Snorter

Install Guide

Install `Snort` + `Barnyard2` + `PulledPork` automatically

@joan_bono

What do you need?

- A computer running:
  - **Debian**
  - **Kali Linux**
  - **Raspbian Jessie**
- Oinkcode:
  - It's **FREE**! 😉
  - Highly recommended!
  - Get yours here.
- Identified Network Interface:
  - `ip link show`
- Previous dependencies:
  - `sudo apt-get install git`
- Patience.

First steps

- Cloning the repository:

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

- **Recommended**: Execute the program using an **oinkcode**

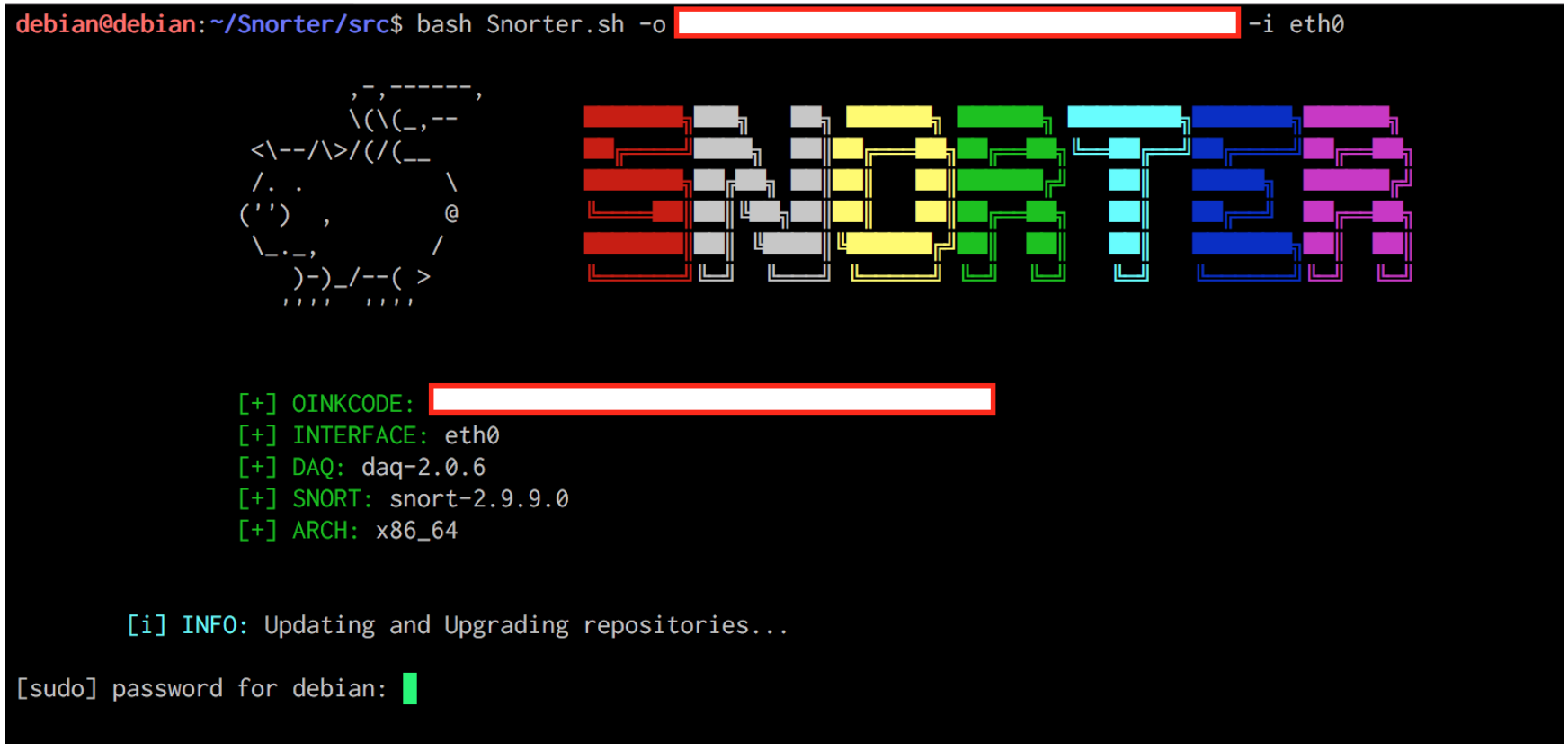
```
bash Snorter.sh -o <oinkcode> -i <interface>
Ex: bash Snorter.sh -o XXXXXXXXXXXXX -i eth0
```

- **Not Recommended**: Execute the program without an **oinkcode**

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

`Snort` installation

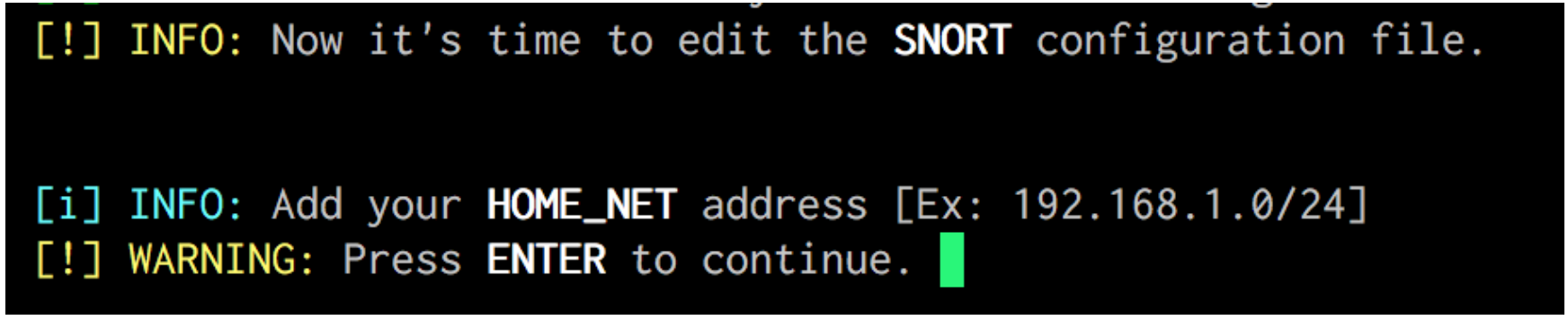
- Superuser password, and wait...



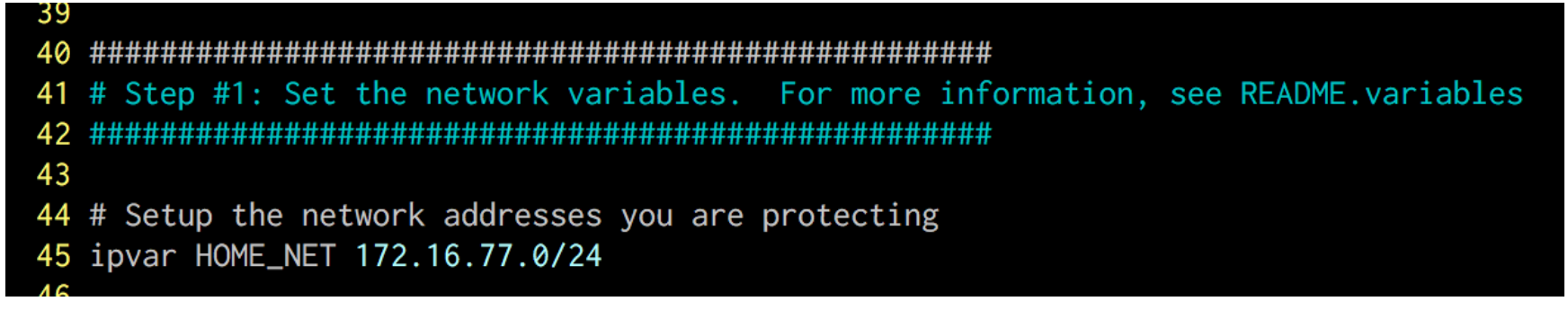
- `Snort` and `daq` are installed.

```
      [+] 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!
```

- Now it's time to add the `HOME_NET` and the `EXTERNAL_NET`.



- Press `Enter` to continue. It will open `vim`:
  - Press `A` to go to the end of the line.
  - Add the address and the mask you want to protect.
  - Press `Esc` and then `:wq!` to save the changes.



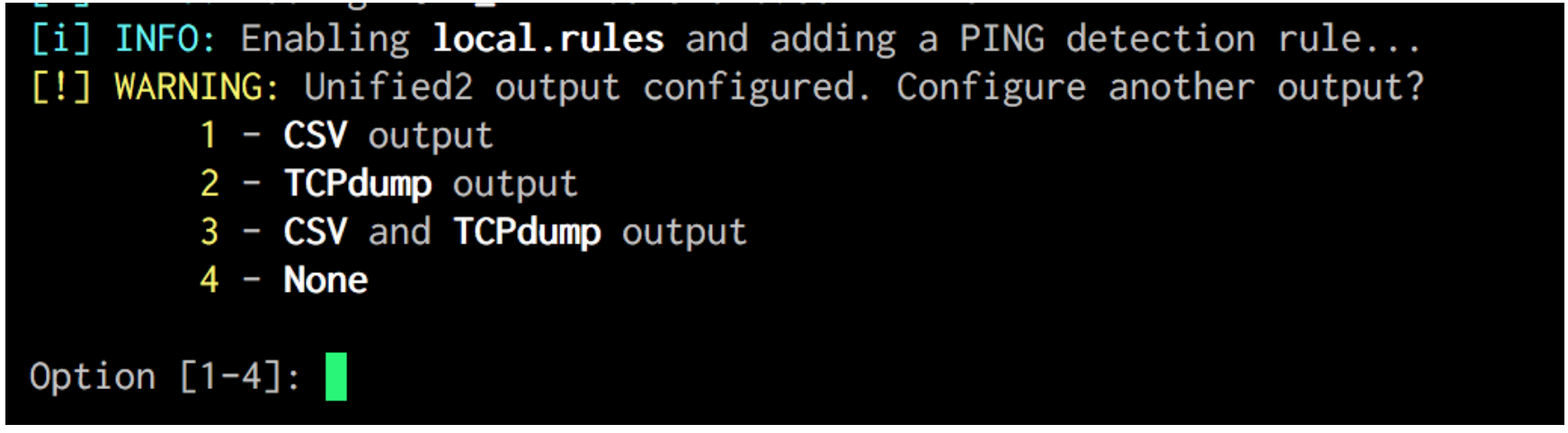
- Do the same for the `EXTERNAL_NET`:

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

- Press `Enter` to continue. It will open `vim`:
  - Press `A` to go to the end of the line.
  - Add the *attacker* address. **Recommeded**: `!$HOME_NET`.
  - Press `Esc` and then `:wq!` to save the changes.

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

- Now the **output**. By default, `unified2` output is enabled, but you can enable more than one output. I'm going to enable both **CSV** and **TCPdump** output.



- Now `SNORT` will start in `console` mode. Send a `PING` from another machine.

```
       [!] 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
```

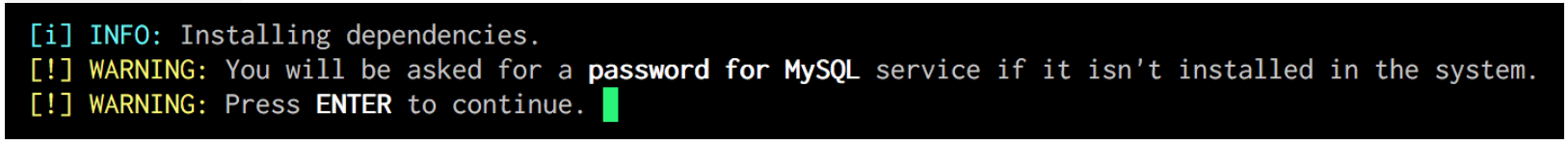
- It will show a `PING` alert. Press `Ctrl+C` **once**, and continue the installation.

`Barnyard2` installation

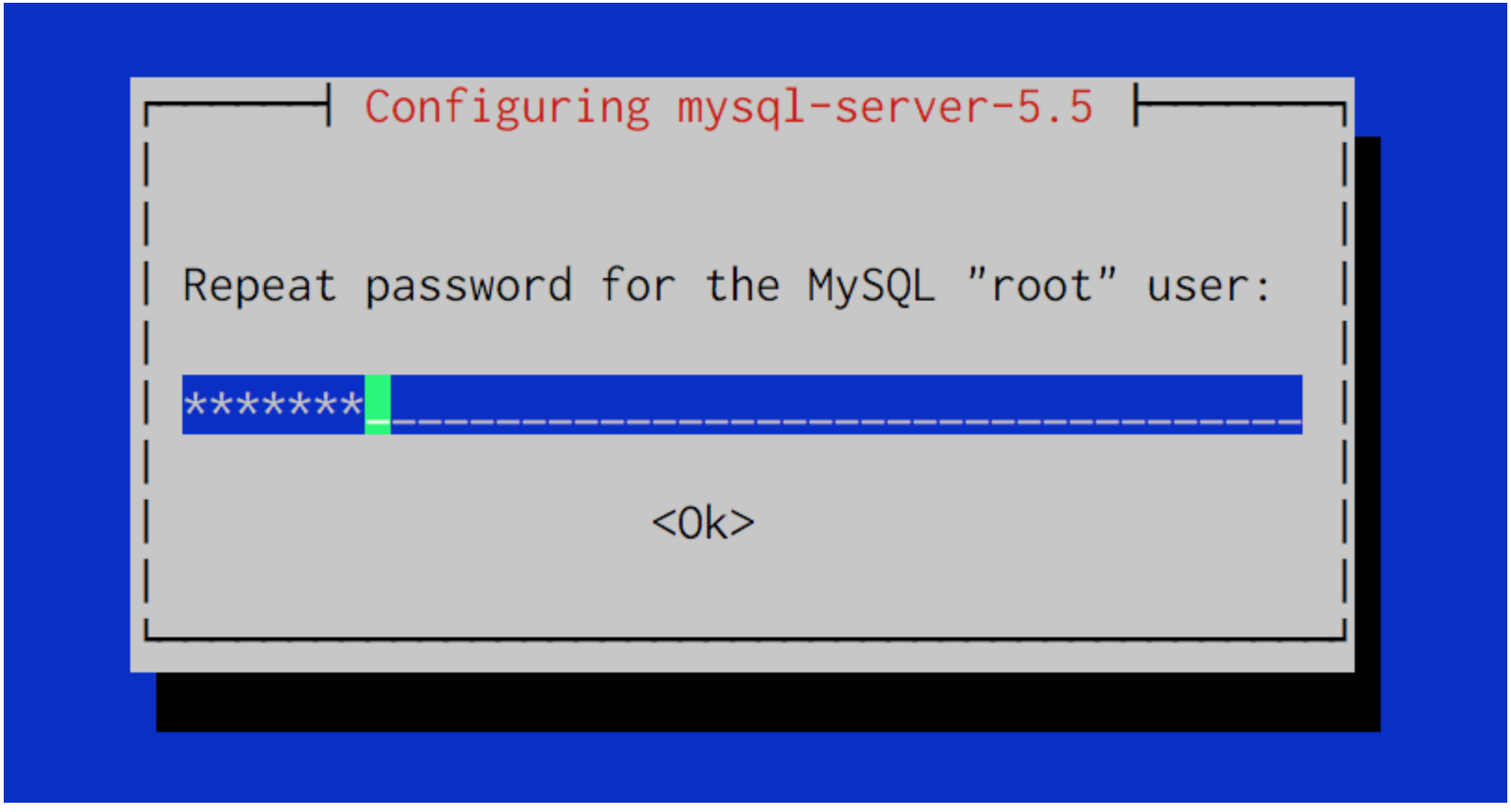
- Now it's time to install `BARNYARD2` if you want.
- You will be asked to insert a password for the `SNORT` database which is going to be created. In the example, I've used `SNORTSQL`

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

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

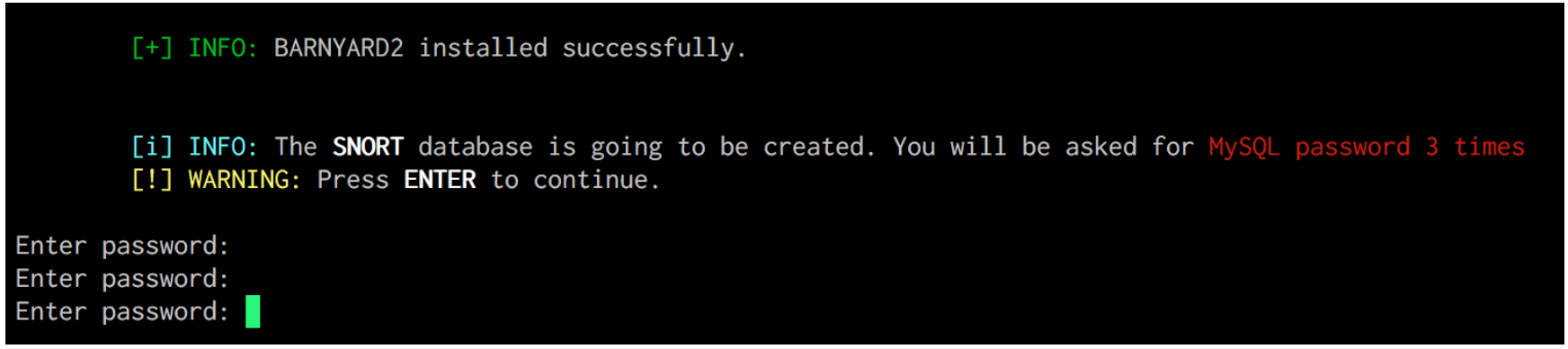
- Now the program will install dependencies.
- It's going to install `MySQL`, so if it's not installed, you will insert a password for this service too. In the example, I've used `ROOTSQL`.



- And the `MySQL` password.



- Now you are going to be asked for the `MySQL` password **3 times**
- Please keep in mind: **`MySQL`** **`root`** **password 3 times**.



`PulledPork` installation

- Now it's time to install `PulledPork` if you want.

```
[!] 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!
```

Emerging Threats ruleset

- Do you want to add the **Emerging Threats** rules and the **community** ones (enabled by default)?

```
[!] 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
```

- **Remember** to edit your `/etc/snort/snort.conf` and remove the `#` to enable the rules you want or the ones you need.

`service` creation

- Create a system `service`:

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

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

Download and install new rules

- You can download rules when everything is installed and configurated.

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

Reboot

- Reboot the system.

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

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

Enjoy!

> Please, feel free to open **issues** if you have any problem with the program.