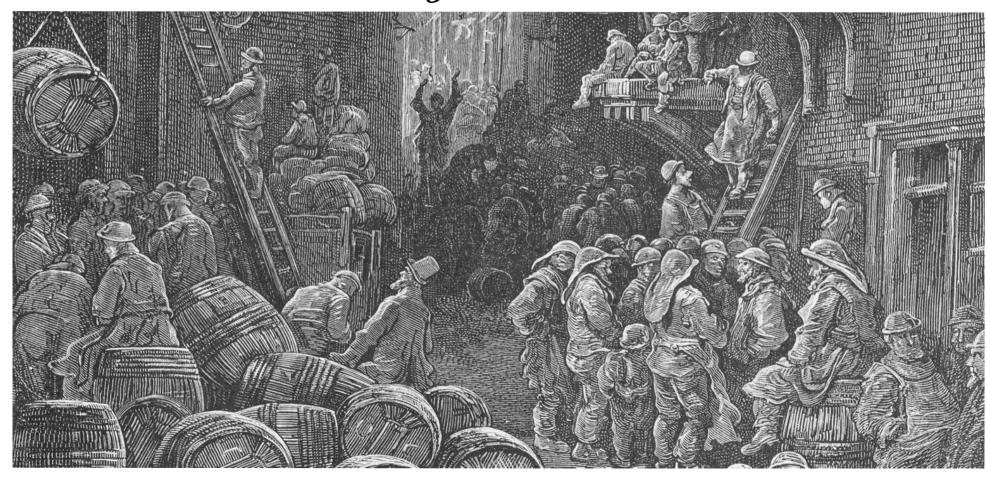
# The Tale Of Phineas Fisher



## Who Am I

Jake~ @CyberPunkJake JAKE@LOWLIFE.TECH

- ★ Member of the ORG (@OpenRightsGroup) supporter Council
- ♣ Organiser for ORG Birmingham (@OpenRightsBrum)
- ★ Co-Founder of @DC44121
- **★** Club 2077

# First of all

What do two titans of the surveillance industry, a bitcoin broker, a police union, a national bank and a leading political party all have in common?



## Gamma Industries

"Hacking is a tool.

It's not selling hacking tools that makes Gamma evil, It's who their customers are targeting and with what purpose that makes them evil."

-Phineas Fisher



## GI - Why?



### GI - Chapter 1 The Support Site

"In the case of FinFisher what led me to the vulnerable finsupport finfisher.com was simply a whois lookup of finfisher.com which found it registered to the name."

-Phineas Fisher



### GI - Chapter 2 Escalation & Pivot

"Finsupport was running the latest version of Debian with no local root exploits"

-Phineas Fisher



## GI - Prologue

The **qateam/** folder is a copy of what appeared to be a QA server with copies of all their Finspy Mobile malware.

www/FinFisher folder – Where customers downloaded their products after purchase. Encrypted ZIPs and GPG files. Never been decrypted.

The www/GGI folder is a copy of <a href="http://finsupport.finfisher.com/">http://finsupport.finfisher.com/</a> dump of the database which held all the information around customer support tickets.



GI-Prologue
Bahraini group, in support requests they ask for help setting up a website targetting activists in 14 Feb" -Phineas Fisher

Intelligence-Security Agency of Bosnia and Herzegovina

SSNS - NBSZ Hungary secret service

Technical engineer for KLPD (dutch police)

PCS Security Pte Ltd



# Hacking Team

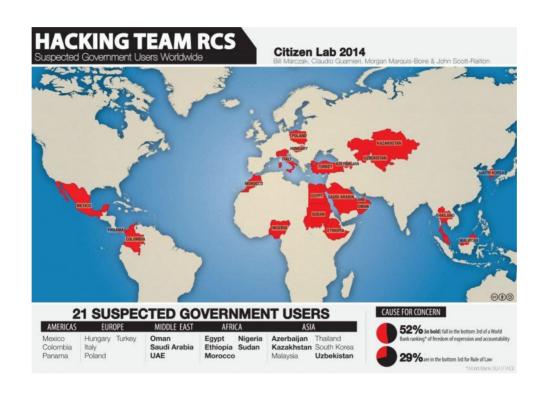
"Hacking Team had very little exposed to the internet. For example, unlike Gamma Group, their customer support site needed a client certificate to connect.

A mail server, a couple routers, two VPN appliances, and a spam filtering appliance."

-Phineas Fisher



### HT-Why?



### HT - Chapter 1 Getting In

#### Hacking Team's Public IP range:

inetnum: 93.62.139.32 - 93.62.139.47

netname: FASTWEB-HT descr: HT public subnet



# "I had three options"

A) Oday in Joomla?

B) Oday in postfix?

C) Oday in an embedded device?

# "Oday in an embedded device seemed like the easiest option and after two weeks of work reverse engineering.

I got a remote root exploit."

- Phineas Fisher

C) Oday in a SonicWall VPN appliance

<del>A) Oday in Joomla</del>

B) Oday in postfix

HT - Chapter 2 Listening

"Now inside their internal network, I wanted to take a look around and think about my next steps"

-Phineas Fisher

### **Remote Control System**

The hacking suite for governmental interception.



### HT - Chapter 2 Listening

"Their insecure backups were the vulnerability that opened their doors."

-Phineas Fisher



#### 2.3 SAN (Storage Area Network) primaria

La tabella seguente illustra le caratteristiche della SAN primaria (Equallogic PS4000).

Equallogic PS4000			
Slot	16		
NIC(s)	6		
HD(s)	16×93151 Gb SATA 7,200 rpm		
Indirizzi IP	192168 130103 (BCSI)		
	192168 130104 (GCSI)		
	19 2 1 68 .200 1 2 (mgmt.)		

#### 2.4 SAN (Storage Area Network) di backup

La tabella seguente illustra le caratteristiche della SAN di backup (Dell MD3000i).

Dell MD300i			
Slot	14		
NIC(s)	4		
HD(s)	8 x 136.73 Gb + 5 x 419 87 Gb SAS 15 rpm		
Indirizzi IP	19 2.168.130.101 (GCSI)		
	19 2.168.130.102 (GCSI)		
	19 2 1 68 . 200 . 10 (mg mt.)		
	19 2 1 68 . 200 . 11 (mg mt.)		



HT - Chapter 3 From backups to domain admin



]HackingTeam[

### HT - Chapter 3 From backups to domain admin

```
HACKINGTEAM
             BESAdmin
                            bes32678!!!
HACKINGTEAM
             Administrator
                            uu8dd8ndd12!
HACKINGTEAM
                            P4ssword
                                          <---- lol great sysadmin
             c.pozzi
HACKTNGTFAM
                            ioLK/(90
             m_romeo
HACKINGTEAM
            1.guerra
                            41uc@=.=
             d.martinez
                            W4tudul3sp
HACKINGTEAM
                            GCBr0s0705!
HACKINGTEAM
             g.russo
HACKINGTEAM
             a.scarafile
                            Cd4432996111
HACKINGTEAM r.viscardi
                            Ht2015!
HACKINGTEAM
             a.mino
                            A!e$$andra
HACKTNGTFAM
             m.bettini
                            Ettore&Bella0314
HACKINGTEAM
             m.luppi
                            Blackou7
             s.gallucci
                            159i8m4o!
HACKINGTEAM
HACKINGTEAM d.milan
                            set!dob66
HACKINGTEAM
             w.furlan
                            Blu3.B3rry!
             d.romualdi
HACKINGTEAM
                            Rd13136f@#
HACKINGTEAM
            1.invernizzi
                            L0r3nz0123!
HACKTNGTFAM
             e.ciceri
                            202571&2F
HACKINGTEAM e.rabe
                            erab@4HT!
```



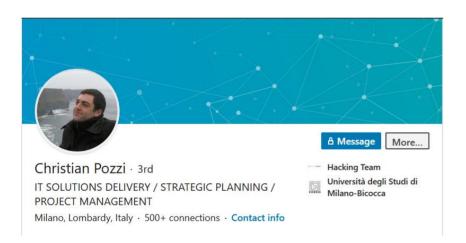
### HT - Chapter 3 From backups to domain admin

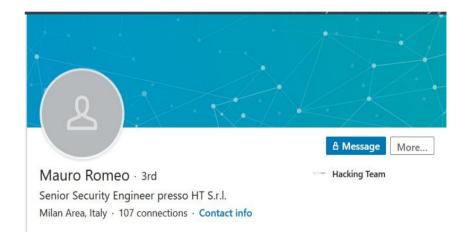
Name	Last modified	Size
→ Go to parent directory		
Amministrazione/	06-Jul-2015 04:42	
Client Wiki/	06-Jul-2015 04:41	
Confluence/	06-Jul-2015 03:52	
FAE DiskStation/	06-Jul-2015 04:46	
FileServer/	06-Jul-2015 04:33	
KnowledgeBase/	06-Jul-2015 05:04	
audio/	06-Jul-2015 08:40	
c.pozzi/	06-Jul-2015 04:03	
git/	06-Jul-2015 05:28	
gitlab/	06-Jul-2015 04:53	
m.romeo/	06-Jul-2015 04:12	
mail/	06-Jul-2015 21:51	
mail2/	06-Jul-2015 21:05	
mail3/	06-Jul-2015 21:49	
rcs-dev\share/	06-Jul-2015 04:53	
Exploit Delivery Network android.tar.gz	06-Jul-2015 06:43	797.1M
Exploit_Delivery_Network_windows.tar.gz	06-Jul-2015 06:42	716.5M
HackingTeamDataDump_archive.torrent	06-Jul-2015 03:49	2.4K
HackingTeamDataDump_files.xml	02-Dec-2018 19:19	55.9M
HackingTeamDataDump_meta.xml	17-Aug-2018 02:17	816.0B
ia_thumb.jpg	07-Jul-2018 07:26	17.0K
hackedteam.torrent	06-Jul-2015 03:49	23.6M
hackedteam_torrent.txt	06-Jul-2015 21:51	29.1M
support.hackingteam.com.tar.gz	06-Jul-2015 21:00	15.2G



### HT - Chapter 4 Hunting Sysadmins

"I searched the computers of Mauro Romeo and Christian Pozzi to see how they administer the Sviluppo network"







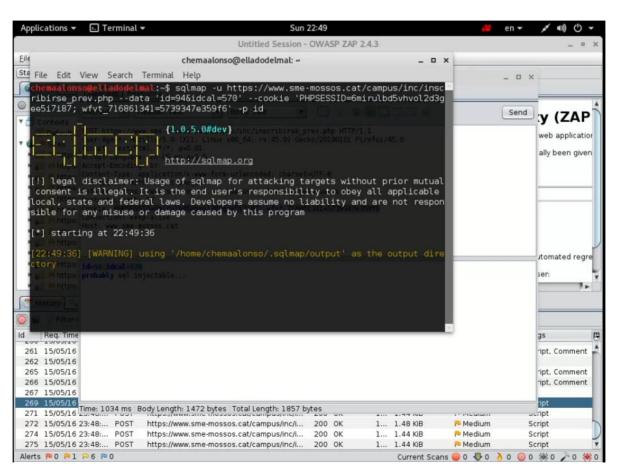
HT - Chapter 5 The Bridge

"I'd found the bridge I needed."
-Phineas Fisher

# Sindicat De Mossos d'Esquadra



### SME - Chapter 1 Hack Back!

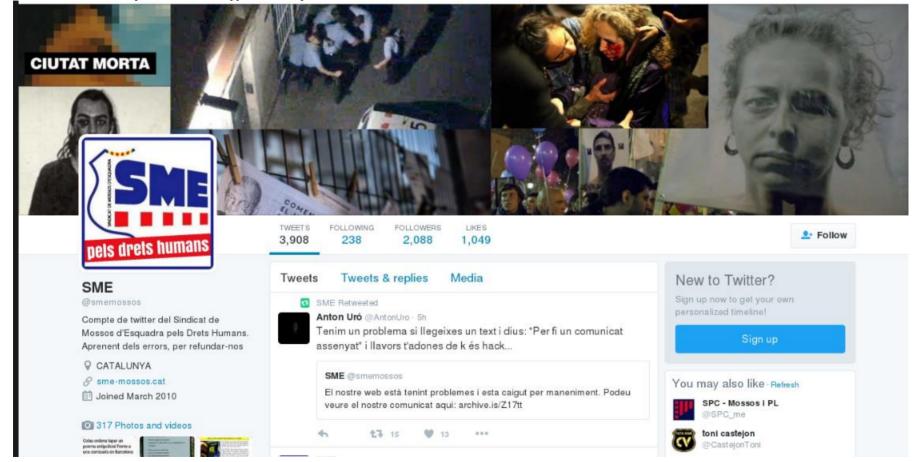




### SME - Chapter 3 Taking Backups



### SME - Chapter 3 Taking Backups



# The Bank Job

### TBJ - Chapter 1 Anarchy





"Rojava is one of the most inspiring revolutionary projects in the world today. I just donated €10,000 in bitcoin"

-Phineas Fisher





#### 9 January 2014

- The PYD officially announced its regional autonomy and formed
   the Constitution of Rojava.
- Dubbed the start of a social revolution in the area which promotes:
- A Cooperative economy
- Direct democracy
- Ethnic minority rights
- Restorative justice
- . Women's rights
- Banning of child marriages and honour killings
- Religious freedom













#### Transaction View information about a bitcoin transaction

b264bf297f21ec53d7dfc4aa408ed64a8794c9def013c82c89aa64ae27a429ac

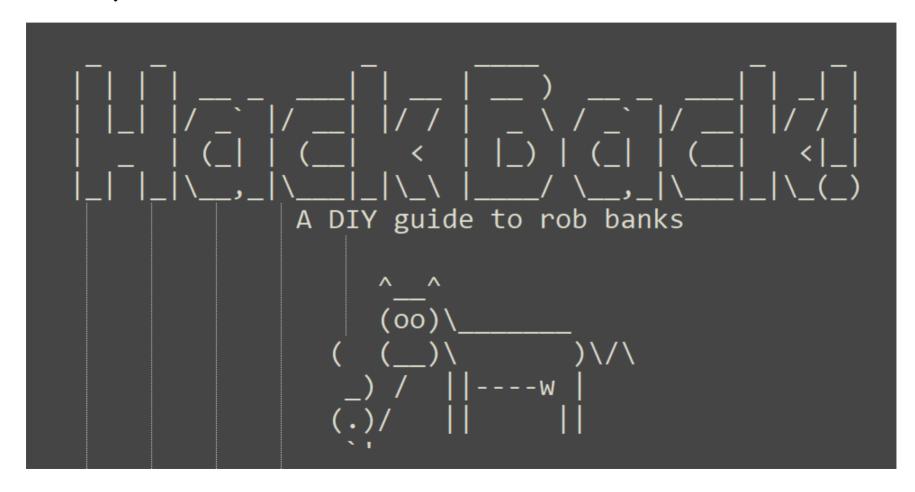
1P8qg7S5D8qy6EQj3b5SbTZsHDhb1mQKzn 12xTHFgdQNEAQaJ2Nf2js5JFsPYEdzjjxp



3.86268491 BTC 25.54408909 BTC

29.406774 BTC

### TBI - Chapter 3 Disclosure





"it was a total shitshow and didn't accomplish anything, but the public narrative of what happened is not correct"

-Phineas Fisher



### AKP - Chapter 1 Wikileaks

On 19 July 2016, wikileaks released part I of leaked AKP emails, AKP is the ruling political party in Turkey, the emails leaked date back to 2010

They then post part II in 5 August 2016

The leaks are from the party's TLD akparti.org.tr

Turkey blocked Wikileaks in return.





".... attempted to seize control of several key places in Ankara, Istanbul, and elsewhere, but failed to do so after forces loyal to the state defeated them. The Council cited an erosion of secularism, elimination of democratic rule, disregard for human rights, and Turkey's loss of credibility in the international arena as reasons for the coup."

Taken from Wikipedia ~



#### AKP - Chapter 2 Misunderstanding







## Aftermath - sme

"I think the Mossos just arrested some people that retweeted the link to their personal info"

-Phineas Fisher

### Aftermath - Hacking Team



1 Oct 2013 - 28 Feb 2019

You have: \$0.00 + @ 0.00000 = \$0.0

Buy STC at \$2,721.52

1. Verify Your ID

2. Order Coins

3. Shipping Address

4. Make a Payment

**Your Gift Cards** 

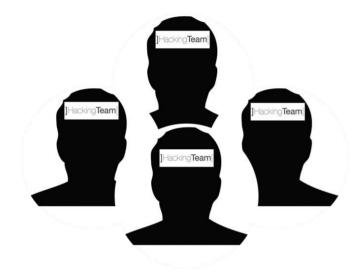
#### Welcome to the home of the Bitcoin gift card.

Our brand new bitcoin gift card is a simple and secure way to buy bitcoins, delivered to you through the mail. Each of our cards is the size of a business card and comes with a secure private key written on the back. To get your bitcoins, scratch off your gift card and then enter its key online at our website. If you already have a bitcoin wallet, you can enter your bitcoin address and withdraw your bitcoins immediately. Or, you can choose to use the physical gift card as your bitcoin wallet. Our cards come in \$5, \$20, \$50, \$100 and \$500 gift card amounts.



When you scratch off and redeem a gift card, it will be automatically converted into Bitcoins at the current exchange rate. The exchange rate that you get will be whatever is currently listed on Coinbase, a trusted and low-priced Bitcoin exchange. Our bitcoin giftcards are designed for resale; they can easily be given away to friends or sold in physical locations such as convenience stores.

You can pay for your Bitcoins through Paypal. Our gift cards ship to the United States and Canada within a few days.



Former Hacking Team employees

"....the company was more worried about selling spyware than keeping away hackers"

"If it wasn't for that system [Phineas Fisher] would have never arrived at the internal dev network"



Daniele Milan (former chief operations manager)

"The company didn't want too much security otherwise it would hinder the speed of software development"

"No one was assigned to the task of updating software"



David Vincenzetti CEO

- Claimed former employees were "infidels" and "traitors"
- Staff that left plotted to destroy the company and the breach was one of those plots.



David Vincenzetti CEO

#### Facts:

- Refused to upgrade his VPN software, forcing the IT workers at Hacking Team to keep older, legacy service running
- Started a witch hunt which ruined former employees and got caught trying to frame one of his staff members

Aftermath - Hacking Team

"lol what's that even mean" - Phineas Fisher

### Aftermath - Joseph Menn

```
> CULT OF THE
DEAD COW
         (U)
      How the Original
   Hacking Supergroup Might
     Just Save the World
> JOSEPH MENN
```



#### companies whose leaks I would love to pay for are:

- the mining, logging and livestock companies that plunder our beautiful Latin America (and kill land and territory defenders trying to stop them)
- companies involved in attacks on Rojava such as Baykar Makina or Havelsan
- surveillance companies such as the NSO group
- war criminals and birds of prey such as Blackwater and Halliburton
- private penitentiary companies such as GeoGroup and CoreCivic / CCA, and corporate lobbyists such as ALEC

### Aftermath - Phineas Bug Bounty Payouts

Milico - \$10,000 - First bounty to be paid

```
^""**$$$e.
                                      '$$$c
                                       "4$$b
                                        $$$$
                                     .$$$$$$
                              $$$$$e$$$$$$$$
             $$$$b ^ceeeee. 4$$ECL.F*$$$$$$
4$$$$L
              "*$$$ *=%4.$ L L$ P3$$$F $$$P"
                      "%*ebJLzb$e$$$$b $P"
                            4$$$$$$$$$$
                       """*$$$$$$$$bc
                                                .ee==d%
                                             * J$$$e*
          $.d$$$*
                                              "$$$"
```

#### Aftermath - Extractivist Leaks



# Thank you!

@CyberPunkJake JAKE@LOWLIFE.TECH

