56 Multiple Vulnerabilities Plugin 183391: Apache 2.4.x < 2.4.58 Multiple Vulnerabilities Plugin 192923: Apache 2.4.x < 2.4.59 Multiple Vulnerabilities Plugin 193419: Apache 2.4.x < 2.4.58 Out-of-Bounds Read (CVE-2023-31122) Plugin 193420: Apache 2.4.x < 2.4.54 Out-Of-Bounds Read (CVE-2022-28330) ... (+6 more)

Filtered Files: Host/Port Comparison

Files compared: 24

Found 6 groups with identical host:port combinations

What this means: Findings in the same group affect the exact same systems. You might want to review them together or choose one as representative.

#### Identical Host:Port Groups

#	Count	Findings (sample)
1	14	Plugin 158900: Apache 2.4.x < 2.4.53 Multiple Vulnerabilities Plugin 161948: Apache 2.4.x < 2.4.54 Multiple Vulnerabilities Plugin 170113: Apache 2.4.x < 2.4.55 Multiple Vulnerabilities Plugin 172186: Apache 2.4.x < 2.4.56 Multiple Vulnerabilities Plugin 183391: Apache 2.4.x < 2.4.58 Multiple Vulnerabilities Plugin 192923: Apache 2.4.x < 2.4.59 Multiple Vulnerabilities Plugin 193419: Apache 2.4.x < 2.4.58 Out-of-Bounds Read (CVE-2023-31122) Plugin 193420: Apache 2.4.x < 2.4.54 Out-Of-Bounds Read (CVE-2022-28330)
2	4	Showing 8 of 14 findings - Press [D] to view all
3	3	Plugin 180192: Apache Tomcat 8.5.0 < 8.5.93 Plugin 182811: Apache Tomcat 8.5.0 < 8.5.94 multiple vulnerabilities Plugin 186364: Apache Tomcat 8.5.0 < 8.5.96 Plugin 192043: Apache Tomcat 8.5.0 < 8.5.99 multiple vulnerabilities
4	1	Plugin 147163: Apache Tomcat 7.0.0 < 7.0.108 multiple vulnerabilities Plugin 148405: Apache Tomcat 7.0.0 < 7.0.107 Plugin 171351: Apache Tomcat SEoL (7.0.x)
5	1	Plugin 12085: Apache Tomcat Default Files
6	1	Plugin 88098: Apache Server ETag Header Information Disclosure
		Plugin 241984: Apache 2.4.x < 2.4.64 Multiple Vulnerabilities

Press [D] for full group details, or [Enter] to continue ():



# Session Persistence

## Never Lose Your

### Progress

- Sessions auto-save to database (start time, scan context)
- Resume prompt on startup shows session details
- Review states: Unreviewed or Reviewed
- Undo capability: [U] restores completed to pending
- Session statistics: duration, per-severity breakdown

```
Available Scans
#  Scan Name  Last Reviewed
1  Demo_Scan  1 min ago

>> [Q] Quit
Choose scan:
```

### Demo\_Scan > Choose severity

#	Severity	Unreviewed (%)	Reviewed (%)	Total
1	Critical	40 (85%)	7 (15%)	47
2	High	95 (90%)	10 (10%)	105
3	Medium	87 (93%)	7 (7%)	94
4	Low	14 (100%)	0 (0%)	14
5	Info	264 (100%)	0 (0%)	264

### Special Filters

M	Metasploit Module	8 (100%)	0 (0%)	8
W	Workflow Mapped	9 (100%)	0 (0%)	9

>> [H] Host search / [B] Back

Tip: Use numbers (1-5), M, W, or combine (e.g., 1-3,M)

Choose:



# Configuration

## Customize Your

### Workflow

- Config file: `~/.cerno/config.yaml` (auto-created)
- Commands: `cerno config show/set/reset`
- Custom workflows: YAML mapping plugin IDs to verification steps
- NetExec: Configure workspace path

↳ `$cerno config show`

Current Configuration  
Config file: `/home/telchar/.cerno/config.yaml`

*Configuration Values*

Setting	Value	Description	Status
<code>custom_workflows_path</code>	<code>(not set)</code>	Path to custom workflows YAML	Default
<code>debug_logging</code>	<code>False</code>	Enable DEBUG logs	Default
<code>default_netexec_protocol</code>	<code>smb</code>	Default: smb/ssh/ftp/etc	Default
<code>default_page_size</code>	<code>auto</code>	Items per page in lists	Default
<code>default_tool</code>	<code>(not set)</code>	Pre-select: nmap/netexec/custom	Default
<code>log_path</code>	<code>/home/telchar/.cerno/cerno.log</code>	Log file location	Default
<code>nmap_default_profile</code>	<code>(not set)</code>	NSE profile name	Default
<code>no_color</code>	<code>False</code>	Disable ANSI colors	Default
<code>nxc_enrichment_enabled</code>	<code>True</code>	Show NetExec context in findings	Default
<code>nxc_workspace_path</code>	<code>~/.nxc/workspaces/default/</code>	NetExec workspace directory	Default
<code>results_root</code>	<code>/home/telchar/.cerno/artifacts</code>	Directory for tool output	Default
<code>term_override</code>	<code>(not set)</code>	Force terminal type	Default
<code>top_ports_count</code>	<code>5</code>	Top ports to show	Default

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# DEMO



## Getting Started

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```
# Install with pipx (recommended)
pipx install git+https://github.com/ridgebackinfosec/cerno.git

# Import a Nessus scan
cerno import nessus scan.nessus

# Review findings interactively
cerno review
```

```
Usage: cerno [OPTIONS] COMMAND [ARGS]...
```

```
cerno – faster review & tooling runner for vulnerability scans
```

```
– Options –
```

--version	-v	Show version and exit
--install-completion		Install completion for the current shell.
--show-completion		Show completion for the current shell, to copy it or customize the installation.
--help		Show this message and exit.

```
– Commands –
```

review	Interactive review of findings.
import	Import data from various sources into cerno
scan	Scan management - list and delete imported scans
config	Configuration management - view and modify settings
workflow	Workflow management - list and view available workflows



## Questions?

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- GitHub: [github.com/ridgebackinfosec/cerno](https://github.com/ridgebackinfosec/cerno)
- Issues: [github.com/ridgebackinfosec/cerno/issues](https://github.com/ridgebackinfosec/cerno/issues)
- Docs: docs/ folder in repository





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# THANK YOU

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## FOR ATTENDING

**Chris Traynor**

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[antisyphontraining.com](http://antisyphontraining.com)

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