

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ

Національний аерокосмічний університет ім. М. Є. Жуковського
«Харківський авіаційний інститут»

Факультет радіоелектроніки, комп'ютерних систем та інфокомунікацій

Кафедра комп'ютерних систем, мереж і кібербезпеки

Практичне завдання №2

з дисципліни «Безпека індустріальних систем та Інтернету речей»

(назва дисципліни)

Виконав: студент 5 курсу групи № 555 ім
напряму підготовки (спеціальності)

125 Кібербезпека та захист інформації

(шифр і назва напряму підготовки (спеціальності))

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Національна шкала: _____

Кількість балів: _____

Оцінка: ECTS _____

Харків – 2023


BACnet



SHODAN

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BACnet




Account

TOTAL RESULTS

6,432

TOP COUNTRIES



United States	4,500
Canada	977
United Kingdom	187
France	71
Italy	59
More...	

TOP PORTS

47808	6,381
8083	6
8081	5
1883	4
8085	4
More...	

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Historical Trend

View on Map

Access Granted:

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

50.252.169.45

50-252-169-45-static.hfc.comcastbusiness.net

Comcast Cable Communications, LLC

United States, Satellite

Instance ID: 7181

Object Name: 8490.1.7181

Location: Default Location

Vendor Name: Siemens Industry Inc., Bldg Tech

Application Software: 8XE1290_0049

Firmware: EPXC V3.5.2 BACnet 4.3g

Model Name: Siemens BACnet Field Panel

Description: Default Description

208.97.78.170

cmr-208-97-78-170.cr.net.cable.rogers.com

Rogers Communications Canada Inc.

Canada, Toronto

Instance ID: 1000

Object Name: 505 Consumers Road

Vendor Name: Delta Controls

Application Software: V3.40

Firmware: 706870

Model Name: e8NGR

23.30.69.49

23-30-69-49-static.hfc.comcastbusiness.net

Comcast Cable Communications, LLC

United States, Houston

BACnet Broadcast Management Device (BBMD):


192.168.21.150:47808

BACnet ADPU Type: Error (5)

2023-12-15T20:49:29.348743


2023-12-15T20:48:09.953064

2023-12-15T20:47:53.823289



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TOTAL RESULTS

4,500

TOP CITIES





Chicago	204
San Jose	185
New York City	146
Houston	78
Los Angeles	76
More...	

TOP PORTS

47808	4,481
9001	4
1883	3
8085	3
8083	2
More...	


TOP ORGANIZATIONS

Comcast Cable Communications, LLC	722
Service Provider Corporation	529

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34.204.203.166

ec2-34-204-203-166.compute-1.amazonaws.com
[Amazon Technologies Inc.](#)
 United States, Ashburn

cloud

honeypot

Instance ID: 1

Object Name: entelIBUS Manager 1

Vendor Name: Delta Controls

Application Software: V3.40

Firmware: 706870

Model Name: eBMGR


BACnet Broadcast Management Device (BBMD):

172.30.64.1:47808

Foreign Device Table (FDT):

64.119.215.122:54345:ttl=60:timeout=8

97.87.196.38

097-087-196-038.biz.spectrum.com
[Charter Communications](#)
 United States, Brumley

ics

Instance ID: 100

Object Name: Bellerive_CC_Chiller_Room

Location: Bellerive CC

Vendor Name: Delta Controls

Application Software: V3.40

Firmware: 535847

Model Name: eBMGR

BACnet Broadcast Management Device (BBMD):

192.168.112.230:47808

TOTAL RESULTS

2

TOP CITIES

New Haven	1
New York City	1

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166.143.163.218

218.sub-166-143-163.myvzw.com
Service Provider Corporation
United States, New York City

HTTP/1.1 200 OK
X-Powered-By: Express
Accept-Ranges: bytes
Cache-Control: public, max-age=0
Last-Modified: Fri, 30 Oct 2020 17:28:44 GMT
ETag: W/"1de1-1757a8df193"
Content-Type: text/html; charset=UTF-8
Content-Length: 7649
Date: Mon, 11 Dec 2023 06:09:15 GMT
Connection: keep-alive

<!...

166.148.196.16

16.sub-166-148-196.myvzw.com
Service Provider Corporation
United States, New Haven

HTTP/1.1 200 OK
X-Powered-By: Express
Accept-Ranges: bytes
Cache-Control: public, max-age=0
Last-Modified: Fri, 07 Aug 2020 16:33:17 GMT
ETag: W/"1de1-173c9c4ff19"
Content-Type: text/html; charset=UTF-8
Content-Length: 7649
Date: Sat, 02 Dec 2023 13:39:21 GMT
Connection: keep-alive

<!...

TOTAL RESULTS

146

TOP PORTS

47808	145
9001	1

TOP ORGANIZATIONS

Verizon Business	33
Service Provider Corporation	31
Cellco Partnership DBA Verizon Wireless	18
Charter Communications Inc	11
Cablevision Systems Corp.	10

More...

TOP PRODUCTS

Niagara4 Station	64
NiagaraAX Station	16
AAM-Router	8
G5CE	5
DSC_633E	4

More...

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Historical Trend

View on Map

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63.40.212.141

host141.sub-63-40-212.myvzw.com
Cellco Partnership DBA Verizon Wireless
United States, New York City

ICS

Instance ID: 1
Object Name: AndersonRecplex_1
Location: unknown
Vendor Name: Tridium
Application Software: Tridium 4.10.1.36
Firmware: 4.10.1.36
Model Name: Niagara4 Station
Description: Local BACnet Device object

173.52.38.100

static-173-52-38-100.nycmny.fios.verizon.net
Verizon Business
United States, New York City

ICS

Instance ID: 10001
Object Name: Jefferson455_BMS_Rev2_10001
Location: unknown
Vendor Name: Tridium
Application Software: Tridium 4.11.0.142
Firmware: 4.11.0.142
Model Name: Niagara4 Station
Description: Local BACnet Device object

108.14.52.44

static-108-14-52-44.nycmny.fios.verizon.net
Verizon Business
United States, New York City

Instance ID: 300
Object Name: 11 Riverside Dr MAIN
Vendor Name: Delta Controls
Application Software: V3.40
Firmware: 18A6Q7

185.218.81.82

Regular View

Raw Data

// TAGS: ics

General Information

Country	Denmark
City	Odense
Organization	Aalbaek Bugt Faellesantenne
ISP	GlobalConnect A/S
ASN	AS42525

Open Ports

47808

// 47808 / UDP

Siemens BACnet-Server 3.0.5

Instance ID: 126
Object Name: IP_Gateway_KNX-BACnet_N_143
Location: Skagen Strand
Vendor Name: Siemens Building Technologies
Application Software: 3.0.5
Firmware: 3.0.5
Model Name: Siemens BACnet-Server
Description: Lejlighed 125-128

185.218.80.241

Regular View

Raw Data

// TAGS: ics

General Information

Country	Denmark
City	Ålbæk
Organization	Aalbaek Bugt Faellesantenne
ISP	GlobalConnect A/S
ASN	AS42525

Open Ports

47808

// 47808 / UDP

Siemens BACnet-Server 1.2.0

Instance ID: 29
Object Name: N143_IP_Gateway_BACnet_KNX
Location: Skagen Strand
Vendor Name: Siemens Building Technologies
Application Software: 1.2.0
Firmware: 1.2.0
Model Name: Siemens BACnet-Server
Description: Lejlighed21-24+29-32

47.190.51.246

Regular View Raw Data

// TAGS

// LAST SEEN: 2023-12-15

General Information

Hostnames static-47-190-51-246.crtn.bx.frontiernet.net

Domains FRONTIERNET.NET

Country United States

City Carrollton

Organization Frontier Communications of America, Inc.

ISP Frontier Communications of America, Inc.

ASN AS5650

Open Ports

47808

// 47808 / UDP

1203977988 | 2023-12-15T17:38:18.815580

Siemens BACnet Field Panel PXME V3.4 BACnet 4.3g

Instance ID: 7803
Object Name: DDCPXCH3
Vendor Name: Siemens Industry Inc., Bldg Tech
Application Software: BNE1265_0040
Firmware: PXME V3.4 BACnet 4.3g
Model Name: Siemens BACnet Field Panel

185.218.81.18

Regular View Raw Data

// TAGS

// LAST SEEN: 2023-12-15

General Information

Country Denmark

City Ålbæk

Organization Aalbaek Bugt Faellesantenne

ISP GlobalConnect A/S

ASN AS42525

Open Ports

47808

// 47808 / UDP

1156933814 | 2023-12-15T17:22:32.830063

Siemens BACnet-Server 1.2.0

Instance ID: 62
Object Name: H143_IP_Gateway_BACnet_KNX
Location: Skagen Strand
Vendor Name: Siemens Building Technologies
Application Software: 1.2.0
Firmware: 1.2.0
Model Name: Siemens BACnet-Server
Description: Lejlighed 57-64

172.95.28.174

Regular View Raw Data

// TAGS

// LAST SEEN: 2023-12-15

General Information

Hostnames static-172-95-28-174.snmn.ca.frontiernet.net

Domains FRONTIERNET.NET

Country United States

City Los Angeles

Organization Frontier Communications of America, Inc.

ISP Frontier Communications of America, Inc.

ASN AS5650

Open Ports

80 47808

// 80 / TCP

792158824 | 2023-11-28T08:20:00.525592

HTTP/1.1 200 Document Follows
Content-Type: text/html
Content-Length: 52401

// 47808 / UDP

947923197 | 2023-12-15T15:41:36.972620

Siemens BACnet Field Panel PXME V3.2.5 BACnet 4.3g

Instance ID: 7801
Object Name: PXCH-01
Location: Default Location
Vendor Name: Siemens Industry Inc., Bldg Tech

83.64.79.154

Regular ViewRaw Data

OpenMapTiles Satellite | MapTiler | OpenStreetMap contributors

// TAGS: ics, starttls, vpn

General Information

Hostnames

autodiscover.aida.at
mail.aida.at
server.aida.at

Domains

AIDA.AT

Country

Austria

City

Vienna

Organization

Aida Produktions GesmbH. & CoKG

ISP

T-Mobile Austria GmbH

ASN

AS8412

Open Ports

698044350058747808

// 69 / UDP1136816110 | 2023-12-13T07:31:33.567249

TFTP
\\x00\\x05\\x00\\x05Unknown transfer ID\\x00

// 80 / TCP-100381255 | 2023-12-12T08:51:06.713538

Microsoft IIS httpd 100
HTTP/1.1 403 Forbidden
Server: Microsoft-IIS/10.0
Date: Tue, 12 Dec 2023 08:51:03 GMT
Content-Length: 0

96.65.204.242

Regular ViewRaw Data

OpenMapTiles Satellite | MapTiler | OpenStreetMap contributors

// TAGS: ics

General Information

Hostnames

96-65-204-242-static.hfc.comcastbusiness.net

Domains

COMCASTBUSINESS.NET

Country

United States

City

Portland

Organization

Comcast Cable Communications, LLC

ISP

Comcast Cable Communications, LLC

ASN

AS33490

Open Ports

218047808

// 21 / TCP-2080669131 | 2023-11-30T08:43:02.748801

Nucleus ftpd 1.5
220 Nucleus FTP Server (Version 1.5) ready.
530 Not logged in.

// 80 / TCP745816407 | 2023-12-12T20:05:28.832465

HTTP/1.1 200 Document Follows
Content-Type: text/html
Cache-Control: max-age=0
Last-Modified: FRI, 08 OCT 2021 10:49:36 GMT
Content-Length: 11584

207.195.44.248

Regular ViewRaw Data

OpenMapTiles Satellite | MapTiler | OpenStreetMap contributors

// TAGS: ics

General Information

Hostnames

www.mary.pacsd6.sk.ca

Domains

PACSD6.SK.CA

Country

Canada

City

Prince Albert

Organization

Government of Saskatchewan Communitynet

ISP

Saskatchewan Telecommunications

ASN

AS399844

Open Ports

8044347808

// 80 / TCP-198148176 | 2023-12-08T02:18:07.991452

HTTP/1.1 200 OK
Content-Security-Policy: connect-src 'self' workbench ws://207.195.44.248:80 wss://207.195.44.248:80; default-src 'self' wor
kbench; img-src 'self' workbench data: module; report-uri /csp-reports; script-src 'self' workbench 'unsafe-inline' 'unsafe
-eval'; style-src 'self' workbench 'unsafe-inline'
X-Content-Type-Options: nosniff
X-Frame-Options: SAMEORIGIN
X-XSS-Protection: 1; mode=block
Content-Type: text/html;charset=utf-8
Set-Cookie: niagara_current_sso_scheme=; Path=/; Expires=Thu, 01-Jan-1970 00:00:00 GMT; Max-Age=0; HttpOnly; SameSite=Lax
Expires: Thu, 01-Jan-1970 00:00:00 GMT
Set-Cookie: niagara_failure_cause=; Path=/; Expires=Thu, 01-Jan-1970 00:00:00 GMT; Max-Age=0; HttpOnly; SameSite=Lax
Set-Cookie: niagara_failure_info=; Path=/; Expires=Thu, 01-Jan-1970 00:00:00 GMT; Max-Age=0; HttpOnly; SameSite=Lax
Content-Length: 2378