WELCOME TO CLASS 7! BLACK HAT PYTHON3 RALEIGH ISSA

GITHUB REPO

https://github.com/tiarno/bhp3_class

SUMMARY FROM LAST CLASS

- scapy graphics + world map
- arp poisoning + dns spoofing
- building images from packet capture streams
- identify faces in those captured images

EXTRACT CONTENT FROM PCAP FILE

recapper.py

PYTHON CODING

- named tuple
- dictionary creation
- regular expression/raw strings
- string slicing/indexing
- interating dict keys
- byte/string conversion

REGEXP

https://pythex.org

HTTP HEADERS

 https://developer.mozilla.org/en-US/docs/Glossary/MIME_type

CLIENTS AND SERVERS

- TCP Client: foundation for sending and receiving
- TCP Server: foundation for creating, listening, sending, receiving
- UDP Client / UDP Server
- TCP Proxy: machine-in-the-middle, leveraging the TCP client/server code

TCP CLIENT

 first, a quick http server: python -m http.server -bind=9999

TCP CLIENT

```
import socket

def connect(host, port):
    client = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    client.connect((host, port))
    client.send('GET /')
    return client.recv(4096)

if __name__ == '__main__':
    host = '192.168.1.69'
    port = 9999
    print(connect(host, port))
```

- server tcp server.py
- client tcp_client.py

NETCAT

• netcat.py

HEXDUMP

YOUR JOB

- Finish out your recapper.py
- Test it with the newly added pcap.pcap file
- Start building out your version of netcat.py

READING

 NetCat ncat, nc: the real thing and how it works https://www.binarytides.com/netcat-tutorial-for-begi http://forensicswiki.org/wiki/Netcat http://forensicswiki.org/wiki/Tcpdump#Using_Tcpdui

FEEDBACK PLEASE!

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