# Hackfest 2013 War Game

Highlights & How to

#### **Prices - War Game**

- 1st place (territory points)
  - Soviet Union
  - o 9x100\$
  - 1 Offensive Security CTP
- 2nd place (territory points)
  - European Union
  - 10x No Starch books
- Best Free Thinker
  - NO! (Bryon Hart)
  - Voucher code for <u>Offensive Security Wireless</u>
    <u>Attacks</u> v.3.0 + Certification

### Side note

 Middle East got third place, they were the stealthiest team.

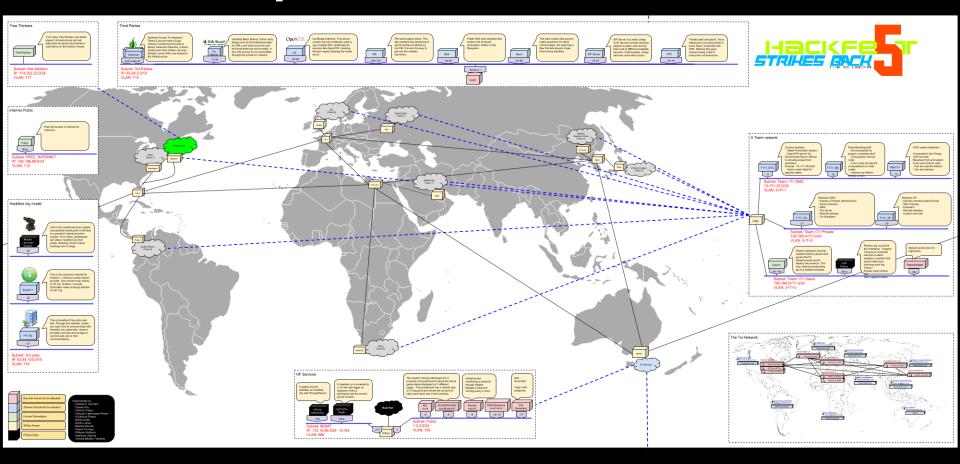
## 2013 War Game Highlights

- Hackfest city got pwned
- FTP server username/password bruteforce was hard (wtf?)
- No territory flag until leaks? (Cmon guys;))
- Challenge was harder than last year
- People were tired answering the phone

#### 2013 War Game FAILS

- FBI FAIL!
- Monitoring frontend not matching the backend
- Computation service UI not supporting google Chrome
- One of our server died 1 hour before start…
- Some bitches loved to unplug cables

# World Map



#### **Hackfest War Game Numbers**

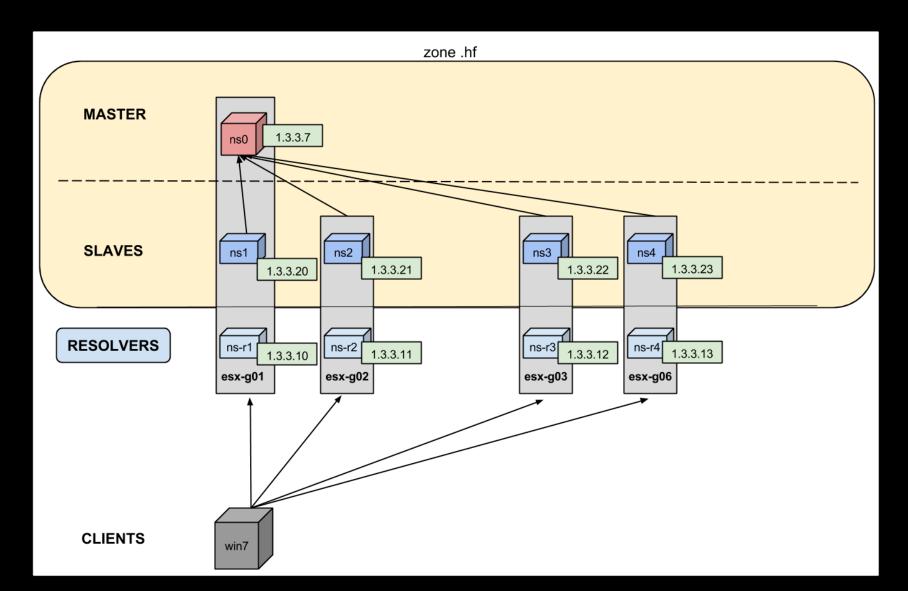
- 90 virtual machines
- 6 physical hosts
- 47 vlans
- DNS servers: 1 master, 4 slaves, 4 resolvers
- WorkHours = 12 \* RND(100, 300);
- WorkHours = between 1200 to 3600 hours
  - There's no way to know for sure...
- 12 extremely dedicated team members!
- Total of 239 flags!

## **Hackfest War Game Numbers (2)**

#### VOIP

- A total of 437/740 calls were answered! Others just failed...
- 2 teams made a call with a spoofed callerID

## **Core Infra - DNS Architecture**



#### **Teams Infra**

- Frontend
  - OpenVPN (Let players access other teams' network)
  - Water purification system
  - Computation service (Make it yourself exploits)

VoIP services

#### Teams Infra

- Backend
  - Windows XP
  - Windows 2k3 (Domain Controller)
  - Real life weaknesses
    - SAM cracking
    - Weak passwords
    - In-memory cleartext passwords
    - Pass the hash
    - Weak custom services
    - Password reutilization
    - Autologon config
  - Freesshd service vuln
  - SQL priv escalation

#### **Third Parties**

#### TOR

- 18 TOR nodes (18 relays, 18 exit nodes, 4 directory)
- 2 VMs (redundancy)
- 9 chroot configs per server
- Hidden services, tor backdoor, black market...;)
- Real geolocation information for the TOR map
- Automated private TOR network deployment
  - This means that we have a full private TOR network deployed and working in less than 2 minutes =)

### **Third Parties**

- PPC (Parfait Petit Consultant)
  - International consultant connected to every team
  - Hack this guy, hack the world!

#### **Third Parties**

- <a href="http://fbi.hf">http://fbi.hf</a> (Fake, self hosted)
- <a href="http://nsa.hf">http://nsa.hf</a> (Fake, self hosted)
- http://bank.hf
- blackmarket.hf (436iuq5zqrtqwbbj.onion)

### Model

- Missiles launchers
  - Aim and shoot (Raspberry PI GIOS pins)
- Remotely detonated bomb
  - Call the right number to trigger the explosion
- Oil refinery
  - Fire at the refinery
- Hydro electric dam
  - Reverse the picture and do some social engineering to flood the city

## CyberWarfare Team

- Cédrik Chaput :
  - Implication : Monitoring & SSnet
- Charles F Hamilton :
  - Implication : Bank, NSA, FBI, Water purification
- Claude Roy :
  - Implication : Networking
- Guillaume Parent :
  - Implication : Networking, DNS, IRC

## CyberWarfare Team

- François Lajeunesse-Robert
  - Implication : Computation service/Nose Bleeding
- Martin Dubé :
  - Implication : Team leader / M.I.A. dad
- Martin Lemay :
  - Implication: VOIP
- Maxime Mercier :
  - Implication : Model

## CyberWarfare Team

- Patrick Pruneau :
  - Implication: CA, Open VPN track
- Philippe Godbout :
  - Implication: Scoreboard, Hydro Dam
- Stéphane Sigmen :
  - Implication: Tor, Virtualization, Windows backend

## **Special thanks**

Model:



Lock Pick & Bunker:



In Game IPS:

