

Digital Policing and Intelligence Surveillance

By

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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.



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

The screenshot shows the Shodan search interface. At the top, there is a navigation bar with 'SHODAN', 'Explore', 'Downloads', and 'Pricing' links. A search bar contains the query 'webcam' and a search button. The main content area is divided into several sections:

- TOTAL RESULTS:** 5,644
- TOP COUNTRIES:** A world map with red highlights indicating the top countries. Below the map is a table:

Country	Count
United States	1,547
China	1,084
Singapore	900
India	435
Germany	255
- TOP PORTS:** A table showing the top ports for the query:

Port	Count
8080	307
8081	285
443	230
80	146
- Search Results:** A list of search results for the query 'webcam'. Each result includes an IP address, a title, a location, a honeypot status, and a server description. The results shown are:
 - 101.32.246.68:** ACEVILLE PTE.LTD, Singapore, Singapore. Server: BigIP Docker/1.13.1 (linux), docker 1.20, Jboss, Apache-Coyote/1.1, WildFly/10, WebLogic Server 6.0, WebLogic Server 7.0 SP4, phpstudy, str...
 - 93.90.222.26:** SOFTLINE PJSC, Russian Federation, Zhukovsky. Server: 360 web server, 792/71644 HTTP Server version 2.0 - TELDAT S.A., A10WS/1.00, ADB Broadband HTTP Server, ADH-Web, AR, ASUSTeK UPnP/...
 - 93.90.222.22:** SOFTLINE PJSC, Russian Federation, Zhukovsky. Server: 360 web server, 792/71644 HTTP Server version 2.0 - TELDAT S.A., A10WS/1.00, ADB Broadband HTTP Server, ADH-Web, AR, ASUSTeK UPnP/...
 - 124.140.78.9:** (No title or location visible).

- org:Organization name (org:Microsoft)



TOTAL RESULTS

6,270,560

TOP COUNTRIES



United States	2,672,303
Netherlands	984,563
Ireland	358,150
United Kingdom	296,978
Japan	253,993

[More...](#)

TOP PORTS

443	1,961,221
80	1,711,312
22	388,137
8081	323,734

[View Report](#) [Browse Images](#) [View on Map](#)

Access Granted: Want to get more out of your existing Shodan account? Check out [everything you have access to.](#)

CyArk

40.118.235.113
 cyark.org
 www.cyark.org
 Microsoft Corporation
 Go Daddy Secure
 United States, San Jose



cloud

SSL Certificate

Issued By:
 |- Common Name:
 Go Daddy Secure
 Certificate Authority - G2
 |- Organization:
 GoDaddy.com, Inc.

Issued To:
 |- Common Name:
 cyark.org

Supported SSL Versions:
 TLSv1.1, TLSv1.2,
 TLSv1.3

HTTP/1.1 200 OK
 Content-Length: 12742
 Content-Type: text/html; charset=utf-8
 Date: Wed, 12 Jun 2024 15:41:09 GMT
 Server: Microsoft-IIS/10.0
 Access-Control-Allow-Headers: X-Requested-With
 Access-Control-Allow-Origin: *
 ETag: W/"31c6-LnH45VXKtmJqyBwbMLSS2/X3Jhk"
 Set-Cookie: TiPMix=19.235679...

2024-06-12T15:45:49.663753

FACT

52.229.31.170
 Microsoft Corporation
 United States, Moses Lake



cloud self-signed
 eol-product

SSL Certificate

Issued By:
 |- Common Name:
 example.com
 Issued To:
 |- Common Name:
 example.com

Supported SSL Versions:
 TLSv1, TLSv1.1, TLSv1.2

HTTP/1.1 200 OK
 Server: nginx/1.14.0 (Ubuntu)
 Date: Wed, 12 Jun 2024 15:44:24 GMT
 Content-Type: text/html; charset=utf-8
 Content-Length: 9883
 Connection: keep-alive
 Vary: Cookie
 Set-Cookie: session=eyJjc3JmX3Rva2VuIjoizGZhN2Q0NjgwMwY5ZWEzYTRmMTFjYjEwYjBjZGFmMjY4M2IwYzViYyJ9.ZmnCWA.K89j-F.

2024-06-12T15:45:03.419572

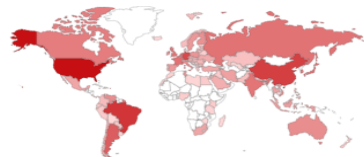
- service running a particular port: (e.g port:22)



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

TELEFÓNICA 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

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: AAAAC3NzaC1lZDI1NTE5AAAAI3MrjEwhrwiG8r9rmKGwJ7vGCJFMNPFmq9+6KUbJajc
 Fingerprint: 29:ed:2d:40:bc:5f:ad:8b:23:71:2b:f6:83:33:8e:9f

2024-06-12T15:50:39.958884

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

45.77.47.43

45.77.47.43.vultrusercontent.com
[Vultr Holdings, LLC](#)
 Singapore, Singapore

cloud

SSH-2.0-OpenSSH_8.0
 Key type: ssh-rsa
 Key: AAAAB3NzaC1yc2EAAAADAQABAAQgQC0D4rCsEvTDXbcG0vVQ4uUM2PFLJooPROB1KqTJU1gNQ9d4EeWckOfp1rqRrVagD/YMwKwTx+KLGKX3BIjAdrgoXgh+D9Qm7fYEbtXFtm5+t18aDixugweEe31g+qd2FW/VbANRarmCOciejdQ11XPnujU5/K1fcFDwMLMH3rbMCBh7Ev3Aior8ATCudnbI0xU4niz9k83Inh4IKhcJLVV0yhhQo...

2024-06-12T15:50:38.149611

20.196.200.33

[Microsoft Corporation](#)
 Korea, Republic of, Seoul

SSH-2.0-OpenSSH_8.2p1 Ubuntu-4ubuntu0.11
 Key type: ssh-rsa
 Key: AAAAAB3NzaC1yc2EAAAADAQABAAQgQC71MwVjNqD1EMuZ4v17k9EhjAaiuZjjiG7ks/OuqB4cpOp


2024-06-12T15:50:37.669168

- Service running with default password

SHODAN Explore Downloads Pricing default password Account

TOTAL RESULTS
35,800

TOP COUNTRIES



United States	8,962
China	3,816
Viet Nam	2,702
India	1,322
Germany	1,166
More...	

TOP PORTS

443	5,782
23	4,920
6379	4,734
8081	2,898

[View Report](#) [Browse Images](#) [View on Map](#)

Access Granted: Want to get more out of your existing Shodan account? Check out [everything you have access to.](#)

217.181.170.15 [🔗](#) 2024-06-12T15:52:33.574918
[SEWAN SAS](#)
🇫🇷 France, Paris

```
HTTP/1.1 200 OK
Server: ZTE web server 1.0 ZTE corp 2015.
Accept-Ranges: bytes
Connection: close
X-Frame-Options: SAMEORIGIN
Cache-Control: no-cache,no-store
Content-Length: 118341
Set-Cookie: _TESTCOOKIESUPPORT=1; PATH=/; HttpOnly
Content-Type: text/html; charset=utf-8
X-Content-Type-Op...
```


96.46.89.69 [🔗](#) 2024-06-12T15:47:33.779816
[www.mcdonoughvision.com](#)
[The Junction Internet, LLC](#)
🇺🇸 United States, Vinita

```
HTTP/1.1 200 OK
Date: Wed, 12 Jun 2024 15:50:21 GMT
Server: Apache
Referrer-Policy: same-origin
Set-Cookie: BlueOnyx_CSRF_cookie=8eb3135df132db97f3547ca0aafac849; path=/
Set-Cookie: bx_session=a%3A5%3A%7Bs%3A10%3A%22session_id%22%3Bs%3A32%3A%22227caaa7fee9bf1b7352983bdb5ad1b%22%3Bs%3A10%3A...
```

164.132.69.230 [🔗](#) 2024-06-12T15:47:08.246291
[ip230.ip-164-132-69.eu](#)
[FORET Alexis](#)
🇫🇷 France, Strasbourg

```
-DENIED Redis is running in protected mode because protected mode is enabled and no password is set for the default user. In this mode conn...
```

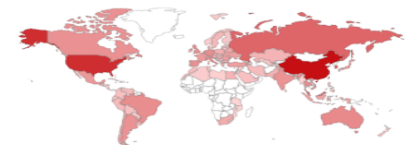
- Os: "Window Server 2003"

 SHODAN
[Explore](#)
[Downloads](#)
[Pricing](#)Q
Account

TOTAL RESULTS

12,700



TOP COUNTRIES



China	4,844
United States	2,515
Russian Federation	563
Korea, Republic of	498
Malaysia	472
More...	

TOP PORTS

1433	6,585
25	1,901
8080	1,170
80	961

 View Report
 View on Map

Product Spotlight: We've Launched a new API for Fast Vulnerability Lookups. Check out [CVEDB](#)

208.125.237.38
syn-208-125-237-038.biz.spectrum.com
 Charter Communications Inc
 United States, Utica

eol-os

```

220 osi-server Microsoft ESMTMP MAIL Service, Version: 6.0.3790.4675 ready at Wed, 12 Jun 2024 12:12:34 -0400
250-os-server Hello [224.15.246.67]
250-AUTH GSSAPI NTLM
250-TURN
250-SIZE 2097152
250-ETRN
250-PIPELINING
250-DSN
250-ENHANCEDSTATUSCODES
250-8bitmime
250-BINARYMIME
250-CHU...
          
```

2024-06-12T16:12:38.003795

119.245.129.106
NTT PC Communications, Inc.
 Japan, Tokyo

eol-os

```

SMB Status:
Authentication: disabled
SMB Version: 1
OS: Windows Server 2003 3790 Service Pack 2
Software: Windows Server 2003 5.2
Capabilities: dfs, extended-security, infolevel-passthru, large-files, large-readx, large-writex, level2-oplocks, lock-and-read, lwio, nt-
          
```

Shares	Name	Type	Comments

2024-06-12T16:12:21.420961

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

SHODAN Explore Downloads Pricing Search... 201.237.248.210 Regular View Raw Data

// LAST SEEN: 2024-06-

General Information

Country	Costa Rica
City	Guadalupe
Organization	QUEPOS
ISP	Instituto Costarricense de Electricidad y Telecom.
ASN	AS11830

Open Ports

11	17	22	23	24	25	26	37	49	70	79
80	81	82	83	84	88	96	102	104	111	113
119	122	143	175	179	195	221	264	311	389	427
444	445	448	465	502	503	515	548	554	587	631
636	666	771	789	873	902	992	993	1023	1028	1099
1153	1200	1311	1400	1433	1471	1521	1604	1723	1741	1883
1911	1925	1926	1935	1962	2002	2020	2022	2052	2067	2083

- Has_screenshots:true

75.150.219.122

75-150-219-122-Illinois.hfc.comcastbusiness.net

Comcast Cable Communications, LLC

United States, Pottawattamie Park

RTSP/1.0 200 OK

Server: H264DVR 1.0

Cseq: 1

Public: OPTIONS, DESCRIBE, SETUP, TEARDOWN, GET_PARAMETER, SET_PARAMETER, PLAY, PAUSE

2024-06-12T16:16:03.680077



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.



Upload Error

No file was submitted.

Submit a picture for Forensic Analysis

Image URL:

or

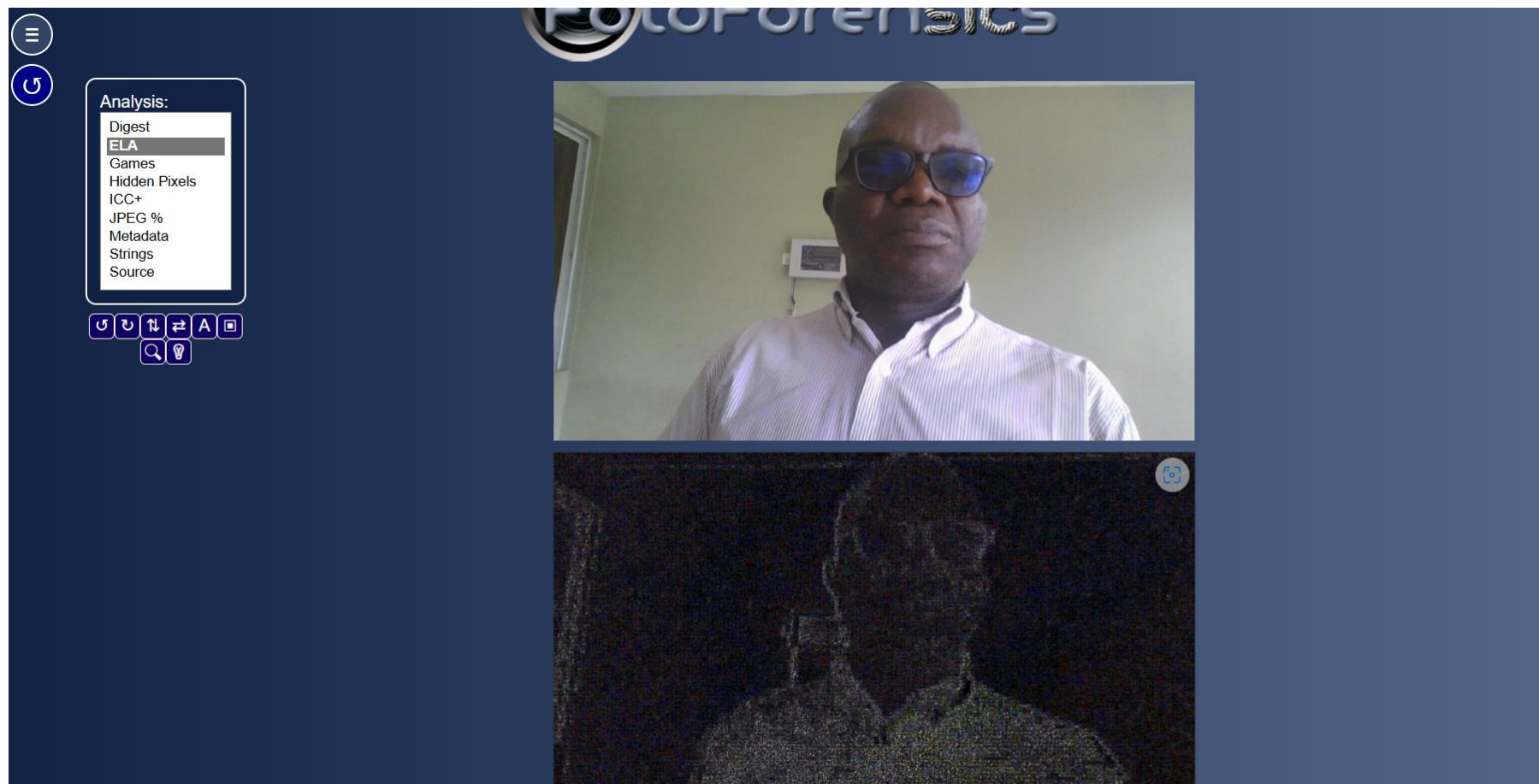
Upload File: No file chosen

See the [FAQ](#) for [submission guidelines](#). See the [tutorials](#) for analysis instructions.

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 [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.



Whois Domain Lookup

Whois search for Domain and IP


Q SEARCH

Example: [qq.com](#), [google.co.in](#), [bbc.co.uk](#), [ebay.ca](#)

Frequently Asked Questions

+ What is a Whois domain lookup?

+ What does the Whois domain database contain?

 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