

# MITRE ATT&CK

## MITRE Adversarial Tactics, Techniques, and Common Knowledge

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MITRE ATT&CK® is a globally-accessible knowledge base of adversary tactics and techniques based on real-world observations. The ATT&CK knowledge base is used as a foundation for the development of specific threat models and methodologies in the private sector, in government, and in the cybersecurity product and service community.

With the creation of ATT&CK, MITRE is fulfilling its mission to solve problems for a safer world – by bringing communities together to develop more effective cybersecurity. ATT&CK is open and available to any person or organization for use at no charge.

### ATT&CK Matrix for Enterprise

layout: side ▾ show sub-techniques hide sub-techniques

Reconnaissance	Resource Development	Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Command and Control	Exfiltration	Impact
11 techniques	8 techniques	11 techniques	17 techniques	23 techniques	14 techniques	47 techniques	17 techniques	34 techniques	9 techniques	17 techniques	18 techniques	9 techniques	15 techniques
Active Scanning (3)	Acquire Access	Content Injection	Cloud Administration Command	Account Manipulation (7)	Abuse Elevation Control Mechanism (4)	Abuse Elevation Control Mechanism (4)	Adversary-in-the-Middle (4)	Account Discovery (4)	Exploitation of Remote Services	Adversary-in-the-Middle (4)	Application Layer Protocol (3)	Automated Exfiltration (1)	Account Access Removal
Gather Victim Host Information (4)	Acquire Infrastructure (8)	Drive-by Compromise	Command and Scripting Interpreter (13)	BITS Jobs	Access Token Manipulation (5)	Access Token Manipulation (5)	Brute Force (4)	Application Window Discovery	Internal Spearphishing	Archive Collected Data (2)	Communication Through Removable Media	Data Transfer Size Limits	Data Destruction (1)
Gather Victim Identity Information (3)	Compromise Accounts (3)	Exploit Public-Facing Application	Container Administration Command	Boot or Logon Autostart Execution (14)	Account Manipulation (7)	BITS Jobs	Credentials from Password Stores (5)	Browser Information Discovery	Lateral Tool Transfer	Audio Capture	Content Injection	Exfiltration Over Alternative Protocol (3)	Data Encrypted for Impact
Gather Victim Network Information (6)	Compromise Infrastructure (8)	External Remote Services	Deploy Container	Boot or Logon Initialization Scripts (5)	Boot or Logon Autostart Execution (14)	Build Image on Host	Exploitation for Credential Access	Cloud Infrastructure Discovery	Remote Service Hijacking (2)	Automated Collection	Data Encoding (3)	Exfiltration Over C2 Channel	Data Manipulation (3)
Gather Victim Org Information (4)	Develop Capabilities (4)	Hardware Additions	ESXi Administration Command	Cloud Application Integration	Boot or Logon Initialization Scripts (5)	Debugger Evasion	Forced Authentication	Cloud Service Dashboard	Remote Services (8)	Browser Session Hijacking	Data Obfuscation (3)	Exfiltration Over Other Network Medium (1)	Defacement (2)
Phishing for Information (4)	Establish Accounts (3)	Phishing (4)	Exploitation for Client Execution	Compromise Host Software Binary	Create or Modify System Component	Delay Execution	Forge Web Credentials (2)	Cloud Service Discovery	Replication Through	Clipboard Data	Dynamic Resolution (3)	Email Bombing	Disk Wipe (2)
Search Closed Sources (2)	Obtain Capabilities (7)	Replication				Deploy Container	Input	Cloud Storage Object Discovery		Data from Cloud Storage		Endpoint Denial of Service (4)	

## **What is MITRE ATT&CK?**

**MITRE ATT&CK is a global knowledge base of real-world cyber attacker behavior.**

In simple words:

- It shows **how attackers think**
- What **steps they follow**
- Which **techniques they use during an attack**

It is **NOT a tool**, it is a **framework**.

**ATT&CK = Adversarial Tactics, Techniques, and Common Knowledge**

## Why MITRE Created ATT&CK

Before ATT&CK:

- Attackers reused the same techniques
- Defenders described attacks inconsistently
- There was no **common language** for attacker behavior

In **2013**, MITRE began documenting **repeatable patterns used by APT groups**, leading to the creation of ATT&CK.

The goal was to:

- Standardize how attacks are described
- Improve detection and defense
- Enable collaboration across the security community

# Core Structure of MITRE ATT&CK

MITRE ATT&CK is built around **TTPs**:

## 1 .Tactic – *The “Why”*

A **tactic** represents the **goal or objective** of the attacker.

Examples:

- Reconnaissance
- Initial Access
- Execution
- Persistence
- Privilege Escalation
- Command and Control
- Exfiltration

## 2.Technique – *The “How”*

A **technique** describes **how** the attacker achieves a tactic.

Examples:

- Phishing
- PowerShell
- Credential Dumping
- Active Scanning

Each technique has a unique **Technique ID** (e.g., T1059).

### **3.Procedure – The “How Exactly”**

A **procedure** is the **real-world implementation** of a technique.

Examples:

- Using PowerShell with encoded commands
- Running Nmap to scan IP ranges
- Using Mimikatz to dump credentials

Procedures vary by attacker, tool, and environment.

***Tactic: Reconnaissance***

***Technique: Active Scanning***

***Procedure: Using Nmap to scan 10.0.0.0/24***

## **Evolution of the ATT&CK Framework**

ATT&CK initially focused only on **Windows environments**. Over time, it expanded to cover modern infrastructures.

### **Current ATT&CK Matrices:**

- **Enterprise**
  - Windows
  - Linux
  - macOS
  - Cloud (AWS, Azure, GCP)
- **Mobile**
- **ICS (Industrial Control Systems)**

This evolution ensures ATT&CK remains relevant for:

- Traditional IT environments
- Cloud-native organizations
- OT and critical infrastructure

## The MITRE ATT&CK Matrix

The **ATT&CK Matrix** is a **visual representation** of all tactics and techniques.

### Structure:

- **Tactics** are displayed across the top
- **Techniques** are listed beneath each tactic
- **Sub-techniques** expand from techniques for deeper detail

The matrix helps defenders:

- Visualize attacker progression
- Identify detection gaps
- Understand attack chains

## **Example: Reconnaissance in ATT&CK**

### **Tactic:**

#### **Reconnaissance**

The attacker's goal is to gather information about the target.

### **Technique:**

#### **Active Scanning (T1595)**

The attacker actively probes the target's infrastructure.

### **Sub-techniques:**

- Scanning IP Blocks
- Vulnerability Scanning
- Wordlist Scanning

This breakdown shows how ATT&CK moves from **high-level intent** to **specific actions**.



## Reconnaissance

### Reconnaissance

11 techniques

Active Scanning (3)	II
Gather Victim Host Information (4)	II
Gather Victim Identity Information (3)	II
Gather Victim Network Information (6)	II
Gather Victim Org Information (4)	II
Phishing for Information (4)	II
Search Closed Sources (2)	II
Search Open Technical Databases (5)	II
Search Open Websites/Domains (3)	II
Search Threat Vendor Data	
Search Victim-Owned Websites	

# Technique:

## TACTICS

- Enterprise
  - Reconnaissance
  - Resource Development
  - Initial Access
  - Execution
  - Persistence
  - Privilege Escalation
  - Defense Evasion
  - Credential Access
  - Discovery
  - Lateral Movement
  - Collection
  - Command and Control
  - Exfiltration
  - Impact
- Mobile
- ICS

## Techniques

Techniques: 11

ID	Name	Description
T1595	Active Scanning	Adversaries may execute active reconnaissance scans to gather information that can be used during targeting. Active scans are those where the adversary probes victim infrastructure via network traffic, as opposed to other forms of reconnaissance that do not involve direct interaction.
.001	Scanning IP Blocks	Adversaries may scan victim IP blocks to gather information that can be used during targeting. Public IP addresses may be allocated to organizations by block, or a range of sequential addresses.
.002	Vulnerability Scanning	Adversaries may scan victims for vulnerabilities that can be used during targeting. Vulnerability scans typically check if the configuration of a target host/application (ex: software and version) potentially aligns with the target of a specific exploit the adversary may seek to use.
.003	Wordlist Scanning	Adversaries may iteratively probe infrastructure using brute-forcing and crawling techniques. While this technique employs similar methods to <a href="#">Brute Force</a> , its goal is the identification of content and infrastructure rather than the discovery of valid credentials. Wordlists used in these scans may contain generic, commonly used names and file extensions or terms specific to a particular software. Adversaries may also create custom, target-specific wordlists using data gathered from other Reconnaissance techniques (ex: <a href="#">Gather Victim Org Information</a> , or <a href="#">Search Victim-Owned Websites</a> ).
T1592	Gather Victim Host Information	Adversaries may gather information about the victim's hosts that can be used during targeting. Information about hosts may include a variety of details, including administrative data (ex: name, assigned IP, functionality, etc.) as well as specifics regarding its configuration (ex: operating system, language, etc.).
.001	Hardware	Adversaries may gather information about the victim's host hardware that can be used during targeting. Information about hardware infrastructure may include a variety of details such as types and versions on specific hosts, as well as the presence of additional components that might be indicative of added defensive protections (ex: card/biometric readers, dedicated encryption hardware, etc.).
.002	Software	Adversaries may gather information about the victim's host software that can be used during targeting. Information about installed software may include a variety of details such as types and versions on specific hosts, as well as the presence of additional components that might be indicative of added defensive protections (ex: antivirus, SIEMs, etc.).
.003	Firmware	Adversaries may gather information about the victim's host firmware that can be used during targeting. Information about host firmware may include a variety of details such as type and versions on specific hosts, which may be used to infer more information about hosts in the environment (ex: configuration, purpose, age/patch level, etc.).
.004	Client Configurations	Adversaries may gather information about the victim's client configurations that can be used during targeting. Information about client configurations

# Sub-techniques:

## TECHNIQUES

- Reconnaissance
  - Active Scanning
    - Scanning IP Blocks
    - Vulnerability Scanning
    - Wordlist Scanning
  - Gather Victim Host Information
  - Gather Victim Identity Information
  - Gather Victim Network Information
  - Gather Victim Org Information
  - Phishing for Information
  - Search Closed Sources
  - Search Open Technical Databases
  - Search Open Websites/Domains
  - Search Threat Vendor Data
  - Search Victim-Owned Websites
- Resource Development
- Initial Access
- Execution
- Persistence

(ex: External Remote Services or Exploit Public-Facing Application).

[Version Permalink](#)

## Procedure Examples

ID	Name	Description
C0030	Triton Safety Instrumented System Attack	In the Triton Safety Instrumented System Attack, TEMP.Veles engaged in network reconnaissance against targets of interest. <sup>[8]</sup>

## Mitigations

ID	Mitigation	Description
M1056	Pre-compromise	This technique cannot be easily mitigated with preventive controls since it is based on behaviors performed outside of the scope of enterprise defenses and controls. Efforts should focus on minimizing the amount and sensitivity of data available to external parties.

## Detection Strategy

ID	Name	Analytic ID	Analytic Description
DET0830	Detection of Active Scanning	AN1962	Monitor network data for uncommon data flows. Processes utilizing the network that do not normally have network communication or have never been seen before are suspicious. Monitor and analyze traffic patterns and packet inspection associated to protocol(s) that do not follow the expected protocol standards and traffic flows (e.g. extraneous packets that do not belong to established flows, gratuitous or anomalous traffic patterns, anomalous syntax, or structure). Consider correlation with process monitoring and command line to detect anomalous processes execution and command line arguments associated to traffic patterns (e.g. monitor anomalies in use of files that do not normally initiate connections for respective protocol(s)).

## References

1. Dainotti, A. et al. (2012). Analysis of a "/>

1	Reconnaissance	Resource Development	Initial Access	Execution	Persistence
2	10 techniques	8 techniques	11 techniques	16 techniques	23 techniques
	Active Scanning (3)	Acquire Access	Content Injection	Cloud Administration Command	Account Manipulation (7)
	Scanning IP Blocks	Acquire Infrastructure (8)	Drive-by Compromise	Command and Scripting Interpreter (12)	BITS Jobs
	Vulnerability Scanning	Compromise Accounts (3)	Exploit Public-Facing Application	Container Administration Command	Boot or Logon Autostart Execution (14)
	Wordlist Scanning	Compromise Infrastructure (8)	External Remote Services	Deploy Container	Boot or Logon Initialization Scripts (5)
	Gather Victim Host Information (4)	Develop Capabilities (4)	Hardware Additions	ESXi Administration	Cloud Application Integration
	Gather Victim Identity Information (3)	Establish Accounts (3)			
	Gather Victim Network Information (6)				

## Active Scanning

### Technique

#### Sub-techniques (3)

ID	Name
T1595.001	Scanning IP Blocks
T1595.002	Vulnerability Scanning
T1595.003	Wordlist Scanning

Adversaries may execute active reconnaissance scans to gather information that can be used during targeting. Active scans are those where the adversary probes victim infrastructure via network traffic, as opposed to other forms of reconnaissance that do not involve direct interaction.

Adversaries may perform different forms of active scanning depending on what information they seek to gather. These scans can also be performed in various ways, including using native features of network protocols such as ICMP.<sup>[1][2]</sup> Information from these scans may reveal opportunities for other forms of reconnaissance (ex: Search Open Websites/Domains or Search Open Technical Databases), establishing operational resources (ex: Develop Capabilities or Obtain Capabilities), and/or initial access (ex: External Remote Services or Exploit Public-Facing Application).

#### Sub-techniques

ID: T1595

Sub-techniques: T1595.001, T1595.002, T1595.003

① **Tactic:** Reconnaissance

① **Platforms:** PRE

**Version:** 1.0

**Created:** 02 October 2020

**Last Modified:** 15 April 2025

#### ID & Related Information

#### Description

## Technique Detail Pages

Each technique page in ATT&CK provides:

- Technique ID and description
- Sub-techniques
- Real-world procedure examples
- Associated threat groups and software
- Detection guidance
- Mitigation strategies
- External references

This makes ATT&CK useful not only for detection, but also for **investigation and response planning**.

## **ATT&CK Navigator**

The **ATT&CK Navigator** is an interactive tool that allows users to:

- Highlight techniques
- Track detection coverage
- Create heat maps
- Compare threat actors
- Plan red and blue team exercises

It is commonly used to measure **security maturity** and **coverage gaps**.

## ATT&CK in Operation

- Now that we understand what **MITRE ATT&CK** is, let's see **how it is actually used in real life** and **why it is important** for cyber security teams.
- **MITRE ATT&CK** contains a **lot of information**, so organizations use it as a **structured guide** to understand attacks instead of getting confused by raw data

## Why ATT&CK Matters

In cybersecurity, the **same attacker activity is often called by different names**.

Example:

- One tool says: *Suspicious PowerShell*
- Another says: *Script-based attack*
- A report says: *Living-off-the-land technique*

This creates confusion.

## **ATT&CK solves this by:**

- Giving **standard names**
- Assigning **unique technique IDs** (like T1059)
- Creating a **common language** for everyone

Because of this:

- Teams communicate better
- Incidents are easier to compare
- Reports are easier to understand

## **ATT&CK and Threat Intelligence**

Threat reports often explain **what the attacker did**, but not **how defenders should detect it**.

ATT&CK helps convert **threat intelligence into action**.

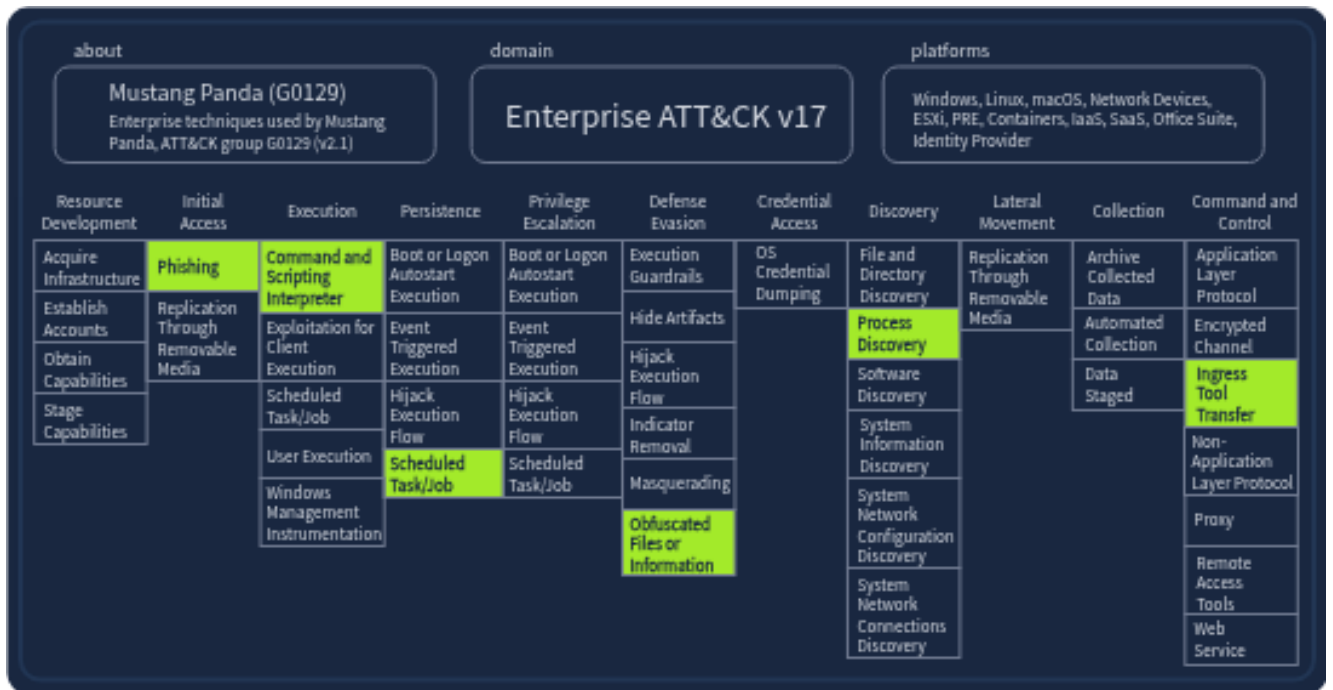
**How?**

- Threat behavior is mapped to **ATT&CK tactics and techniques**
- Defenders use this mapping to:
  - Write detection rules
  - Create SIEM queries
  - Build SOC playbooks

This makes threat intelligence **useful and actionable**.

## Who Uses ATT&CK

- Cyber Threat Intelligence (CTI) Teams-Understand attackers
- SOC Analysts- Investigate alerts
- Detection Engineers- Improve detections
- Incident Responders-Handle security incidents
- Red & Purple Teams-Test defenses





## **Mapping in Action**

After an attack, teams need to understand **how the attacker moved step by step**.

ATT&CK helps by mapping each step clearly.

### **Example: Mustang Panda (APT Group)**

Mustang Panda is a known attacker group.

Based on past attacks, they usually:

- Start with **phishing emails**
- Stay persistent using **scheduled tasks**
- Hide malware using **obfuscation**
- Communicate with servers using **tool transfer**

Using ATT&CK:

- Each action is mapped to a technique
- Teams can prepare detections in advance
- Future attacks are easier to spot

# Cyber Analytics Repository (CAR)

## What is CAR?

- The **Cyber Analytics Repository (CAR)** is a **collection of detection analytics** created by **MITRE** using the **MITRE ATT&CK framework**.

In simple words:

- **ATT&CK** tells you *what attackers do*
- **CAR** tells you *how to detect it*

CAR helps defenders turn ATT&CK techniques into **real detection rules**.

## Why CAR Exists

ATT&CK explains attacker behavior, but it does **not directly give detection rules**.

Security teams often ask:

- What logs should I look at?
- What pattern indicates this attack?
- How do I write a SIEM rule for this technique?

**CAR answers these questions.**

## What CAR Provides

Each CAR analytic includes:

- A **description** of the attacker behavior
- The **related ATT&CK tactic and technique**
- **Detection logic** explained clearly
- **Example implementations** for SIEM tools
- Sometimes **unit tests** to validate detection

This makes CAR very useful for:

- SOC analysts
- Detection engineers
- Blue teams
- Students learning detection engineering

### CAR-2020-09-001: Scheduled Task - FileAccess

In order to gain persistence, privilege escalation, or remote execution, an adversary may use the Windows Task Scheduler to schedule a command to be run at a specified time, date, and even host. Task Scheduler stores tasks as files in two locations - C:\Windows\Tasks (legacy) or C:\Windows\System32\Tasks. Accordingly, this analytic looks for the creation of task files in these two locations.

#### ATT&CK Detections

**Submission Date:** 2020/09/10  
**Update Date:**  
**Information Domain:** Host  
**Data Subtypes:** File  
**Analytic Type:** Situational Awareness  
**Applicable Platforms:** Windows  
**Contributors:** Olaf Hartong

Technique	Subtechnique(s)	Tactic(s)	Level of Coverage
Scheduled Task/Job	Scheduled Task	Execution, Persistence, Privilege Escalation	Low

# How CAR Is Used in Real SOCs

Typical workflow:

1. Identify an ATT&CK technique
2. Check if a CAR analytic exists
3. Read detection logic and rationale
4. Adapt SIEM query
5. Test and tune detection
6. Deploy in SOC

This makes detection:

- Faster
- More structured
- More reliable

## Implementations

Pseudocode - Windows task file creation (Pseudocode, CAR native)

This is a pseudocode representation of the below splunk search.

```
files = search File:Create
task_files = filter files where {
  (file_path = "C:\Windows\System32\Tasks\*" or file_path = "C:\Windows\Tasks\*") and
  image_path != "C:\WINDOWS\system32\svchost.exe"}
output task_files
```

Splunk search - Windows task file creation (Splunk, Sysmon native)

This Splunk search looks for any files created under the Windows tasks directories.

```
index=__your_sysmon_index__ EventCode=11 Image!="C:\WINDOWS\system32\svchost.exe" (TargetFilename="C:\Windows\System32\Tasks\*" OR TargetFilename="C:\Windows\Tasks\*")
```

# CAR - for ACCESS PERMISSION MODIFICATION

MITRE Cyber Analytics Repository

AnalyticsAnalytics (by technique)Data ModelResourcesSensorsCoverage Comparison

Fork me on GitHub

## CAR-2019-07-001: Access Permission Modification

Adversaries sometimes modify object access rights at the operating system level. There are varying motivations behind this action - they may not want some files/objects to be changed on systems for persistence reasons and therefore provide admin only rights; also, they may want files to be accessible with lower levels of permissions.

Note - this analytic references file permissions, which are not currently in the CAR data model.

Submission Date: 2019/07/08

Update Date:

Information Domain: Host

Data Subtypes: File

Analytic Type: Situational Awareness

Applicable Platforms: Windows, Linux, macOS

Contributors: Meric Degimenci, MITRE

### ATT&CK Detections

Technique	Subtechnique(s)	Tactic(s)	Level of Coverage
<a href="#">File and Directory Permissions Modification</a>	<a href="#">Windows File and Directory Permissions Modification</a> , <a href="#">Linux and Mac File and Directory Permissions Modification</a>	<a href="#">Defense Evasion</a>	Moderate

### D3FEND Techniques

ID	Name
D3-SFA	<a href="#">System File Analysis</a>

### Implementations

#### Windows - Pseudocode (Pseudocode)

Windows environment logs can be noisy, so we take the following into consideration:

- We need to exclude events generated by the local system (subject security ID "NT AUTHORITY\SYSTEM") and focus on actual user events.

# Implementation in SIEM,EDR

### Implementations

#### Windows - Pseudocode (Pseudocode)

Windows environment logs can be noisy, so we take the following into consideration:

- We need to exclude events generated by the local system (subject security ID "NT AUTHORITY\SYSTEM") and focus on actual user events.
- When a permission modification is made for a folder, a new event log is generated for each subfolder and file under that folder. It is advised to group logs based on handle ID or user ID.
- The Windows security log (event ID 4670) also includes information about the process that modifies the file permissions. It is advised to focus on uncommon process names, and it is also uncommon for real-users to perform this task without a GUI.

```
log_name == "Security" AND
event_code == "4670" AND
object_type == "File" AND
subject_security_id != "NT AUTHORITY\SYSTEM"
```

#### Windows - Splunk (Splunk)

Splunk version of the above pseudocode.

```
index=__your_windows_security_log_index__ EventCode=4670 Object_Type="File" Security_ID!="NT AUTHORITY\SYSTEM"
```

#### Linux - Pseudocode (Pseudocode)

This looks for any invocations of chmod. Note that this is likely to be more noisy than the Windows-specific implementation, although Linux does not generate logs for system triggered activities like in Windows. In addition, it may be necessary to whitelist cron jobs that regularly run and execute `chmod`.

```
processes = search Process:Create
chmod_processes = filter processes where command_line == "chmod *"
output chmod_processes
```

#### Logpoint, LogPoint native

LogPoint version of the above pseudocode for Windows.

```
norm_id=WindowsSysmon channel="Security" event_id=4670 object_type="File" -user_id="S-1-5-18"
```

### Unit Tests

## Why MITRE ATT&CK Is Critical in Modern Security

- Provides a **common language** for cyber defense
- Vendor-neutral and globally adopted
- Improves detection, response, and resilience
- Essential for SOC operations and threat hunting
- Widely referenced in security research and tooling

## Writing a detection rules and implementation idea using MITRE ATT&CK

### SIEM Rule -SPLUNK

MITRE: T1059.001 – PowerShell (Execution)

Detect encoded PowerShell execution (very common in attacks).

**index=windows EventCode=4688**

**Process\_Name="\*powershell.exe"**

**(CommandLine="\*-enc\*" OR**

**CommandLine="\*EncodedCommand\*")**

### **Why This Works**

- Attackers hide commands using Base64
- Legit admins rarely use **-enc**

### **SOC Use**

- Execution stage detection
- High-severity alert
- Correlate with phishing or C2 alerts

## **EDR Rule-Microsoft Defender**

**MITRE: T1003 – Credential Dumping**

**Detect LSASS memory access.**

**Process accesses lsass.exe memory**

**AND Process NOT signed by Microsoft**

### **Example Processes**

- mimikatz
- procdump
- renamed tools

### **SOC Response**

- Isolate endpoint
- Reset credentials
- Block process hash



## **IDS / IPS Rule -SNORT**

**MITRE: T1071 – Command and Control (c2 server)**

Detect suspicious PowerShell download over HTTP/s.

**alert tcp any any -> any 80 (**

**msg:"MITRE T1071 - PowerShell C2 Download";**

**content:"powershell";**

**nocase;**

**sid:1000001;**

**rev:1;**

**)**

### **Why This Works**

- Malware often downloads payloads using PowerShell
- Clear network indicator

### **SOC Use**

- Early malware detection
- Network-level visibility

## Malware Detection- YARA rule

MITRE: T1027 – Obfuscated Files

MITRE: T1059 – PowerShell

Detect **encoded PowerShell** in malware files.

**rule MITRE\_T1059\_Encoded\_PowerShell**

**{**

**meta:**

**mitre = "T1059.001"**

**description = "Detect encoded PowerShell commands"**

**strings:**

**\$ps1 = "powershell -enc" nocase**

**\$ps2 = "FromBase64String" nocase**

**condition:**

**any of them**

**}**

## SOC Use

- File scanning
- Memory scanning
- Incident response

## **Microsoft Sentinel (Cloud SIEM – KQL)**

### **MITRE: T1566 – Phishing (Initial Access)**

Detects users clicking malicious links.

#### **EmailEvents**

**| where ThreatTypes has "Phish"**

**| where DeliveryAction == "Delivered"**

#### **SOC Use**

- Early attack detection
- Prevent payload execution
- User awareness & response

## **Web Application Firewall (WAF – ModSecurity)**

**MITRE: T1190 – Exploit Public-Facing Application**

Detects SQL Injection attempts.

**SecRule ARGS "@rx (?i)(union select|or 1=1|sleep\()"**

**"id:10001,phase:2,deny,msg:'MITRE T1190 SQL Injection Attempt'"**

### **SOC Use**

- Web attack prevention
- Protect critical apps
- Reduce breach risk

## **How SOC Writes Rules Using MITRE**

Choose ATT&CK Technique



Understand attacker behavior



Pick log source (SIEM / EDR / IDS)



Write detection logic



Map to MITRE ID



Tune and deploy

**“We detect attacker behavior, not tools. MITRE ATT&CK is the backbone of all SOC detections.”**

## Reference

<https://attack.mitre.org/>

<https://en.wikipedia.org/wiki/ATT%26CK>

<https://github.com/mitre-attack>

[https://en.wikipedia.org/wiki/Common Attack Pattern Enumeration and Classification](https://en.wikipedia.org/wiki/Common_Attack_Pattern_Enumeration_and_Classification)

**[-yuvaraj.D](#)**