Digital Policing and Intelligence Surveillance

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Presentation Format

Part I

Introduction to Digital policing and Intelligence Surveillance

Part II

Society preparation for Digital Policing and Intelligence Surveillance

Part III

Tool for digital policing and Intelligence Surveillance

Introduction

Part I

- In our rapidly evolving digital landscape, law enforcement agencies are facing unprecedented challenges and opportunities.

- Today, we'll explore how digital technologies are reshaping policing and intelligence surveillance practices, and the implications for the society.

Understanding Digital Policing

- Digital policing involves the use of technology to:
  - prevent
  - investigate crime,
  - Goal: maintain public safety, and enhance operational efficiency.
- It encompasses a wide range of **tools** and **techniques**, including data analytics, social media monitoring, predictive policing algorithms, and digital forensics.

- Digital policing empowers law enforcement to **proactively** address emerging threats and better serve communities.

The Rise of Intelligence Surveillance

- Intelligence surveillance refers to the;
  - collection,
  - analysis,
  - dissemination
- information **to support law enforcement and national security efforts**.

- Intelligence surveillance plays a crucial role in detecting and disrupting criminal activities, counterterrorism efforts, and safeguarding public safety.

Benefits of Digital Policing and Intelligence Surveillance

- **Improved crime prevention and detection**: Digital tools enable law enforcement to identify patterns, trends, and potential threats more effectively.

- **Enhanced situational awareness**: Real-time data analysis allows for quicker response times and better decision-making during emergencies.

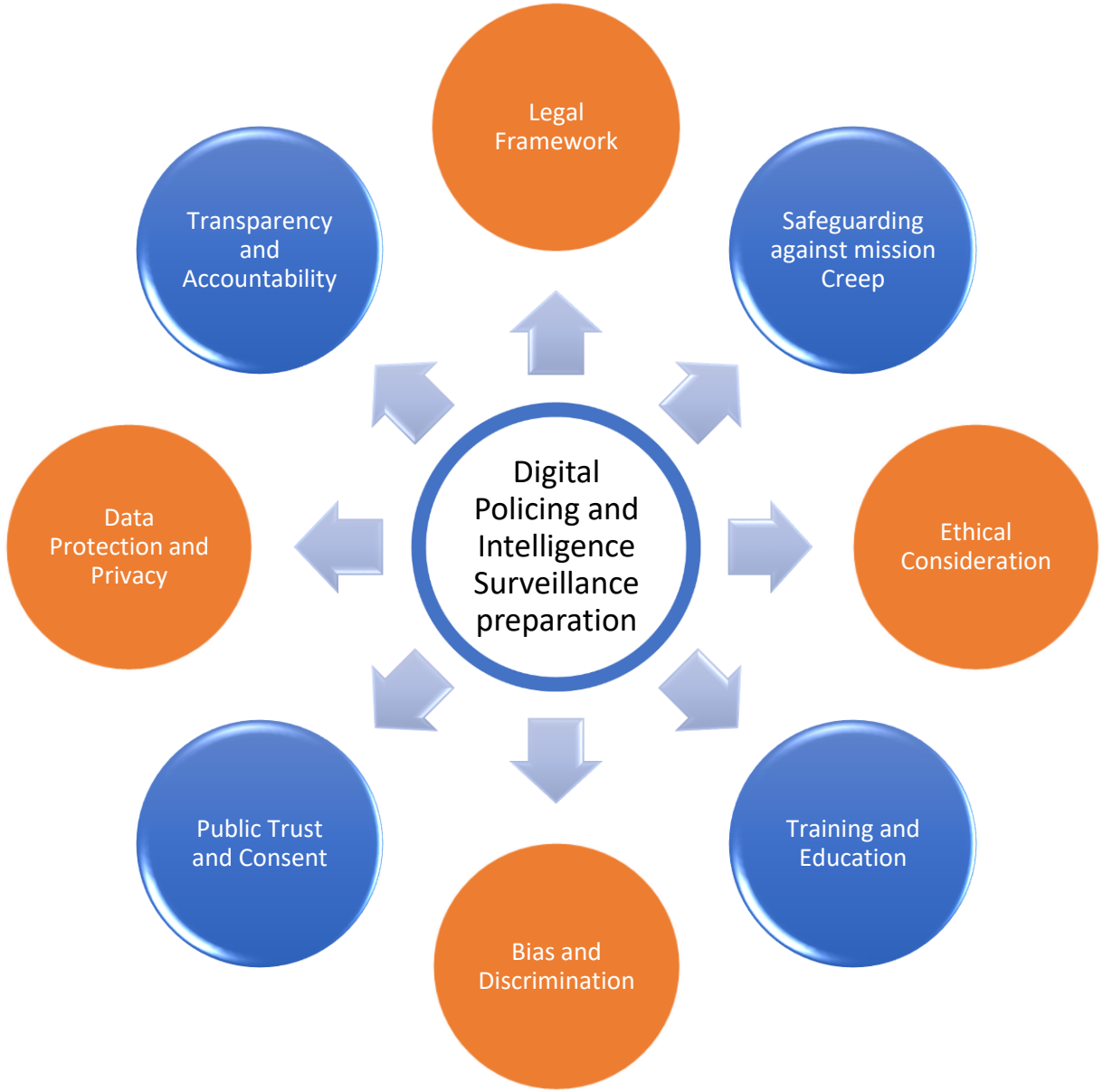
- **Greater efficiency and resource optimization**: Automation and predictive analytics streamline investigative processes and resource allocation.

- **Enhanced collaboration and information sharing**: Digital platforms facilitate communication and collaboration between agencies at local, national, and international levels.

Issues and Society preparation for Digital Policing and Intelligence Surveillance

Part II

Preparing for digital policing and intelligence surveillance involves addressing a range of technical, legal, ethical, and societal issues.


Digital Policing and Intelligence Surveillance preparation
Legal Framework
Safeguarding against mission Creep
Ethical Consideration
Training and Education
Bias and Discrimination
Public Trust and Consent
Data Protection and Privacy
Transparency and Accountability

Tool for Digital Policing and Intelligence Surveillance

Part III

Digital police and surveillance tools encompass a wide array of technologies used by law enforcement agencies to monitor, analyze, and manage various aspects of security and crime prevention in the digital realm. These tools can range from software applications to hardware devices and can be group as follows;

Surveillance and Monitoring Tools

- Closed-Circuit Television (CCTV)
- Body Camaras
- License Plate Recognition
- Social Media Monitoring tools (*Geofeedia*)
- Drones Surveillance
- GPRS tracking

Investigation and Analysis

- Data Analytics
- Cybercrime Investigation Tools
- Forensic Analysis Software
- Network Monitoring Tools
- Malware Detection Tools
- Encryption Decryption Tools

Identification and Verification

- Biometric Identification
- Authentication System

Communication and Coordination

- Secure Communication Platforms
- Command and Control System

Predictive Policing

- Predictive Analysis Tools
- Risk Assessment Tools

Training and Education

- Simulation Tools
- E-learning Platforms

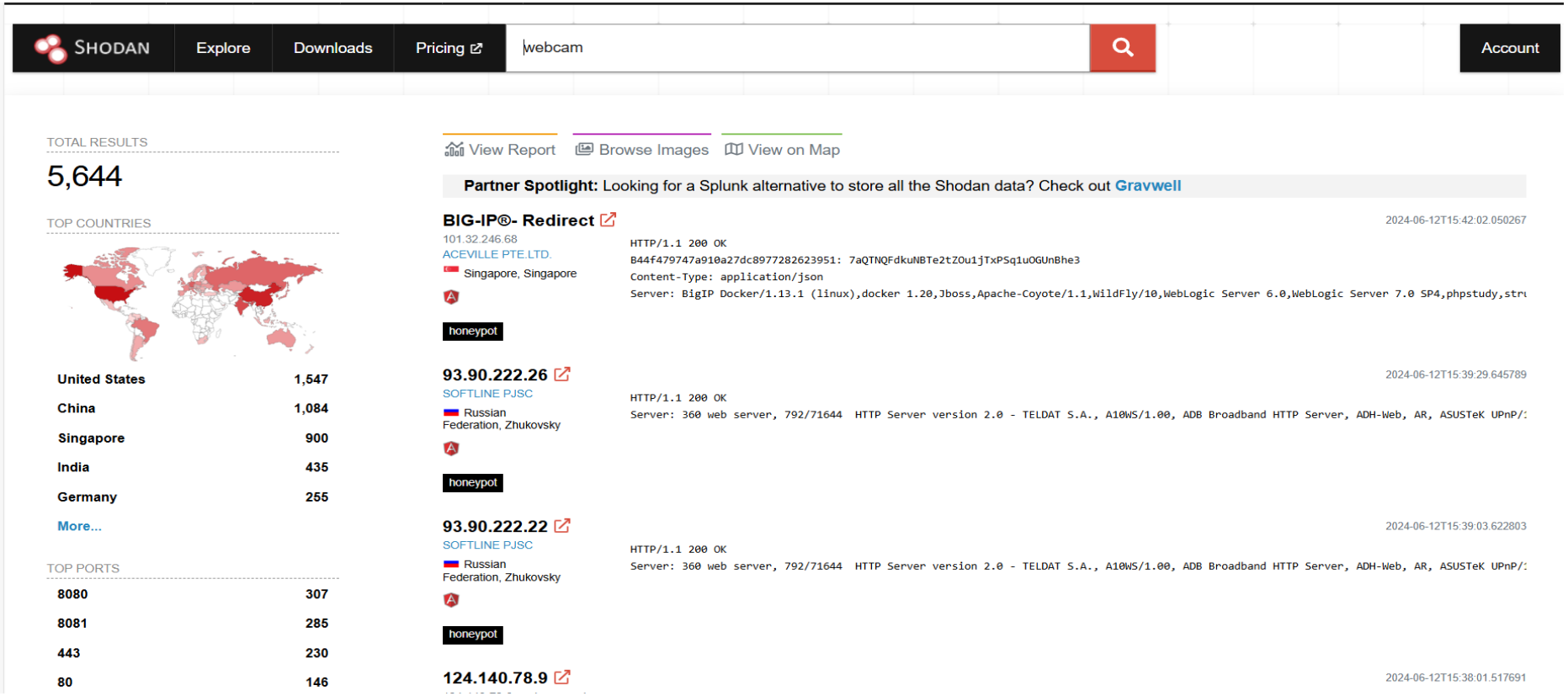
Demonstration

Shodan

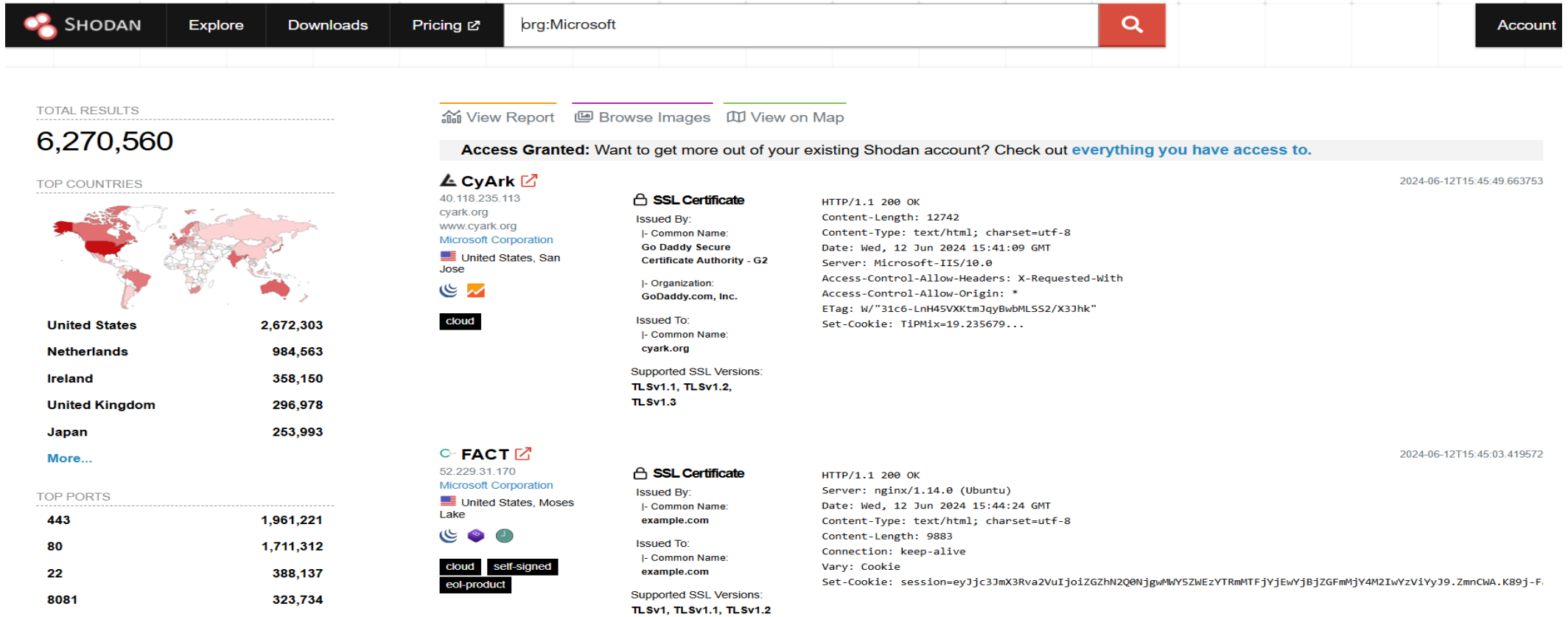
- Search Engine for the Internet of Everything
- World first search engine for internet connected devices.
- Help in discovering Internet Intelligence
- Help study all kinds of devices connected to the internet
- Webcams
- Routers
- IoT devices etc

Shodan Queries

Type **webcam** and click search



- org:Organization name (org:Microsoft)



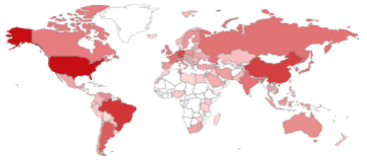
- service running a particular port: (e.g port:22)

SHODAN | Explore | Downloads | Pricing | port:22 | Account

TOTAL RESULTS

30,439,361

TOP COUNTRIES



United States	8,033,055
Brazil	3,677,915
China	2,893,754
Germany	2,297,492
Argentina	1,377,755

More...

TOP ORGANIZATIONS

TELEFÔNICA BRASIL S.A	3,290,344
Google LLC	2,381,361
DigitalOcean, LLC	1,532,784
Telefonica de Argentina	1,320,436

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Product Spotlight: Free, Fast IP Lookups for Open Ports and Vulnerabilities using InternetDB

35.222.79.138 2024-06-12T15:50:39.958884

138.79.222.35.bc.googleusercontent.com

Google LLC

United States, Council Bluffs

cloud

```
SSH-2.0-OpenSSH_9.6
Key type: ssh-ed25519
Key: AAAAC3NzaC1lZDI1NTE5AAAAIJMrjEwhrWiG8r9rmKGWwJ7vGCJFMNPFmq9+6KUbJajc
Fingerprint: 29:ed:2d:40:bc:5f:ad:8b:23:71:2b:f6:83:33:8e:9f

Kex Algorithms:
        sntrup761x25519-sha512@openssh.com
        curve25519-sha256
        curve25519-sha256@libssh.org
        ecdh-sha2-nistp25...
```

45.77.47.43 2024-06-12T15:50:38.149611

45.77.47.43.vultrusercontent.com

Vultr Holdings, LLC

Singapore, Singapore

cloud

```
SSH-2.0-OpenSSH_8.0
Key type: ssh-rsa
Key: AAAAB3NzaC1yc2EAAAADAQABAAABgQCoD4rCsEvTDXbcGOvVQ4uUM2PFLJooPROBlKqTJUlgNQ9d
4EeWckOfp1rqRrVagD/YMWKWTx+KLGKX3BIjAdrgoXgH+D9Qm7fYEbtXFtm5+tl8aDixugweEe31
g+qd2FW/VbANRarmCOciejdQ11XPnujU5/K1fcFDwMLMH3rbMCBh7Ev3Aior8ATCudnbI0xU4niz
z9k83Inh4IKHcJLVV0yhhQo...
```

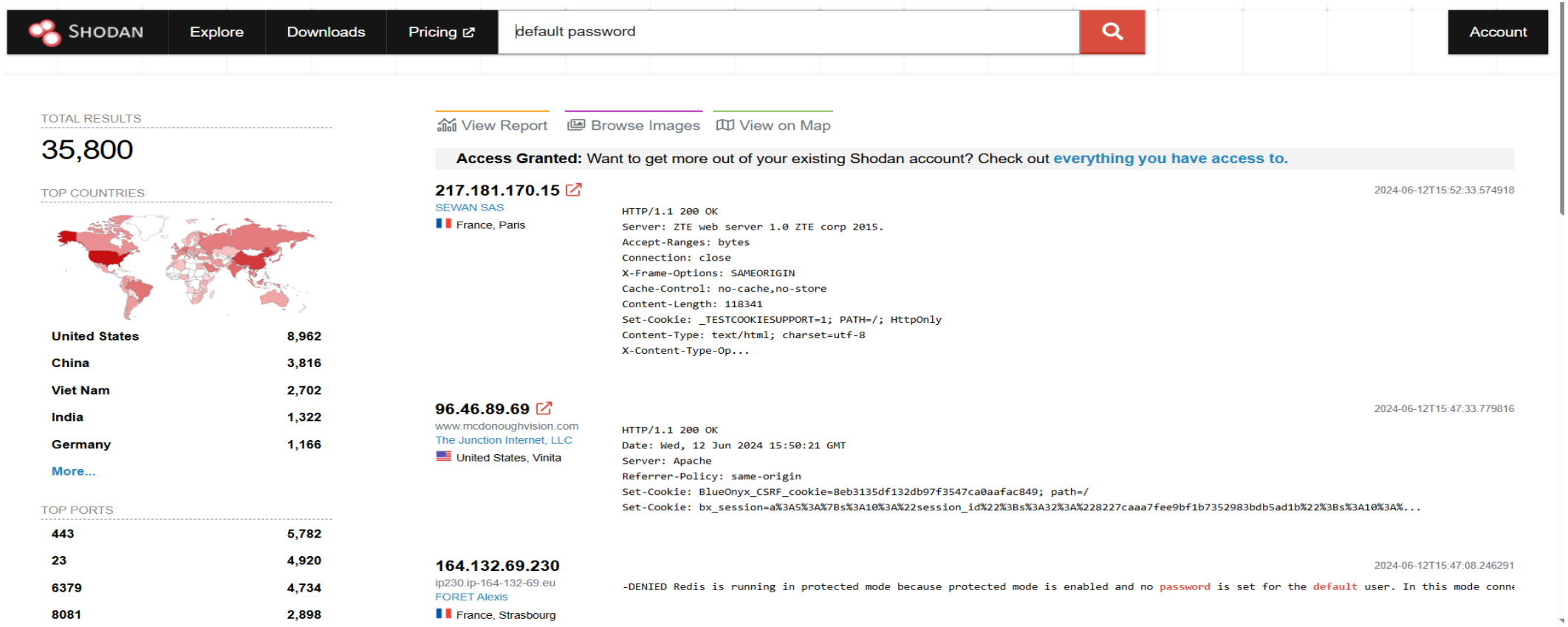
20.196.200.33 2024-06-12T15:50:37.669168

Microsoft Corporation

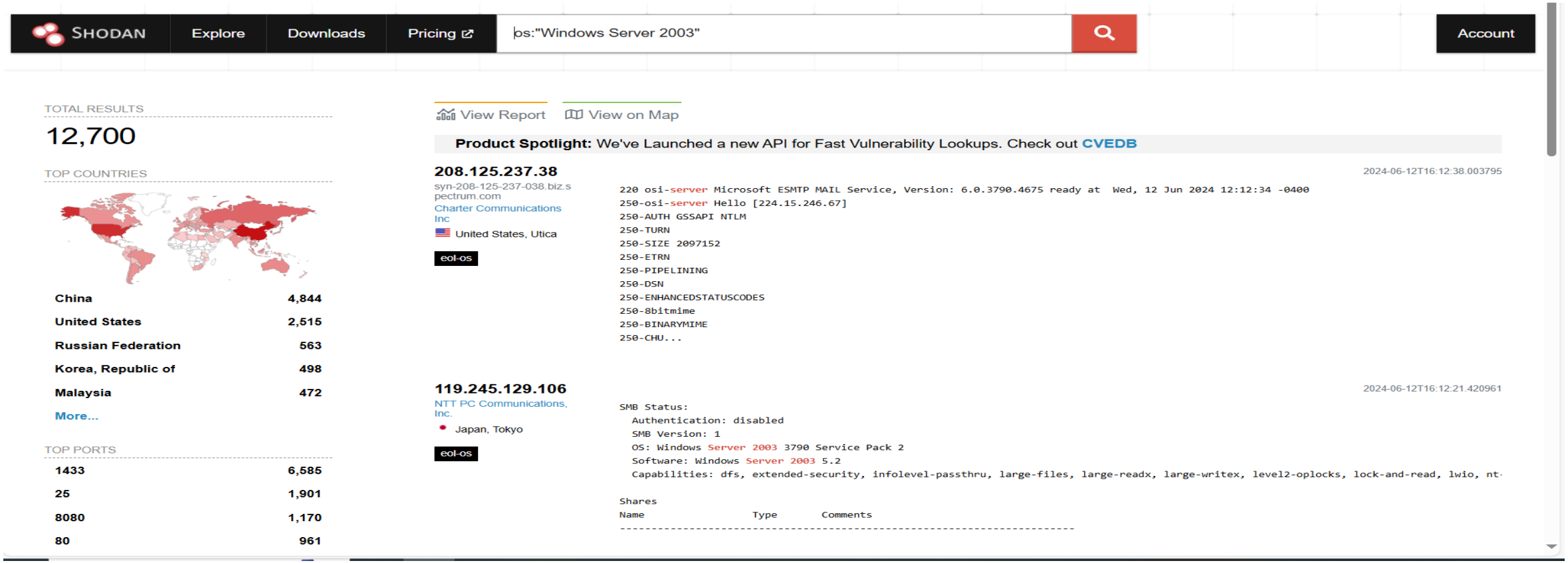
Korea, Republic of, Seoul

```
SSH-2.0-OpenSSH_8.2p1 Ubuntu-4ubuntu0.11
Key type: ssh-rsa
Key: AAAAB3NzaC1yc2EAAAADAQABAAABgQC71MWvjNqDlEMuZ4v17k9EhjAaiuZjjiG7ks/OuqB4cpOp
```

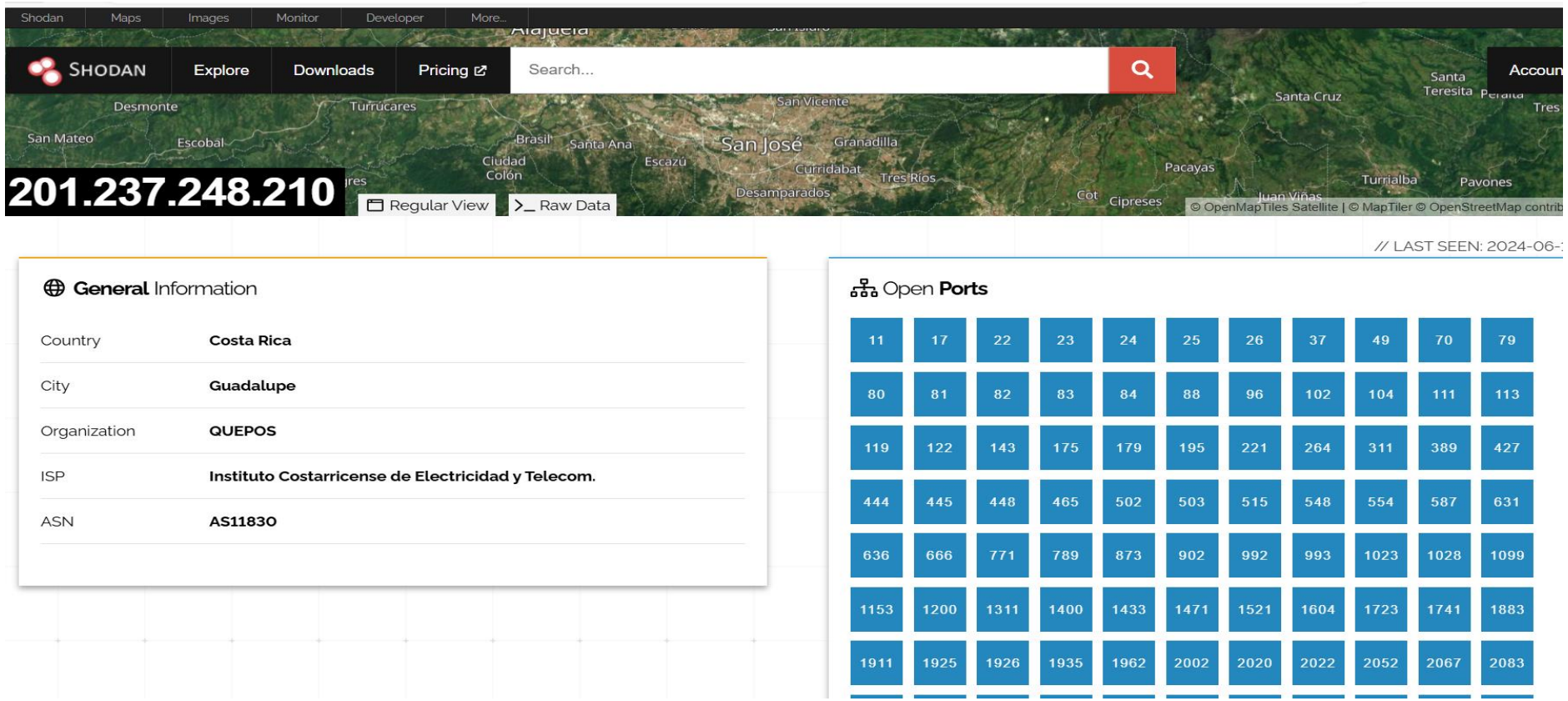
- Service running with default password



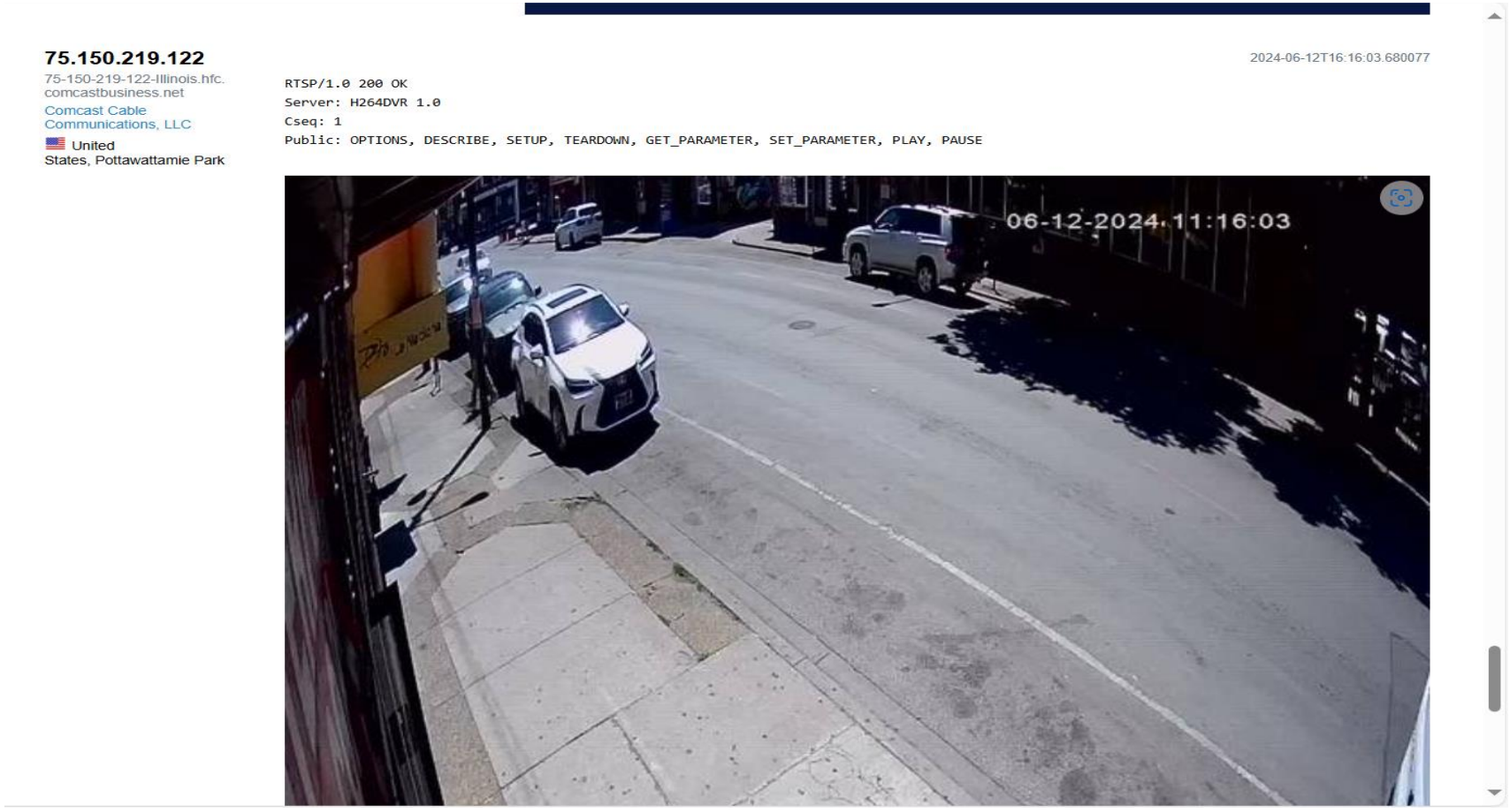
- Os:”Window Server 2003”



- netwave ip camara (one of the selected camara with its port)



- Has_screenshots:true

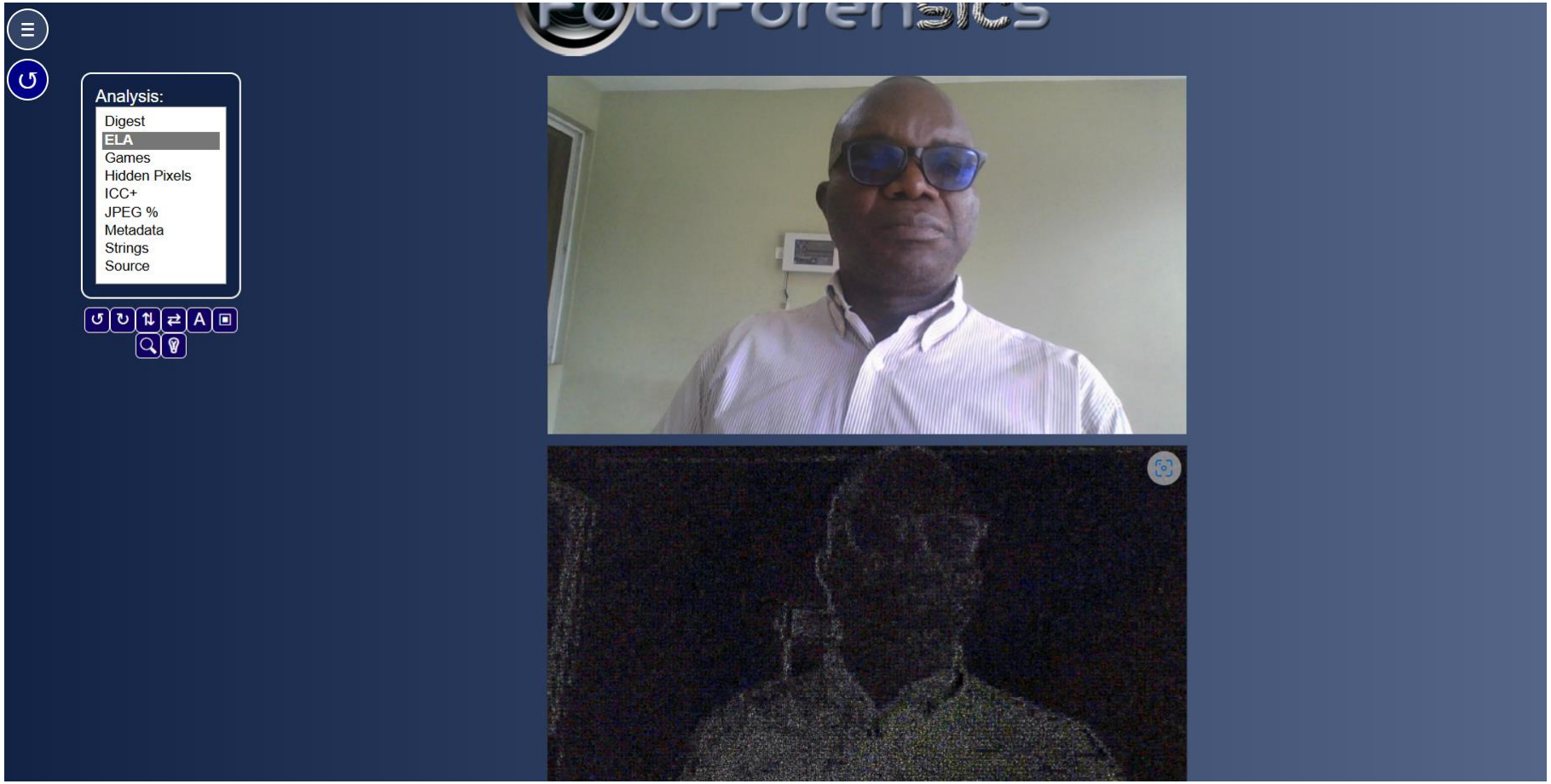


Picture Metadata

Metadata analysis involves examining the descriptive data about data. This can include details such as timestamps, file sizes, authorship, location, and other attributes associated with digital files.


FotoForensics
Upload Error
No file was submitted.
Submit a picture for Forensic Analysis
Image URL:
https://
Upload URL
or
Upload File:
Choose File
No file chosen
Upload File
See the FAQ for submission guidelines. See the tutorials for analysis instructions.
Copyright 2012-2024 Hacker Factor, All Rights Reserved.
• System Status • Blog • FAQ • Contact

ELA (Error Level Analysis)



metadata

EXIF	
Software	Windows 10
Date/Time Original	2024:06:13 09:29:39
Sub Sec Time Original	843
Padding	(Binary data 4108 bytes)

Composite	
Date/Time Original	2024:06:13 09:29:39.843
Image Size	1280x720
Megapixels	0.922

File	
File Type	JPEG
File Type Extension	jpg
MIME Type	image/jpeg
Exif Byte Order	Big-endian (Motorola, MM)
Image Width	1280
Image Height	720
Encoding Process	Baseline DCT, Huffman coding
Bits Per Sample	8
Color Components	3
Y Cb Cr Sub Sampling	YCbCr4:2:0 (2 2)

JFIF	
JFIF Version	1.01
Resolution Unit	inches
X Resolution	96
Y Resolution	96

Checking for who owns the DNS (website)

- **A fraudulent website:**
- Use WHOIS Lookup: WHOIS is a database that contains information about registered domain names, including the domain owner's contact details. You can use WHOIS lookup tools available online to search for the owner of a website by entering its domain name.

Frequently Asked Questions

+ What is a Whois domain lookup?

+ What does the Whois domain database contain?

pervatech.ng

Updated 1 minute ago

Domain Information

Domain:	pervatech.ng
Registrar:	smartweb
Registered On:	2021-11-11
Expires On:	2024-11-11
Updated On:	2024-03-12
Status:	clientTransferProhibited clientDeleteProhibited
Name Servers:	wns9.webhostbox.net wns10.webhostbox.net

Registrant Contact

Name:	Faki Ageebee Silas
Organization:	Pervasive Technologies
Street:	N0. 13 Capital Gateway, Alhaji Auwal Street
City:	Karu
State:	Nasarawa
Postal Code:	900101
Country:	NG
Phone:	8066238988
Email:	ageebeefaki@gmail.com

Administrative Contact

Name:	Faki Ageebee Silas
Street:	N0. 13 Capital Gateway, Alhaji Auwal Street
City:	Karu
State:	Nasarawa
Postal Code:	900101
Country:	NG
Phone:	8066238988
Email:	ageebeefaki@gmail.com

Conclusion

In conclusion, the future of digital policing and intelligence surveillance holds immense promise for enhancing public safety and security, but it also demands vigilance, accountability, and a steadfast commitment to upholding the principles of democracy and human rights in the digital age.

Thank You

End of Presentation

Contributions from the Audience