csc-isac

Release 0.1

Jul 15, 2020

Contents:

Welcome to CSC-ISAC Project to control all the things into one project Honeypots

CHAPTER 1

Introduction

CSC-ISAC Threat Intelligence Sharing Platform is one of grant project from ISIF Foundation. The goal of the project is to consume information gathers from independent sensors (ex. Honeypots, IDS, Endpoint Detection) to have a centralized database and has independent analysis team to be able to share with the cyber security community inside South East Asia Region. Our baseline Threat Intelligence Platform based on several open source project such as:

1. Honeypot
2. MISP (Malware Information Sharing Platform)
3. NodeRed

We Integrate those open source project to cooexist and collaborate together to perform analysis and sharing platform for our community.

1.1 Threat Intelligence

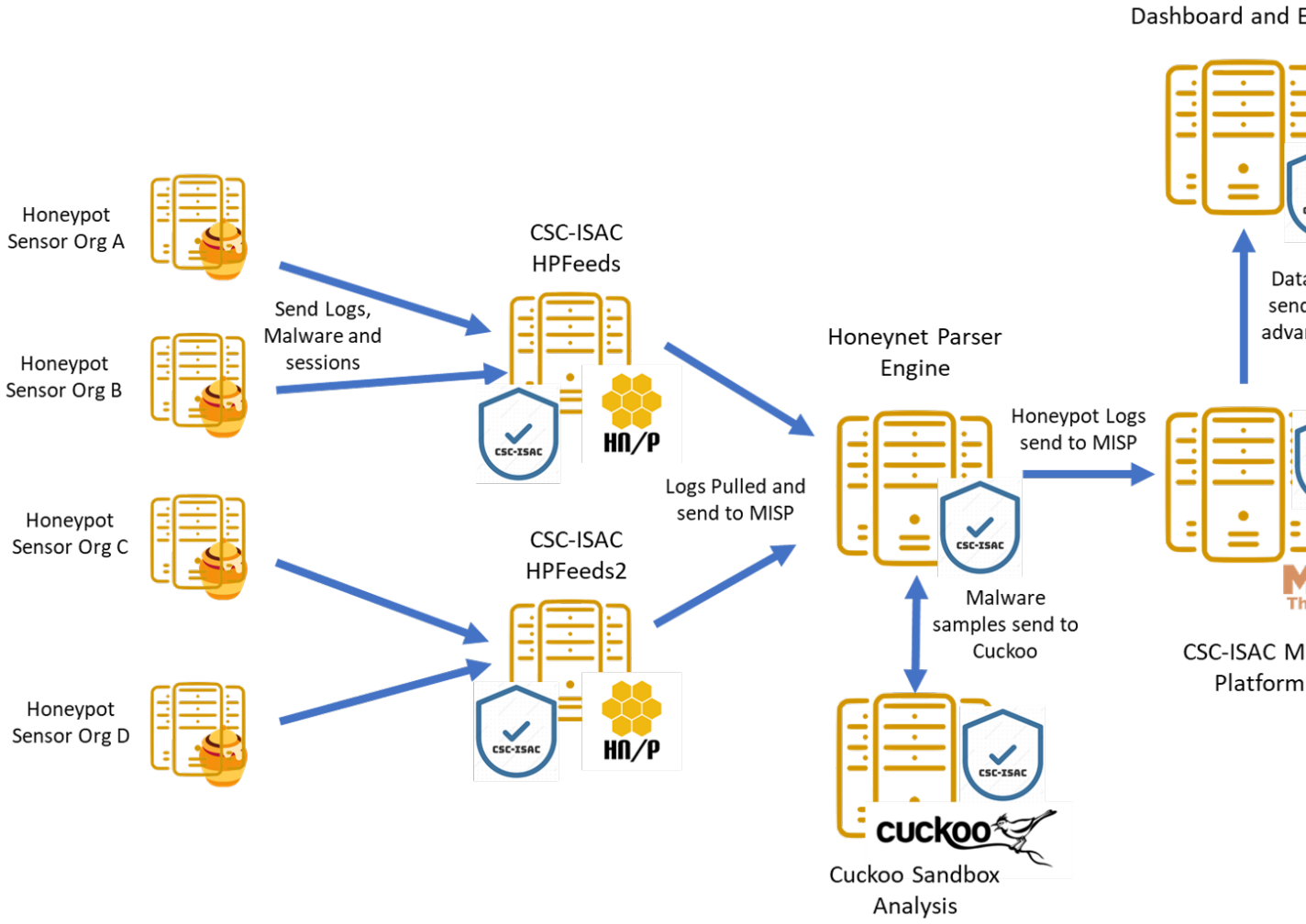
Threat intelligence is knowledge that allows you to prevent or mitigate cyberattacks. Rooted in data, threat intelligence gives you context that helps you make informed decisions about your security by answering questions like who is attacking you, what their motivations and capabilities are, and what indicators of compromise in your systems to look for. source: https://www.recordedfuture.com/threat-intelligence-definition/

1.2 What is Honeypot

A machine that attracts “Attacker”. It was made as weak and as interesting as the creator can be to attract the “Attacker” so that the “Attacker” will be interested and injecting something to the honeypot like it was the real machine.

1.3 Deployment Architecture

Our Architectures considering a scalable environment that can be integrated with various organizations and even researchers that want to contribute with our CSC-ISAC Community. The architecture is presented as follows:



1.4 Disclaimer

CSC-ISAC Threat Intelligence Platform is distributed as it is, in the hope that it will be useful, but without any warranty neither the implied merchantability or fitness for a particular purpose.

Whatever you do with this tool is uniquely your own responsibility.

1.5 Community Guidelines

The CSC-ISAC (Cyber Security Community - Information Sharing and Analysis Center) Organization is a non-profit organization incorporated as a Stichting in the Indonesia and it's mainly dedicated to support of the development and

growth of Threat Intelligence Sharing & Analysis Community across Asia Pasific Region, specifically in integration with honeypot installation and other open source platform

The organization is initally funded by ISIF Grants and operates to secure financial and infrastructure support to our software projects and coordinates the development and contributions from the community.

CHAPTER 2

Installation

In this manual you will learn to install honeypot (specifically, Dionaea and Cowrie honeypot) using existing docker images that have been created and distributed through github or docker hub.

2.1 Preparing The Honeypot Sensor

2.2 Cowrie

Cowrie is a medium interaction honeypot that works on two protocols, Secure Shell (SSH) and Telnet. Cowrie will record any activity that happened in the honeypot throughout the whole session.

Services and port number list: Secure Shell (SSH) : port 22 Telnet : port 23

In this section, you will learn how to install and run cowrie honeypot using docker. The installation of cowrie is implemented by using existing Dockerfile that is required to be reconfigured before the user builds the docker image.

Firstly, clone the honeypot Dockerfile by using this command:

```
Docker pull cowrie/cowrie
```

Then, run the docker image by using this command:

```
Docker run cowrie:devel
```

At this moment, you would notice that cowrie honeypot us listening on port 2222 for SSH protocol and 2223 for telnet protocol. This however, will not ensure that you will gain any data since those two port numbers are considered as illegitimate ports usage. Thus, a change is needed to set the port number into the default port number for each service. In order to configure the settings of the docker image, you will need to access the docker image as root:

```
docker exec -u 0 -ti container_id /bin/bash
```

Once you get inside the docker images as root, run this command to install the necessary tools in order to access the settings.

```
Apt-get update
Apt-get install nano
Apt-get install authbind
```

After that, access the "etc" directory inside the "cowrie-git" folder by using this command:

```
Cd /cowrie-git/etc
```

Now, copy the the configuration file "cowrie.cfg.dist" into "cowrie.cfg" and open it using the command below:

```
cp cowrie.cfg.dist cowrie.cfg
nano cowrie.cfg
```

Then, change the configuration in the script:

```
[ssh]
enabled = true
listen_endpoints = tcp:22:interface:0.0.0.0

[telnet]
enabled = true
listen_endpoints = tcp:23:interface:0.0.0.0


[output_hpfeeds]
enabled = true
server = ip_address
port = 10000
identifier = your_identifier
secret = your secret
debug = false

[output_hpfeeds3]
enabled = true
server = ip_address
port = 10000
identifier = your_identifier
secret = your_secret
debug = false
```

Add the command above inside the script ("cowrie.cfg" file), save the changes and proceed to build the docker image by going to the path /home/your_user/tpotce/docker. When you reach that path, execute this command to build cowrie's docker image:

```
sudo docker build cowrie
```

Once it is finished, you will need to push the repository into docker hub so that you can run it. In order to push the docker image into docker hub, you should register yourself in the docker hub website. After that, initiate a docker login by using the command :

```
Docker login --username=your_username --email=your_email@domain.com
```

If everything worked out, you will get a similar message

```
WARNING: login credentials saved in /home/username/.docker/config.json
Login Succeeded
```

Now, you can check your docker image. You will see similar messages

The repository "none" means that your docker image has been successfully built, but does not have any repository yet. Now, you have to push the docker image "none" to your repository. First of all, make sure to create a repository in your docker hub account through the website. Then, using this command to tag the docker image you would like to push into the repository: docker tag image_id your_username/repo_name:tag_name

After you successfully tag your docker image, push it into the repository by using this command:

```
docker push yourusername/repo_name
```

Once it is pushed, it will presentate the previously pushed docker image with the name of its repository

Finally, you just need to run the docker image that you have built. Simply enter the command below to run the docker:

```
Sudo docker run image_name:tag_name
```

Note that if you can run the command without giving any input the tag of the docker image. However, the tag will be considered as latest by default. Therefore, it is recommended to use the complete command to avoid any confusion if you have docker images with the same name but different settings or configuration.

2.2.1 Listening on port 22 and 23

```
Note: this service emulated by Cowrie so the attacker will be trapped
```

At this moment, you would notice that cowrie honeypot us listening on port 2222 for SSH protocol and 2223 for telnet protocol. This however, will not ensure that you will gain any data since those two port numbers are considered as illegitimate ports usage. Thus, a change is needed to set the port number into the default port number for each service. In order to configure the settings of the docker image, you will need to access the docker image as root:

```
docker exec -u 0 -ti container_id /bin/bash
```

Once you get inside the docker images as root, run this command to install the necessary tools in order to access the settings.

```
Apt-get update
Apt-get install nano
Apt-get install authbind
```

After that, access the "etc" directory inside the "cowrie-git" folder by using this command:

```
Cd /cowrie-git/etc
```

Now, copy the the configuration file "cowrie.cfg.dist" into "cowrie.cfg" and open it using the command below:

```
Cp cowrie.cfg.dist cowrie.cfg
Nano cowrie.cfg

sudo touch /etc/authbind/byport/23
sudo chown cowrie:cowrie /etc/authbind/byport/23
sudo chmod 770 /etc/authbind/byport/23
```

Port redirection commands are system-wide and need to be executed as root. A firewall redirect can make your existing SSH server unreachable, remember to move the existing server to a different port number first.

The following firewall rule will forward incoming traffic on port 22 to port 2222 on Linux:

```
sudo iptables -t nat -A PREROUTING -p tcp --dport 22 -j REDIRECT --to-port 2222
```

Or for telnet:

```
sudo iptables -t nat -A PREROUTING -p tcp --dport 23 -j REDIRECT --to-port 2223
```

```
$ sudo touch /etc/authbind/byport/23
$ sudo chown cowrie:cowrie /etc/authbind/byport/23
$ sudo chmod 770 /etc/authbind/byport/23
```

2.3 Dionaea

Dionaea honeypot is a low interaction honeypot that works in multiple protocols that is listed below as well as its default port number:

```
FTP            : port 20/TCP and 21/TCP
Nameserver     : port 42/TCP
TFTP           : port 69/UDP
HTTP           : port 80/TCP
HTTPS          : port 443/TCP
MSRPC          : port 135/TCP
SNMP           : port 161/UDP
SMB            : port 445/TCP
MS-SQL         : port 1433/TCP
MYSQL          : port 3306/TCP
SIP            : port 5060/TCP
SIP-TLS        : port 5061/TCP
Memcached      : port 11211 (both TCP and UDP)
```

In this section, you will learn how to install and run dionaea honeypot using docker. The installation of dionaea is implemented by using existing Dockerfile that is required to be reconfigured for personal use and enabling additional features.

Firstly, clone the honeypot Dockerfile by using this command:

```
Docker pull dinotools/dionaea-docker
```

Then, proceed to run the docker image by executing the command provided below:

```
Docker run dinotools/dionaea-docker
```

After that, access the config folder inside the docker image that has been built as root/administrator account by entering the command :

```
Docker -u 0 -ti container_id /bin/bash
```

Once you proceed, enter the folder etc that is located with the specified path /opt/dionaea/etc/dionaea/ihandlers with the command

```
cd opt/dionaea/etc/dionaea/ihandlers
```

Once you change your directory there, you need to add “hpfeeds.yaml” inside the ihandlers folder. Inside the ihandler folder, execute this command to add the file “hpfeeds.yaml”.

```
Sudo nano hpfeeds.yaml
```

With the command above, it will display an empty file. You need to put these commands in order to implement the changes inside the docker image.

```
- name: hpfeeds
  config:
  # fqdn/ip and port of the hpfeeds broker
  server: "10.20.100.100"
  port: 10000
  ident: "sensor-dionaea"
  secret: "password1234"
# dynip_resolve: enable to lookup the sensor ip through a webservice
  dynip_resolve: "http://hpfriends.honeycloud.net/ip"
# Try to reconnect after N seconds if disconnected from hpfeeds broker
    # reconnect_timeout: 10.0
```

After that, you need to restart the docker container so that the changes that you have made before are implemented. This can be run through the command :

```
Docker restart container_id
```

Finally, in order to ensure that the honeypot actually works, you can use net-tools to display which port have been utilized in order to ensure that the honeypot services have been successfully executed. It can be utilized by using this command:

```
Netstat -plnt
```

After that, make sure every protocol that you enabled in dionaea (all services are enabled by default settings) is listening to the proper port (default port number of each service). You can check it from the screenshot below. To ensure that all of your services provided by dionaea are running on default ports, please refer to the brief explanation of cowrie in the section above.

2.4 Preparing HPFeeds

The followings are the built for HPFeeds (mostly from scratch)

2.5 HPFeeds MongoDB Scratch Built 1 Container

The following are the built for HPFeeds from scsratch for 1 container:

1. First, update your existing list of packages

```
$ sudo apt update
```

2. Next install a few prerequisite package

```
$ sudo apt install docker.io
```

3. Run mongo docker

```
$ docker run -d -p 27017-27019:27017-27019 --name mongodb mongo:latest
```

4. We can do anything what we want with the docker but first of all it's always better to update and upgrade the docker first:

```
$ apt-get update && apt-get upgrade -y
```

5. After we finish updating and upgrading, we need to install wget git nano sudo:

```
$   apt install -y ubuntu-server wget git nano sudo
```

6. Because we install the ubuntu-server there will be some configuration that we should config but for the simplicity sake I have listed below my answer:

```
$   31
```

```
 3. Amharic                                        52. Irish
 4. Arabic                                         53. Italian
 5. Arabic (Morocco)                               54. Japanese
 6. Arabic (Syria)                                 55. Japanese (PC-98)
 7. Armenian                                       56. Kazakh
 8. Azerbaijani                                    57. Khmer (Cambodia)
 9. Bambara                                        58. Korean
 10. Bangla                                        59. Kyrgyz
 11. Belarusian                                    60. Lao
 12. Belgian                                       61. Latvian
 13. Berber (Algeria, Latin)                       62. Lithuanian
 14. Bosnian                                       63. Macedonian
 15. Braille                                       64. Malay (Jawi, Arabic Keyboard)
 16. Bulgarian                                     65. Maltese
 17. Burmese                                       66. Maori
 18. Chinese                                       67. Moldavian
 19. Croatian                                      68. Mongolian
 20. Czech                                         69. Montenegrin
 21. Danish                                        70. Nepali
 22. Dhivehi                                       71. Norwegian
 23. Dutch                                         72. Persian
 24. Dzongkha                                      73. Polish
 25. English (Australian)                          74. Portuguese
 26. English (Cameroon)                            75. Portuguese (Brazil)
 27. English (Ghana)                               76. Romanian
 28. English (Nigeria)                             77. Russian
 29. English (South Africa)                        78. Serbian
 30. English (UK)                                  79. Sinhala (phonetic)
 31. English (US)                                  80. Slovak
 32. Esperanto                                     81. Slovenian
 33. Estonian                                      82. Spanish
 34. Faroese                                       83. Spanish (Latin American)
 35. Filipino                                      84. Swahili (Kenya)
 36. Finnish                                       85. Swahili (Tanzania)
 37. French                                        86. Swedish
 38. French (Canada)                               87. Switzerland
 39. French (Democratic Republic of the Congo)     88. Taiwanese
 40. French (Guinea)                               89. Tajik
 41. French (Togo)                                 90. Thai
 42. Georgian                                      91. Tswana
 43. German                                        92. Turkish
 44. German (Austria)                              93. Turkmen
 45. Greek                                         94. Ukrainian
[More] 31

 46. Hebrew                                        95. Urdu (Pakistan)
 47. Hungarian                                     96. Uzbek
 48. Icelandic                                     97. Vietnamese
 49. Indian                                        98. Wolof
Country of origin for the keyboard: 31
```

```
$ 1
```

```
Please select the layout matching the keyboard for this machine.

  1. English (US)
  2. English (US) - Cherokee
  3. English (US) - English (Colemak)
  4. English (US) - English (Dvorak)
  5. English (US) - English (Dvorak, alt. intl.)
  6. English (US) - English (Dvorak, intl., with dead keys)
  7. English (US) - English (Dvorak, left-handed)
  8. English (US) - English (Dvorak, right-handed)
  9. English (US) - English (Macintosh)
  10. English (US) - English (US, alt. intl.)
  11. English (US) - English (US, euro on 5)
  12. English (US) - English (US, intl., with dead keys)
  13. English (US) - English (Workman)
  14. English (US) - English (Workman, intl., with dead keys)
  15. English (US) - English (classic Dvorak)
  16. English (US) - English (intl., with AltGr dead keys)
  17. English (US) - English (programmer Dvorak)
  18. English (US) - English (the divide/multiply keys toggle the layout)
  19. English (US) - Russian (US, phonetic)
  20. English (US) - Serbo-Croatian (US)
Keyboard layout: 1
```

```
$ 1
```

```
Configuring console-setup
-------------------------

  1. ARMSCII-8          6. GEORGIAN-PS    11. ISO-8859-11  16. ISO-8859-2  21. ISO-8859-7  26.
  2. CP1251             7. IBM1133        12. ISO-8859-13  17. ISO-8859-3  22. ISO-8859-8  27.
  3. CP1255             8. ISIRI-3342     13. ISO-8859-14  18. ISO-8859-4  23. ISO-8859-9  28.
  4. CP1256             9. ISO-8859-1     14. ISO-8859-15  19. ISO-8859-5  24. KOI8-R
  5. GEORGIAN-ACADEMY  10. ISO-8859-10    15. ISO-8859-16  20. ISO-8859-6  25. KOI8-U
Encoding to use on the console: 1
```

```
$ 20
```

```
Please choose the character set that should be supported by the console font.

If you don't use a framebuffer, the choices that start with "." will reduce the number of
colors on the console.

  1. . Arabic
  2. # Armenian
  3. # Cyrillic - KOI8-R and KOI8-U
  4. # Cyrillic - non-Slavic languages
  5. # Cyrillic - Slavic languages (also Bosnian and Serbian Latin)
  6. . Ethiopic
  7. # Georgian
  8. # Greek
  9. # Hebrew
  10. # Lao
  11. # Latin1 and Latin5 - western Europe and Turkic languages
  12. # Latin2 - central Europe and Romanian
  13. # Latin3 and Latin8 - Chichewa; Esperanto; Irish; Maltese and Welsh
  14. # Latin7 - Lithuanian; Latvian; Maori and Marshallese
  15. . Latin - Vietnamese
  16. # Thai
  17. . Combined - Latin; Slavic Cyrillic; Hebrew; basic Arabic
  18. . Combined - Latin; Slavic Cyrillic; Greek
  19. . Combined - Latin; Slavic and non-Slavic Cyrillic
  20. Guess optimal character set
Character set to support: 20
```

7. We need to clone hpfeeds by typing the command above:

```
$ git clone https://github.com/pwnlandia/mhn.git
```

8. Go to mhn/scripts by typing the command above:

```
$ cd mhn/scripts
```

9. We need to install hpfeeds by execute this command:

```
$ ./install_hpfeeds.sh
```

10. After the installation of hpfeeds we need to install mnemosyne we can do that by executing this:

```
$ ./install_mnemosyne.sh
```

11. To check the successful installation and to check the process we can type the command below for checking the hpfeeds process:

```
$ supervisorctl status hpfeeds-broker
```

and the result can be similar to this:

```
root@djap-hpe:/mhn/scripts# supervisorctl status hpfeeds-broke
hpfeeds-broker                   RUNNING   pid 3215, uptime 0:
```

Congrats! You have installed the HPFeeds from Scratch in 1 container!

2.6 HPFeeds MongoDB Scratch Built Separate Container

The following are the built for HPFeeds MongoDB from scratch for separate container:

1. First, update your existing list of packages

```
$ sudo apt update
```

2. Next install a few prerequisite package

```
$ sudo apt install docker.io
```

3. Run mongo docker

```
$ docker run -d -p 27017-27019:27017-27019 --name mongodb mongo:latest
```

4. After We run docker mongo we need to run another docker ubuntu for hosting docker HPFeeds we can do that by typing:

```
$ docker run -ti --network=host --name hpfeeds1804 ubuntu:bionic
```

5. We can do anything what we want with the docker but first of all it's always better to update and upgrade the docker first:

```
$ apt-get update && apt-get upgrade -y
```

6. After we finish updating and upgrading, we need to install wget git nano sudo:

```
$   apt install -y ubuntu-server wget git nano sudo
```

7. Because we install the ubuntu-server there will be some configuration that we should config but for the simplicity sake I have listed below my answer:

```
$   31
```

```
 3. Amharic                                          52. Irish
 4. Arabic                                           53. Italian
 5. Arabic (Morocco)                                 54. Japanese
 6. Arabic (Syria)                                   55. Japanese (PC-98)
 7. Armenian                                         56. Kazakh
 8. Azerbaijani                                      57. Khmer (Cambodia)
 9. Bambara                                          58. Korean
 10. Bangla                                          59. Kyrgyz
 11. Belarusian                                      60. Lao
 12. Belgian                                         61. Latvian
 13. Berber (Algeria, Latin)                         62. Lithuanian
 14. Bosnian                                         63. Macedonian
 15. Braille                                         64. Malay (Jawi, Arabic Keyboard)
 16. Bulgarian                                       65. Maltese
 17. Burmese                                         66. Maori
 18. Chinese                                         67. Moldavian
 19. Croatian                                        68. Mongolian
 20. Czech                                           69. Montenegrin
 21. Danish                                          70. Nepali
 22. Dhivehi                                         71. Norwegian
 23. Dutch                                           72. Persian
 24. Dzongkha                                        73. Polish
 25. English (Australian)                            74. Portuguese
 26. English (Cameroon)                              75. Portuguese (Brazil)
 27. English (Ghana)                                 76. Romanian
 28. English (Nigeria)                               77. Russian
 29. English (South Africa)                          78. Serbian
 30. English (UK)                                    79. Sinhala (phonetic)
 31. English (US)                                    80. Slovak
 32. Esperanto                                       81. Slovenian
 33. Estonian                                        82. Spanish
 34. Faroese                                         83. Spanish (Latin American)
 35. Filipino                                        84. Swahili (Kenya)
 36. Finnish                                         85. Swahili (Tanzania)
 37. French                                          86. Swedish
 38. French (Canada)                                 87. Switzerland
 39. French (Democratic Republic of the Congo)       88. Taiwanese
 40. French (Guinea)                                 89. Tajik
 41. French (Togo)                                   90. Thai
 42. Georgian                                        91. Tswana
 43. German                                          92. Turkish
 44. German (Austria)                                93. Turkmen
 45. Greek                                           94. Ukrainian
[More] 31

 46. Hebrew                                          95. Urdu (Pakistan)
 47. Hungarian                                       96. Uzbek
 48. Icelandic                                       97. Vietnamese
 49. Indian                                          98. Wolof
ountry of origin for the keyboard: 31
```

```
$ 1
```

```
Please select the layout matching the keyboard for this machine.

  1. English (US)
  2. English (US) - Cherokee
  3. English (US) - English (Colemak)
  4. English (US) - English (Dvorak)
  5. English (US) - English (Dvorak, alt. intl.)
  6. English (US) - English (Dvorak, intl., with dead keys)
  7. English (US) - English (Dvorak, left-handed)
  8. English (US) - English (Dvorak, right-handed)
  9. English (US) - English (Macintosh)
  10. English (US) - English (US, alt. intl.)
  11. English (US) - English (US, euro on 5)
  12. English (US) - English (US, intl., with dead keys)
  13. English (US) - English (Workman)
  14. English (US) - English (Workman, intl., with dead keys)
  15. English (US) - English (classic Dvorak)
  16. English (US) - English (intl., with AltGr dead keys)
  17. English (US) - English (programmer Dvorak)
  18. English (US) - English (the divide/multiply keys toggle the layout)
  19. English (US) - Russian (US, phonetic)
  20. English (US) - Serbo-Croatian (US)
Keyboard layout: 1
```

```
$ 1
```

```
Configuring console-setup
-------------------------

  1. ARMSCII-8         6. GEORGIAN-PS   11. ISO-8859-11  16. ISO-8859-2  21. ISO-8859-7  26.
  2. CP1251            7. IBM1133       12. ISO-8859-13  17. ISO-8859-3  22. ISO-8859-8  27.
  3. CP1255            8. ISIRI-3342    13. ISO-8859-14  18. ISO-8859-4  23. ISO-8859-9  28.
  4. CP1256            9. ISO-8859-1    14. ISO-8859-15  19. ISO-8859-5  24. KOI8-R
  5. GEORGIAN-ACADEMY  10. ISO-8859-10  15. ISO-8859-16  20. ISO-8859-6  25. KOI8-U
Encoding to use on the console: 1
```

```
$ 20
```

```
Please choose the character set that should be supported by the console font.

If you don't use a framebuffer, the choices that start with "." will reduce the number of
colors on the console.

  1. . Arabic
  2. # Armenian
  3. # Cyrillic - KOI8-R and KOI8-U
  4. # Cyrillic - non-Slavic languages
  5. # Cyrillic - Slavic languages (also Bosnian and Serbian Latin)
  6. . Ethiopic
  7. # Georgian
  8. # Greek
  9. # Hebrew
  10. # Lao
  11. # Latin1 and Latin5 - western Europe and Turkic languages
  12. # Latin2 - central Europe and Romanian
  13. # Latin3 and Latin8 - Chichewa; Esperanto; Irish; Maltese and Welsh
  14. # Latin7 - Lithuanian; Latvian; Maori and Marshallese
  15. . Latin - Vietnamese
  16. # Thai
  17. . Combined - Latin; Slavic Cyrillic; Hebrew; basic Arabic
  18. . Combined - Latin; Slavic Cyrillic; Greek
  19. . Combined - Latin; Slavic and non-Slavic Cyrillic
  20. Guess optimal character set
Character set to support: 20
```

8. We need to clone hpfeeds by typing the command above:

$ git clone https://github.com/pwnlandia/mhn.git

9. Go to mhn/scripts by typing the command above:

$ cd mhn/scripts

10. We need to install hpfeeds by execute this command:

$ ./install_hpfeeds.sh

11. After the installation of hpfeeds we need to install mnemosyne we can do that by executing this:

$ ./install_mnemosyne.sh

12. To check the successful installation and to check the process we can type the command below for checking the hpfeeds process:

$ supervisorctl status hpfeeds-broker

and the result can be similar to this:

```
root@djap-hpe:/mhn/scripts# supervisorctl status hpfeeds-broke
hpfeeds-broker                   RUNNING   pid 3215, uptime 0:
```

Congrats!!! You have built the HPFeeds from Scratch in separate container!

CHAPTER 3

Usage

In this manual you will learn to use the honeypot (specifically, HPFeeds and MISP with the community) using existing docker images that have been created and distributed through github or docker hub.

3.1 Starting HPFeeds

The following are the steps of how to start to use HPFeeds.

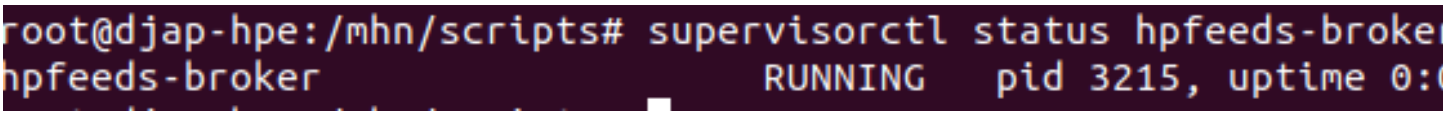
3.2 Start Using HPFeeds that Built from Scratch for 1 Container and Separate Container

The following are the steps for using HPFeeds MongoDB for 1 container and separate container:

1. To check the successful installation and to check the process we can type the command below for checking the hpfeeds process:

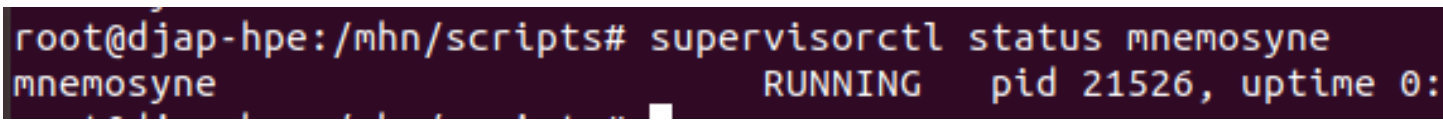
```
$ supervisorctl status hpfeeds-broker
```

and the result can be similar to this:



2. To check the process of the mnemosyne we can type the command below:

```
$ supervisorctl status mnemosyne
```



3. Then we should install pymongo to be able to run the add_user.py

```
$ pip install pymongo
```

4. To add the ident and secret we can do the command below for each honeypot there is different channel, for now we will be focussing on dionaea Honeypot.

```
$ python /opt/hpfeeds/broker/add_user.py sensor-dionaea(according to ident at hpfeeds.
↪yaml) password1234(according to secret at hpfeeds.yaml) "mwbinary.dionaea.
↪sensorunique,dionaea.capture,dionaea.capture.anon,dionaea.captures,dionaea.
↪connections" " "
```

```
root@djap-hpe:/mhn/scripts# python /opt/hpfeeds/broker/add_user.py sensor-dionaea password12
ary.dionaea.sensorunique,dionaea.capture,dionaea.capture.anon,dionaea.captures,dionaea.conne
"
```

5. Then we need to add the python script that is monitoring the MongoDB and send the JSON data when the data arrived at MongoDB

```
$ nano py123.py
```

And add this following python script:

Modify the URL into the URL of your Node-RED IP

```
from pymongo import Connection
import time
import requests
import json
url = 'http://192.168.1.100:1880/test'
db = Connection().mnemosyne
coll = db.hpfeed
cursor = coll.find(tailable=True)
while cursor.alive:
      try:
      doc = cursor.next()
      test = json.dumps(doc, indent=4, default=str)
      print (test)
      response = requests.post(url, data=test)
      except StopIteration:
      time.sleep(1)
```

6. Then we need to execute the python script by typing:

```
$ python3 py123.py
```

7. Then at the dionaea we should modify the hpfeed Edit the hpfeeds.yaml at /opt/dionaea/etc/dionaea/ihandlers-available:

```
$ nano /opt/dionaea/etc/dionaea/ihandlers-available/hpfeeds.yaml
```

```
- name: hpfeeds
  config:
    server: 10.20.100.14
    port: 10000
    ident: sensor-dionaea
    secret: password1234
```

Edit it like this, after that copy the hpfeeds.yaml to /opt/Dionaea/etc/Dionaea/ihandlers-enabled.

```
$ cd /opt/dionaea/etc/dionaea/ihandlers-available/hpfeeds.yaml /opt/dionaea/etc/
↪dionaea/ihandlers-enabled
```

8. Restart the Dionaea and the result will be like this:

```
[15122019 12:56:16] modules /home/rd/dionaea/src/modules.c:203: start module 0x563e03e2
[15122019 12:56:16] dionaea /home/rd/dionaea/src/dionaea.c:781: Installing signal handl
[15122019 12:56:16] dionaea /home/rd/dionaea/src/dionaea.c:818: Creating 2 threads in p
[15122019 12:56:18] connection /home/rd/dionaea/src/connection.c:2208: connection 0x563
connect/tcp/connecting [->] state: connecting->established
[15122019 12:56:18] connection /home/rd/dionaea/src/connection.c:2208: connection 0x563
connect/tcp/established [172.25.1.11:40820->172.25.1.9:10000] state: established->estab
```

9. We do the attack via ftp to Dionaea and the result will be:

```
[15122019 12:59:19] hpfeeds /dionaea/hpfeeds.py:381: accepted connection from  172.25.1.9
o 172.25.1.11:21
[15122019 12:59:19] log_sqlite /dionaea/logsql.py:697: accepted connection from 172.25.1.
to 172.25.1.11:21 (id=18151)
[15122019 12:59:23] ftp /dionaea/ftp.py:241: cmd 'b'USER''
[15122019 12:59:28] ftp /dionaea/ftp.py:241: cmd 'b'PASS''
[15122019 12:59:28] ftp /dionaea/ftp.py:241: cmd 'b'SYST''
```

10. The result of MongoDB should be like this:

```
> db.hpfeed.find().pretty()
{
        "_id" : ObjectId("5ea6dd6b659632541639a6b2"),
        "ident" : "sensor-dionaea",
        "timestamp" : ISODate("2020-04-27T13:26:03.173Z"),
        "normalized" : true,
        "payload" : {
                "local_host" : "192.168.160.3",
                "connection_type" : "accept",
                "connection_protocol" : "httpd",
                "local_port" : 80,
                "remote_port" : 56664,
                "remote_hostname" : "",
                "connection_transport" : "tcp",
                "remote_host" : "103.19.110.145"
        },
        "channel" : "dionaea.connections"
}
>
```

CHAPTER 4

Development

This is for development page where the development of this documentation will be updated regularly.

4.1 Development Notes

4.2 Git Branches

Git branches development here

4.3 Release Versioning

1. v1.0 = 30 June 2020 Updating Usage, Customization, and Development Page
2. v1.1 = 5 July 2020 Updating Usage and Development Page
3. v2.0 = 15 July 2020 Usage, Introduction, and Development modified, Customization deleted

4.4 Contributors

Documentation Editor = Patricia H Advisor = Yohanes S. and all ISIF's Project members

CHAPTER 5

Final Remarks

INi testing Final Remarks Page

5.1 Links

Links here

5.2 Join the Discussion!

Discussion join here

5.3 Support Us!

Please Support us for the sake of security together!

5.4 Supporters

Our beloved supporters goes here!

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CHAPTER 7

Indices and tables

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- modindex
- search