



Whoami

Instructor Information



Sumedt Jitpukdebodin

Cybersecurity Specialist, Secure-D Center Company

Content Creator, SEC Playground Company

Professional Certifications

GIAC Penetration Tester (GPEN)
Offensive Security Certified Professional (OSCP)
Certified Penetration Testing Engineer(CPTE)
eLearnSecurity Certified Professional Penetration Tester (eCPPT)
eLearnSecurity Web Application Penetration Tester (eWPT)
CompTIA CySA+
And more....

Education

Bachelor of Computer Engineering, Kasetsart University

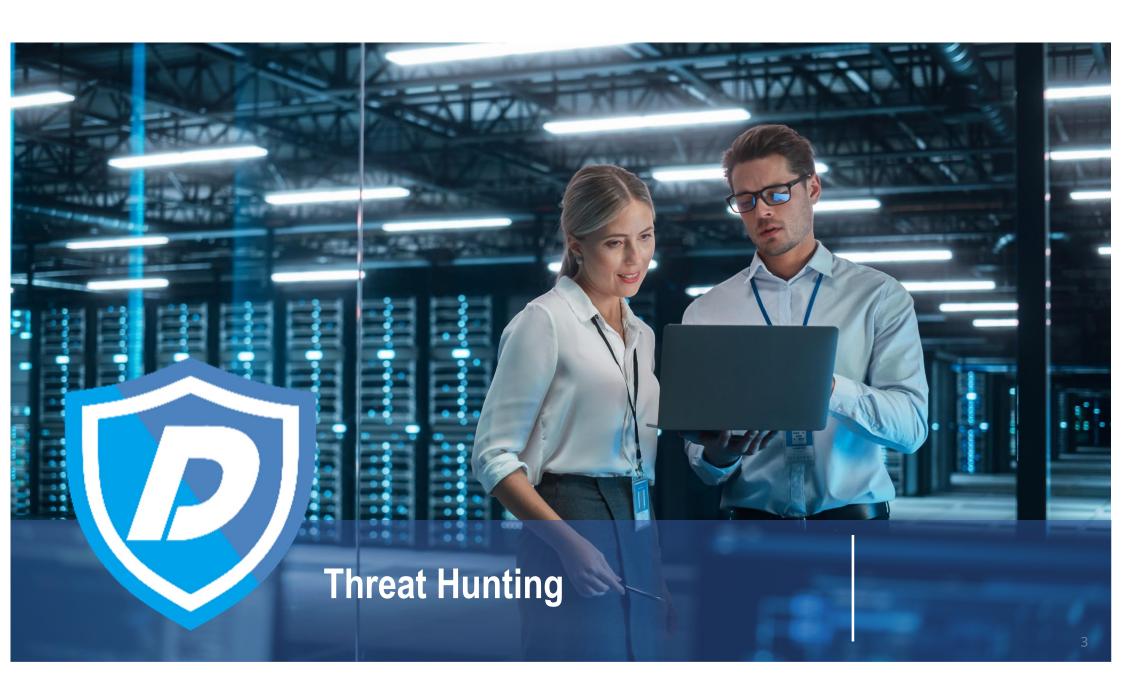
Master of Information System Security, Mahanakorn University

Experience

- 11 years experience in
- Cyber Security Incident response
- Penetration Testing and Vulnerability Assessment

Community

OWASP Thailand Chapter Committee, Admin Group of 2600 Thailand





What is Hunting



Hunting is the process of looking for interesting events that are not defined as malicious by existing automated tools

It uses the knowledge, tools, data, and experience that exists within an organization to determine if events are associated with an attacker or innocuous

Mature Security Programs have functional

- Threat Intelligence
- Signature Tuning / Sensor Management
- Alert Monitoring
- Incident Response



Input of Threat Hunting



Threat Intelligence



Network



Endpoint



Access/Identity

- Third-party threat intel
- Open-source blacklist
- Internal threat intelligence
- Firewall, IDS, IPS
 - PS
- NetFlow

Email

DNS

Network

Web proxy

- Endpoint (AV/IPS/FW)
- Malware detection
- PCLM

CMDB

- DHCP
- OS logs
- Patching

What process is running (malicious, abnormal, etc.) Process owner, registry mods, attack/malware artifacts, patching level, attack susceptibility

Attacker, know relay/C2 sites, infected sites, IOC,

Where they went to, who talked to whom, attack

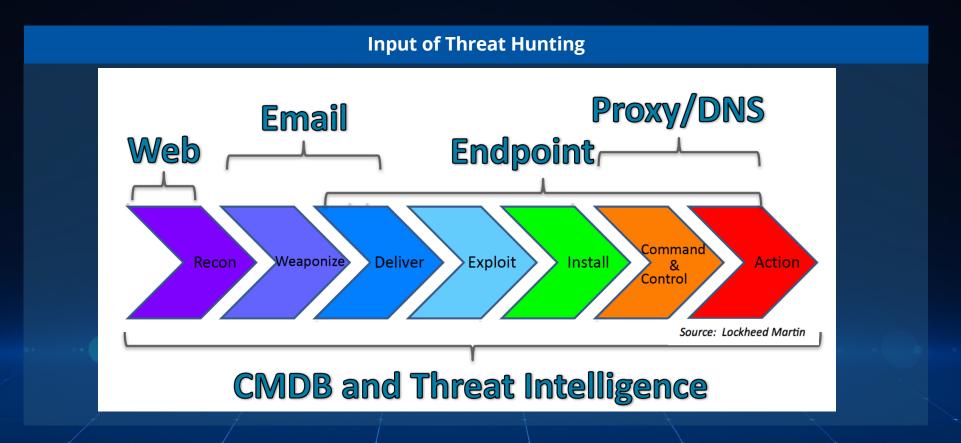
transmitted, abnormal traffic, malware download

attack/campaign intent and attribution

- Active Directory Operating system
- LDAP Database
 - VPN, AAA, SSO

Access level, privileged users, likelihood of infection, where they might be in kill chain







Hunting Skillsets /Abilities



Operating System

 Knowledge of Operating System internals, OS security mechanisms, knowledge of typical security issues of different operating systems

Network Architecture

 Understanding how computer networks work, OSI Layer, knowledge of TCP/IP, knowledge of basic protocols (DNS, DHCP, HTTP, SMTP, FTP, SMB);

Attack Methods/TTPs / Cyber Kill Chain

 Knowledge of specific attack vectors, understanding how an attacker attempts to penetrate your network, which attack vectors and tools he/she can use on different attack stages;

Analytical Mindset

 Having a mindset of curiosity, Ability to generate and investigate hypotheses. As an analyst, it's increasingly important to be specific in what questions you're looking to answer during threat hunting.



Hunting Skillsets /Abilities#2



Log Analysis

 Knowledge of different log sources and event types generated by different sources, the ability to analyze logs for anomalies and pivot between data sources to see the big picture;

Network Analysis

• The ability to read and understand packet capture data and determine the malicious nature of network traffic:

Cyber Threat Intelligence

 Having a skill and knowledge to leverage threat intelligence for threat hunting purposes, always seek for new information from threat intelligence report

Malware Analysis

 Malware analysis a highly specialized skill that aims to determine the origin and purpose of an identified instance of malware.



Threat Hunting Methodology



Create Hypotheses

 Threat Hunting begins with questions, such as "How would a threat actor infiltrate our infrastructure?"

Investigation via Tools and Techniques

 Need to be tested using all the relevant tools and techniques. The importance of Data sources and detection engineering capability from the organization, determine the result of this process.

Uncover new patterns and TTPs

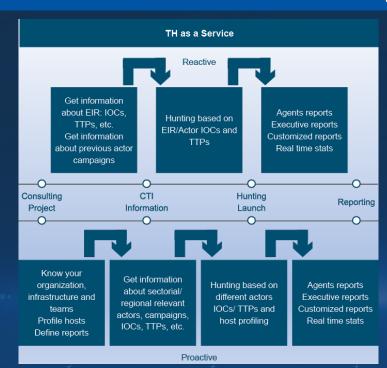
 Even if the hypotheses result is not proven, It does not necessarily mean that no malicious activity is present or the hunters create a wrong hypotheses. It can be the current visibility in the organization is not enough or the tools that used by threat hunters is not good enough to help them to investigate the case.

Inform and Enrich Analytics

 Successful hunting process and then should be automated to make the efficient process for the threat hunters to reduce Threat Hunting team's time and to limit them from continuously repeating the same process



Types of Hunting

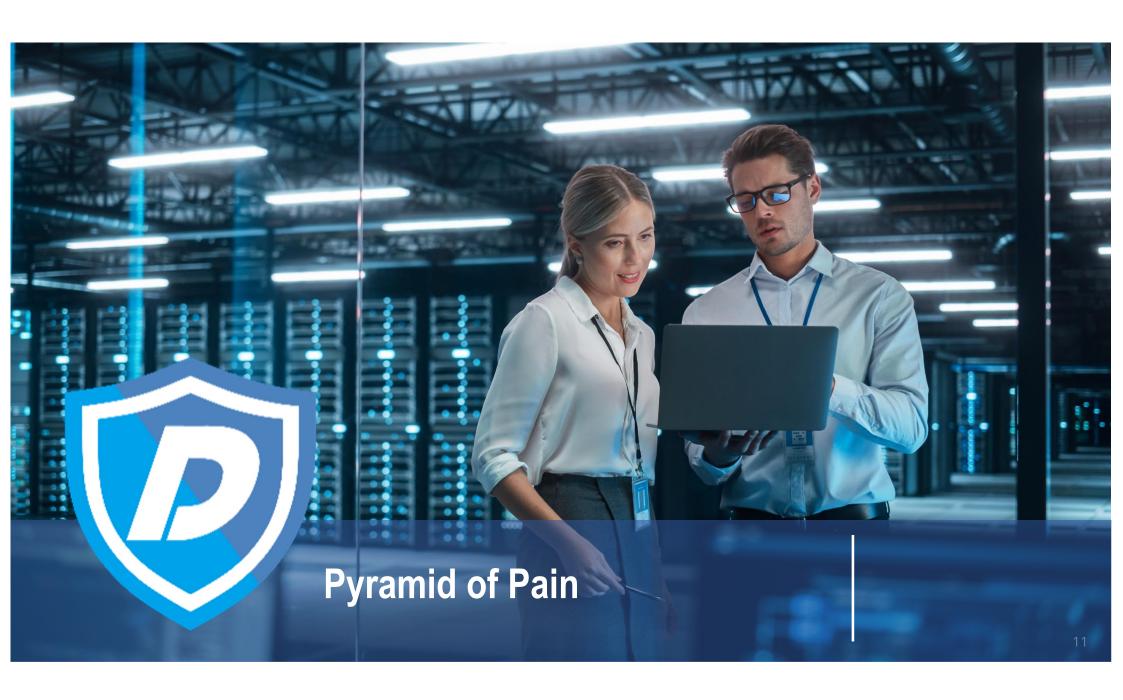


Reactive Hunting

- Hunting activity generated while investigating an event
- Example:
 - Discover a malicious totallylegit.exe while investigating an alert for totallynotavirus.exe. Create a Hunt for totallylegit.exe.

Proactive Hunting

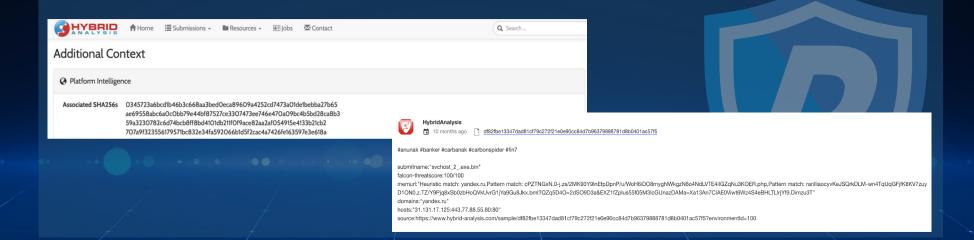
- Hunting activity based on Hunting Goal
- Example:
 - Search the network for large files traversing the ingress/egress points of the network





Hash Value

- **Description**: These are unique identifiers for files, often generated using algorithms like MD5, SHA-1, or SHA-256.
- Ease for Adversaries: Easy to change by modifying the file slightly.
- Pain for Adversaries: Low. Adversaries can easily generate new hash values by altering files.
- Use Case: Good for identifying known malware samples but not effective for advanced threats.





Hash Value

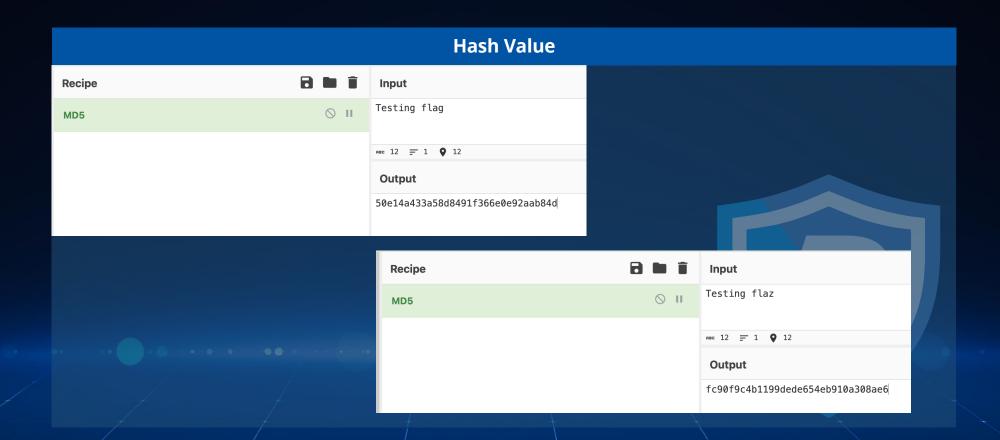
Property of Hashing:

- **Deterministic:** The same input will always produce the same hash value.
- Fast Computation: Efficient to compute the hash value for any given data.
- Irreversible: It should be infeasible to generate the original input from the hash value.
- Collision-Resistant: It should be difficult to find two different inputs that produce the same hash value.

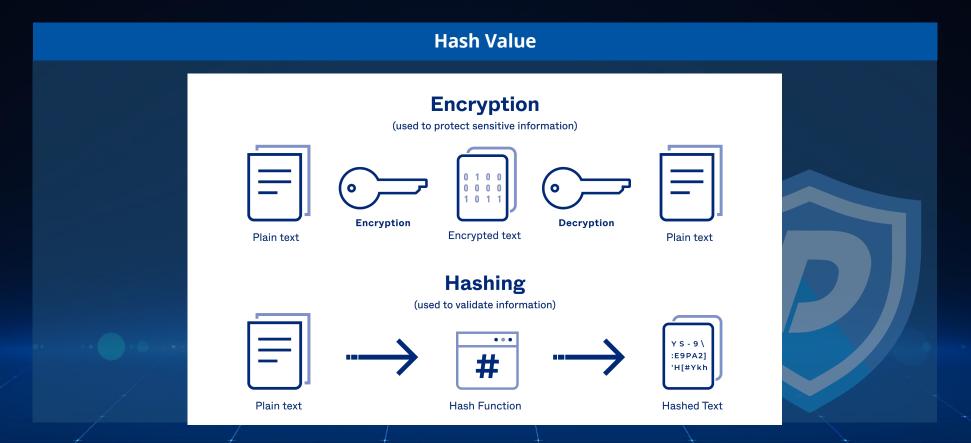
Common Hashing

- MD5: Widely used but considered broken and unsuitable for further use.
- SHA-1: Previously used for SSL certificates but now considered weak.
- SHA-256: Part of the SHA-2 family, widely used and considered secure.









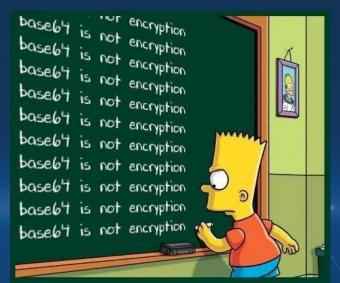


Encoding vs Encryption

• **Encoding:** A method of converting data into a specific format for efficient transmission or storage. It can be easily reversed using the correct algorithm.

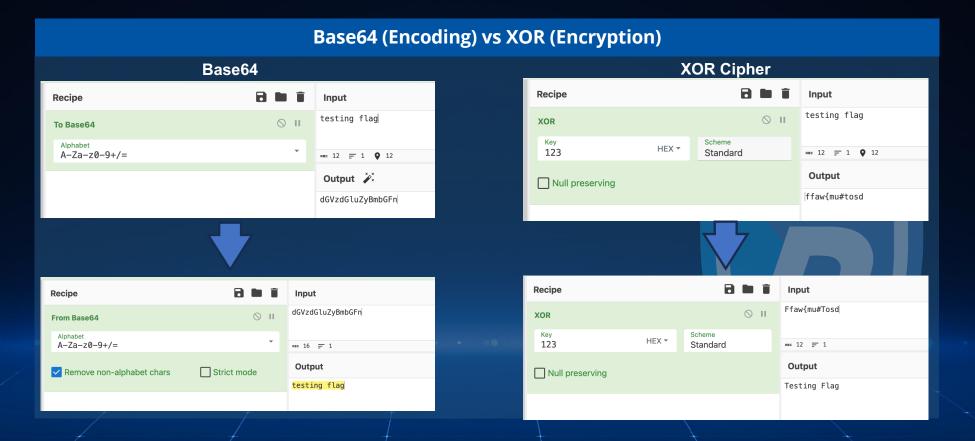
• Encryption: A process of converting information into a secret code to prevent unauthorized access. It requires a specific key to

decrypt.











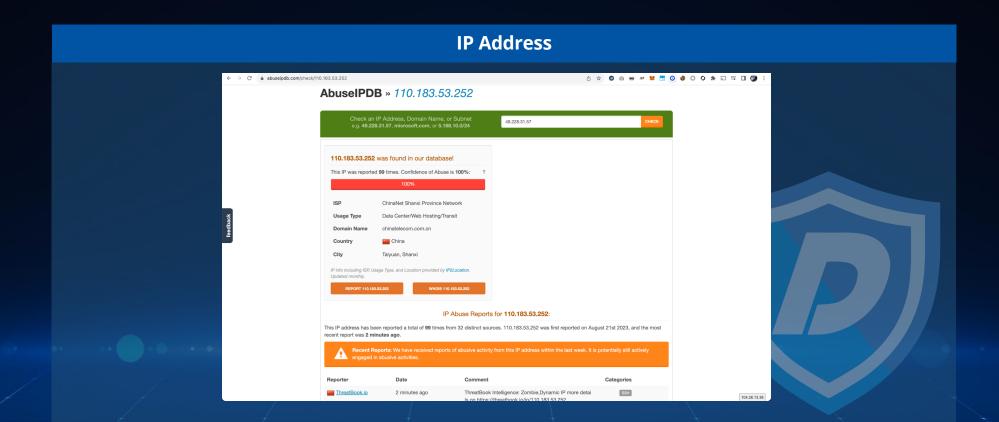
IP Address

IP address classes (pre 1993 mindset)

Class A	1.0.0.1 to 126.255.255.254	127 networks
Class B	128.1.0.1 to 191.255.255.254	64K hosts 16K networks
Class C	192.0.1.1 to 223.255.254.254	254 hosts 2M networks
Class D	224.0.0.0 to 239.255.255.255	Multicast
Class E	240.0.0.0 to 254.255.255.254	R&D == wasted

- **Description**: Numerical labels assigned to devices connected to a network.
- **Ease for Adversaries**: Relatively easy to change by switching networks or using proxies.
- **Pain for Adversaries**: Low to moderate. Changing IPs requires some effort but is doable.
- **Use Case**: Useful for detecting known malicious sources but can lead to false positives.

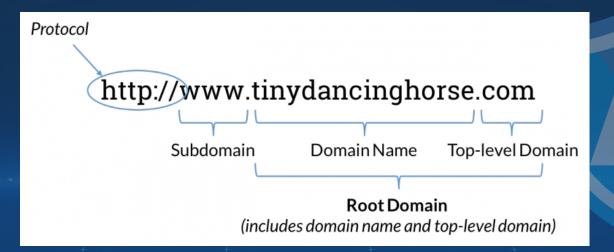




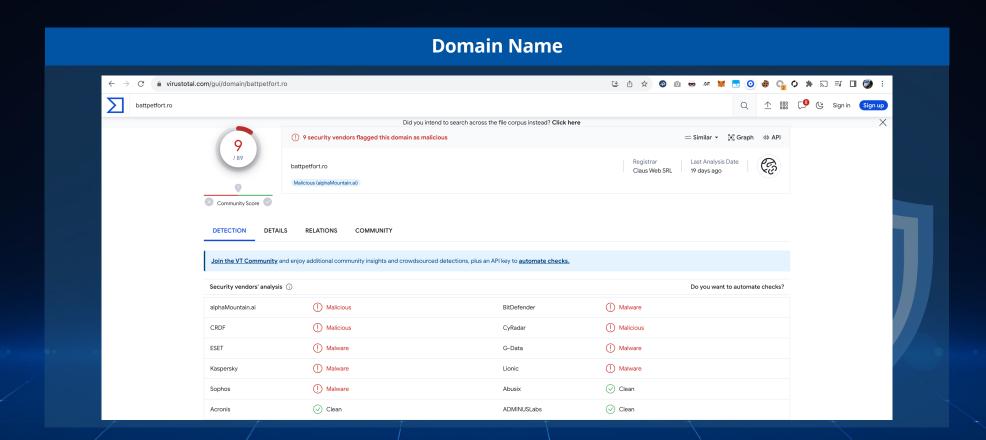


Domain Name

- **Description**: Human-readable names for IP addresses, like example.com.
- Ease for Adversaries: Moderate to change, involves registering new domains.
- Pain for Adversaries: Moderate. Requires time and possibly money to set up new domains.
- Use Case: Good for tracking command and control servers.









Network/Host Artefacts

- **Description:** These include registry settings, filenames, and system modifications.
- Ease for Adversaries: Moderate to difficult to change without affecting functionality.
- Pain for Adversaries: Moderate to high. Requires re-engineering the malware or attack method.
- Use Case: Useful for identifying specific attack campaigns or types of malware.

Network Artifacts	Host Artifacts
Rare User-Agent strings	Specific Registry key
Traffic on non-traditional ports	Process connected on port
(i.e. 6667)	80 that is not a browser



Network/Host Artefacts

```
GET /hoge/index.php?fnyup=940785246f0c22b41joikeddfngjokyptui HTTP/1.1
Accept: */*
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko
Host: [host name]
Pragma: no-cache
Connection: close
```

```
09/08/17 07:29:37 AM [ ProxyTCPListener] Likely listener: HTTP
09/08/17 07:29:37 AM [ Diverter] Modifying outbound external TCP response packet:
09/08/17 07:29:37 AM [ Diverter] from: 192.168.105.219:38926 -> 192.168.105.219:49410
09/08/17 07:29:37 AM [ Diverter] to: 61.178.77.169:81 -> 192.168.105.219:49410
09/08/17 07:29:37 AM [ Diverter] pid: 3000 name: service.exe
```



Network/Host Artefacts

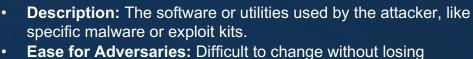
- Run, RunOnce
 - SOFTWARE\Microsoft\Windows\CurrentVersion\Run
 - SOFTWARE\Microsoft\Windows\CurrentVersion\RunOnce
 - HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
 - HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\RunOnce
- Services and Drivers
 - SYSTEM\CurrentControlSet\Services
 - Services Type shall be "0x10", "0x20", "0x100";
 - Start shall be "2", "3" or "4" only
 - Services without "ObjectName" that is set to: LocalSystem, NT AUTHORITY\LocalService, or NT AUTHORITY\NetworkService
 - Services starting under the Svchost process must have an entry in SOFTWARE\Microsoft\Windows NT\CurrentVersion\svchost
- Scheduled Tasks
 - SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Shared Task Scheduler
 - SOFTWARE\Classes\CLSID\{GUID}
- Browser Helper Objects
 - SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Browser Helper Objects



Tools







- Ease for Adversaries: Difficult to change without losing functionality.
- Pain for Adversaries: High. Requires developing or acquiring new tools.
- **Use Case:** Excellent for attributing attacks to specific groups or campaigns.

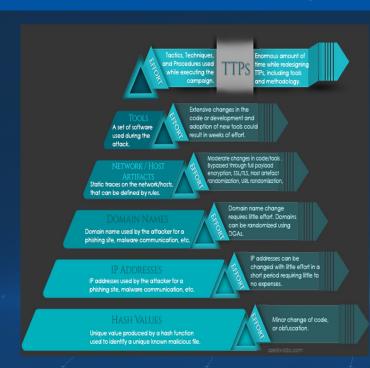






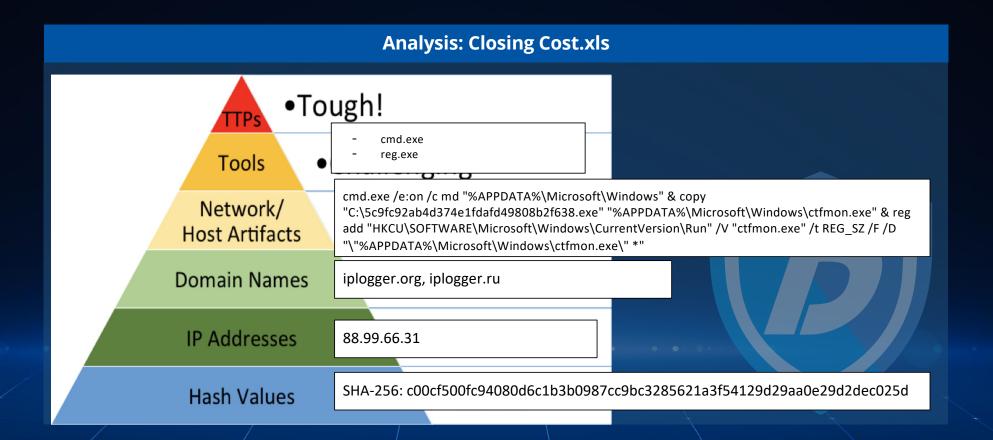


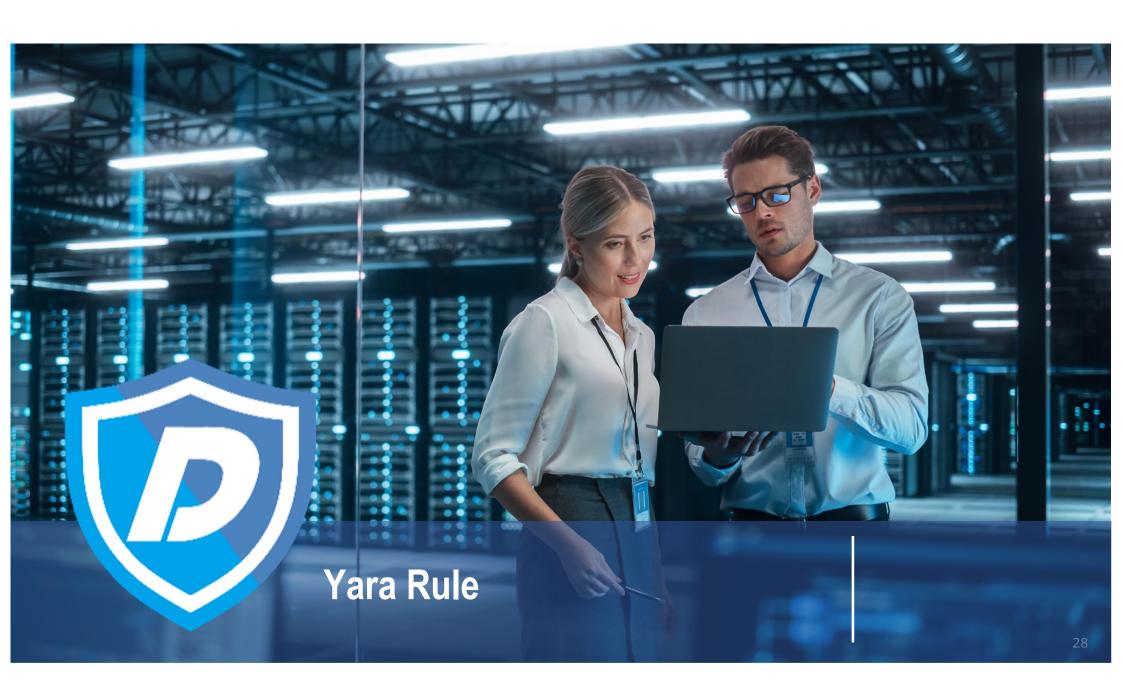
Tools, Techniques, and Procedures. (TTP)



- **Description**: The "how" of the attack, including the strategies and methods used by the attacker.
- **Ease for Adversaries**: Very difficult to change without compromising effectiveness.
- Pain for Adversaries: Very high. Requires a fundamental change in approach.
- **Use Case**: Best for long-term defense and attribution but requires deep analysis and expertise.









What is Yara Rule

YARA rules serve as signatures for identifying files that match specific conditions, such as MD5, strings, Hex Strings, or file size. These rules can be implemented across various enterprise-level tools, including FireEye, CarbonBlack, Checkpoint, and even in antivirus software like ClamAV.

YARA rules are platform-independent and can be used across different operating systems like Windows, Linux, and MacOS without relying on any engine other than YARA binary. The text also emphasizes the current relevance of YARA rules, especially in the context of encrypted internet traffic, which makes network-level file transfer analysis challenging. This situation leads to a greater reliance on endpoint protection, such as antivirus or APT solutions.

YARA rules can be a vital part of this protection, allowing Security Operation Center (SoC) engineers to analyze malicious files by examining their characteristics and writing YARA rules for prevention. This proactive approach enables organizations to defend against threats even before vendors create specific signatures for those files.

Example
yara MyRule.yar /path/to/scan



How to write Yara Rule

Step-by-step guide to writing a YARA rule:

1. Define the Rule Name

Start by defining a name for the rule. This name should be descriptive and related to what the rule is intended to detect.

Example

rule MyExampleRule

2. Add Meta Information

You can include meta-information to describe the rule, such as the author, date, or a description of what the rule detects.

```
meta:
```

```
author = "Your Name"
description = "Detects Example Malware"
date = "2023-08-22"
```



How to write Yara Rule

3. Define Strings to Match

In this section, you define the strings or patterns that you want to search for within the files. You can use plain text strings, hexadecimal bytes, or regular expressions.

strings:

```
$string1 = "malicious code" nocase
$hex_string = { E2 34 A1 FB }
$regex = /malware[0-9]+/ nocase
```

- nocase: Makes the string match case-insensitive.
- Hexadecimal patterns are useful for matching binary data.
- Regular expressions provide flexibility in matching complex patterns.





How to write Yara Rule

4. Define the Condition

The condition is the logical expression that determines if the rule is a match. You can use logical operators like and, or, and not, and refer to the strings defined earlier.

```
condition:
    $string1 or $hex_string or $regex
```

5. Save the Rule

Save the rule with a .yar or .yara extension, such as MyExampleRule.yar.

6. Test the Rule

You can test the rule using the YARA command-line tool by running:

yara MyExampleRule.yar /path/to/files



How to write Yara Rule

```
rule MyExampleRule
{
    meta:
        author = "Your Name"
        description = "Detects Example Malware"
        date = "2023-08-22"
    strings:
        $string1 = "malicious code" nocase
        $hex_string = { E2 34 A1 FB }
        $regex = /malware[0-9]+/ nocase
    condition:
        $string1 or $hex_string or $regex
}
```





Advanced Yara Rule

Advanced YARA rules allow for more complex and nuanced pattern matching, providing greater flexibility and precision in detecting threats. Here's a detailed look at some advanced features of YARA rules, along with examples:

1) Using Wildcards and Jumps

Wildcards (?) and jumps ([]) allow for more flexible matching of byte sequences.

- Wildcards: Match any single byte.
- **Jumps**: Match a range of bytes.

strings:

```
$pattern1 = { 4D 5A ?? ?? 50 45 } // Wildcard, matches any two bytes between 4D 5A and 50 45
$pattern2 = { 4D 5A [2-4] 50 45 } // Jump, matches 2 to 4 bytes between 4D 5A and 50 45
```



Advanced Yara Rule

2. Using External Variables

External variables allow you to define conditions outside of the YARA rule itself, such as file size or file type.

```
rule Detect_PDF
{
  condition:
    filesize < 1MB and
    filetype == "pdf"
}</pre>
```





Advanced Yara Rule

3. Using Functions and Modules

YARA supports various functions and modules that provide additional capabilities.

- Math Functions: Such as uint8(), uint16(), etc., to read integer values.
- PE Module: To analyze Portable Executable (PE) files.

```
import "pe"

rule Detect_Signed_PE
{
  condition:
    pe.number_of_signatures > 0
}
```





Advanced Yara Rule

4. Combining RulesYou can create rules that depend on other rules, allowing for more complex logic.

```
rule Is_Executable
{
   condition:
     uint16(0) == 0x5A4D
}

rule Detect_Malware
{
   condition:
     Is_Executable and
     $malicious_string
}
```





Advanced Yara Rule

4. Combining RulesYou can create rules that depend on other rules, allowing for more complex logic.

```
rule Is_Executable
{
   condition:
      uint16(0) == 0x5A4D
}

rule Detect_Malware
{
   condition:
      Is_Executable and
      $malicious_string
}
```





Advanced Yara Rule

5. Using Iterators

Iterators allow you to loop through multiple occurrences of a pattern, providing powerful matching capabilities.

strings:

\$repeated_string = "malware" nocase

condition:

At least three occurrences of the string

3 of them



Advanced Yara Rule

```
import "pe"

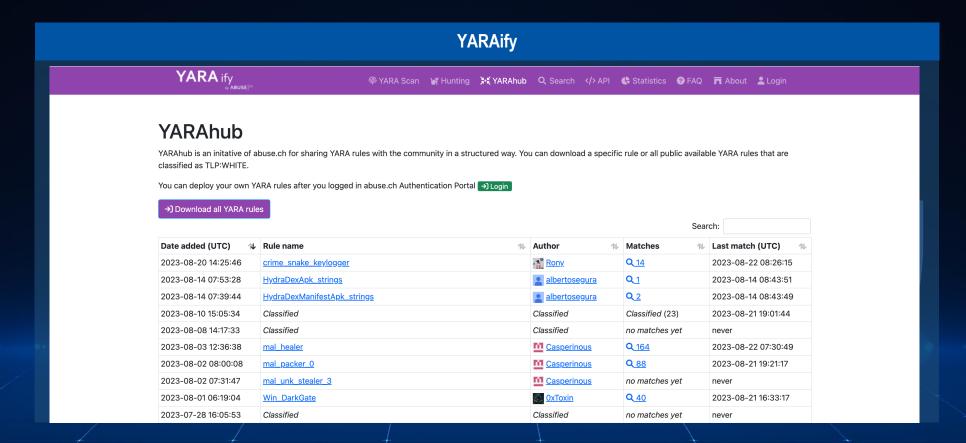
rule Detect_Advanced_Malware
{
   meta:
     description = "Detects a specific advanced malware"

strings:
     $signature = { 4D 5A [2-4] 50 45 }

condition:
    pe.is_dll() and
     filesize < 1MB and
     $signature and
     2 of them
}</pre>
```









Demo https://play.secplayground.com/lab/568 © Copyright 2022. Secure D Center. All rights reserved.





What is Sigma Rule



Sigma is a generic and open signature format that allows you to describe relevant log events in a straightforward manner. The rule format is very flexible, easy to write, and applicable to any type of log file. The main purpose of Sigma is to provide a structured format in which researchers or analysts can describe their methods of detecting particular cybersecurity events. Sigma rules are typically used in Security Information and Event Management (SIEM) systems to define how to identify specific activities that are of interest for security monitoring.



Sigma Rule Structure

- title: A brief description of the rule.
- id: A unique identifier for the rule.
- **description:** A detailed explanation of what the rule does.
- logsource: Specifies the source of the log data.
- detection: Defines the conditions for the rule.
- **condition:** Specifies the logic to apply the conditions.
- falsepositives: Describes the potential false positives.
- **level:** Sets the severity level of the rule.

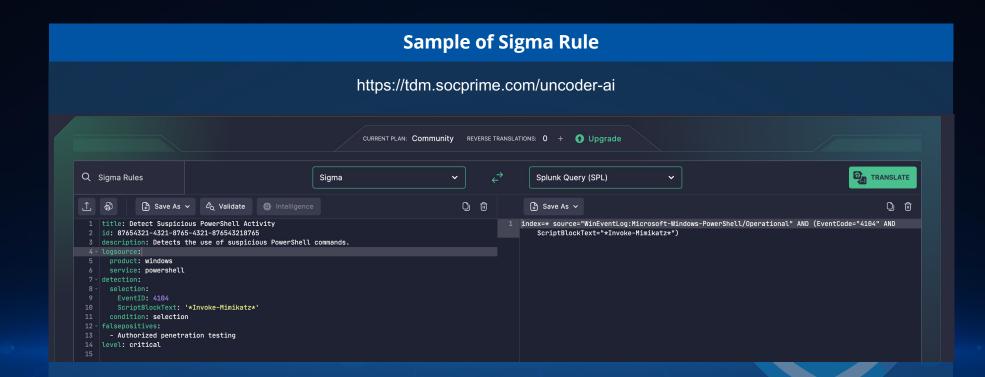


Sample of Sigma Rule

```
title: Detect Suspicious PowerShell Activity
id: 87654321-4321-8765-4321-876543218765
description: Detects the use of suspicious PowerShell commands.
logsource:
   product: windows
   service: powershell
detection:
   selection:
    EventID: 4104
        ScriptBlockText: '*Invoke-Mimikatz*'
   condition: selection
falsepositives:
   - Authorized penetration testing
```

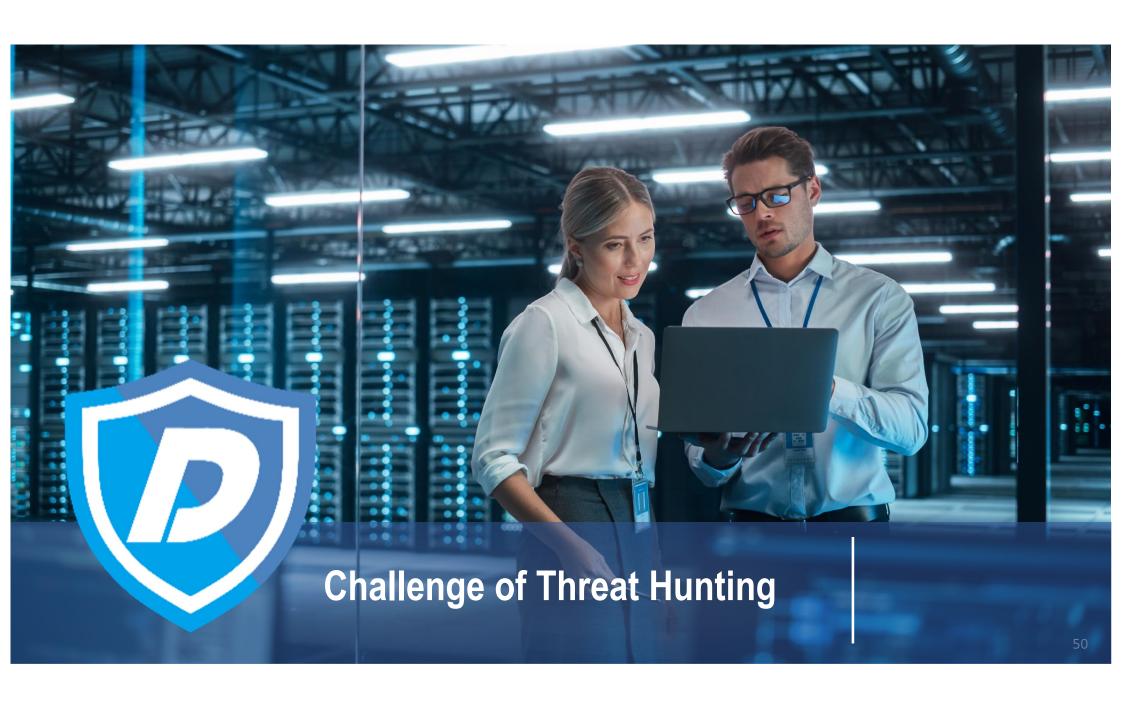
level: critical













Challenge

Budget

- Accurate planning
- Proving Return On Investment (ROI)
- Meaningful and Accurate Metrics

Capability

- Identifying and prioritizing gaps in capability
- Measuring current performance
 - Tools
 - Staff





Output of Threat Hunting

Nothing Found

Benefits

- No malicious activity is present.
- Or current visibility in the organization is not enough or the tools that used by threat hunters is not good enough to help them to investigate the case.

Something Found Non-Malicious

Benefits

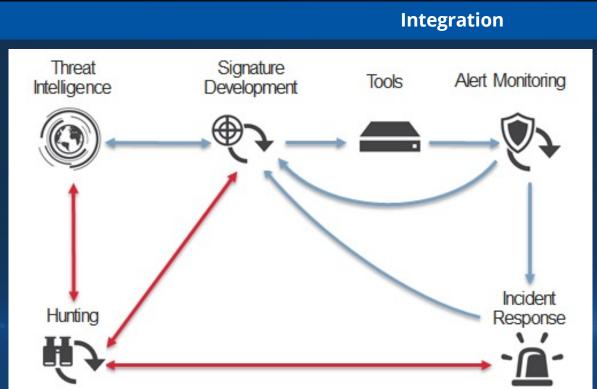
- Identify compliance/best practice issue
- Validate effectiveness of hunting activity

Something Found Malicious

Benefits

- Identify security incident
- Validate effectiveness of hunting activity





- Strategic hunting plan clearly defines roles and responsibilities
- Provides additional information flow conduits
- Documenting the Hunting Program plan is critical to success
- Metrics review creates near real time feedback loop



Output of Threat Hunting

SIEM Experts

Detection Rules

Threat Hunting

Threat Hunting

Threat Hunting

Procedures

Potential Breaches

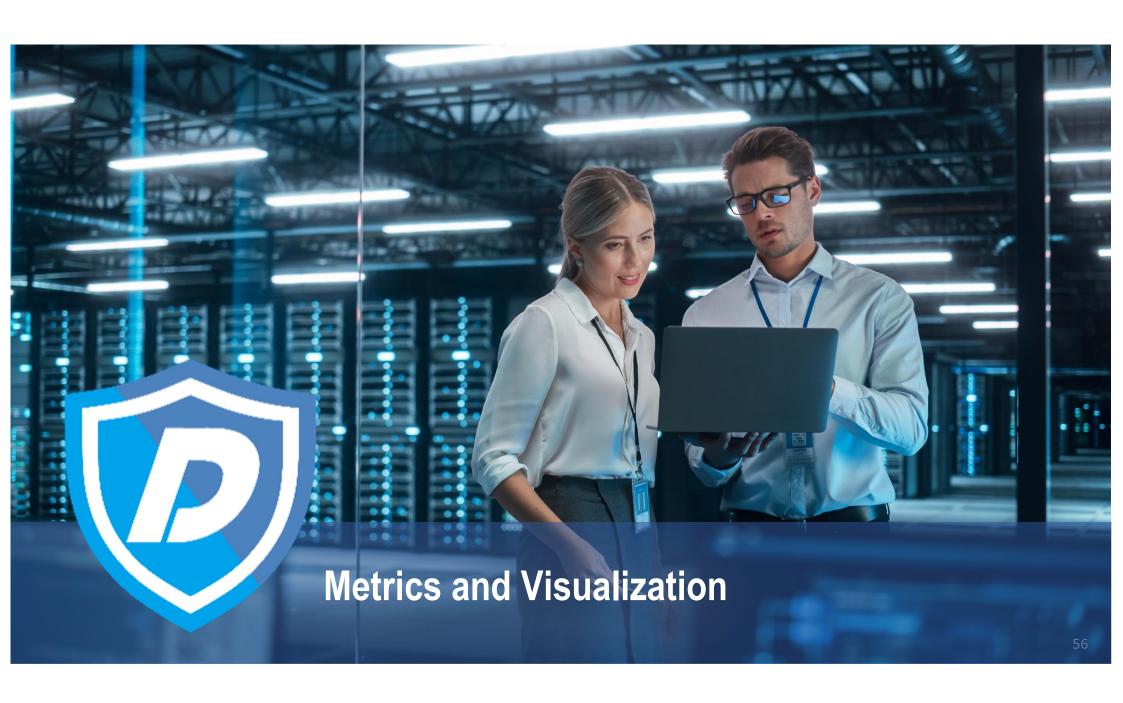
SOC Analysts

- New rules of SIEM for detect suspicious behavior.
- Update current rules to more effective.
- White paper.
- Signatures



Threat Hunting Benefit

- Finding adversaries who have gotten past your current security protection
- Continuous improvement of your detection capabilities
- With your existing technology, you can not have oversight of everything that's happening, at this point threat hunting help your organization
- Supports faster and early detection of potential compromise
- Increasing awareness of your environment and attack surface
- One of method to improve your data collection





Threat Hunting





Threat Hunting

Hunting Metrics Matrix

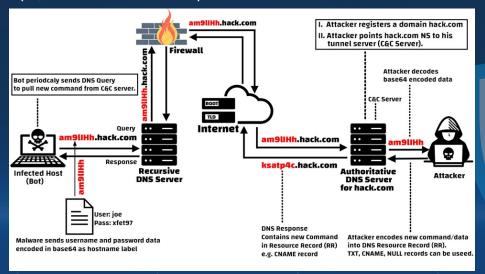
Attacker Lifecycle Phase	Hunting Goal	Hunting Activity	Priority	Tools	Data Source
Init. Compromise, Est Foothold / Escalate Priv	Detect host based artifacts of installed webshells	Analyze server web logs for evidence of installed webshell	Low	Remote Forensics Tool	DATT agent
Init. Compromise, Est Foothold / Escalate Priv / Internal Recon / Move Laterally / Maintain Presence / Complete Mission	Detect host based artifacts of malicious use of legitimate processes	Analyze hosts for signs of malicious powershell use	Med	Remote Forensics Tool	DATT agent
Escalate Privileges	Detect network based artifacts of attacker tools	Use network sensors to identify dumpers on the wire: keywords from strings, filenames, hashes	Low	Network Logs, Network Alerts	Mcafee IDS, Mcafee IPS, Firewalls, VPN logs, Proxy Logs
Escalate Privileges, Move Laterally	Detect host based artifacts of inappropriate use of privileged accounts	Identify authentication with privileged accounts that have been disabled	Med	SIEM	Domain Logs
Establish Foothold, Escalate Privileges, Move Laterally, Maintain Presence	Detect account compromise	Identify attempted execution of common dumper service names	Med	Remote Forensics Tool	DATT agent
Complete mission	Detect unauthorized movement of data in and out of the environment	Unusual traffic: size, frequency, endpoints, port/protocol	High	SIEM, Network Logs	Flow data, Raw packet data
Complete mission	Detect unauthorized movement of data in and out of the environment	Stacks of common archive formats passing over Network	High	SIEM, Network Logs	IDS, IPS, Raw packet data





DNS Tunneling

DNS tunneling involves abuse of the underlying DNS protocol. Instead of using DNS requests and replies to perform legitimate IP address lookups, malware uses it to implement a command and control channel with its handler.





DNS Tunneling

Wireshark: dns.qry.name.len > 15 and !mdns

dns.qry.name.len > 15 and !mdns						
	Time	Source	Destination	Protocol		
62	13.545154	10.118.1.34	10.118.1.85	DNS		
63	13.697025	10.118.1.85	10.118.1.34	DNS		
67	14.500651	10.118.1.34	10.118.1.85	DNS		
68	14.501560	10.118.1.85	10.118.1.34	DNS		
69	14.502442	10.118.1.34	10.118.1.85	DNS		
70	14.502801	10.118.1.85	10.118.1.34	DNS		
7 6	15.603461	10.118.1.34	10.118.1.85	DNS		
77	15.603890	10.118.1.85	10.118.1.34	DNS		
87	16.615870	10.118.1.34	10.118.1.85	DNS		
88	16.616282	10.118.1.85	10.118.1.34	DNS		
99	17.617150	10.118.1.34	10.118.1.85	DNS		
100	17.617531	10.118.1.85	10.118.1.34	DNS		
106	18.618601	10.118.1.34	10.118.1.85	DNS		



DNS Tunneling

Standard query 0x6ca8 TXT dnscat.32c2032393000000006038f4ae3bdc2af016356e5b2cde5180fc495fb8ab.6076138737866e2c4b941939a7ab66776 Standard guery response 0x6ca8 TXT dnscat.32c2032393000000006038f4ae3bdc2af016356e5b2cde5180fc495fb8ab.6076138737866e2c4b941939a Standard query 0x72ae CNAME dnscat.3f3d0023931d818eaa5206000012202eb4ba5c3b98758a4573102ae17a10.964a07dc0d63d7139a6e4bcd7c Standard query response 0x72ae CNAME dnscat.3f3d0023931d818eaa5206000012202eb4ba5c3b98758a4573102ae17a10.964a07dc0d63d7139a6e4bc Standard query 0x2e34 MX dnscat.0b030123932b9546a477f40001b0c61c17 Standard query response 0x2e34 MX dnscat.0b030123932b9546a477f40001b0c61c17 MX 10 dnscat.e599012393683e87f94b6afffff68e726c4 Standard guery 0x3105 TXT dnscat.2a3701239384859b4faf7100029b59d9b7 Standard query response 0x3105 TXT dnscat.2a3701239384859b4faf7100029b59d9b7 TXT Standard guery 0x1f6c MX dnscat.2bc20123937932c39d55610003c297a45b Standard query response 0x1f6c MX dnscat.2bc20123937932c39d55610003c297a45b MX 10 dnscat.e8000123932d7228cd782effff68e726c4 Standard guery 0x1bd3 TXT dnscat.782701239321b10a683ac5000491ab2a7b Standard query response 0x1bd3 TXT dnscat.782701239321b10a683ac5000491ab2a7b TXT Standard query 0x62ed TXT dnscat.133f0123938ff837293dbf000548cf0163 Standard query response 0x62ed TXT dnscat.133f0123938ff837293dbf000548cf0163 TXT Standard query 0x405f MX dnscat.06ab0123935494ccae517d0006b9a4ba2a Standard query response 0x405f MX dnscat.06ab0123935494ccae517d0006b9a4ba2a MX 10 dnscat.469c01239341af8f516606ffff68e726c4 Standard query 0x2c20 MX dnscat.13e80123936d3267e4fd2e00073b353f1d Standard query response 0x2c20 MX dnscat.13e80123936d3267e4fd2e00073b353f1d MX 10 dnscat.5b91012393ac67c329e6bfffff68e726c4 Standard query 0x3f0f TXT dnscat.0d3b0123935bd8179cd6370008e6f2cb9a Standard query response 0x3f0f TXT dnscat.0d3b0123935bd8179cd6370008e6f2cb9a TXT Standard query 0x78df CNAME dnscat.53e10123931ff3c35d81280009f3609e53 Standard query response 0x78df CNAME dnscat.53e10123931ff3c35d81280009f3609e53 CNAME dnscat.a753012393e166f40cfde8ffff68e726c4 Standard query 0x5b8c MX dnscat.057d0123937fd59632e4da000a2e2b7561 Standard query response 0x5b8c MX dnscat.057d0123937fd59632e4da000a2e2b7561 MX 10 dnscat.caf80123939609831e8552ffff68e726c4 Standard query 0x1488 CNAME dnscat.672701239363fcea6bd1cb000b23f6072b Standard query response 0x1488 CNAME dnscat.672701239363fcea6bd1cb000b23f6072b CNAME dnscat.afca0123935cc8bc2450d9ffff68e726c4 Standard guery 0x60e0 MX dnscat.01be012393015676f996f2000ce21d2857 Standard query response 0x60e0 MX dnscat.01be012393015676f996f2000ce21d2857 MX 10 dnscat.e810012393feacfad10756ffff68e726c4 Standard query 0x48a1 TXT dnscat.1bda012393f3ef5eefc54d000d94ac9e0f Standard query response 0x48a1 TXT dnscat.1bda012393f3ef5eefc54d000d94ac9e0f TXT Standard query 0x3210 MX dnscat.65e6012393c494aea0930b000e443e1945 Standard query response 0x3210 MX dnscat.65e6012393c494aea0930b000e443e1945 MX 10 dnscat.fdcd012393995f4e463c4fffff68e726c4

Standard query 0x499b CNAME dnscat.3e7d012393d02cb0087301000f91ffa424



DNS Tunneling Lab

https://play.secplayground.com/lab/996

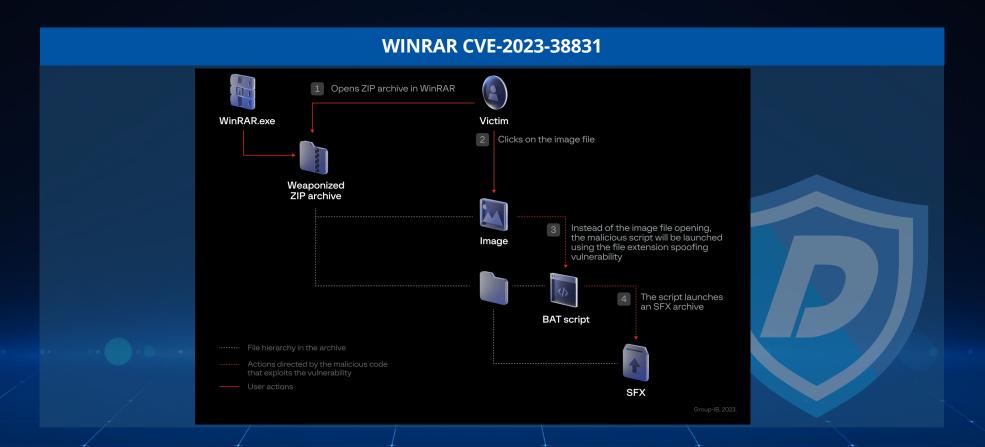




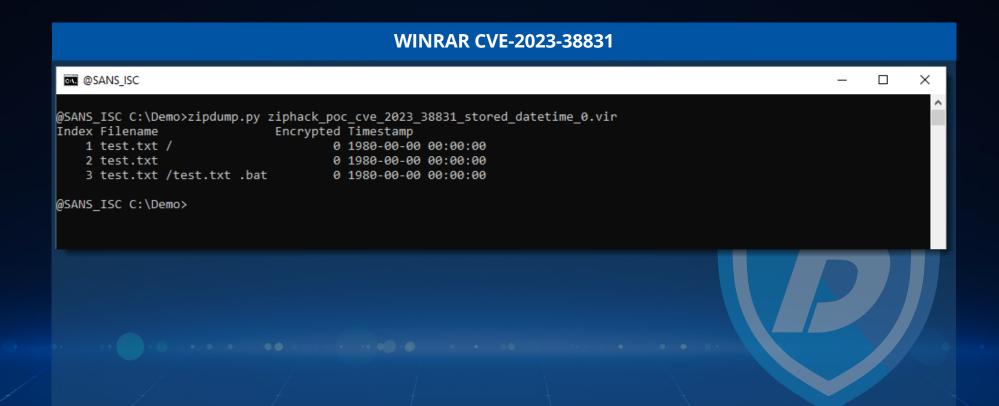
WINRAR CVE-2023-38831

https://www.youtube.com/watch?v=gkwMb1hjmIA&ab_channel=TacticalAdversary

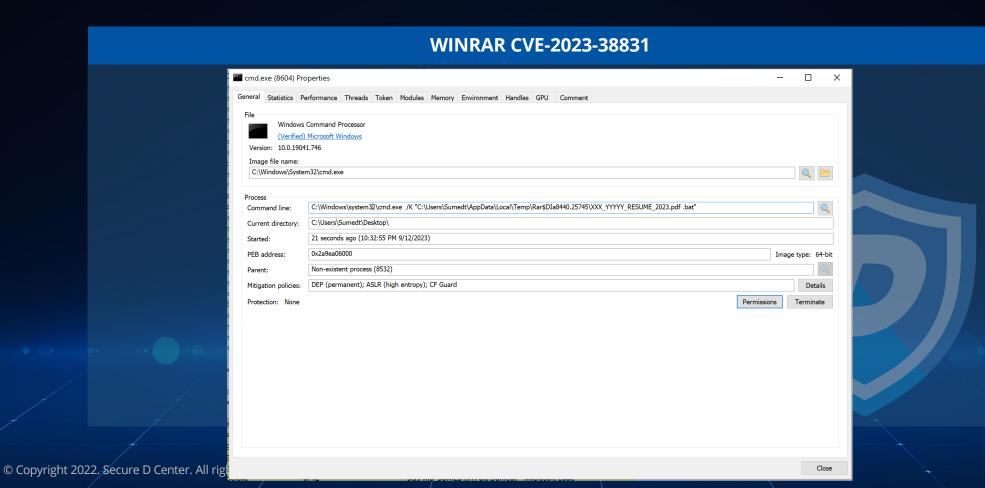


















WINRAR CVE-2023-38831

https://play.secplayground.com/lab/997

Sigma Rule: https://github.com/SigmaHQ/sigma/blob/master/rules-emerging-threats/2023/Exploits/CVE-2023-38831/file event win exploit cve 2023 38331 winrar susp double ext.yml

Yara Rule:

- https://isc.sans.edu/diary/Analysis+of+RAR+Exploit+Files+CVE202338831/30164/
- https://varaifv.abuse.ch/varahub/rule/EXPLOIT WinRAR CVE 2023 38831 Aug23/





Threat Hunting

Reference

- Hunting: Discovering Hidden Threats
- Cyber Threat Hunting Workshop

