

[Hello Security]



**WGUISW**

# **0x03 Stay safe, realistically**

**Krystian Bajno, 2024**

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[Links are clickable]

## [Links]

- <https://d3fend.mitre.org>
- <https://attack.mitre.org>
- <https://owasp.org/Top10/>
- <https://portswigger.net/web-security>
- <https://owasp.org/www-project-web-security-testing-guide/>
- <https://pages.nist.gov/800-63-3/sp800-63b.html>
- <https://haveibeenpwned.com>
- <https://cert.pl/hasla>
- <https://www.nomoreransom.org/pl/index.html>
- <https://map.snapchat.com/>
- <https://www.osintdojo.com/diagrams/main>
- <https://github.com/jivoi/awesome-osint>
- <https://maldevacademy.com/>
- <https://www.fortinet.com/resources/cyberglossary/defense-in-depth>

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# Ox04 Whoami

**Krystian Bajno**

Cyber Security Specialist  
**Penetration Tester**

Full-Stack Software Engineer  
**Backend, Frontend, Mobile**



**Comp. Sci. I** - Cloud Computing Technology

**Comp. Sci. II** - Cloud Computing Architecture  
and Security



# Ox05 What could happen to me?

🛡️ *CIA Triad – anatomy of a cyber attack*

## 🧠 Confidentiality

### - Sensitive information disclosure

- Data breaches
- Data interception
- Intelligence gathering
- Insider threats
- Physical theft
- Social engineering
- System compromise

## ✏️ Integrity

### - Modification / creation / deletion of data

- Fraud
- Disinformation
- Forgery
- Identity theft
- Social Engineering
- Ransomware
- System compromise

## ➡️ Availability

### - Anything **denying an access to a resource**

- Crashes, glitches, overloads
- Power outages
- System compromise

**Functionality vs Security principle**



# Ox06 MITRE – the actual techniques

ATT&CK, D3FEND

MITRE ATT&CK Matrices • Tactics • Techniques • Defenses • CTI • Resources • Benefactors • Blog • Search Q

Reconnaissance 10 techniques	Resource Development 8 techniques	Initial Access 10 techniques	Execution 14 techniques	Persistence 20 techniques	Privilege Escalation 14 techniques	Defense Evasion 43 techniques	Credential Access 17 techniques	Discovery 32 techniques	Lateral Movement 9 techniques	Collection 17 techniques	Command and Control 17 techniques	Exfiltration 9 techniques	Impact 14 techniques
Active Scanning (3) Gather Victim Host Information (4) Gather Victim Identity Information (3) Gather Victim Network Information (4) Gather Victim Org Information (4) Phishing for Information (4) Search Closed Sources (2) Search Open Technical Databases (3) Search Open Websites/ Domains (3) Search Victim-Owned Websites	Acquire Access (3) Acquire Infrastructure (4) Compromise Accounts (3) Compromise Infrastructure (2) Develop Capabilities (4) Establish Accounts (3) Obtain Capabilities (3) Stage Capabilities (4)	Content Injection (3) Drive-by Compromise (3) Exploit Public-Facing Application (3) External Remote Services (3) Hardware Additions (3) Phishing (4) Replication Through Retrievable Media (3) Supply Chain Compromise (3) Trusted Relationship (3) Valid Accounts (2)	Cloud Administration Command (3) Command and Scripting Interpreter (3) Container Administration Command (3) Deploy Container (3) Exploitation for Client Execution (3) Inter-Process Communication (3) Native API (3) Scheduled Task/Job (3) Serverless Execution (3) Shared Modules (3) Software Deployment Tools (3) System Services (2) User Execution (3) Windows Management Instrumentation	Account Manipulation (4) BITS Jobs (3) Boot or Logon Autostart Execution (14) Boot or Logon Initialization Scripts (3) Browser Extensions (3) Compromise Client Software Binary (3) Create Account (3) Create or Modify System Process (4) Create or Modify Scheduled Task/Job (4) Event Triggered Execution (3) External Remote Services (3) Hijack Execution (11) Implant Internal Image (3) Modify Authentication Process (3) Office Application Startup (4) Power Settings (3) Pre-OS Boot (4) Scheduled Task/Job (3) Server Software Component (3) Traffic Signaling (2) Valid Accounts (4)	Abuse Elevation Control Mechanism (3) Access Token Manipulation (3) BITS Jobs (3) Build Image on Host (3) Debugger Evasion (3) Deobfuscate/Decode Files or Information (3) Deploy Container (3) Direct Volume Access (3) Domain Policy Modification (2) Execution Guardrails (2) Escape to Host (3) Exploitation for Defense Evasion (3) File and Directory Permissions Modification (2) Hide Artifacts (11) Hijack Execution Flow (12) Process Injection (12) Scheduled Task/Job (3) Valid Accounts (4) Impersonation (3) Indicator Removal (3) Indirect Command Execution (3) Masquerading (3) Modify Authentication Process (3) Modify Cloud Compute Infrastructure (3) Modify Registry (3) Modify System Image (2) Network Boundary Bridging (1) Obfuscated Files or Information (2) Plist File Modification (3) Pre-OS Boot (3) Process Injection (12) Reflective Code Loading (3) Rogue Domain Controller (3) Rootkit (3) Subvert Trust Controls (3) System Binary Proxy Execution (3) System Script Proxy Execution (1) Template Injection (3) Traffic Signaling (2) Trusted Developer Utilities Proxy Execution (1)	Adversary-in-the-Middle (3) Brute Force (4) Credentials from Password Stores (3) Exploitation for Credential Access (3) Forced Authentication (3) Forge Web Credentials (2) Multi-Factor Authentication Interception (3) Multi-Factor Authentication Request Generation (3) Network Shifting (3) OS Credential Dumping (3) Steal or Forge Authentication Certificates (3) Steal or Forge Browser Cookies (3) Steal Web Session Cookie (3) Unsecured Credentials (3) Software Discovery (3) System Information Discovery (3) System Location Discovery (1) System Network Configuration Discovery (2) System Network Connections Discovery (3) System Owner/User Discovery (3) System Service Discovery (3) System Time Discovery (3) Virtualization/Sandbox Evasion (3)	Account Discovery (4) Application Window Discovery (3) Browser Information Discovery (3) Cloud Infrastructure Discovery (3) Cloud Service Dashboard (3) Cloud Service Discovery (3) Cloud Storage Object Discovery (3) Container and Resource Discovery (3) Input Capture (3) Debugger Evasion (3) Device Driver Discovery (3) Domain Trust Discovery (3) File and Directory Discovery (3) Group Policy Discovery (3) Log Enumeration (3) Network Service Discovery (3) Network Shifting (3) Password Policy Discovery (3) Peripheral Device Discovery (3) Permission Groups Discovery (3) Process Discovery (3) Remote System Discovery (3) Software Discovery (3) System Information Discovery (3) System Network Configuration Discovery (2) System Network Connections Discovery (3) System Owner/User Discovery (3) System Service Discovery (3) System Time Discovery (3) Virtualization/Sandbox Evasion (3)	Adversary-in-the-Middle (3) Archive Collected Data (3) Audio Capture (3) Auto-Logon (3) Browser Hijack (3) Client (3) Data Capture (3) Data Dump (3) Data Exfiltration (3) Data Staging (3) Data Transfer (3) Data Wiper (3) Device Driver Discovery (3) Domain Trust Discovery (3) File and Directory Discovery (3) Group Policy Discovery (3) Log Enumeration (3) Network Service Discovery (3) Network Shifting (3) Password Policy Discovery (3) Peripheral Device Discovery (3) Permission Groups Discovery (3) Process Discovery (3) Remote System Discovery (3) Software Discovery (3) System Information Discovery (3) System Network Configuration Discovery (2) System Network Connections Discovery (3) System Owner/User Discovery (3) System Service Discovery (3) System Time Discovery (3) Virtualization/Sandbox Evasion (3)	Application Layer Protocol (4) Automated Exfiltration (1) Communication Through Removable Media (3) Data Manipulation (3) Data Transfer Size Limits (3) Exfiltration Over a Connection (3) Remote Services (3) Remote Services Hijacking (2) Replication Through Removable Media (3) Software Deployment Tools (3) Taint Shared Content (3) Use Alternate Authentication Material (4) Data Capture (3) Data Dump (3) Data Exfiltration (3) Data Staging (3) Data Transfer (3) Data Wiper (3) Device Driver Discovery (3) Domain Trust Discovery (3) File and Directory Discovery (3) Group Policy Discovery (3) Log Enumeration (3) Network Service Discovery (3) Network Shifting (3) Password Policy Discovery (3) Peripheral Device Discovery (3) Permission Groups Discovery (3) Process Discovery (3) Remote System Discovery (3) Software Discovery (3) System Information Discovery (3) System Network Configuration Discovery (2) System Network Connections Discovery (3) System Owner/User Discovery (3) System Service Discovery (3) System Time Discovery (3) Virtualization/Sandbox Evasion (3)	Account Access Removal (3) Data Destruction (3) Data Encrypted for Impact (3) Data Manipulation (3)			

**DEFEND™**  
A knowledge graph of cybersecurity countermeasures  
9149

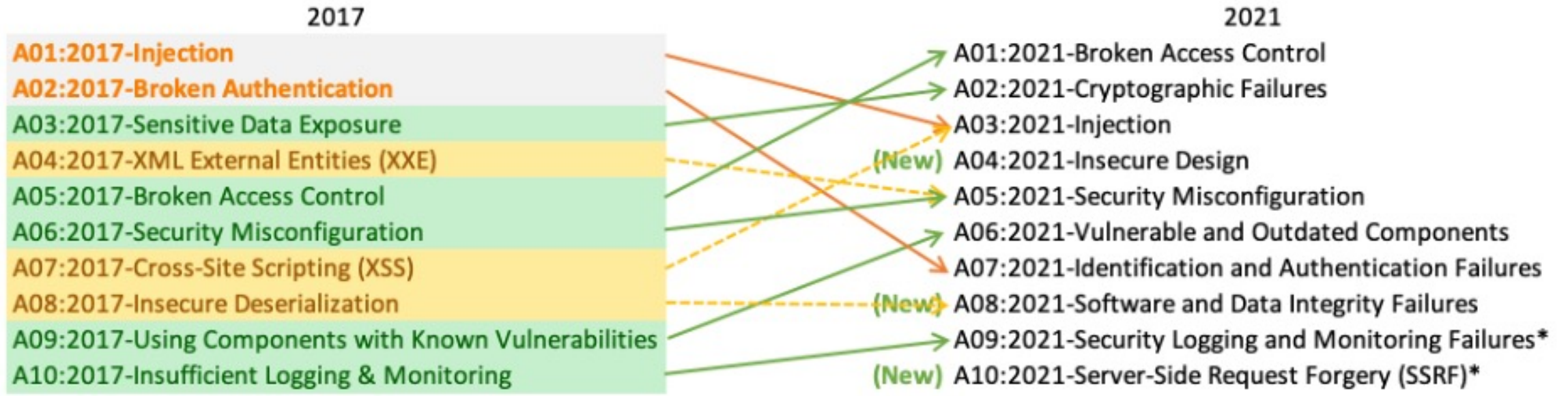
ATT&CK Lookup D3FEND Lookup

Model	Harden	Identify	Protect	Detect	Isolate	Deceive	Evict	Restore												
Application Hardening	Credential Hardening	Message Authentication	Platform Hardening	File Analysis	Identifier Analysis	Message Analysis	Network Traffic Analysis	Platform Monitoring	Process Analysis	User Behavior Analysis	Execution Isolation	Network Isolation	Decoy Environment	Decoy Object	Credential Eviction	File Eviction	Process Eviction	Restore Access	Restore Object	
Application Configuration Hardening	Biometric Authentication	Message Encryption	Bootloader Authentication	Dynamic Analysis	Homograph Detection	Sender MTS Reputation Analysis	Administrative Network Activity Analysis	File Integrity Monitoring	Database Query String Analysis	Authentication Event Thresholding	Executable Allowlisting	Broadcast Domain Isolation	Connected Honeynet	Decoy File	Decoy Network Resource	Account Locking	Email Removal	Process Suspension	Restore Network Access	Restore Credential
Dead Code Elimination	Certificate Pinning	Message Obfuscation	Disk Encryption	Emulated File Analysis	Identifier Activity Analysis	Sender Reputation Analysis	Byte Sequence Emulation	Firmware Behavior Analysis	File Access Pattern Analysis	Authorization Event Thresholding	Executable Denylisting	DNS Allowlisting	Integrated Honeynet	Decoy Resource	Authentication Cache Invalidation	File Removal	Process Termination	Restore Network Access	Restore Configuration	
Exception Handler Pointer Validation	Credential Rotation	Transfer Agent Authentication	Driver Load Integrity Checking	File Content Analysis	Identifier Reputation Analysis	Sender Reputation Analysis	Certificate Emulation	Firmware Embedded Code Monitoring	Indirect Branch Call Analysis	Credential Compromise Scope Analysis	Hardware-based Process Isolation	DNS Denylisting	Standalone Honeynet	Decoy Persona	Credential Revoking	Unlock Account	Restore Database	Restore File	Restore Image	
Pointer Authentication	Credential Transmission Scoping	Domain Trust Policy	File Encryption	File Content Rules	Domain Name Reputation Analysis	File Hash Reputation Analysis	Active Certificate Analysis	Firmware Verification	Process Code Segment Verification	Domain Account Monitoring	IO Port Restriction	Forward Resolution Domain Denylisting	Decoy Release	Decoy Session Token	Decoy User Credential	Restore Email	Restore File	Restore Software	Restore File	
Process Segment Execution Prevention	Multi-factor Authentication	One-time Password	Local File Permissions	File Hashing	File Hash Reputation Analysis	IP Reputation Analysis	Passive Certificate Analysis	Peripheral Firmware Verification	Process Segment Detection	Job Function Access Pattern Analysis	Mandatory Process Isolation	Hierarchical Domain Denylisting	Decoy Session Token	Decoy User Credential	Restore File	Restore Software	Restore File	Restore Software	Restore File	
Segment Address Offset Randomization	Strong Password Policy	User Account Permissions	RF Shielding	Software Update	System Configuration Permissions	TPM Boot Integrity	Client-server Payload Profiling	System Firmware Verification	Process Spawn Analysis	Local Account Monitoring	System Call Filtering	Forward Resolution IP Denylisting	Encrypted Tunnels	Network Traffic Filtering	Inbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	
Stack Frame Anomaly Validation	System Configuration Permissions	System Configuration Permissions	System Update	System Configuration Permissions	System Configuration Permissions	TPM Boot Integrity	Connection Attempt Monitoring	Operating System Monitoring	Process Lineage Analysis	Resource Access Pattern Analysis	Script Execution Analysis	Reverse Resolution IP Denylisting	Encrypted Tunnels	Network Traffic Filtering	Inbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	
Stack Frame Anomaly Validation	System Configuration Permissions	System Configuration Permissions	System Update	System Configuration Permissions	System Configuration Permissions	TPM Boot Integrity	DNS Traffic Analysis	Endpoint Health Beacon	Script Execution Analysis	Session Duration Analysis	Shadow Stack Comparisons	Reverse Resolution IP Denylisting	Encrypted Tunnels	Network Traffic Filtering	Inbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	
Stack Frame Anomaly Validation	System Configuration Permissions	System Configuration Permissions	System Update	System Configuration Permissions	System Configuration Permissions	TPM Boot Integrity	File Carving	Input Device Analysis	Shadow Stack Comparisons	User Data Transfer Analysis	System Call Filtering	Reverse Resolution IP Denylisting	Encrypted Tunnels	Network Traffic Filtering	Inbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	
Stack Frame Anomaly Validation	System Configuration Permissions	System Configuration Permissions	System Update	System Configuration Permissions	System Configuration Permissions	TPM Boot Integrity	Inbound Session Volume Analysis	Memory Boundary Tracking	System Call Analysis	User Geolocation Login Pattern Analysis	System Call Filtering	Reverse Resolution IP Denylisting	Encrypted Tunnels	Network Traffic Filtering	Inbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	
Stack Frame Anomaly Validation	System Configuration Permissions	System Configuration Permissions	System Update	System Configuration Permissions	System Configuration Permissions	TPM Boot Integrity	IP Traffic Analysis	Scheduled Job Analysis	Network Traffic Community Deviation	System Dissem Monitoring	System Call Filtering	Reverse Resolution IP Denylisting	Encrypted Tunnels	Network Traffic Filtering	Inbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	
Stack Frame Anomaly Validation	System Configuration Permissions	System Configuration Permissions	System Update	System Configuration Permissions	System Configuration Permissions	TPM Boot Integrity	Per Host Download/Upload Ratio Analysis	System File Analysis	Service Binaries Verification	System Ind Config Analysis	Reverse Resolution IP Denylisting	Encrypted Tunnels	Network Traffic Filtering	Inbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	
Stack Frame Anomaly Validation	System Configuration Permissions	System Configuration Permissions	System Update	System Configuration Permissions	System Configuration Permissions	TPM Boot Integrity	Protocol Metadata Anomaly Detection	Service Binaries Verification	System Ind Config Analysis	User Session Ind Config Analysis	Reverse Resolution IP Denylisting	Encrypted Tunnels	Network Traffic Filtering	Inbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	
Stack Frame Anomaly Validation	System Configuration Permissions	System Configuration Permissions	System Update	System Configuration Permissions	System Configuration Permissions	TPM Boot Integrity	Remote Terminal Session Detection	RPC Traffic Analysis	RPC Traffic Analysis	RPC Traffic Analysis	Reverse Resolution IP Denylisting	Encrypted Tunnels	Network Traffic Filtering	Inbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	Outbound Traffic Filtering	

# Ox07 Web Application Security

🛠 Your trust, in others hands

Database breaches may expose your credentials



\* From the Survey

<https://owasp.org/Top10/>

<https://portswigger.net/web-security>

<https://owasp.org/www-project-web-security-testing-guide/>

**Credential leaks are not your fault.**

# Ox08 Network Security

👾 Intruders on their way

**Phishing is the most common external, initial access vector.**

Windows systems are insecure by default - hardening and monitoring is important.

Segment your networks.

## **Example:**

1. The IPv6 is preferred over IPv4, but no-one controls it.
2. If no one controls the IPv6, then who is able to lease DHCPv6 IP's and become the DNS Man in the Middle controller?
3. Relay the creds over LDAP in order to create a delegated machine account.

**4. *Compromise the whole network***

**Credential leaks are not your fault.**

# Ox09 Authentication anatomy

👤 I am, I know, I have - the identity principle

## Standard good old passwords

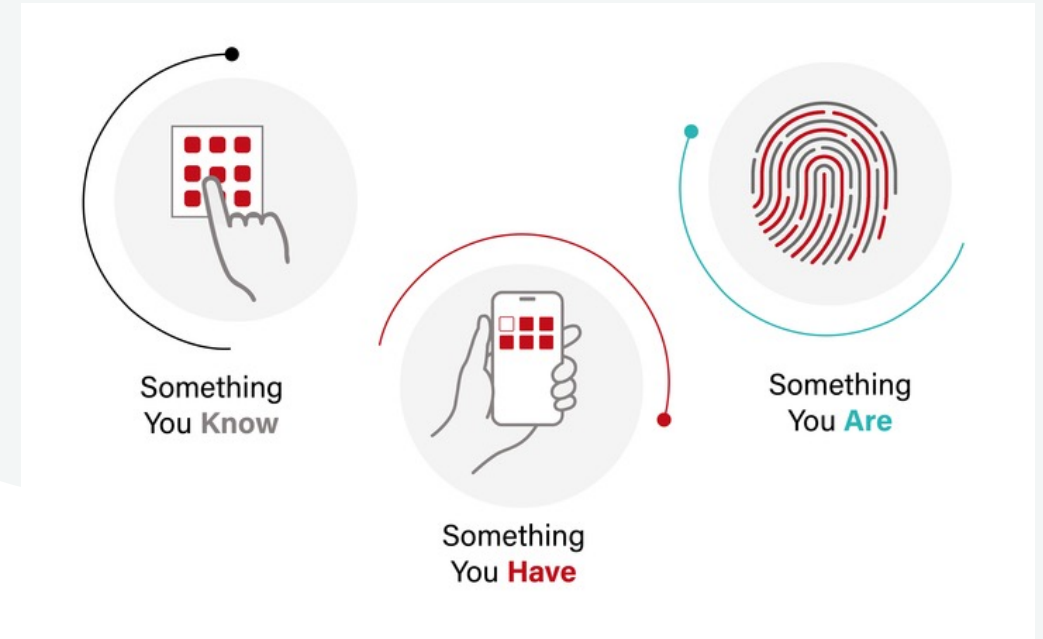
## Multi Factor Authentication

- SMS - GSM based - *not really secure*
- Apps - crypto based (Authy, Microsoft Authenticator)
- Bio-authentication

## Passwordless

- One Time Passwords
- Certificate-based authentication
- FIDO, U2F

<https://www.cloudradius.com/secure-authentication-without-multi-factor-authentication-mfa/>



**But how FIDO's really work?**



# Ox0A Proper password policy

★ Yes, your credentials will be found.

- **A good password consists of a sentence.**
- It should not contain dates, names, companies, cities and combinations of them.
- Use the quotes as an inspiration, not as an actual password.
- **Do not store credentials in plaintext on your desktop.**
- **Old e-mails may be able to reset your account passwords.**

**Change your passwords regularly** and ***avoid reusing them.***

Do not use passwords with less than 12 characters. The longer the better.

**The recommendation is to use longer passwords instead of special characters.**

**Use password management solutions, especially PAM's.**

## Bad password examples:

- Apple1!
- zaq1@WSX
- amelka123
- Marzec2024
- Cze\$tochowice123432!

## Good password examples:

- zielonyParkingDla3malychSamolotow
- DwaBialeLatajaceSophisticatedKroliki
- KrukiLasery\$DzikiJenoty2Rowery3Bajery
- DlaziKostekNaMostek/I\$tuka

<https://cert.pl/hasla>

<https://haveibeenpwned.com>

<https://pages.nist.gov/800-63-3/sp800-63b.html>

# Ox0B Cyber Threat Intelligence

*The 21st century intelligence operations lie in the internet*

- Monitoring the darknet
- Monitoring the telegram channels
- Monitoring the ongoing cyber-attacks.
- Monitoring the credential leaks
- Analyzing the intelligence data.
- Acquiring the intelligence data.

```
wka@o2.pl:Jasio321
@o2.pl:patrycja448
1978@o2.pl:Oskarek13
bek@o2.pl:22088
@o2.pl:Bo@rti12345
'a@o2.pl:barbara321
123@o2.pl:Smutny123456
@o2.pl:morda24
ski2007@o2.pl:maciejka
o2.pl:Z a2019$&@
eplay@o2.pl:alfabet312
66.1998@o2.pl:P4t0l0gi4?
.1999@o2.pl:hard123
i@o2.pl:Bagalan123
syria@o2.pl:Prosta16
998@o2.pl:mistic777
23@o2.pl:zzz1zzz
scy@o2.pl:dARIUSZ1G
cki@o2.pl:qwerfdsazxcv3e1dS10F23
any85@o2.pl:Xperiaj1
z1@o2.pl:Mariano123
@o2.pl:78122616850
2@o2.pl:Gg6028040Gg
aa112@o2.pl:msioamino01234
```

***Credentials reuse is a frequent cause of a compromise***



*I have become a ransomware victim. What do I do?*

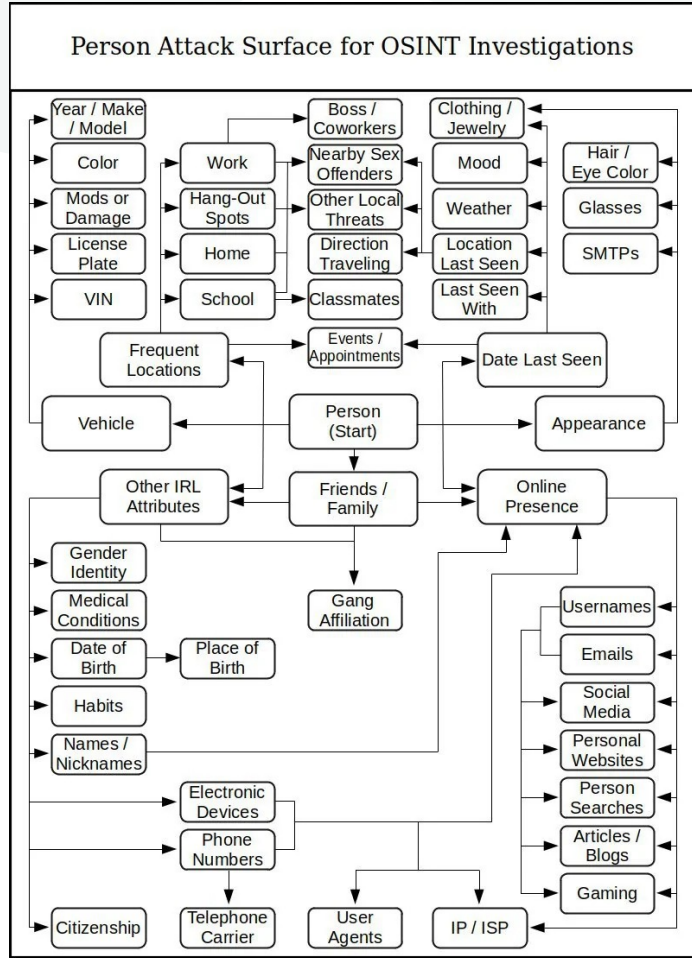
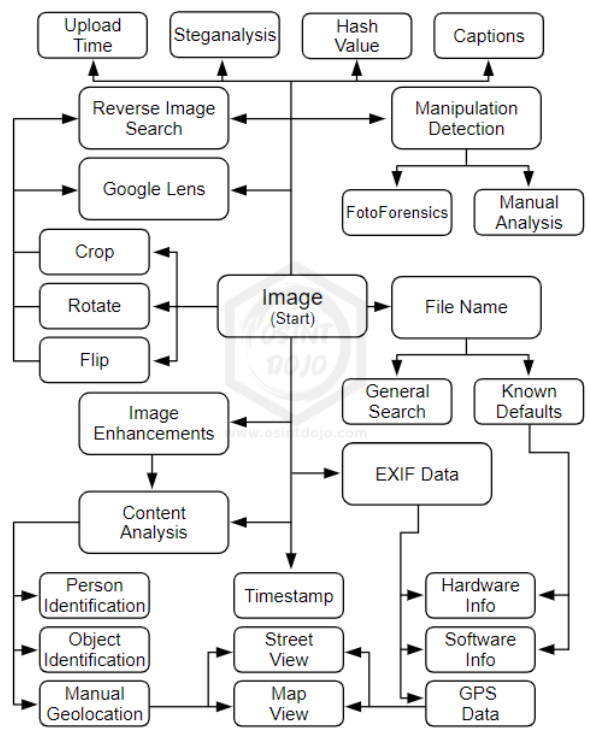
***Do not negotiate with terrorists.***

<https://www.nomoreransom.org/pl/index.html>



# OxOC Open Source Intelligence

Don't get stalked



## Where in the world is this place?

- Right-hand traffic
- Polish phone on a car
- Tier company scooter
- The woman is coming back from CCC store (bag)
- Railroad
- Skyscrapers in the back
- Park nearby
- Probable reverse roundabout sign

<https://map.snapchat.com/>

<https://www.osintdojo.com/diagrams/main>

<https://github.com/jivoi/awesome-osint>

# 0x0D VPN's don't make you totally anon

- VPNs may guard you from network attacks and open access to services closed for certain geolocation.
- VPN's don't make you all anonymous - all your privacy is in hands of a VPN provider.
- The ISP sees you connecting to a VPN.
- Beware the VPN entry point as an initial access vector to domain. **It is recommended to segment your network.**
- ***Free VPN's may sell your data***

# OxOE AV will not save the day

- AV is better than nothing
- Cyber threats and evasion techniques are constantly evolving
- Relying solely on AV's is no longer sufficient.
- Organizations must adapt multi-layered approach - Defense in Depth.
- Monitoring, Detecting, and Preventing is crucial.
- The attackers **will** find a way, that is their job.
- Let them have their job while the **DFIR blue team investigates** - deception, decoys, honeypots, threat hunting.
- What if AV gets trojanized?

<https://maldevacademy.com/>

<https://www.fortinet.com/resources/cyberglossary/defense-in-depth>

The screenshot shows a VirusTotal analysis for a file named 'Dll2.dll' (SHA256: abff84ade77b74e287b6c0eaa3787e1cd8eb26c74908d77bddb5410c0096d544). The file is 159.50 KB and was analyzed a moment ago. It has a community score of 5/71. A red banner indicates that 5 security vendors and no sandboxes flagged this file as malicious. The 'DETECTION' tab is active, showing a table of security vendors' analysis.

Security vendors' analysis	Do you want to automate checks?
Bkav Pro: W64.AIDetect/Malware	CrowdStrike Falcon: Win/malicious_confidence_90% (D)
Cynet: Malicious (score: 100)	MaxSecure: Trojan.Malware.300983.susgen
Trapmine: Suspicious.low.ml.score	Acronis (Static ML): Undetected
AhnLab-V3: Undetected	Alibaba: Undetected
ALYac: Undetected	Antiy-AVL: Undetected
Arcabit: Undetected	Avast: Undetected
AVG: Undetected	Avira (no cloud): Undetected
Baidu: Undetected	BitDefender: Undetected
BitDefenderTheta: Undetected	ClamAV: Undetected
CMC: Undetected	Cylance: Undetected
DeepInstinct: Undetected	DrWeb: Undetected
Elastic: Undetected	Emsisoft: Undetected
eScan: Undetected	ESET-NOD32: Undetected
F-Secure: Undetected	Fortinet: Undetected
GData: Undetected	Google: Undetected
Gridinsoft (no cloud): Undetected	Ikarus: Undetected
Jiangmin: Undetected	K7AntiVirus: Undetected
K7GW: Undetected	Kaspersky: Undetected
Kingsoft: Undetected	Lionic: Undetected

# OxOF Falling into a rabbit hole

## Win a bunny

1. **How** insecure is IoT?
2. **What** is the name of the ransomware group compromised by FBI lately?
3. **Is real-time** voice cloning possible?
4. **Name** one example of an internal threat.
5. **What** is the name of the proces of collecting, safeguarding, and analysis lifecycle of the criminal cyber-evidence?
6. **What** is the most common Web Application vulnerability class as of 2021?
7. **What** is the most common external initial access vector?
8. **Is** it worth it to segment the network?
9. **What** is an example of a good password?
10. **What** is cyber threat intelligence?

[Hello Security]



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[\\_baycode.eu](https://_baycode.eu)

# Ox10 Q&A

Ask me anything you want

# Ox11 Thank you

Presentation in PDF format is available on <https://news.baycode.eu>

*Meet me again at <https://wguisw.org>*