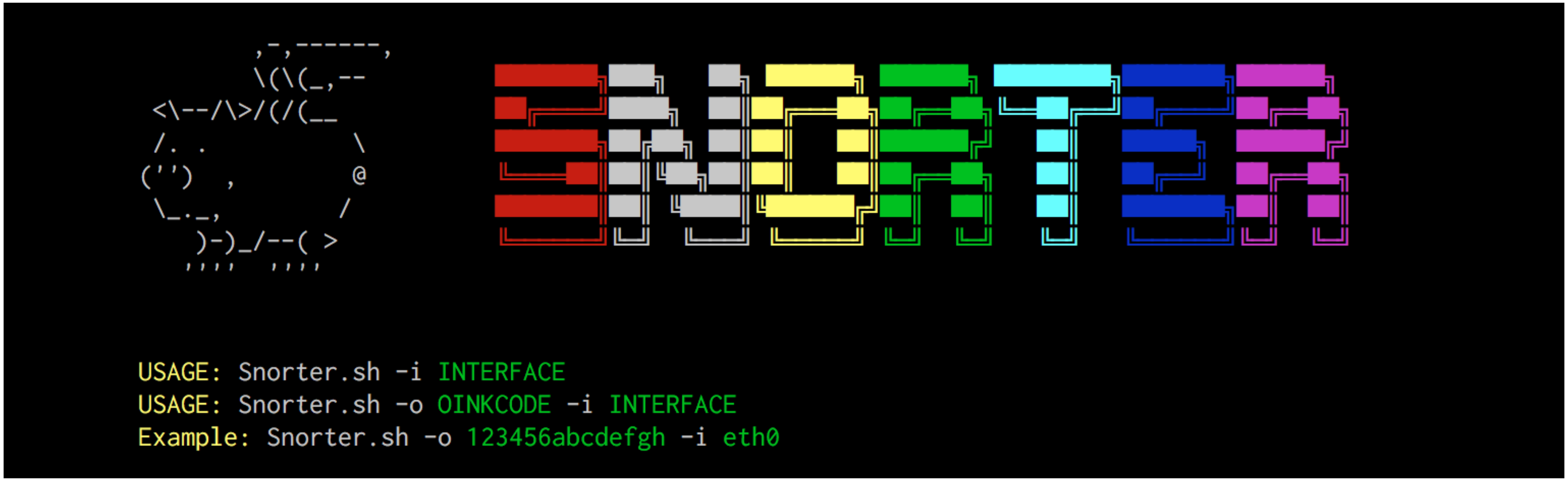


```
        ,-,-------,
        \(\(_,--
 <\--/\>/(/(__
 /. .          \
('')  ,        @
 \_._,        /
    )-)_/--( >
   ''''  ''''
```

```
USAGE: Snorter.sh -i INTERFACE
USAGE: Snorter.sh -o OINKCODE -i INTERFACE
Example: Snorter.sh -o 123456abcdefgh -i eth0
```

Snorter

Guia d'Instal·lació

Instal·la `Snort` + `Barnyard2` + `PulledPork` automàticament

@joan_bono

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
    ```
- Paciència.

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**

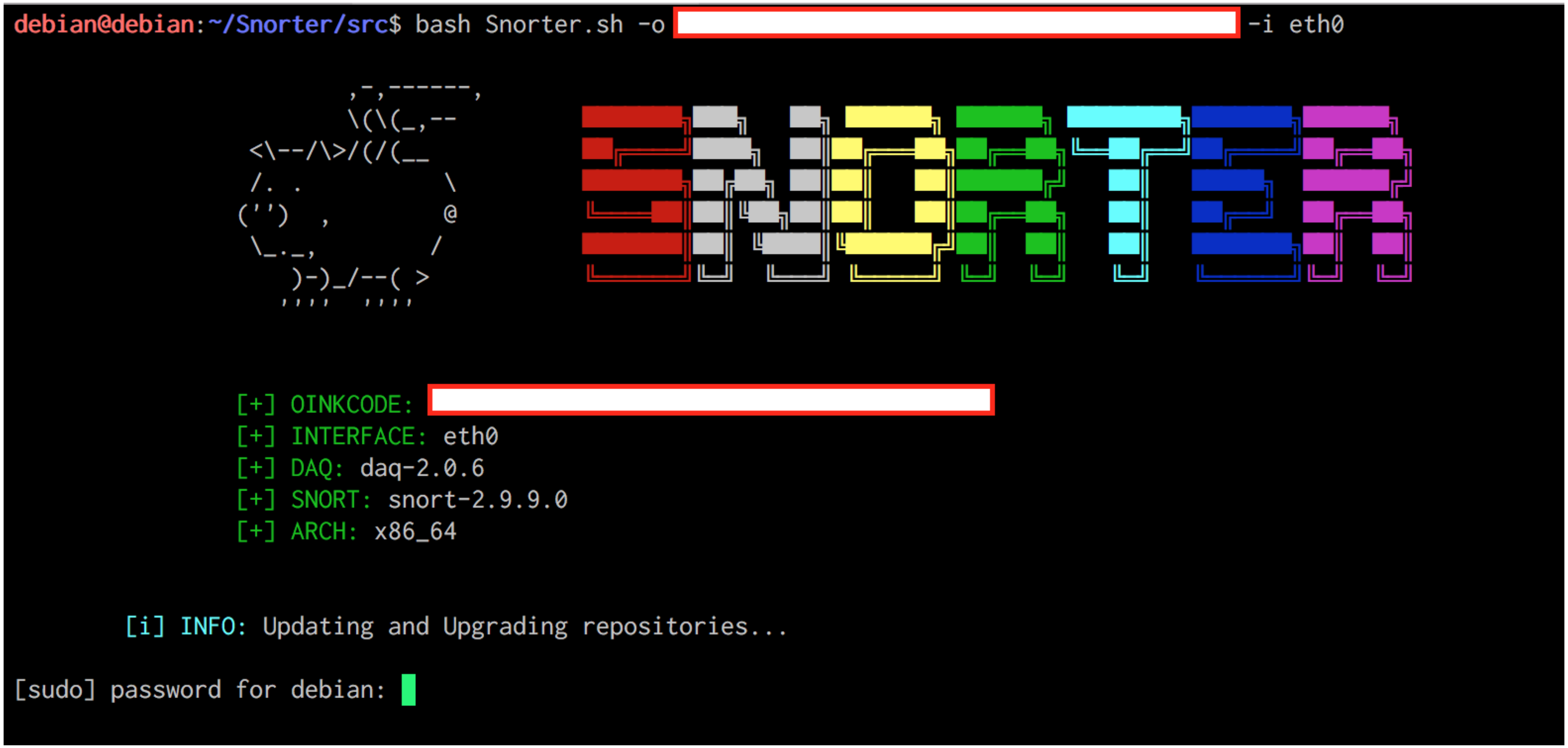
```
bash Snorter.sh -o <oinkcode> -i <interface>
Ex: bash Snorter.sh -o XXXXXXXXXXXXX -i eth0
```

- **No Recomanat**: Executa el programa sense cap **oinkcode**

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

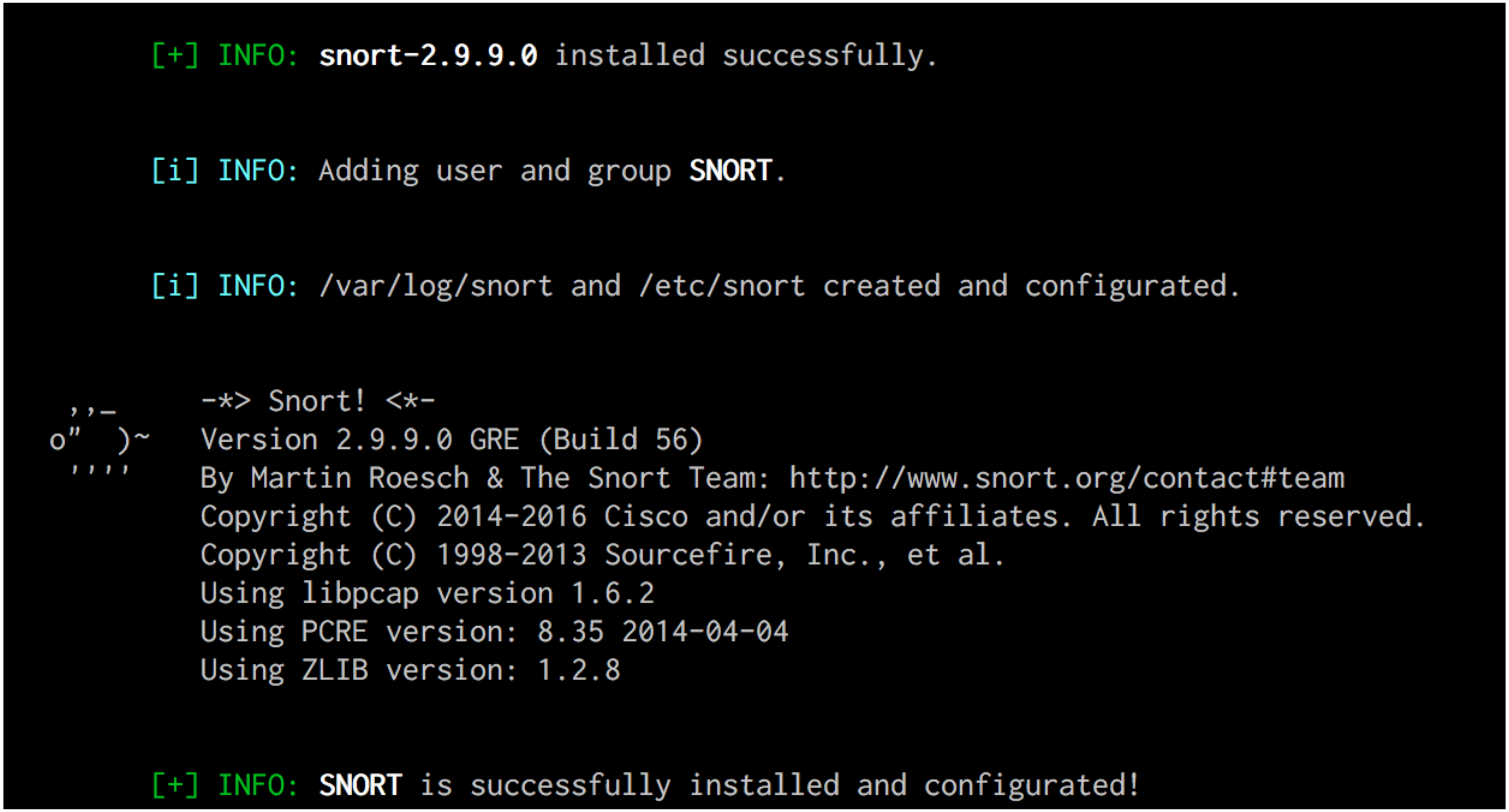
Instal·lació de `Snort`

- Contrassenya de superusuari, i esperar...



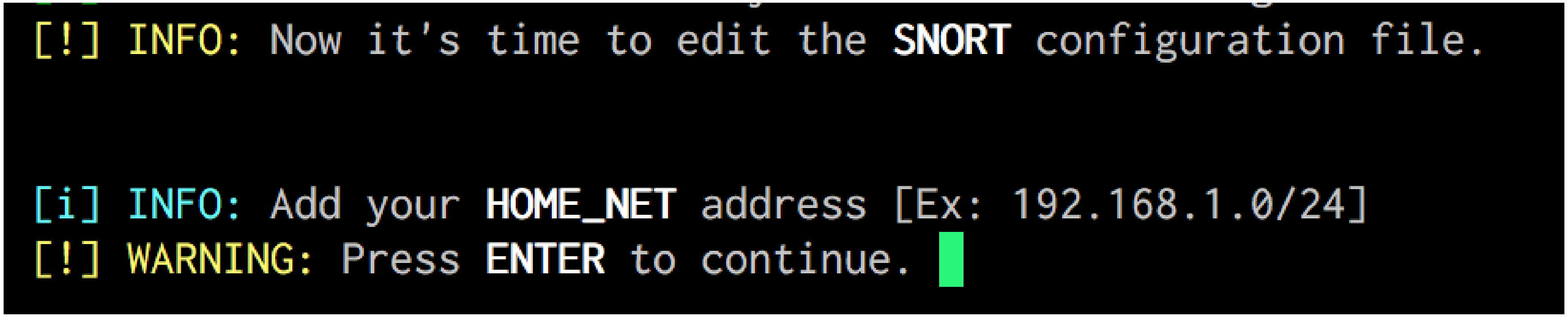
```
debian@debian:~/Snorter/src$ bash Snorter.sh -o [redacted] -i eth0

                 ,-,------,
                 \(\(_,--
            <\--/\>/(/(__
            /. .          \
           ('')   ,        @
            \_._,         /
              )-)_/--( >
             ''''  ''''


            [+] OINKCODE: [redacted]
            [+] INTERFACE: eth0
            [+] DAQ: daq-2.0.6
            [+] SNORT: snort-2.9.9.0
            [+] ARCH: x86_64


        [i] INFO: Updating and Upgrading repositories...

[sudo] password for debian:
```

- `Snort` i `daq` s'han instal·lat.



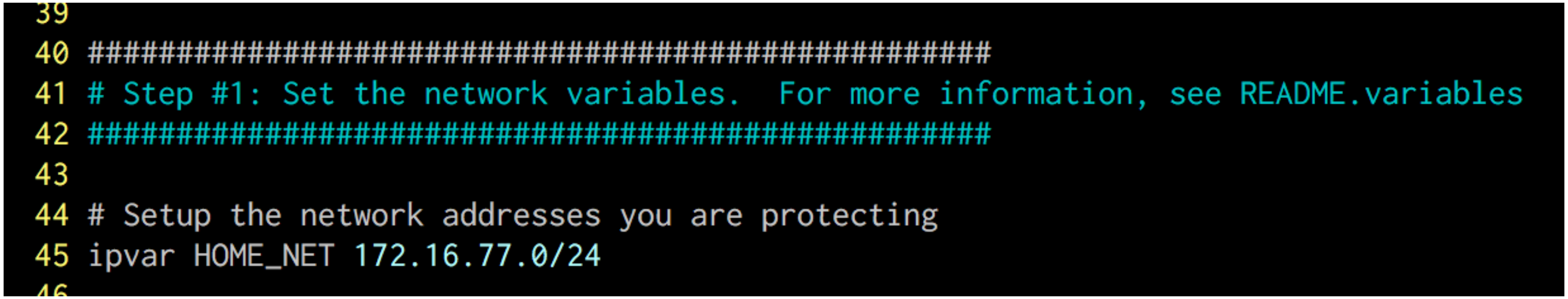
```
      [+] INFO: snort-2.9.9.0 installed successfully.


      [i] INFO: Adding user and group SNORT.


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


 ,,_     -*> Snort! <*-
o"  )~   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 configurated!
```

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



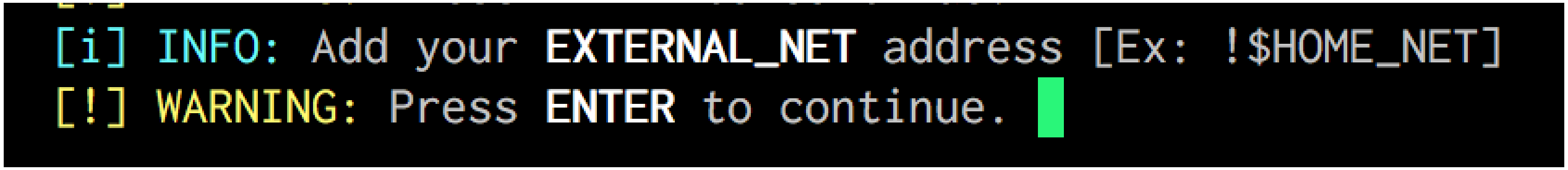
```
[!] INFO: Now it's time to edit the SNORT configuration file.


[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.



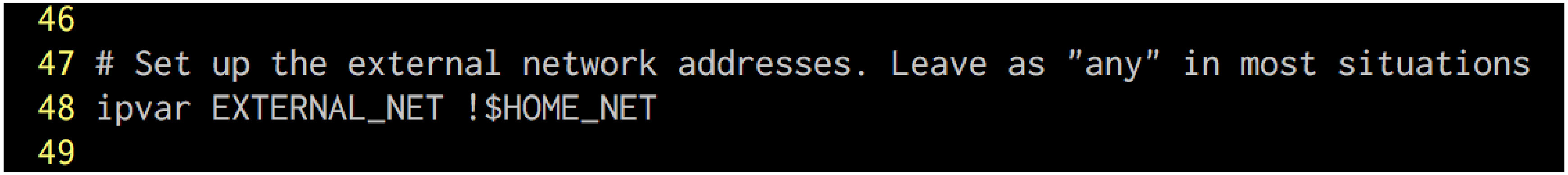
```
###################################################
# Step #1: Set the network variables.  For more information, see README.variables
###################################################

# Setup the network addresses you are protecting
ipvar HOME_NET 172.16.77.0/24
```

- Fes el mateix per a la `EXTERNAL_NET`:



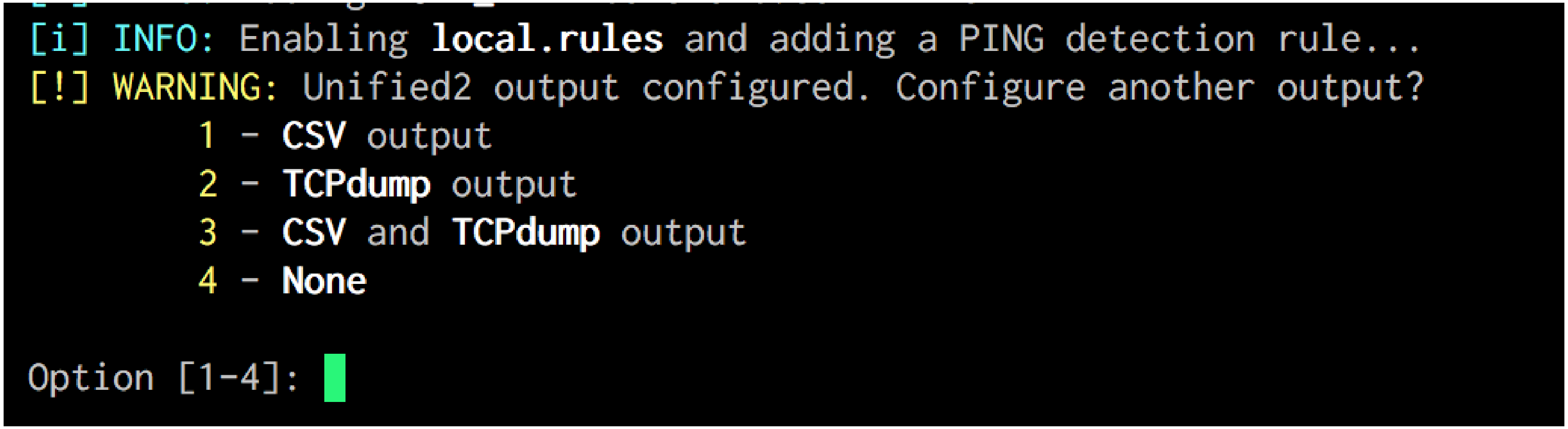
```
[i] INFO: Add your EXTERNAL_NET address [Ex: !$HOME_NET]
[!] WARNING: Press ENTER to continue.
```

- 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.



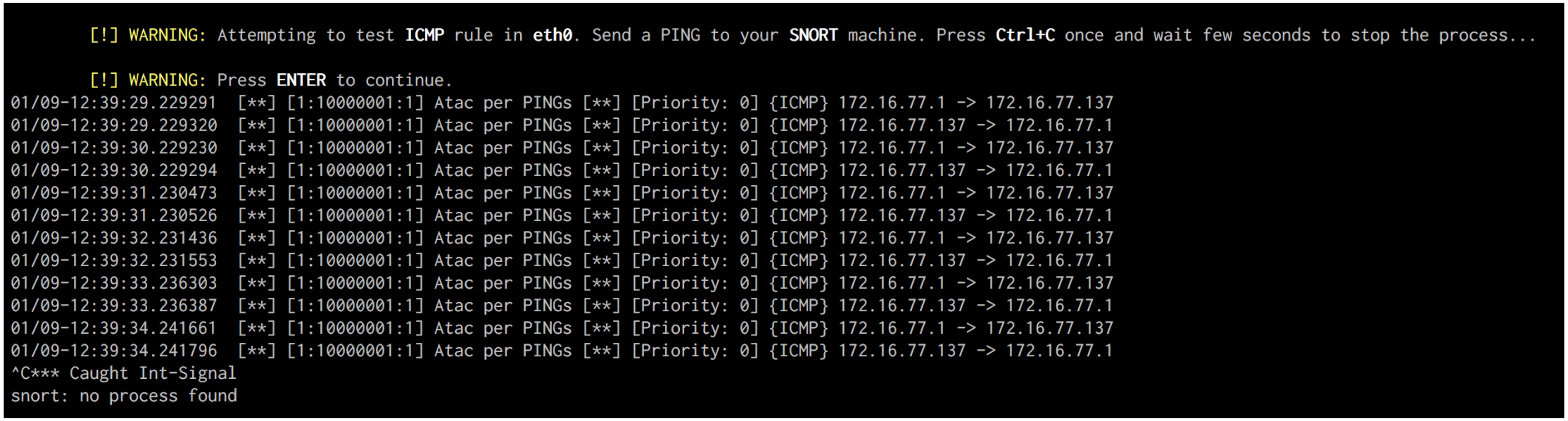
```

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

```

- 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 `consola`. Mana un `PING` des d'altra màquina per comprovar el funcionament.

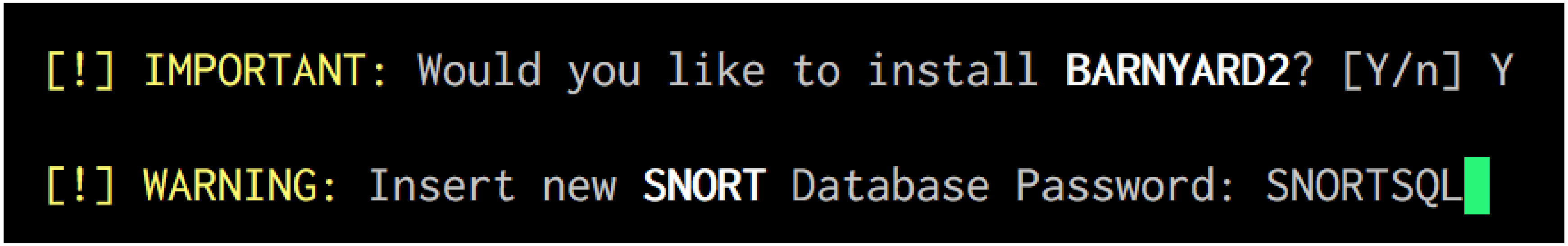


```
        [!] WARNING: Attempting to test ICMP rule in eth0. Send a PING to your SNORT machine. Press Ctrl+C once and wait few seconds to stop the process...

        [!] 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.

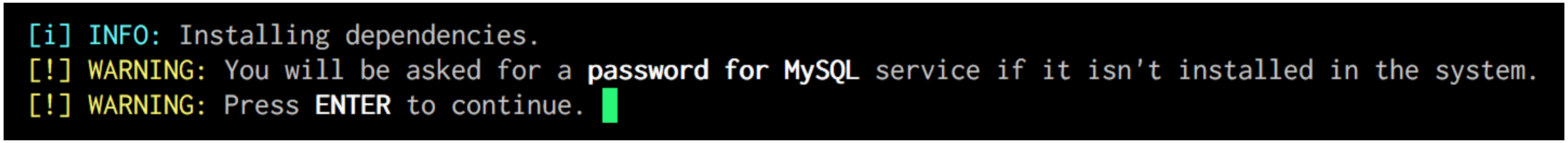
Instalació de `Barnyard2`

- 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`.



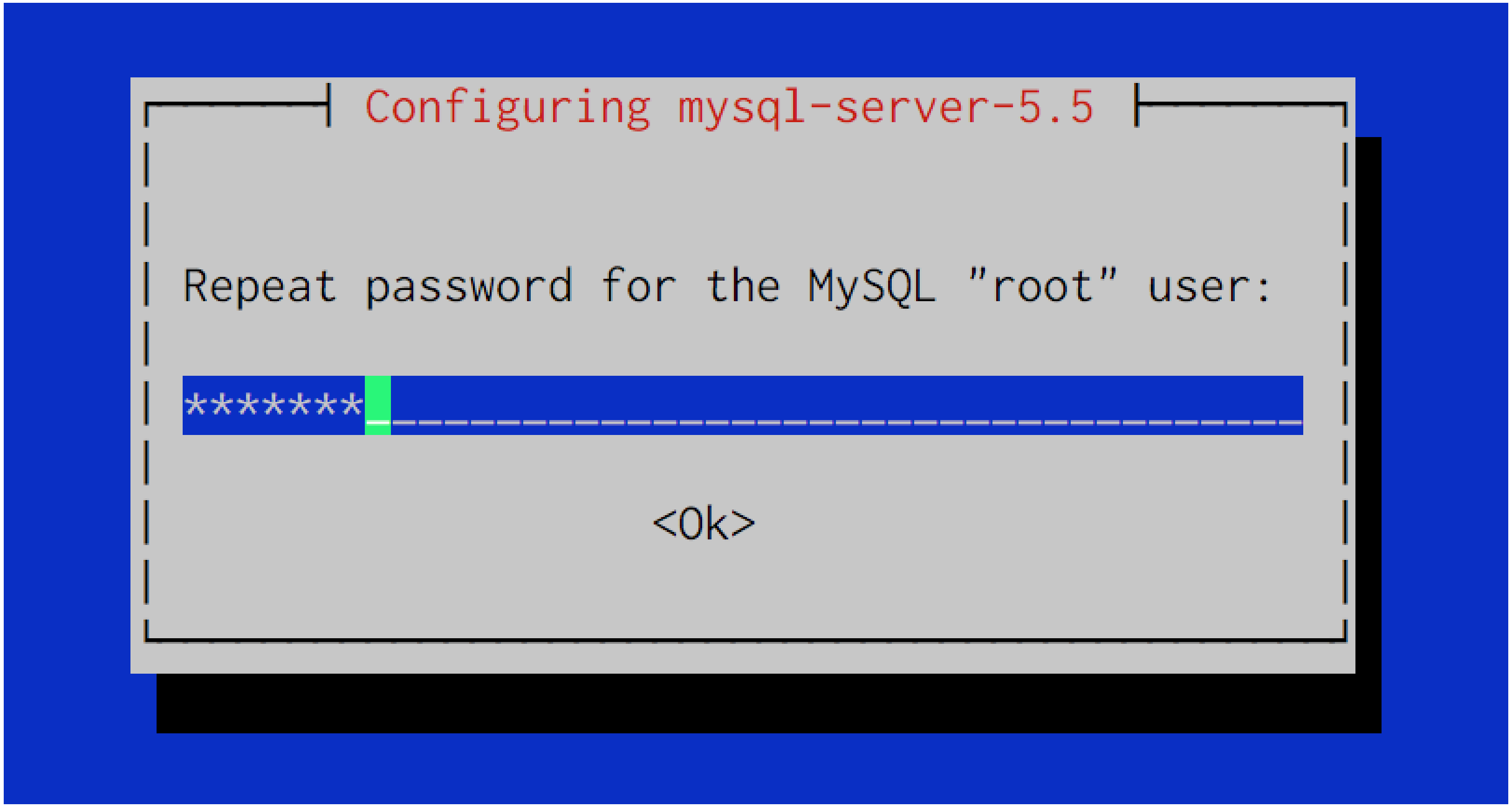
```
[!] IMPORTANT: Would you like to install BARNYARD2? [Y/n] Y

[!] 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' introduïr una contrassenya de `root`. En l'ejemplo, poso `ROOTSQL`.



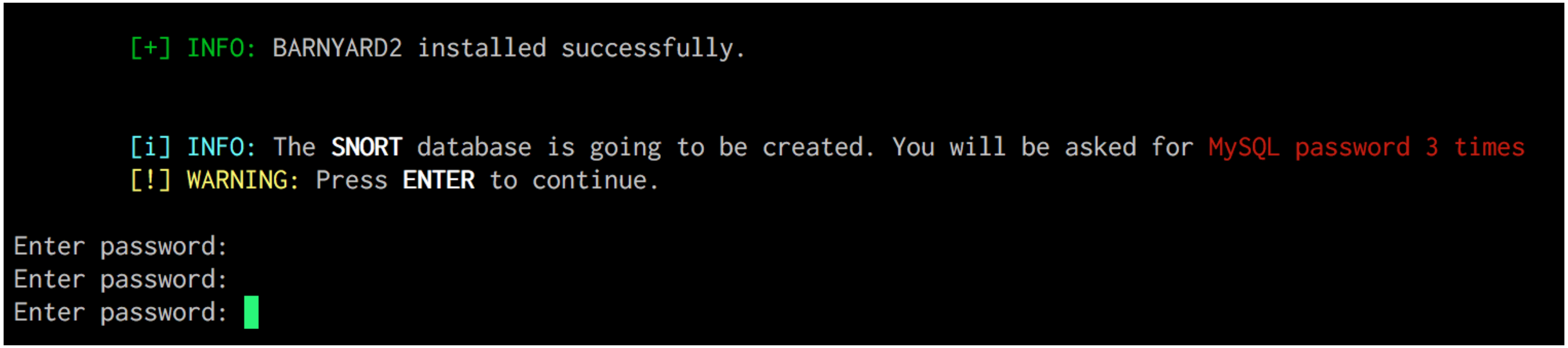
```
[i] INFO: Installing dependencies.
[!] WARNING: You will be asked for a password for MySQL service if it isn't installed in the system.
[!] WARNING: Press ENTER to continue.
```

- I la contrassenya del servei `MySQL` .



```
Configuring mysql-server-5.5

Repeat password for the MySQL "root" user:

********_

<Ok>
```

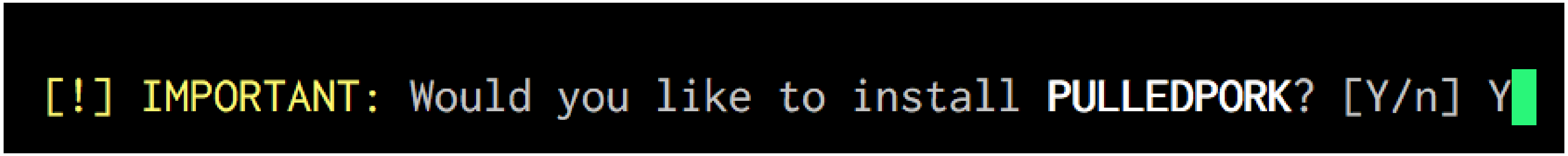
- Ara el programa pregunta la contrassenya de `MySQL` **3 vegades**
- Tenir en compte: contrassenya **`root`** de **`MySQL`** **3 vegades**.



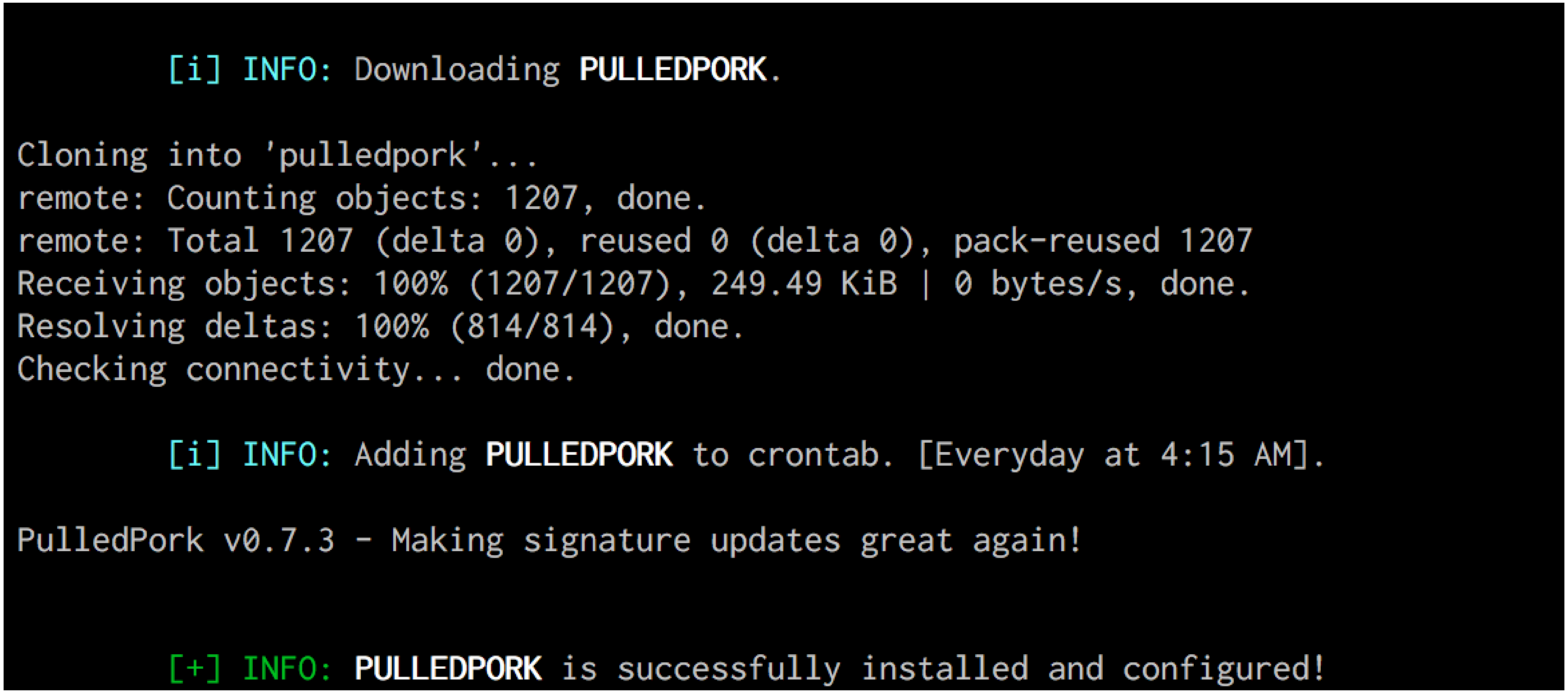
```
        [+] INFO: BARNYARD2 installed successfully.


        [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.



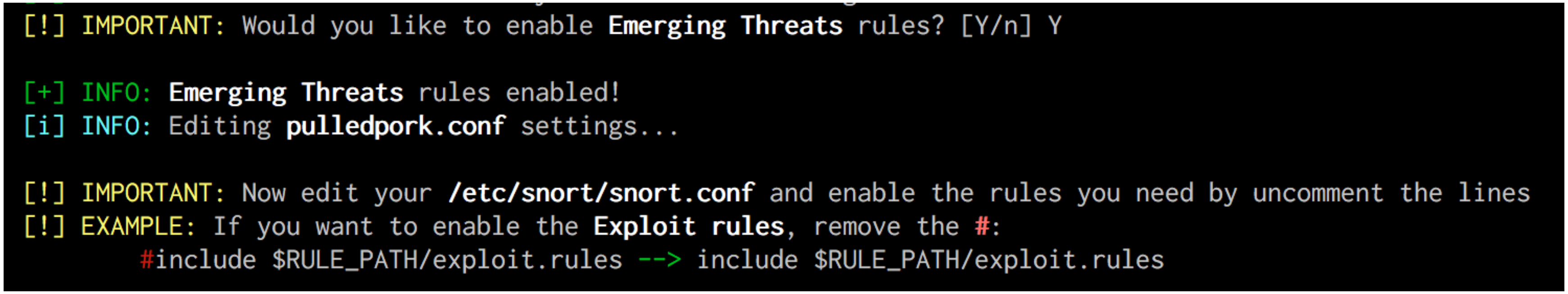
```
 [!] IMPORTANT: Would you like to install PULLEDPORK? [Y/n] Y
```



```
        [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!
```

Regles d'Emerging Threats

- Vols afegir les regles d'**Emerging Threats** junt a las regles **community** (s'instal·l´n per defecte)?

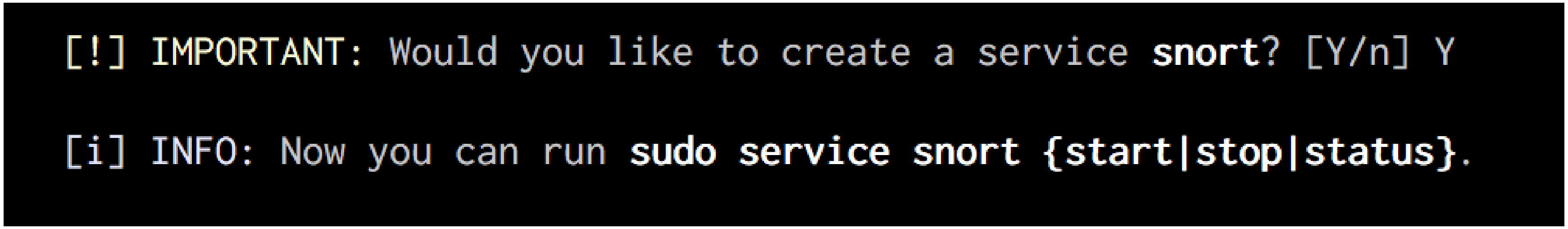


```
[!] IMPORTANT: Would you like to enable Emerging Threats rules? [Y/n] Y

[+] INFO: Emerging Threats rules enabled!
[i] INFO: Editing pulledpork.conf settings...

[!] IMPORTANT: Now edit your /etc/snort/snort.conf and enable the rules you need by uncomment the lines
[!] EXAMPLE: If you want to enable the Exploit rules, remove the #:
        #include $RULE_PATH/exploit.rules --> include $RULE_PATH/exploit.rules
```

- **Recorda** editar l'arxiu `/etc/snort/snort.conf` i borra el `#` per habilitar las regles que necessites.

Crear un `servei`

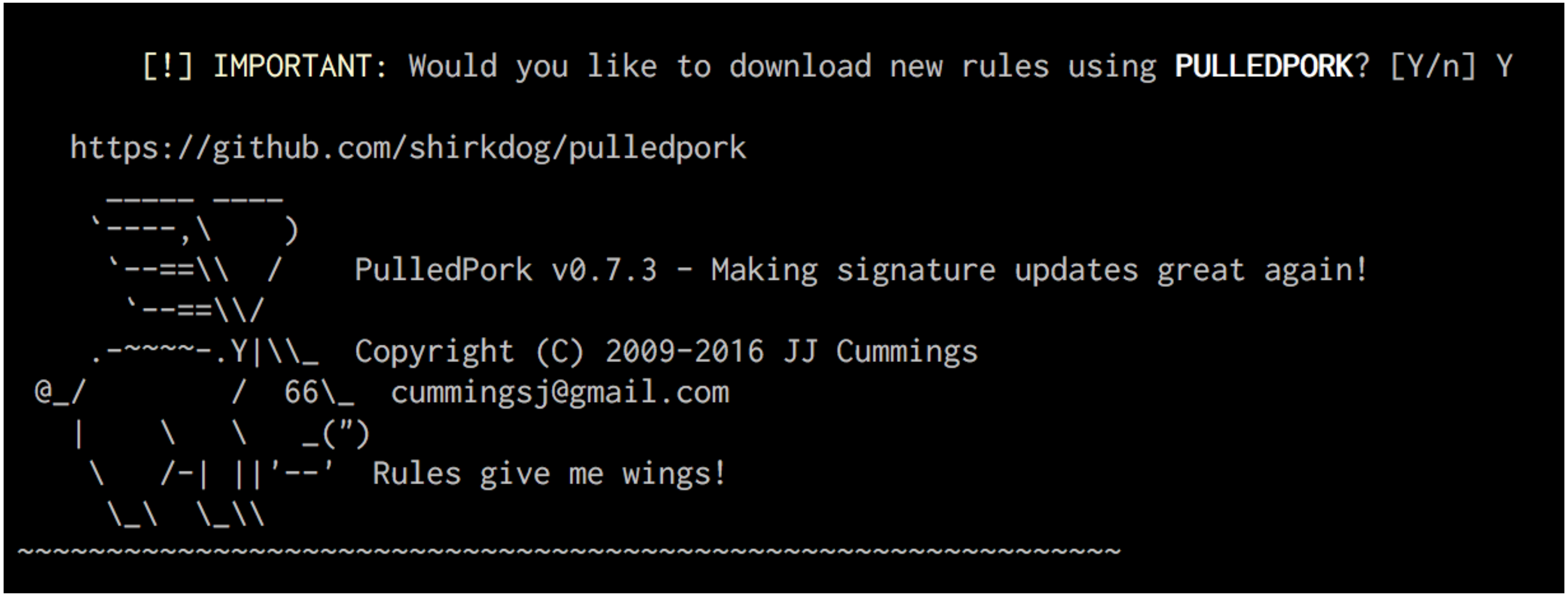
- Crear un `servei` del sistema:



```
[!] IMPORTANT: Would you like to create a service snort? [Y/n] Y

[i] INFO: Now you can run sudo service snort {start|stop|status}.
```

Descarregar i instal·lar noves regles

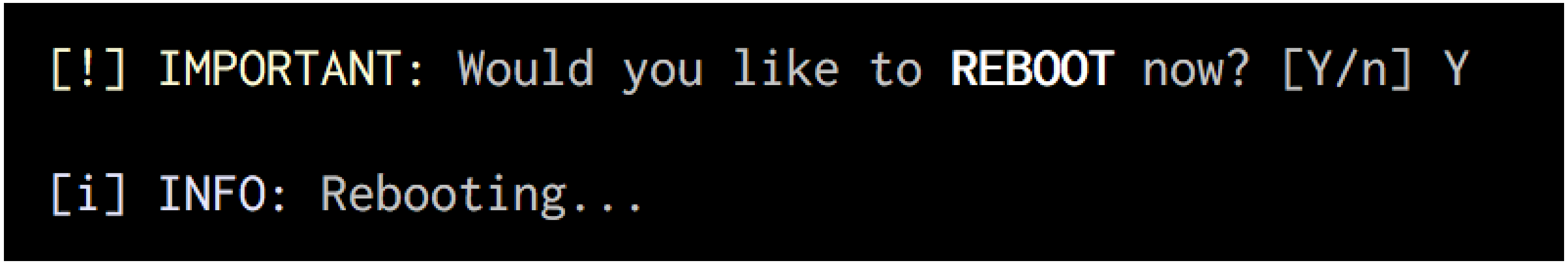
- Pots descarregar i instal·lar noves regles quan tot estiga instal·lat i configurat.



```
       [!] 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!
     \_\  \_\\
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Reiniciar

- Reiniciar el sistema.



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

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

A disfrutar!

> Per favor, s'agraeix que s'obriga **issues** si es troba cap error al programa.