

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern, layered effect. The shapes are positioned on the left and right sides of the slide, framing the central text.

# OSINT

Beware. Your data is out there

# OSINT - Open-source intelligence

## Digital Footprint

- ▶ Open-source intelligence (OSINT) is the collection and analysis of data gathered from open sources (overt and publicly available sources) to produce actionable intelligence. ([Wikipedia](#))
- ▶ Digital Footprint
- ▶ Privacy vs Publicly available information

# Disclaimer

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# Laws

- ▶ Diário República Eletrónico ([link](#))
- ▶ ANACOM ([link](#))
- ▶ CNCS – Centro Nacional de Cibersegurança
  - ▶ Notificação de Incidentes
  - ▶ CERT.PT ([link](#))
- ▶ Unidade Nacional de Combate ao Cibercrime e à Criminalidade Tecnológica (UNC3T) ([link](#))
- ▶ Ministério Público ([link](#))

# Who Am I

- ▶ Pedro António Oliveira Vieira
- ▶ Google ([link](#))
- ▶ YouTube ([link](#))
- ▶ LinkedIn ([link](#))
- ▶ Certified Ethical Hacker ([link](#))
  
- ▶ This presentation is not employee related



# Search Engines

## Internet is more than Google

- ▶ Search yourself and check the results
- ▶ Google ([link](#))
- ▶ Bing ([link](#))
- ▶ Yahoo ([link](#))
- ▶ Ask ([link](#))
- ▶ DuckDuckGo ([link](#))
- ▶ Baidu (China) ([link](#))
- ▶ Yandex (Russia) ([link](#))
- ▶ Different search engine → different rules/crawlers → different results

# Google Dorks

## Commonly used searches

- ▶ Google Advanced Search ([link](#))
- ▶ Google Hacking Database ([link](#))
- ▶ gbhackers ([link](#))
- ▶ google-dork-list ([link](#))
- ▶ Google Guide ([link](#))
- ▶ Google Guide ([link](#))

# Search operators

## Improve the search

- ▶ **filetype:** search your results based on the file extension
- ▶ **cache:** This operator allows you to view cached version of the web page.
- ▶ **allinurl:** This operator restricts results to pages containing all the query terms specified in the URL.
- ▶ **inurl:** This operator restricts the results to pages containing the word specified in the URL
- ▶ **allintitle:** This operator restricts results to pages containing all the query terms specified in the title.
- ▶ **link:** This operator searches websites or pages that contain links to the specified website or page.
- ▶ **info:** This operator finds information for the specified web page.
- ▶ **location:** This operator finds information for a specific location.
- ▶ **42 Advanced Operators** ([link](#))



# Search

## Dork Examples

- ▶ Google Search ([link](#))
- ▶ `recibo vencimento -brasil filetype:pdf inurl:wp-content`
  - ▶ `recibo` - keyword to look for
  - ▶ `vencimento` - keyword to look for
  - ▶ `-brasil` – keyword to ignore
  - ▶ `filetype:pdf` - only pdf files
  - ▶ `inurl:wp-content` – only inside wordpress sites
- ▶ Available information on receipts
  - ▶ Full name, address, nif, nib, marital status, children number, ...

# Search Dork Examples

- ▶ Google Search ([link](#))
- ▶ “hacked by” site:pt
  - ▶ “hacked by” - keyword to look for
  - ▶ site:pt - only “portuguese” sites (registered portuguese domains)
- ▶ About 5350 results
  - ▶ Sites / pages that were “tagged” / “signed”
  - ▶ Attack and contents changed to show off skills (mainly kids) – compared to street tagging

# Passwords / Credentials

## Please don't share

- ▶ Kaspersky
  - ▶ Check your password ([link](#)) (**or maybe not**)
  - ▶ Check last name – “vieira” or “Vieira” or “Vieira123”
- ▶ Top 10 passwords
  - ▶ “qwerty”, “password”, ...
  - ▶ Country specific: BR example “password” → “senha”
- ▶ Daniel Miessler SecLists
  - ▶ Usernames ([link](#))
  - ▶ Passwords ([link](#))
  - ▶ Default Credentials ([link](#))

# Databreach

## Is not a thing of the past

- ▶ Troy Hunt
  - ▶ HaveIBeenPwned ([link](#))
  - ▶ Pwned websites ([link](#))
- ▶ Ashley Madison Breach 2015 ([link](#))
  - ▶ When private data gets public
- ▶ Piracy - Subtitles
  - ▶ Don't think you can hide – **Illegal activities are tracked**
- ▶ Companies are leaking all your information
  - ▶ Compromised data: Dates of birth, Email addresses, Employers, Family structure, Genders, Income levels, Living costs, Marital statuses, Mothers maiden names, Names, Phone numbers, Physical addresses, Places of birth, Religions, Spouses names

# Databreach

## Company credentials ?

- ▶ Source
  - ▶ Publicly available list of credentials
  - ▶ More than 10k credentials just for Bosch
- ▶ Information gathered
  - ▶ Rule of email/login
    - ▶ (FirstName.LastName)@(Country).(company).com
  - ▶ Rule of password complexity
  - ▶ List of users
    - ▶ Phishing campaigns
    - ▶ Brute force
    - ▶ Look for those users on Social Media
- ▶ Added Problem
  - ▶ Credentials reuse

Email/Login	Password
data/m/i/c:michele@de.bosch.com	\$HEX[576569c3
data/m/i/c:michele@de.bosch.com	er@de.bosch.com:weißer
data/m/i/c:michele@de.bosch.com	zkus@de.bosch.com:shannon
data/m/i/c:michele@de.bosch.com	tke@bosch.com:lumpi007
data/m/i/c:michele@de.bosch.com	der@de.bosch.com:a6fc6b19
data/m/i/c:michele@de.bosch.com	z4@de.bosch.com:jaguar
data/m/i/c:michele@us.bosch.com	@us.bosch.com:ultra06
data/m/i/c:michele@cz.bosch.com	@cz.bosch.com:micsis
data/m/i/c:michele@lluk.bosch.com	lluk.bosch.com:frances
data/m/i/c:michele@bosch.com	@bosch.com:petros69
data/m/i/c:michele@us.bosch.com	us.bosch.com:mike5920
data/m/i/c:michele@n@us.bosch.com	n@us.bosch.com:radar123
data/m/i/c:michele@om@us.bosch.com	om@us.bosch.com:2af415a2174b1
data/m/i/c:michele@om@us.bosch.com	om@us.bosch.com:hardrock
data/m/i/c:michele@rger@za.bosch.com	rger@za.bosch.com:mike123
data/m/i/c:michele@cn.bosch.com	cn.bosch.com:Mikomido
data/m/i/c:michele@us.bosch.com	@us.bosch.com:bulldog3120
data/m/i/c:michele@de.bosch.com	@de.bosch.com:maccaroni
data/m/i/c:michele@mann@de.bosch.com	mann@de.bosch.com:\$HEX
data/m/i/c:michele@mann@de.bosch.com	mann@de.bosch.com:asdfjk18
data/m/i/c:michele@mann@de.bosch.com	mann@de.bosch.com:asdfjk1r
data/m/i/c:michele@comcast.net	comcast.net:mojopapa
data/m/i/c:michele@comcast.net	comcast.net:mojopapal
data/m/i/c:michele@s.bosch.com	s.bosch.com:bogey
data/m/i/c:michele@cz.bosch.com	cz.bosch.com:koqugeti
data/m/i/c:michele@cz.bosch.com	cz.bosch.com:wunazaqu
data/m/i/c:michele@zak@pl.bosch.com	zak@pl.bosch.com:igi74mick77
data/m/i/c:michele@z.bosch.com	z.bosch.com:hygokibu
data/m/i/c:michele@fr.bosch.com	@fr.bosch.com:CHOISNE
data/m/i/c:michele@be.bosch.com	@be.bosch.com:elsclaes
data/m/i/c:michele@de.bosch.com	de.bosch.com:janlasse79
data/m/i/c:michele@nl.bosch.com	nl.bosch.com:Killer1
data/m/i/c:michele@ey@us.bosch.com	ey@us.bosch.com:leander65
data/m/i/c:michele@r.bosch.com	r.bosch.com:ro67vsh5
data/m/i/c:michele@nte@it.bosch.com	nte@it.bosch.com:michele
data/m/i/c:michele@lli@us.bosch.com	lli@us.bosch.com:radica4
data/m/i/c:michele@de@br.bosch.com	de@br.bosch.com:mls2g3a4
data/m/i/c:michele@hi@br.bosch.com	hi@br.bosch.com:Talita
data/m/i/c:michele@br.bosch.com	@br.bosch.com:Orquideas1

# Databreach

## Portuguese domain examples (2018)

- ▶ uminho.pt - Universidade do Minho
- ▶ adv.oa.pt - Ordem dos Advogados
- ▶ pj.pt - Policia Judiciária
- ▶ mail.exercito.pt - Exército
- ▶ cm-braga.pt - Câmara Municipal de Braga
- ▶ cm-guimaraes.pt - Câmara Municipal de Guimarães
- ▶ psd.pt - Partido Social Democrata
- ▶ ps.pt - Partido Socialista
- ▶ fcporto.pt - Futebol Clube do Porto
- ▶ min.justiça - Ministério da Justiça
  
- ▶ Were these the sources for criminal “hacker” Rui Pinto ?

# OSINT

## OSINT Framework

► <https://osintframework.com/>



# OSINT

## Profiling

- ▶ What's my IP? ([link](#))
- ▶ Ip2Location ([link](#))
- ▶ Mylocation ([link](#))
- ▶ VPN
  - ▶ ProtonVPN, ...
- ▶ Facebook
  - ▶ StalkFace ([link](#))
  - ▶ Sowdust Github ([link](#))
  - ▶ IntelligenceX Facebook Search ([link](#))
  - ▶ Formulas for Searching Facebook ([link](#))



# OSINT

## Profiling

- ▶ Mobile (how long have you been using the same number)
  - ▶ Sync me ([link](#))
- ▶ Usernames (you reuse usernames)
  - ▶ NameChk ([link](#))
  - ▶ WhatsMyName ([link](#))
  - ▶ NameCheckup ([link](#))
- ▶ Twitter
  - ▶ Twitter Advanced Search ([link](#))
- ▶ New tools are always being created

# OSINT

## Profiling - Professional

- ▶ LinkedIn ([link](#))
- ▶ Xing ([link](#))
- ▶ Company Information
  - ▶ Technologies described in job adds (leaking information)
- ▶ Professional information phishing
  - ▶ Fake job adds (Is this a thing?)
- ▶ Curriculum Vitae
  - ▶ Sending CV with too much information – what is too much 😊
  - ▶ Home address – Street View

# OSINT

## (Reverse) Image search

- ▶ One image is worth 1000 words, maybe more.
- ▶ Google Images ([link](#))
- ▶ Bing Images ([link](#))
- ▶ Yahoo Images ([link](#))
- ▶ TinEye ([link](#))
- ▶ Yandex ([link](#))
- ▶ The professionals ([link](#))



# OSINT Maps

- ▶ Google Maps ([link](#))
- ▶ Bing Maps ([link](#))
- ▶ Wikimapia ([link](#))
  
- ▶ Tips, Tricks and Techniques ([link](#))



# OSINT

## Street View

- ▶ Google Street View ([link](#))
  - ▶ Identify house by address
  - ▶ Assess security (cameras, fences, ...)
  - ▶ Parked cars (timeline, ...)
  - ▶ People's habits/routines, timetables, ...
- ▶ View the past – timeline ([link](#))
- ▶ Instant Street View ([link](#))



# OSINT - Photos

## Lots of Information

- ▶ Where was this image taken?
  - ▶ Have you been there?
- ▶ When?
  - ▶ Date stamp on photo
  - ▶ Filename with date
  - ▶ Metadata
- ▶ What else?
- ▶ Image search




# OSINT - Photos Metadata

- Metadata
- GPS ([link](#))

**exifdata**

**SUMMARY**  
**DETAILED**  
**LOCATION**  
**UPLOAD**

IMG\_20190223\_163027.jpg



(click for original)

**Camera**  
Xiaomi Redmi 3

**GPS Position**  
40.989952 degrees N, 7.395051 degrees W

**Date of Creation**  
2019:02:23 16:30:27

**Resolution**  
4160x3120

**SUMMARY**

Make	Xiaomi
Model	Redmi 3
Aperture	2
Exposure Time	1 / 1506 (0.00066401062416999 sec)
Focal Length	4.2 mm
Flash	Auto, Did not fire
File Size	1447 kB
File Type	JPEG
MIME Type	image/jpeg
Image Width	4160
Image Height	3120
Encoding Process	Baseline DCT, Huffman coding
Bits Per Sample	8
Color Components	3
X Resolution	72
Y Resolution	72
YCbCr Sub Sampling	YCbCr4:2:0 (2 2)
YCbCr Positioning	Centered
Exposure Program	Not Defined
Date and Time (Original)	2019:02:23 16:30:27
Metering Mode	Center-weighted average
Color Space	sRGB
Exposure Index	140
Sensing Method	Unknown (0)
Exposure Mode	Auto
Focal Length In 35 mm Format	0 mm
Scene Capture Type	Standard
Gain Control	Low gain up
ISO	100
Compression	JPEG (old-style)

# Search Geolocation

- ▶ Digital Cameras/Mobile Phones
  - ▶ Metadata
  - ▶ Geolocation
  - ▶ Camera Model
  - ▶ ...
- ▶ Breasts lead to arrest of Anonymous hacker ([link](#))
  - ▶ Police allege that an Anonymous hacker posted a picture of his presumed girlfriend's breasts as a taunt to U.S authorities. The picture allegedly contained GPS information that led the FBI to her.



# Search

## Satellite View

- ▶ Zoom Earth ([link](#))
- ▶ Satelites Pro ([link](#))
- ▶ World Imagery ([link](#))
  - ▶ Wayback ([link](#))
  - ▶ Wayback example ([link](#))
- ▶ View the past - timeline



# Helping Tools Safety

- ▶ VirusTotal
  - ▶ Check received files ([link](#)) (**don't upload Personal or company related information**)
- ▶ Netcraft
  - ▶ Sitereport ([link](#))
- ▶ Credit Card Shopping
  - ▶ Virtual Card
    - ▶ Mbnet
    - ▶ Revolut
    - ▶ PayPal

# Helping Tools Privacy

- ▶ Temporary Email
  - ▶ 10 minute email ([link](#))
  - ▶ 20 minute email ([link](#))
- ▶ Disposable Email
  - ▶ 60 minute email ([link](#))
- ▶ Internet Access (DarkWeb included)
  - ▶ Tor ([link](#))
  - ▶ Tails ([link](#))

# Helping Tools

## Reverse Tracking

- ▶ Gmail Plus Address
- ▶ So what is a Gmail Plus address? Say you have an email address like `billgates@gmail.com`. If you append a “plus” sign to your email username, Gmail will ignore anything written between the + and @ sign in the email address and still deliver the message to the same mailbox.
- ▶ So any email address sent to `billgates+microsoft@gmail.com` or `billgates+blog@gmail.com` or `billgates+website@gmail.com` will still reach the Gmail inbox of `billgates@gmail.com` inbox though, technically, they are three different email aliases.
- ▶ <https://www.labnol.org/internet/email/gmail-email-alias-two-separate-gmail-address/2388/>

# Deadly Social Media

## The Final Hours of Pop Smoke

- ▶ Rapper Pop Smoke Murdered in Home Invasion ... By 4 Masked Gunmen ([link](#))
- ▶ Instagram Posts
  - ▶ Location Tag
- ▶ Geolocation
  - ▶ Reverse Image
- ▶ Google Maps
  - ▶ Local Recon
- ▶ Airbnb/Zillow (Rent/Real-estate)
  - ▶ House photos (Outside and Inside)
  - ▶ Layout
- ▶ YouTube Video: The Cyber Mentor ([link](#))

# OSINT

## Personal Information

- ▶ Posted information can get publicly and world available
  - ▶ Even private profiles can have their data shared by others
- ▶ When information is posted
  - ▶ Shows where you are at that time (habits & routines)
- ▶ Information on the picture
  - ▶ Metadata
  - ▶ Geolocation
- ▶ Awareness.
  - ▶ What do we teach our kids? Do we teach ?
  - ▶ They are exposed to everyone on the internet.



# Awareness

## True stories

- ▶ Someone posted a photo of healthy meal
  - ▶ Laptop in background: Zoomed in and read emails
  - ▶ Social Media uses OCR. They also read the emails
- ▶ I once posted picture on social media while on trip
  - ▶ My friends knew I was not home (**Not public profile. At least I think it is not**)
  - ▶ Friends on that location called me on the phone
- ▶ Buying book (Buyer's card information)
  - ▶ How I was able to get money just by having the right information
- ▶ Social Media accounts
  - ▶ If you don't have Facebook, I can create one in your name and call your friends

# OSINT

## Portugal - Public contracts

- ▶ Base ([link](#))
- ▶ Example ([link](#))
- ▶ PDF of contract with PII strikethrough ([link](#))
  - ▶ Open with pdf reader and delete the strikethrough boxes
  - ▶ Name of employee who edited the document
    - ▶ Information on UA, LinkedIn, Facebook, ...
  - ▶ Metadata: "KONICA MINOLTA bizhub C454"
- ▶ Information leaked
  - ▶ Full Names, nif, addresses



# OSINT

## Portugal - Vehicle Information

- ▶ Automóvel On-line ([link](#))
- ▶ Certidão Permanente Automóvel ([link](#))
  - ▶ License Plate : “01-EF-34”
  - ▶ Result
    - ▶ Brand: MERCEDES-BENZ
    - ▶ VIN: WDD2040081A043326
  - ▶ Example ([link](#))
- ▶ Vehicle Information ([link](#))
  - ▶ Example ([link](#))
  - ▶ Information: Brand, Model, Location, Paint, Delivery Date, Extras, ...
- ▶ Hack accross the globe by VIN ([link](#))

# OSINT

## Portugal - Insurance Information

- ▶ ASF – Autoridade de Supervisão de Seguros e Fundos de Pensões ([link](#))
  - ▶ Example ([link](#))
    - ▶ License Plate : “01-EF-34”
    - ▶ Date : “03-07-2022”
  - ▶ Example 2 ([link](#))
    - ▶ License Plate : “01-EF-34”
    - ▶ Date : “03-07-2012”
- ▶ Insurance Company
  - ▶ Current and Past
  - ▶ Length of the contract
  - ▶ Insurance policy number

# OSINT

## Portugal Specific

- ▶ Registo Predial Online ([link](#))
- ▶ DGES - Direção-Geral de Ensino Superior ([link](#))
- ▶ DRE - Diário da República ([link](#))
  - ▶ Search DRE ([link](#))
- ▶ Finanças - Penhorados ([link](#))
  - ▶ Example ([link](#))
  - ▶ Search Penhorados – ([link](#))
- ▶ Ministério da Justiça - Penhorados ([link](#))
- ▶ Plataforma Eletrónica de Compras (Administração Pública) ([link](#))
  
- ▶ Leaked information:
  - ▶ Full Names, Addresses, NIF, Company, Marital Status, ...

# Wayback Machine

## Internet in the past

- ▶ Wayback Machine ([link](#))
- ▶ Archive.is ([link](#))
- ▶ Cached Pages ([link](#))
- ▶ Cached View ([link](#))
- ▶ OldWeb.Today ([link](#))
- ▶ Time Travel ([link](#))

# Shodan

## Internet of Things

- ▶ Search Engine for Internet Of Things
- ▶ Explore
  - ▶ Shodan explore ([link](#))
- ▶ Images
  - ▶ Shodan images ([link](#))
- ▶ Maps
  - ▶ Shodan maps ([link](#))
- ▶ Internet Exposure Observatory
  - ▶ Exposure Dashboard ([link](#))



# Shodan

## Internet of Things

- ▶ Remote Desktop ([link](#))
  - ▶ Total results: 3,482,756
  - ▶ Braga ([link](#))
- ▶ Images
  - ▶ Braga ([link](#))
  - ▶ VNC Remote Access and Loggedin ([link](#))
- ▶ Authentication Disabled
  - ▶ Portugal ([link](#))
  - ▶ Primavera ([link](#))
- ▶ Contabilidade ([link](#))

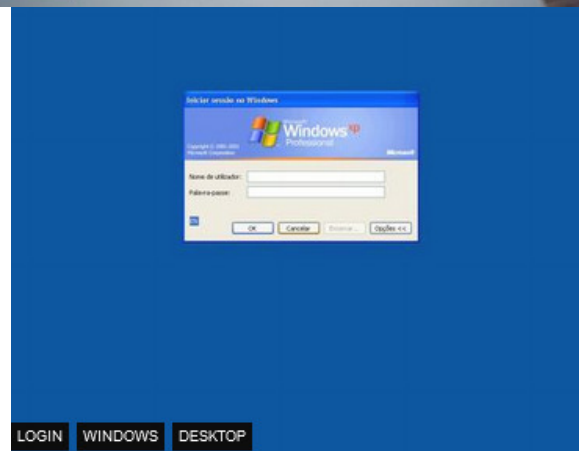
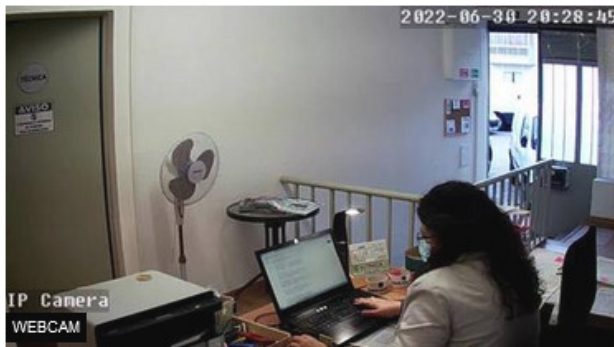
# Shodan

## Internet of Things

- ▶ Fotos
  - ▶ Portugal ([link](#))
- ▶ IP Cameras
  - ▶ Portugal ([link](#)) (default credentials?)
  - ▶ **Webcams** ([link](#))

# Shodan

## Internet of Things - Images

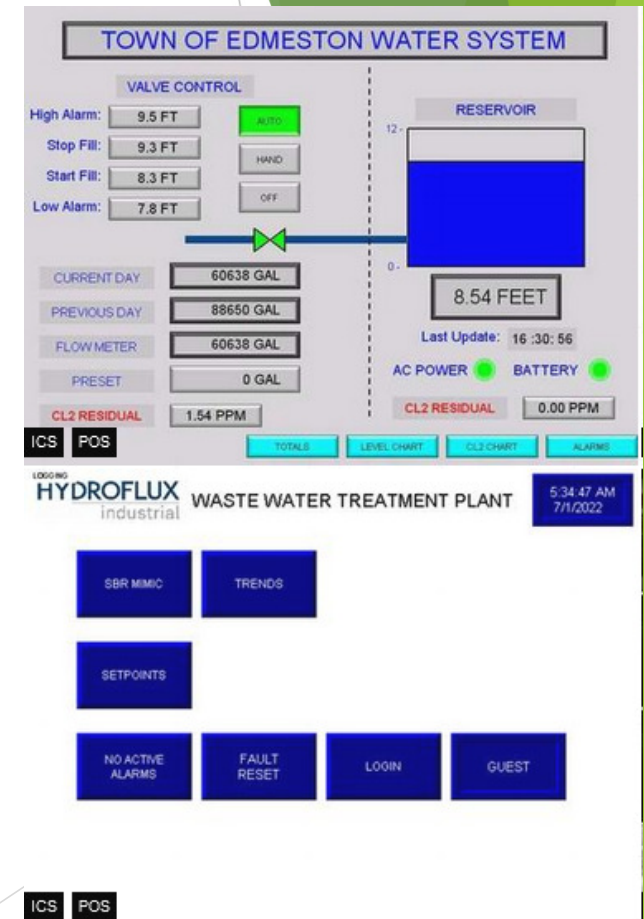
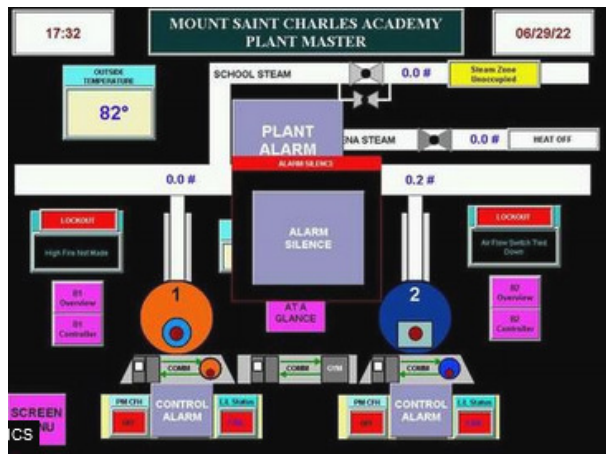




# Shodan

## Industrial Control Systems

- Industrial Control Systems ([link](#))



# Shodan

## Portugal - Internet Exposure

- ▶ Internet Exposure Dashboard ([link](#))
- ▶ Top Vulnerability
  - ▶ CVE-2015-0204 – CVSS2 4.3 Medium ([link](#))
- ▶ BlueKeep Unpatched ([link](#))
  - ▶ 107 ([link](#))
- ▶ Industrial Control Systems
  - ▶ 516
- ▶ SMB (shared folders)
  - ▶ Authentication Disabled: 2898

# Insecure Insecure Cameras

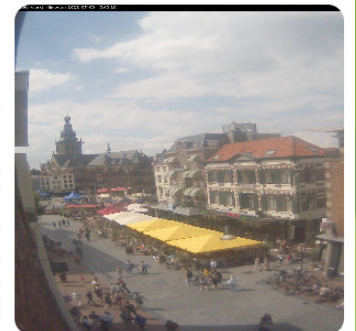
- Browser edit ([link](#))
  - Portugal ([link](#))



Live camera in Lisbon, Portugal



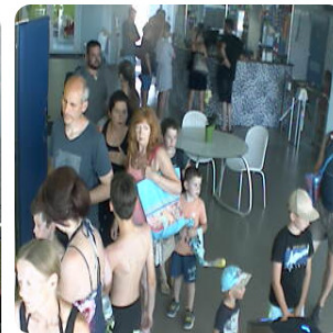
Live camera in Lisbon, Portugal



Live camera in Amsterdam, Netherlands



[Live camera in Kiefersfelden, Germany](#)



[Live camera in PRAGUE, Czech Republic](#)

# Penetration Test

## Portugal - Ministério da Justiça

- ▶ How safe is our information?
- ▶ Site URL: <https://www.automovelonline.mj.pt/AutoOnlineProd/>
  - ▶ Is there a **DEV** site?
  - ▶ Error shows software and version (Apache Tomcat/8.0.41)
  - ▶ Are there exploits? Exploit Database ([link](#))
- ▶ Automatic testing website ([link](#))
- ▶ Are these tests legal?
  - ▶ If you don't own the site, it's usually not legal or allowed.

# CTF

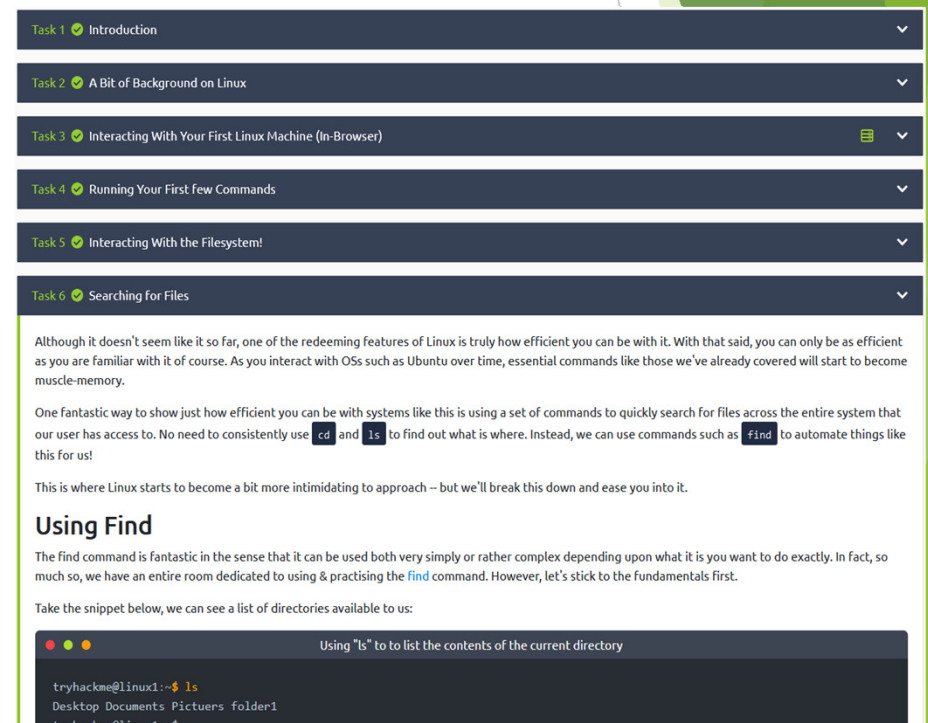
## Capture The Flag

- ▶ TryHackMe - <https://tryhackme.com/>
- ▶ HackTheBox - <https://www.hackthebox.eu/>
- ▶ VulnHub - <https://www.vulnhub.com/>
- ▶ OTW - <https://overthewire.org/wargames/>
- ▶ PicoCTF - <https://picoctf.org/>
- ▶ CryptoPals - <https://cryptopals.com/>
- ▶ CryptoHack - <https://cryptohack.org/>

# CTF

## THM - Try Hack Me

- ▶ Try Hack Me ([link](#))
  - ▶ TryHackMe is a free online platform for learning cyber security, using hands-on exercises and labs, all through your browser!
- ▶ Learn
  - ▶ Our content is guided with interactive exercises based on real world scenarios, from hacking machines to investigating attacks, we've got you covered.
- ▶ Practice
  - ▶ Put your knowledge into practice with gamified cyber security challenges.
- ▶ Cost - Free or \$10/month



The screenshot displays the TryHackMe web interface. At the top, there is a vertical list of tasks, each with a green checkmark icon and a dropdown arrow. The tasks are:

- Task 1 Introduction
- Task 2 A Bit of Background on Linux
- Task 3 Interacting With Your First Linux Machine (In-Browser)
- Task 4 Running Your First Few Commands
- Task 5 Interacting With the Filesystem!
- Task 6 Searching for Files

Task 6 is selected, and its content is displayed below. The text reads:

Although it doesn't seem like it so far, one of the redeeming features of Linux is truly how efficient you can be with it. With that said, you can only be as efficient as you are familiar with it of course. As you interact with OSs such as Ubuntu over time, essential commands like those we've already covered will start to become muscle-memory.

One fantastic way to show just how efficient you can be with systems like this is using a set of commands to quickly search for files across the entire system that our user has access to. No need to consistently use `cd` and `ls` to find out what is where. Instead, we can use commands such as `find` to automate things like this for us!

This is where Linux starts to become a bit more intimidating to approach – but we'll break this down and ease you into it.

### Using Find

The find command is fantastic in the sense that it can be used both very simply or rather complex depending upon what it is you want to do exactly. In fact, so much so, we have an entire room dedicated to using & practising the `find` command. However, let's stick to the fundamentals first.

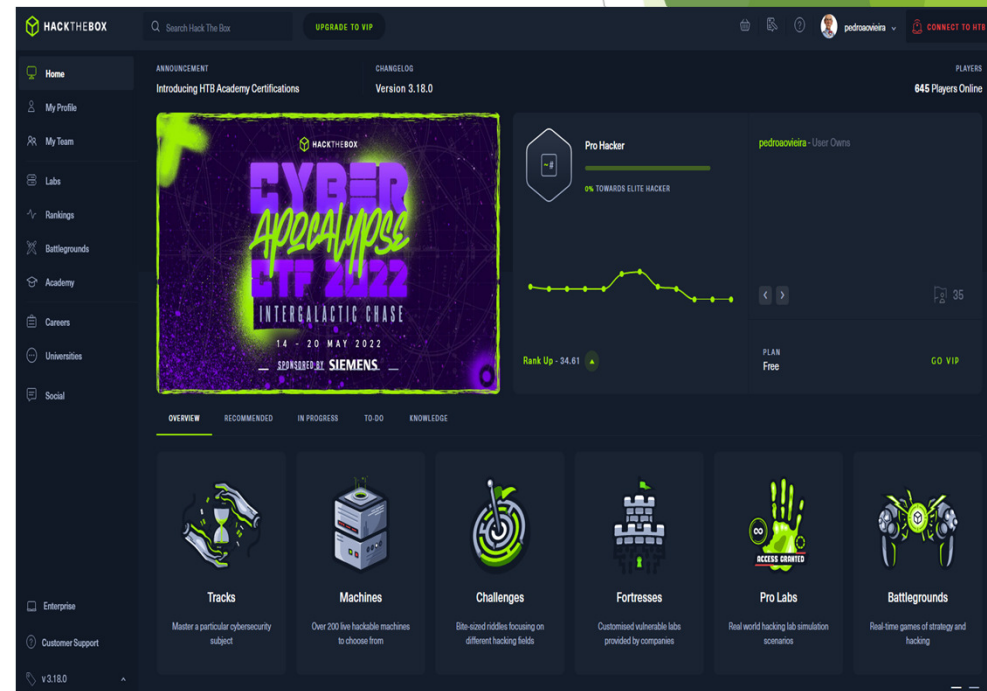
Take the snippet below, we can see a list of directories available to us:

```
tryhackme@linux1:~$ ls
Desktop Documents Pictures folder1
tryhackme@linux1:~$
```

# CTF

## HTB -Hack The Box

- ▶ Hack The Box ([link](#))
  - ▶ Hack The Box is a massive, online cybersecurity training platform, allowing individuals, companies, universities and all kinds of organizations around the world to level up their hacking skills.
- ▶ Challenges
  - ▶ Hardware, Crypto, Pwn, Mobile, Reversing, Web, ...
- ▶ Machines / Tracks
- ▶ Cost - Free / €12/month
- ▶ Job Board

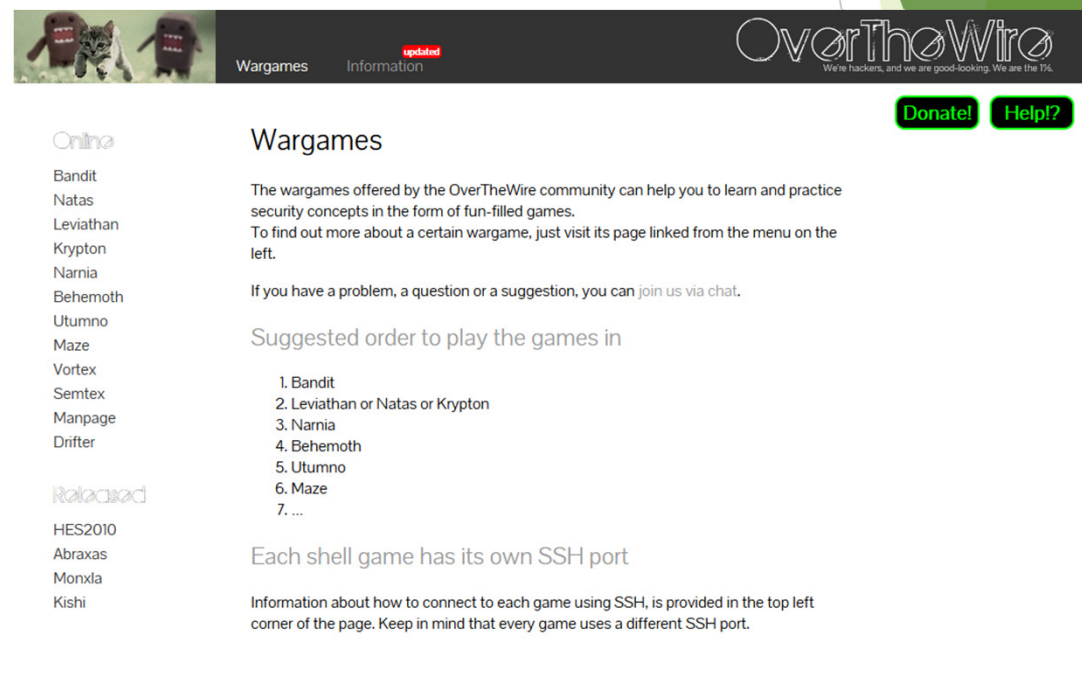




# CTF

## OTW -Over The Wire

- ▶ Over The Wire ([link](#))
- ▶ Linux and Web based games
  - ▶ Linux - Bandit
  - ▶ Web - Natas



The screenshot shows the OverTheWire website. The header features a navigation bar with 'Wargames' and 'Information' (marked as 'updated'). The 'OverTheWire' logo is on the right, with the tagline 'We're hackers, and we are good-looking. We are the OW.' Below the header, there are 'Donate!' and 'Help!?' buttons. The main content area is titled 'Wargames' and includes a description of the wargames offered, a link to a chat, and a suggested order to play the games. On the left, there is a sidebar with 'Online' and 'Released' sections listing various games.

**Online**

- Bandit
- Natas
- Leviathan
- Krypton
- Narnia
- Behemoth
- Utumno
- Maze
- Vortex
- Semtex
- Manpage
- Drifter

**Released**

- HES2010
- Abraxas
- Monxd
- Kishi

### Wargames

The wargames offered by the OverTheWire community can help you to learn and practice security concepts in the form of fun-filled games. To find out more about a certain wargame, just visit its page linked from the menu on the left.

If you have a problem, a question or a suggestion, you can [join us via chat](#).

#### Suggested order to play the games in

1. Bandit
2. Leviathan or Natas or Krypton
3. Narnia
4. Behemoth
5. Utumno
6. Maze
7. ...

#### Each shell game has its own SSH port

Information about how to connect to each game using SSH, is provided in the top left corner of the page. Keep in mind that every game uses a different SSH port.



# Verificar

- ▶ <https://especiais.rr.pt/pegada-digital/pedi-os-meus-dados-a-70-empresas/>



# Wifi

## World Map - WiFi Networks

- ▶ Wigle – shell5
- ▶ <https://wile.net/map?maplat=41.53443897842117&maplon=-8.437174307569958&mapzoom=21&coloring=density>
- ▶ mac address lookup
- ▶ <https://dnschecker.org/mac-lookup.php?query=68-cc-6e-c0-c7-e1>



# License

- Feel free to share/modify,...

