

**|VIAVIS|** střežíme podstatné

## Hackerem snadno a rychle

Analýza a bezpečnost dat

Vladimír Lazecký

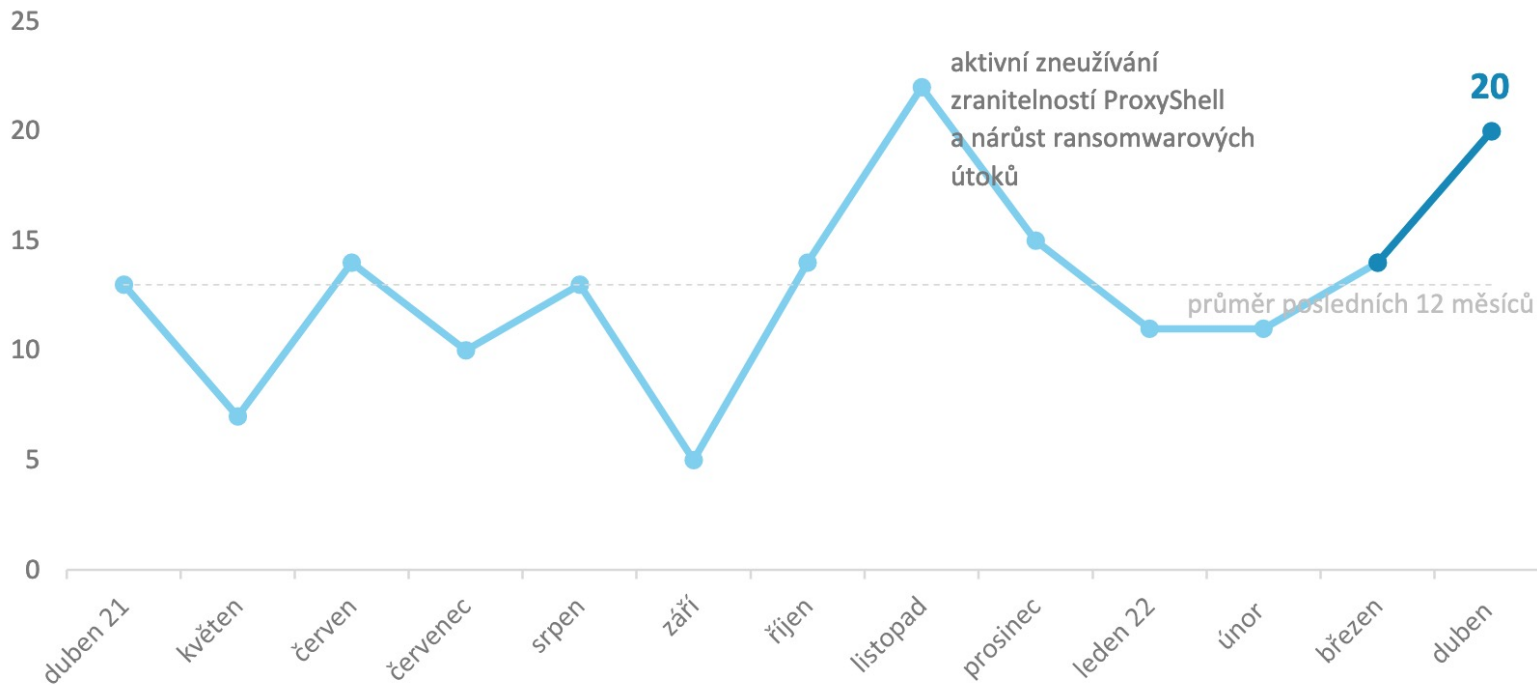
[vladimir.lazecky@viavis.cz](mailto:vladimir.lazecky@viavis.cz)

- ✓ OSINT – základní techniky a postupy
  - ✓ OSINT na osobu
  - ✓ OSINT na systém
  
- ✓ Forenzní analýza digitálních stop
  - ✓ Obecné principy a zásady – znalecké postupy
  - ✓ Zajištění digitálních stop u kybernetických incidentů

- ✓ Co to je OSINT?
- ✓ Proč OSINT?
- ✓ V čem je výhoda OSINT?

## Počet kybernetických bezpečnostních incidentů nahlášených NÚKIB

Duben se stal měsícem s druhým nejvyšším počtem incidentů za posledních dvanáct měsíců. Předčil jej pouze listopad, kdy docházelo k aktivnímu zneužívání zranitelností ProxyShell.<sup>1</sup>



[https://nukib.cz/download/publikace/vyzkum/2022-04\\_Kyberneticke\\_incidenty.pdf](https://nukib.cz/download/publikace/vyzkum/2022-04_Kyberneticke_incidenty.pdf)

Získ těchto informací slouží jako ideální stavební kámen pro další fáze průzkumu (tzv. reconnaissance), vytvoření operačních zdrojů nebo prvotní přístup do sítě oběti. Samotná technika se dále rozpadá do trojice sub-technik, jmenovitě T1589.001: Credentials, T1589.002: Email Addresses a T1589.003: Employee Names.

Velice podobnou technikou je T1589: Gather Victim Org Information. V té se útočníci zaměřují na zjištění fyzických lokací (např. infrastruktura), byznysové vztahy, zjištění tempa byznysu a identifikaci rolí.

**Mitigace:** Danou techniku nelze snadno mitigovat. Subjekty by se měly primárně zaměřit, aby minimalizovaly množství dat (primárně citlivých), která jsou externě dostupná, a tedy zneužitelná v rámci OSINT.

[https://www.nukib.cz/download/publikace/vyzkum/2022-09\\_Kyberneticke\\_incidenty.pdf](https://www.nukib.cz/download/publikace/vyzkum/2022-09_Kyberneticke_incidenty.pdf)



<https://ssd.eff.org/en/module-categories/tool-guides>

## SURVEILLANCE SELF-DEFENSE

### Tool Guides

Below are step-by-step tutorials to help you install and use handy privacy and security tools. Surveillance Self-Defense encourages you to think about online privacy and security in a sophisticated way. We want to give you the power to choose tools and habits that work for you. We suggest conducting a [threat modeling assessment](#) before moving on to the following install guides. Please note that the law and technology can change quickly, and portions of SSD can become out of date. Check EFF's Security Education blog for the latest news.



Platform ▾ Solutions ▾ Partners ▾ Company ▾ Learn ▾

Free Trial

Get a Demo

Log in

## 8 Passive OSINT Methods for Profiling Cybercriminals on the Dark Web

<https://flare.systems/learn/resources/blog/8-passive-osint-methods-for-profiling-cybercriminals-on-the-dark-web/>

- ✓ Řádový nárůst útoků
- ✓ Útoky vedené ručně
- ✓ U 90% útoků došlo k extrakci dat
- ✓ 50% obětí platilo výkupné
- ✓ V 99% případů si oběť o útok sama řekla



ZPRAVODAJSTVÍ OLK

Úvodní strana / Útvary Policie ČR / Krajská ředitels



**Policie České republiky – KŘP Olomouckého kraje**

## Kybernetický útok na Magistrát města Olomouce odložen

OLOMOUCKÝ KRAJ - Kriminalisté na případu spolupracovali i s Europolem.

Kriminalisté odboru analytiky a kybernetické kriminality Krajského ředitelství policie Olomouckého kraje odložili trestní věc podezření ze spáchání přečinu neoprávněný přístup k počítačovému systému a nosiči informací, týkající se napadení počítačové sítě Magistrátu města Olomouce z počátku dubna 2021, neboť se nepodařilo zjistit skutečnosti opravňující zahájit trestní stíhání vůči konkrétní osobě.

<https://www.policie.cz/clanek/kyberneticky-utok-na-magistrat-mesta-olomouce-odlozen.aspx>



✓ Zmatek, nefunkční BCP a DRP plány, priority

✓ Obnova 1:1

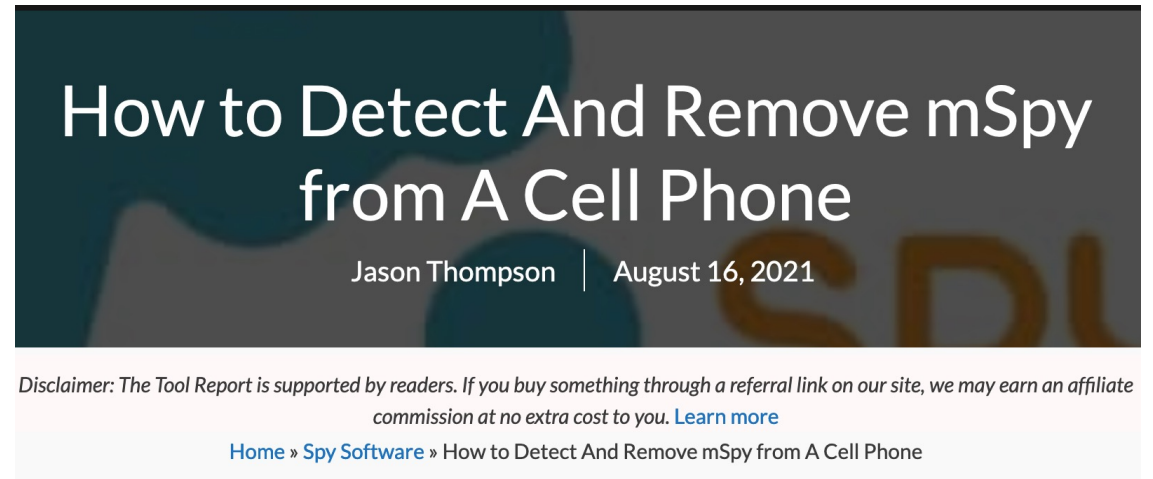
✓ **Nezajištění stop pro forenzní analýzu**

✓ Zaměstnanci a sociální sítě

✓ Naivní vyjednávání s útočníky

```
----- Your network has been infected! -----  
  
***** DO NOT DELETE THIS FILE UNTIL ALL YOUR DATA HAVE BEEN RECOVERED *****  
  
All your documents, photos, databases and other important files have been encrypted and have the extension: [REDACTED]  
You are not able to decrypt it by yourself. But don't worry, we can help you to restore all your files!  
The only way to restore your files is to buy our special software. Only we can give you this software and only we can restore your files!  
We have also downloaded a lot of private data from your network.  
If you do not contact us in 3 days we will post information about your breach on our public news website and after 7 days the whole downloaded info.  
You can get more information on our page, which is located in a Tor hidden network.  
  
How to get to our page  
-----  
1. Download Tor browser - https://www.torproject.org/  
2. Install Tor browser  
3. Open link in Tor browser - avaddonbotrxmuy1.onion  
4. Follow the instructions on this page  
-----  
Your ID: [REDACTED]
```

- ✓ Masivní nárůst útoků na osoby
- ✓ Po útlumu v Q1 opět růst útoků s extrakcí dat
- ✓ Cíle stále komunikují zranitelnosti
- ✓ **Využití OSINT – velmi efektivní pro plánování útoků**
  - ✓ OSINT = Open Source Intelligence



<https://www.thetoolreport.com/how-to-detect-and-remove-mspy-from-cell-phone/>

✓ *Kdo se již setkal s kyber útokem?*

✓ *Kdo je hacker?*

✓ *Kdo se pokoušel něco hacknout?*

✓ Motivace, výchozí znalosti minimální

✓ Vyhledávání zranitelností

✓ Identifikace cílů

✓ Databáze exploitů

✓ Zdroje:

✓ Otevřený internet

✓ Darknet

*Jen vědět, jak a kde hledat...*

## ✓ Otevřený internet

- ✓ Národní autority
- ✓ Open source databáze
- ✓ Placené databáze
- ✓ Zprávy v otevřených zdrojích
- ✓ Výrobci (rizika ZeroDay Vulnerability)



### Hackers Exploiting VMware Horizon to Target South Korea with NukeSped Backdoor

📅 May 20, 2022 👤 Ravie Lakshmanan

The North Korea-backed Lazarus Group has been observed leveraging the Log4Shell vulnerability in VMware Horizon...



### Hackers Trick Users with Fake Windows 11 Downloads to Distribute Vidar Malware

📅 May 19, 2022 👤 Ravie Lakshmanan

Fraudulent domains masquerading as Microsoft's Windows 11 download portal are attempting to trick users into...

<https://thehackernews.com/>

Doporučuji pravidelně sledovat



- General +
- Vulnerabilities +
- Vulnerability Metrics +
- Products +
- Developers +
- Contact NVD
- Other Sites +
- Search +



Understanding Vulnerability Detail Pages



Vulnerability Statuses

## Vulnerabilities

<https://nvd.nist.gov/vuln>



**CYBERSECURITY  
& INFRASTRUCTURE  
SECURITY AGENCY**



[cisa.gov/uscert](https://cisa.gov/uscert)

[Report Cyber Issue](#)

[Subscribe to Alerts](#)



## KNOWN EXPLOITED VULNERABILITIES CATALOG

[Download CSV version](#)

[Download JSON version](#)

[Download JSON schema](#)

[Subscribe to the Known Exploited Vulnerabilities Catalog Update Bulletin](#)

[Back to previous page for background on known exploited vulnerabilities](#)

Show  entries

Search:

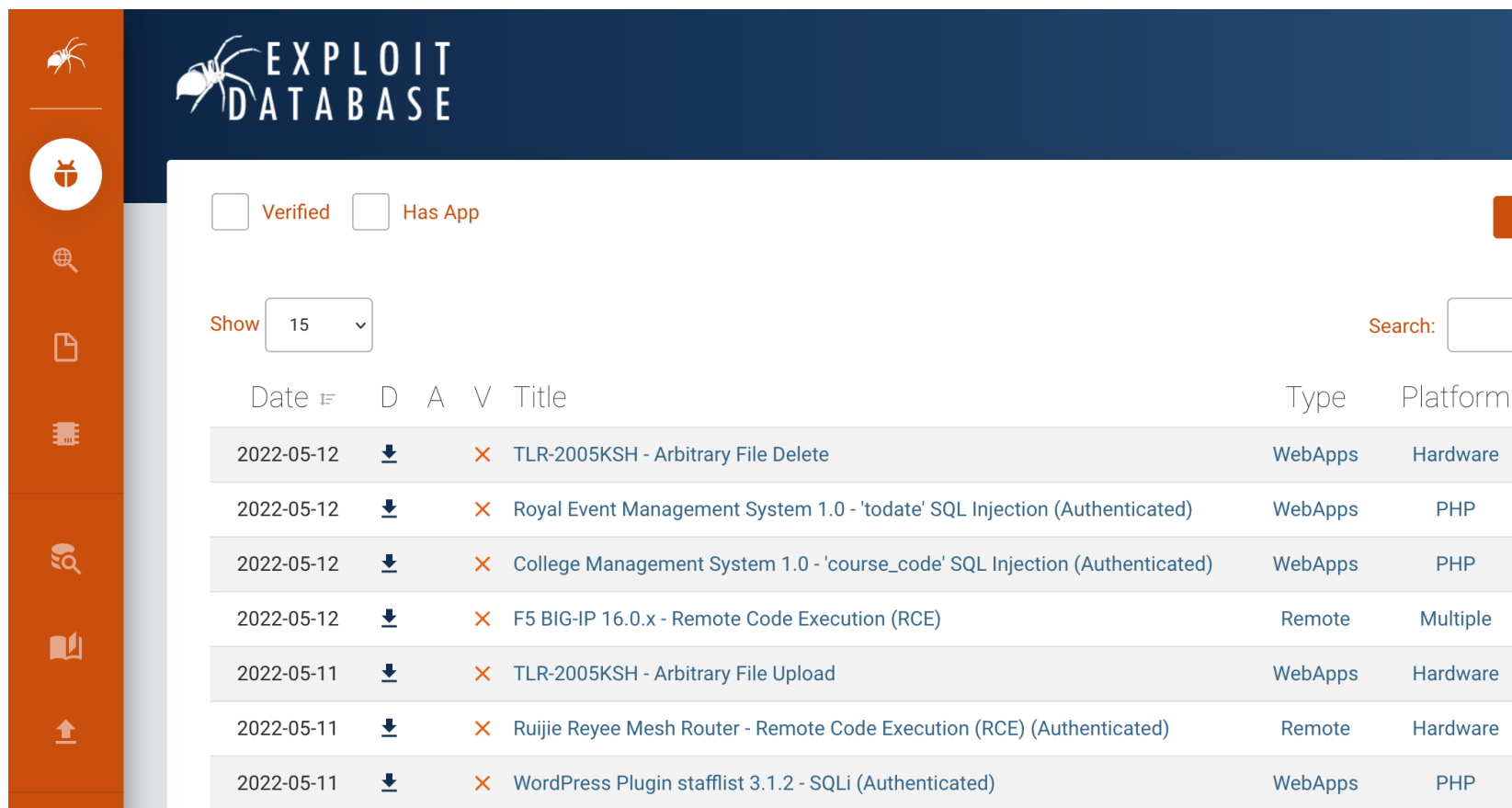
CVE	Vendor/Project	Product	Vulnerability Name	Date Added to Catalog	Short Description	Action	Due Date	Notes
-----	----------------	---------	--------------------	-----------------------	-------------------	--------	----------	-------

- ✓ Exploit = programový kód využívající zranitelnost
- ✓ Otevřený internet
  - ✓ Databáze exploitů
  - ✓ Open source databáze
  - ✓ Hackerská fóra



# Jak najít exploit – otevřený internet

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The screenshot displays the Exploit Database interface. At the top, there is a navigation bar with the site logo and name. Below the navigation bar, there are filter options for 'Verified' and 'Has App', both currently unchecked. A 'Show' dropdown menu is set to '15'. A search bar is located on the right side. The main content area features a table of exploits with columns for Date, Download status (D), Authentication status (A), Verification status (V), Title, Type, and Platform.

Date	D	A	V	Title	Type	Platform
2022-05-12	↓	×	×	TLR-2005KSH - Arbitrary File Delete	WebApps	Hardware
2022-05-12	↓	×	×	Royal Event Management System 1.0 - 'todate' SQL Injection (Authenticated)	WebApps	PHP
2022-05-12	↓	×	×	College Management System 1.0 - 'course_code' SQL Injection (Authenticated)	WebApps	PHP
2022-05-12	↓	×	×	F5 BIG-IP 16.0.x - Remote Code Execution (RCE)	Remote	Multiple
2022-05-11	↓	×	×	TLR-2005KSH - Arbitrary File Upload	WebApps	Hardware
2022-05-11	↓	×	×	Ruijie Reyee Mesh Router - Remote Code Execution (RCE) (Authenticated)	Remote	Hardware
2022-05-11	↓	×	×	WordPress Plugin stafflist 3.1.2 - SQLi (Authenticated)	WebApps	PHP

<https://www.exploit-db.com/>

- ✓ OSINT – vyhledání zranitelností – kamery HIKVISION
  - ✓ Zranitelnost z roku 2016
  - ✓ Vyhledání zranitelných systémů
  - ✓ Získání exploitu
  - ✓ Plošný/cílený útok



hikvision vulnerability list

<https://watchfulip.github.io> › Hikvis... ▾ Přeložit tuto stránku

## Unauthenticated Remote Code Execution (RCE) vulnera

Affected Model List — The majority of the recent camera product ranges of Hikv are susceptible to a critical remote unauthenticated code ...

<https://portswigger.net> › daily-swig ▾ Přeložit tuto stránku

## Zero-click RCE vulnerability in Hikvision security camera

20. 9. 2021 — A zero-click vulnerability in a popular IoT security camera could e unauthenticated attacker to gain full access to the device and ...

Související vyhledávání

Watchful\_IP>\_



*Security researching in the middle of the night.  
Focusing on ARM based embedded IoT*

# Unauthenticated Remote Code Execution (RCE) vulnerability in Hikvision IP camera/NVR firmware (CVE-2021-36260)

Published on 18 Sep 2021


> This article has been written for a technical audience.\_

Vulnerability discovered 20 June 2021

[Table of Contents:](#)

# Hurá na zranitelné systémy – kamery HIKVISION, kde jsou?

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SHODAN Explore Downloads Pricing [App-webs 2016 country:cz](#) 

TOTAL RESULTS

151

TOP CITIES

Prague	41
Nymburk	7
České Budějovice	7
Ostrava	6
Brno	5

[More...](#)

TOP PORTS

80	54
81	21
88	11
82	10

 View Report  View on Map

**New Service:** Keep track of what you have connected to the Internet. Check out [Shodan Monitor](#)

 **185.36.160.104** [↗](#)

IP-185-36-160-104.brouz  
uzdal.cz

[Brouzdal s.r.o.](#)



Czechia, Neratovice

HTTP/1.1 200 OK

Date: Tue, 17 May 2022 06:36:25 GMT

Server: **App-webs/**

ETag: "8e5-1e0-573af102"

Content-Length: 480

Content-Type: text/html

Connection: close


Last-Modified: Tue, 17 May 2016 10:22:58 GMT

Hikvision IP Camera:

Web Version: 4.0.1 build 160405

Plugin Version: 3.0.6.1

A...

 **80.78.137.208** [↗](#)

208.137.78.80.client.no  
rdic.tel

[Nordic Telecom](#)

HTTP/1.1 200 OK

Date: Tue, 17 May 2022 05:05:44 GMT

<https://www.shodan.io/search?query=App-webs+2016+country%3Acz>



## Hikvision IP Camera versions 5.2.0 - 5.3.9 (Builds 140721 < 170109) - Access Control Bypass

**EDB-ID:**      **CVE:**

44328            N/A

**EDB Verified:** ✘

**Author:**      **Type:**      **Platfor**      **Date:**

MATAMORPHOSIS      WEBAPPS           2018-03-23

```
# Exploit Title: Hikvision IP Camera versions 5.2.0 - 5.3.9 (Builds: 140721 - 170109) Backdoor
# Date: 15-03-2018
# Vendor Homepage: http://www.hikvision.com/en/
# Exploit Author: Matamorphosis
# Category: Web Apps
# Description: Exploits a backdoor in Hikvision camera firmware versions 5.2.0 - 5.3.9 (Builds:
deployed between 2014 and 2016, to assist the owner recover their password.
# Vulnerability Exploited: ICSA-17-124-01 - http://seclists.org/fulldisclosure/2017/Sep/23
```

```
#!/usr/bin/env python
# Usage: python exploit.py [IP Address] [Port] [SSL (Y/N)]
```

```
import requests
import re
import sys
```

<https://www.exploit-db.com/exploits/44328>

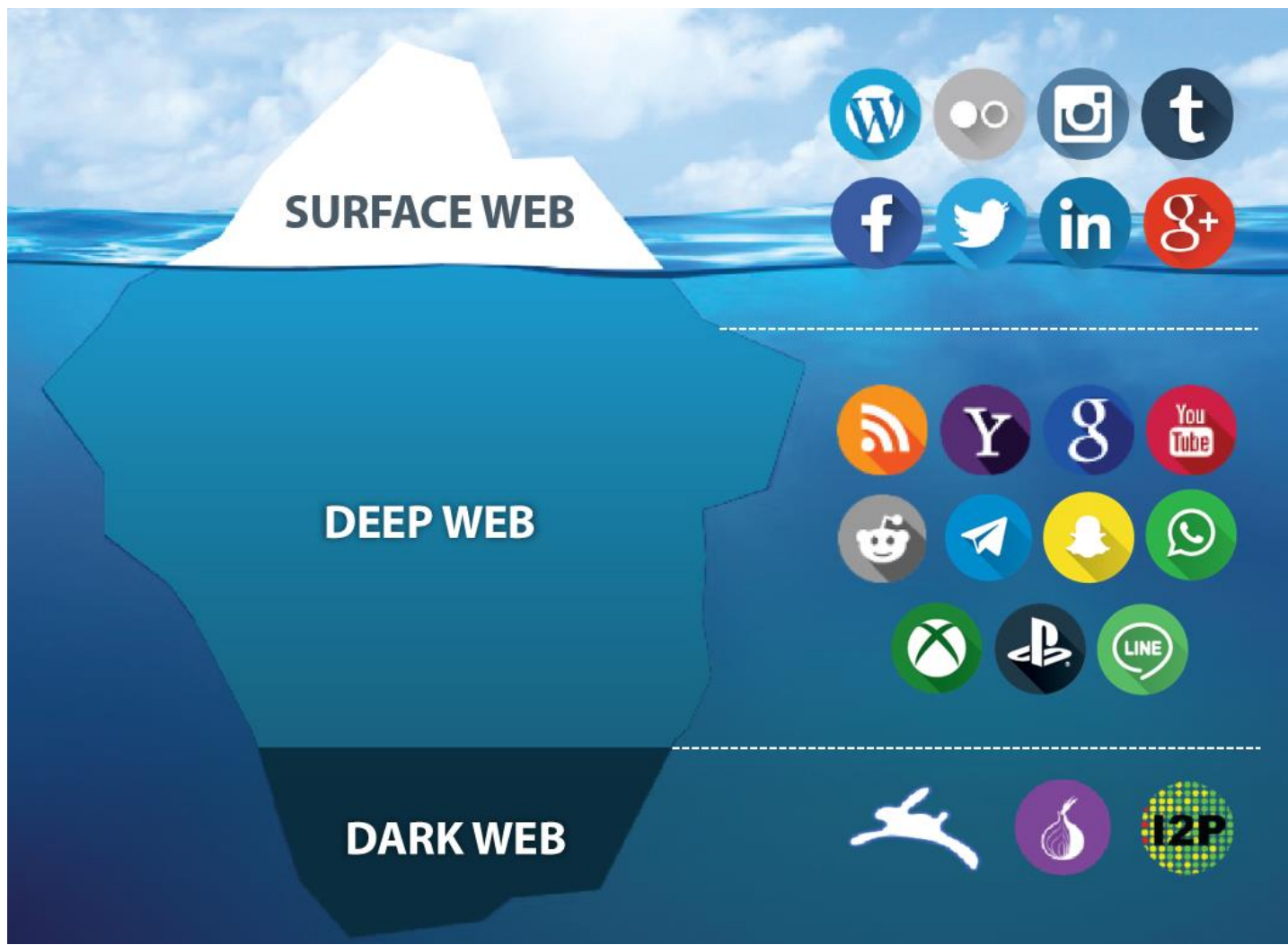


✓ Hádejte:

✓ *Proč je OSINT pro útočníky tak efektivní?*

✓ *Co je pro oběť incidentu při jeho zvládnání nejobtížnější?*

# Darknet a deepweb - nové možnosti



✓ Nedoporučuji zkoušet

Nestahovat

Neotevírat

Anonymita



**TheHidden.Wiki** TOR Onion Directory

## Verified Dark Web Links 2022

### Hidden Wiki

Hidden Wiki has been the directory for TOR onion links for the past decade, listing only verified dark web links.

Last Updated on **May 2022**.

Install TOR Browser from <http://torproject.org/>

Uncensored Hidden Wiki can be accessed using [wiki47qgn6tey4id7xeqb6l7uj6jueacxlqtk3adshox3zdohvo35vad.onion](http://wiki47qgn6tey4id7xeqb6l7uj6jueacxlqtk3adshox3zdohvo35vad.onion)

Take a minute and check our [scam list](#) to know more about [dark web scammers](#).

### Hidden Search Engines

- <http://oniondxjxs2mzjkbz7ldlflenh6huksestjsisc3usxht3wqgk6a62yd.onion/> – OnionIndex Search Engine
- <http://duckduckgogg42xjoc72x3sjasowoarfbgcmvfimaftt6twagswzczad.onion/> – DuckDuckGo Search Engine
- <http://3bbad7fauom4d6sgppalyqddsqb5u5p56b5k5uk2zxsy3d6ey2jobad.onion/> – OnionLand Search
- <http://tordexu73joywapk2txdr54jed4imqledpcvcuf75qsas2gwdgksvnyd.onion/> – tordex
- <http://xmh57jrknzkhv6y3ls3ubitzfgnkrwxhopf5aygthi7d6rplyvk3noyd.onion/> – Torch



## OnionLinks



### *OnionLinks*

Short .onion v2 websites will stop working in October 2021. Bookmark OnionLinks or [DARKWEBLINKS.COM](https://darkweblinks.com) for working v3 .onion sites!

#### **Navigation:**

[Introduction Points](#)

[Financial Services](#)

[Commercial Services](#)

[Drugs](#)

[Chans](#)

[Privacy Services](#)

[Email Providers](#)

[Blogs And Personal Sites](#)

[Hacking](#)

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[Open Source Software](#)

[Others](#)

## How it works



1. Buyer and Seller agree to terms



2. Buyer submits payment to Escrow



3. Seller delivers goods or service to buyer



4. Buyer approves goods or services



5. The Escrow releases payment to seller

## Organizations related to intel.com

### ORGANIZATION DETAILS

Host [intel.com](https://intel.com)

Name Intel

Contacts [2,868](#)

Documents [1,219](#)

Related [17,685](#) organizations. Wildcards ([\\*.org](#), [\\*.edu](#), [\\*.com](#), [\\*.gov...](#)) available.

[?](#) What this information means and where it comes from

Name	Site	<a href="#">Share of all intel.com contacts</a> ▼	<a href="#">Share of all related site contacts</a>	<a href="#">Affinity index</a>	Common contacts
1 <a href="#">International Business Machines</a>	<a href="https://us.ibm.com">us.ibm.com</a>	27.36%	14.88%	3	<a href="#">view</a>
2 <a href="#">Hewlett-Packard</a>	<a href="https://hp.com">hp.com</a>	23.55%	17.31%	2	<a href="#">view</a>
3 <a href="#">Army Knowledge Online (AKO)</a>	<a href="https://us.army.mil">us.army.mil</a>	17.49%	4.46%	79	<a href="#">view</a>
4 <a href="#">Qwest.net</a>	<a href="https://uswest.net">uswest.net</a>	17.21%	8.68%	32	<a href="#">view</a>
5 <a href="#">IEEE - Networking The World</a>	<a href="https://ieee.org">ieee.org</a>	16.08%	12.32%	8	<a href="#">view</a>
6 <a href="#">Cisco Systems</a>	<a href="https://cisco.com">cisco.com</a>	15.80%	16.79%	4	<a href="#">view</a>
7 <a href="#">Association for Computing Machinery (ACM)</a>	<a href="https://acm.org">acm.org</a>	15.37%	17.93%	12	<a href="#">view</a>
8 <a href="#">Microsoft</a>	<a href="https://microsoft.com">microsoft.com</a>	15.23%	7.63%	26	<a href="#">view</a>

## BlackHost

[Home](#) [Chat](#) [Donate](#) [Files Upload](#) [Hacker Game](#) [Mailer](#) [Pastebin](#) [Programs](#) [Search](#) [Services](#) [User](#) [Webmail](#) [Contact Me](#)

### Welcome to the Programs section

In this part of the website you can find lots of useful webservices.

---

#### Autoclicker

With [this](#) program you can set autoclicks with multiple options.

---

#### Bat to Exe

The [Bat to Exe](#) Converter is a program that enables you to easy convert batch files into executable files.

---

#### Email Bomber

With [this](#) software you can easily send hundred of mails in just some minutes!

---

#### File Crypter

[This](#) programs crypts files with a stub and with multiple options.

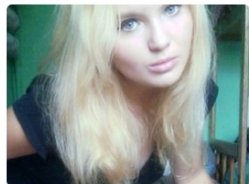
## DoX

Stolen identity. Humiliating photos. Blackmail. Stupid chicks and few guys 😏 All profiles apply only to adults. If you are one of the girls, and want your profile to be removed from the site, or you are a boyfriend, of one, of the girls and want to help her disappear from the network, please contact us using the contact form. For only \$ 1000 in BTC, your profile will be removed from this shop. Stay safe!

Default sorting ▾

Showing 1–15 of 55 results

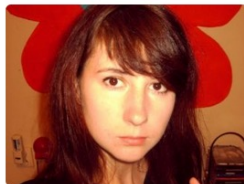
1 2 3 4 ▶



Adrianna Ba

\$3.00

Add to cart



Agnieszka C.

\$5.00

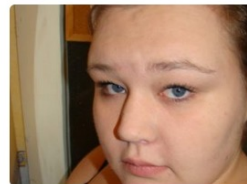
Add to cart



Agnieszka Kl.

\$3.00

Add to cart



Aleksandra Bo.

\$4.00

Add to cart



Aleksandra Sn.

\$6.00

Add to cart

# Jde i o osobní bezpečnost

Remote control the phone of someone else, most new models supported	700 USD = 0.02348 ₺	<input type="text" value="1"/> X <a href="#">Buy now</a>
Facebook and Twitter account hacking	500 USD = 0.01677 ₺	<input type="text" value="1"/> X <a href="#">Buy now</a>
Other social network account hacks, for example reddit or instagram	450 USD = 0.01510 ₺	<input type="text" value="1"/> X <a href="#">Buy now</a>
Full package deal, getting access to personal or company devices and accounts and searching for the data you need.	1800 USD = 0.06038 ₺	<input type="text" value="1"/> X <a href="#">Buy now</a>

	Product	Price	Quantity
DDOS for protected websites for 1 month	Destroying someones life: Your target will have legal problems or financial problems, proven methods including child porn that always works	1700 USD = 0.05703 ₺	<input type="text" value="1"/> X <a href="#">Buy now</a>
DDOS for unprotected websites for 1 month	Spreading false information about someone on social media, not as life ruining but still nasty	450 USD = 0.01510 ₺	<input type="text" value="1"/> X <a href="#">Buy now</a>
Hacking webservers, game servers or other internet infrastructure	Social engineering to get secrets from a person, private or from some employee	450 USD = 0.01510 ₺	<input type="text" value="1"/> X <a href="#">Buy now</a>
	Other social engineering work	500 USD = 0.01677 ₺	<input type="text" value="1"/> X <a href="#">Buy now</a>
	30 days full service, i will work 8 hours per day for 30 days only on your project	7500 USD = 0.25160 ₺	<input type="text" value="1"/> X <a href="#">Buy now</a>

# Pro představu...



Product	Price	Quantity
Czech ID Card	500 EUR = 0.01729 ₿	<input type="text" value="1"/> X <a href="#">Buy now</a>
Netherlands ID Card	550 EUR = 0.01902 ₿	<input type="text" value="1"/> X <a href="#">Buy now</a>
Denmark ID Card	550 EUR = 0.01902 ₿	<input type="text" value="1"/> X <a href="#">Buy now</a>



## Darknetlive

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[Home](#) / [Posts](#) / Paris: Versus Market Exploit “is Real”

## Paris: Versus Market Exploit “is Real”

~14 mins | Published by [Darknetlive](#) on 18 May, 2022 in [News](#) and tagged [Darkweb Markets](#) using 2948 words. | [16 Comments](#)

The Versus Market exploit is legitimate, Paris claimed.

A user on Dread (/u/threesixty) hacked Versus Market “in a time span of about 2 hours,” according to a post on the Versus subdread. “Please remove security driven from your website title. You are not security driven.”

### Hacked, you are not security driven

by [/u/threesixty](#) · 2 days ago\* in [/d/Versus](#)

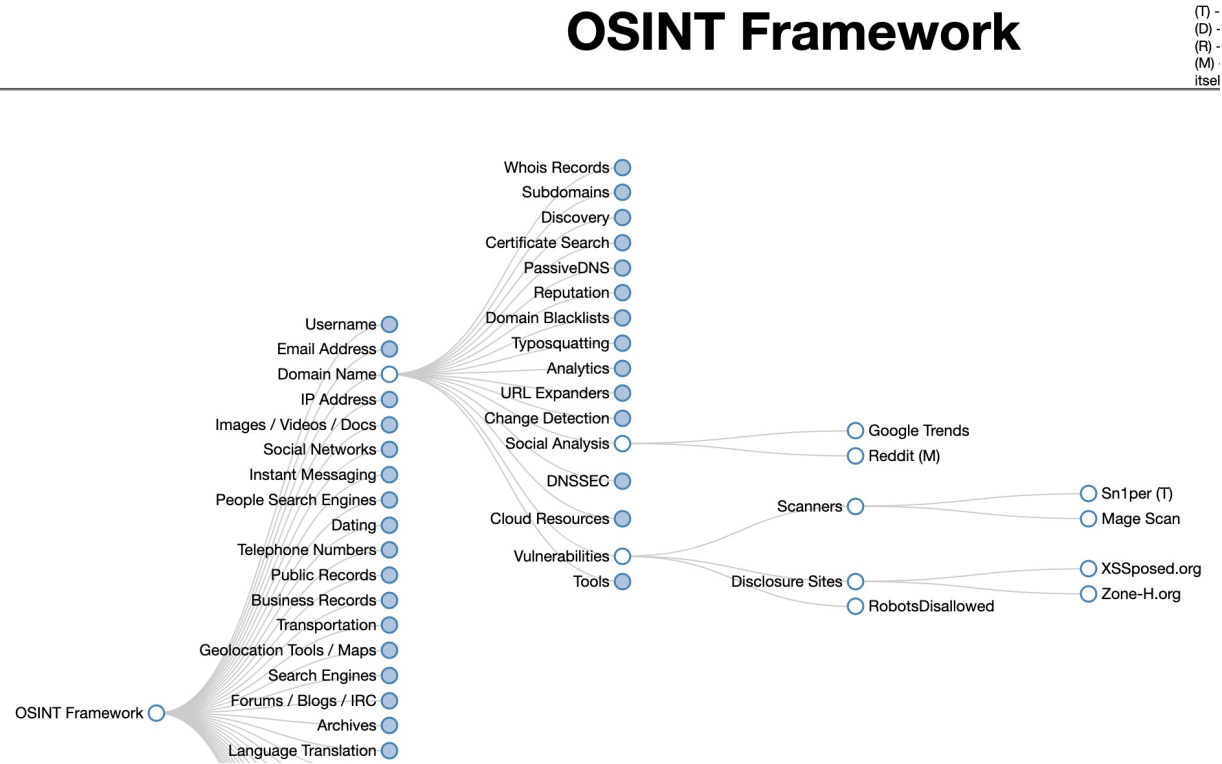
Please remove security driven from your website title. You are not security driven. Yes, I could probably just extort you or become a payoff for keeping quite about this, but no thank you. You can still pay me though.

This happened in a time span of about 2 hours. Think about what LE and advanced hackers might have done in the meantime.

- ✓ Útoky jsou dostupnější
- ✓ **Nepřítahovat pozornost**
  - ✓ Sledovat zranitelnosti
  - ✓ Odstraňovat je
  - ✓ Nekomunikovat je
- ✓ **OSINT jako nezbytná součást kyber bezpečnosti**
- ✓ **OSINT je součástí investigativní práce**

*Kdo si udělal na sebe/organizaci profesionální OSINT?*

- ✓ Bezpečnost organizace
  - ✓ Sledovat zranitelnosti - systematicky
  - ✓ Odstraňovat je
  - ✓ Nekomunikovat je
  
- ✓ Osobní bezpečnost
  - ✓ Digitální identita pod kontrolou
  - ✓ Digitální stopa pod kontrolou
  - ✓ Osobní zařízení pod kontrolou
  - ✓ OSINT, OSINT, OSINT...



- ✓ Vydírání s využitím extrakce dat
- ✓ Phishing a vishing
  - ✓ Využití digitální identity a známého hesla
  - ✓ Znalost spojení osoba(organizace)/banka
- ✓ Přesměrování plateb
  - ✓ Zdroj = registr smluv
  - ✓ Cílené reputační útoky
  - ✓ **Český jazyk – pomalu ztrácí svou výhodu**



Emily Stamm  · Mar 8, 2021 · 5 min read



## A Beginners Guide to OSINT

OSINT - Open Source Intelligence that refers to a collection of data/information by exploiting publicly available resources. It is used for digital intelligence and investigation process that uses cyber tools to find strategic information in open sources that are obtained legally and ethically.

<https://www.csnp.org/post/a-beginners-guide-to-osint>



I-INTELLIGENCE

## OPEN SOURCE INTELLIGENCE TOOLS AND RESOURCES HANDBOOK

<https://i-intelligence.eu/>

✓ **Vyberte si oběť**

✓ MS Kraj...

✓ Vymyslete, jak zaútočíte

✓ **Prezentujte**

Prostor pro vaše dotazy...

# Děkujeme za pozornost

- Vladimír Lazecký