



# Què necessites?

- Un ordinador amb:
  - Debian
  - Kali Linux
  - Raspbian Jessie
- Oinkcode:
  - És GRATUÏT! 😊
  - Molt recomanable
  - Obtenir el teu [aquí](#).
- Interfície de xarxa identificada:
  - `ip link show`
- Dependències prèvies:
  - `sudo apt-get install git`
- Pacència.

# Primeres passes

- Clonar el repositori:

```
git clone https://github.com/joanbono/Snorter.git`  
cd Snorter/src  
bash Snorter.sh -h
```

- Recomanat: Executa el programa fent servir un oinkcode

```
bash Snorter.sh -o <oinkcode> -i <interface>  
Ex: bash Snorter.sh -o XXXXXXXXXXXXXXXX -i eth0
```

- No Recomanat: Executa el programa sense cap oinkcode

```
bash Snorter.sh -i interface  
bash Snorter.sh -i eth0
```



- Snort i daq s'han instal·lat.

```
[+] INFO: snort-2.9.9.0 installed successfully.
```

```
[i] INFO: Adding user and group SNORT.
```

```
[i] INFO: /var/log/snort and /etc/snort created and configured.
```

```
o" )~  
'''  
-*> Snort! <*-  
Version 2.9.9.0 GRE (Build 56)  
By Martin Roesch & The Snort Team: http://www.snort.org/contact#team  
Copyright (C) 2014-2016 Cisco and/or its affiliates. All rights reserved.  
Copyright (C) 1998-2013 Sourcefire, Inc., et al.  
Using libpcap version 1.6.2  
Using PCRE version: 8.35 2014-04-04  
Using ZLIB version: 1.2.8
```

```
[+] INFO: SNORT is successfully installed and configured!
```

- Ara toca afegir la `HOME_NET` i la `EXTERNAL_NET` .

```
[!] INFO: Now it's time to edit the SNORT configuration file.
```

```
[i] INFO: Add your HOME_NET address [Ex: 192.168.1.0/24]
```

```
[!] WARNING: Press ENTER to continue. █
```

- Prémer `Intro` per continuar. Obrirà `vim` :
  - Prémer `A` per anar al final de la línia.
  - Afegeix l'adreça i la màscara de la xarxa a protegir.
  - Prémer `Esc` i després `:wq!` per desar canvis.

```
39
40 #####
41 # Step #1: Set the network variables. For more information, see README.variables
42 #####
43
44 # Setup the network addresses you are protecting
45 ipvar HOME_NET 172.16.77.0/24
46
```

- Fes el mateix per a la `EXTERNAL_NET` :

```
[i] INFO: Add your EXTERNAL_NET address [Ex: !$HOME_NET]
[!] WARNING: Press ENTER to continue. █
```

- Prémer `Intro` per continuar. Obrirà `vim` :
  - Prémer `A` per anar al final de la línia.
  - Afegir l'adreça *atacant*. Recomanat: `!$HOME_NET` .
  - Prémer `Esc` i després `:wq!` per desar canvis.

```
46
47 # Set up the external network addresses. Leave as "any" in most situations
48 ipvar EXTERNAL_NET !$HOME_NET
49
```

- Ara la sortida. Per defecte, s'habilita el format de sortida `unified2`, però pots habilitar més d'una sortida. Vaig a habilitar la sortida en CSV i format TCPdump.

```
[i] INFO: Enabling local.rules and adding a PING detection rule...  
[!] WARNING: Unified2 output configured. Configure another output?  
    1 - CSV output  
    2 - TCPdump output  
    3 - CSV and TCPdump output  
    4 - None  
  
Option [1-4]: █
```



- Ara **SNORT** arrancarà en mode **console** . Mana un **PING** des d'altra màquina per comprovar el funcionament.

```
[!] WARNING: Attempting to test ICMP rule in eth0. Send a PING to your SNORT machine. Press Ctrl+C once and wait few seconds to stop the process...

[!] WARNING: Press ENTER to continue.
01/09-12:39:29.229291  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.1 -> 172.16.77.137
01/09-12:39:29.229320  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.137 -> 172.16.77.1
01/09-12:39:30.229230  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.1 -> 172.16.77.137
01/09-12:39:30.229294  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.137 -> 172.16.77.1
01/09-12:39:31.230473  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.1 -> 172.16.77.137
01/09-12:39:31.230526  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.137 -> 172.16.77.1
01/09-12:39:32.231436  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.1 -> 172.16.77.137
01/09-12:39:32.231553  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.137 -> 172.16.77.1
01/09-12:39:33.236303  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.1 -> 172.16.77.137
01/09-12:39:33.236387  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.137 -> 172.16.77.1
01/09-12:39:34.241661  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.1 -> 172.16.77.137
01/09-12:39:34.241796  [**] [1:10000001:1] Atac per PINGS [**] [Priority: 0] {ICMP} 172.16.77.137 -> 172.16.77.1
^C*** Caught Int-Signal
snort: no process found
```

- Mostrarà una alerta de **PING** . Prémer **Ctrl+C** una vegada, i continua la instal·lació.

## Instal·lació de **Barnyard2**

- Ara toca instal·lar **BARNYARD2** si vols.
- Es demana inserir una contrassenya per la base de dades de **SNORT** que es va a crear. En l'exemple utilitzo **SNORTSQL** .

```
[!] IMPORTANT: Would you like to install BARNYARD2? [Y/n] Y
```

```
[!] WARNING: Insert new SNORT Database Password: SNORTSQL █
```

- Ara el programa instal·larà algunes dependències.
- Instal·larà `MySQL` , si no està instal·lat prèviament, hauràs d'introduir una contrassenya de `root` . En l'exemple, poso `ROOTSQL` .

```
[i] INFO: Installing dependencies.  
[!] WARNING: You will be asked for a password for MySQL service if it isn't installed in the system.  
[!] WARNING: Press ENTER to continue. █
```

- I la contrassenya del servei MySQL .

```
Configuring mysql-server-5.5
Repeat password for the MySQL "root" user:
*****
<Ok>
```

- Ara el programa pregunta la contrassenya de **MySQL** 3 vegades
- Tenir en compte: contrassenya **root** de **MySQL** 3 vegades.

```
[+] INFO: BARNYARD2 installed successfully.
```

```
[i] INFO: The SNORT database is going to be created. You will be asked for MySQL password 3 times
```

```
[!] WARNING: Press ENTER to continue.
```

```
Enter password:
```

```
Enter password:
```

```
Enter password: █
```

# Instal·lació de **PulledPork**

- Ara toca instal·lar **PulledPork** si vols.

```
[!] IMPORTANT: Would you like to install PULLEDPORK? [Y/n] Y
```

```
[i] INFO: Downloading PULLEDPORK.
```

```
Cloning into 'pulledpork'...
```

```
remote: Counting objects: 1207, done.
```

```
remote: Total 1207 (delta 0), reused 0 (delta 0), pack-reused 1207
```

```
Receiving objects: 100% (1207/1207), 249.49 KiB | 0 bytes/s, done.
```

```
Resolving deltas: 100% (814/814), done.
```

```
Checking connectivity... done.
```

```
[i] INFO: Adding PULLEDPORK to crontab. [Everyday at 4:15 AM].
```

```
PulledPork v0.7.3 - Making signature updates great again!
```

```
[+] INFO: PULLEDPORK is successfully installed and configured!
```

## Crear un `servei`

- Crear un `servei` del sistema:

```
[!] IMPORTANT: Would you like to create a service snort? [Y/n] Y  
[i] INFO: Now you can run sudo systemctl {start|stop|status} snort .
```

# Descarregar i instal·lar noves regles

- Pots descarregar i instal·lar noves regles quan tot estiga instal·lat i configurat.

```
[!] IMPORTANT: Would you like to download new rules using PULLEDPORK? [Y/n] Y
https://github.com/shirkdog/pulledpork
  -----
  \-----,\      )
  \--==\\ /      PulledPork v0.7.3 - Making signature updates great again!
  \--==\\ /
  .-~~~~-.Y|\\_ Copyright (C) 2009-2016 JJ Cummings
@_/_      / 66\ _ cummingsj@gmail.com
  |      \ \ _(")
  \      /-| ||'--' Rules give me wings!
  \_ \  \_ \ \
~~~~~
```



## Habilitar regles **Emerging Threats** i **Community**

- Habilitar automàticament al `snort.conf` les regles d' **Emerging Threats** i **Community**

```
[!] IMPORTANT: Would you like to enable Emerging Threats and Community rules for detection? [Y/n] Y
```

```
[+] SUCCESS: Emerging Threats and Community rules enabled
```

# WebSnort

- Instal·lar WebSnort per analitzar PCAPs

```
[!] IMPORTANT: Would you like to install WEBSNORT for PCAP Analysis? [Y/n] Y
```

```
[i] INFO: Installing dependencies.
```

```
[i] INFO: running WEBSNORT on http://localhost:80.
```

```
[!] IMPORTANT: Would you like to start WEBSNORT with the system? [Y/n] Y
```

```
[+] INFO: WEBSNORT is successfully installed and configured!
```

# Reiniciar

- Reiniciar el sistema.

```
[!] IMPORTANT: Would you like to REBOOT now? [Y/n] Y
```

```
[i] INFO: Rebooting...
```