

CrackMapExec 4.0

Owning ~~Active Directory~~ using ~~Active Directory~~
everything using all the things!



whoami



@byt3bl33d3r

<https://github.com/byt3bl33d3r>

What is this thing?

What's up with the name?

How can we pwn things at scale?

How it all started...

Rewrite #6



byt3bl33d3r wants to merge 5 commits into [ShawnDEvans:master](#) from [byt3bl33d3r:rewrite_](#)



Conversation 13



Commits 5



Files changed 1



byt3bl33d3r commented on May 2, 2015



hey man,

I've been wanting to write something similar to smbmap for a long time, so I've been tweaking it the past day or so..

This is by no means finished, just wanted to submit this PR so you can kinda get a sense of the shape that it's taking.

So far there have been only a couple of major changes:

- Whole script is now fully asynchronous (with some exceptions)
- Added 'WMI' option for executing code using wmi

```
usage: smbmap.py [-h] [-u USERNAME] [-p PASSWORD] [-H HASH] [-d DOMAIN]
                [-s SHARE] [-P {139,445}] [-t THREADS] [-S]
                [-execm {wmi,smbexec}] [-x COMMAND]
                target
```

SMBMap - Samba Share Enumerator | Shawn Evans - Shawn.Evans@gmail.com

positional arguments:

target The target range or CIDR identifier

optional arguments:

Standing on the shoulders...

- **CredCrack** (<https://github.com/gojhonny/CredCrack>)
- **SMBMap** (<https://github.com/ShawnDEvans/smbmap>)
- **SMBExec** (<https://github.com/pentestgeek/smbexec>)

I got ~~99~~ 8 problems/features

- **Large Networks**
- **Credential Overload**
- **Situational Awareness**
- **AV Detection**
- **Stealth / “Living off the Land”**
- **Wrappers (nope, nope, nooope!)**
- **“Glue” between Metasploit and Empire**
- **Modularity**

But hang on... why just stop at AD?

New in v4: Modular protocols

CRACKMAPEXEC

A swiss army knife for pentesting networks
Forged by @byt3bl33d3r using the powah of dank memes

Version: 4.0.1dev
Codename: Bug Pr0n

optional arguments:

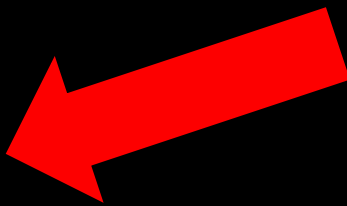
-h, --help	show this help message and exit
-v, --version	show program's version number and exit
-t THREADS	set how many concurrent threads to use (default: 100)
--timeout TIMEOUT	max timeout in seconds of each thread (default: None)
--jitter INTERVAL	sets a random delay between each connection (default: None)
--darrell	give Darrell a hand
--verbose	enable verbose output

protocols:

available protocols

{winrm,http,mssql,ssh,smb}

winrm	own stuff using WINRM
http	own stuff using HTTP
mssql	own stuff using MSSQL
ssh	own stuff using SSH
smb	own stuff using SMB



Ya feelin' a bit buggy all of a sudden?

Cause you don't just see Windows on networks..

- **HTTP (Still in alpha...)**
- **MSSQL**
- **SSH**
- **SMB**

Fresh of the presses:

- **WinRM! (e.g. PS remoting)**

Putting the 0wn4ge puzzle together

These people did the hard stuff (Part 1)

Impacket - <https://github.com/CoreSecurity/impacket>

Pywinrm - <https://github.com/diyan/pywinrm>

Pywerview - <https://github.com/the-useless-one/pywerview>

PowerSploit - <https://github.com/PowerShellMafia/PowerSploit>

Invoke-Obfuscation - <https://github.com/danielbohannon/Invoke-Obfuscation>

These people did the hard stuff (Part 2)

Invoke-Vnc - <https://github.com/artkond/Invoke-Vnc>

Mimikittenz - <https://github.com/putterpanda/mimikittenz>

NetRipper - <https://github.com/NytroRST/NetRipper>

RandomPS-Scripts - <https://github.com/xorrior/RandomPS-Scripts>

SessionGopher - <https://github.com/fireeye/SessionGopher>

Mimipenguin - <https://github.com/huntergregal/mimipenguin>



I sacrificed this otter after taking this picture

Peering into the crystal ball...

- **WSH (Windows Script Host)**
- **Application Whitelisting Bypasses**
- **Module Chaining**

How do I stop this?

- **Account Lockout Policy**
- **Logging**
- **Segmentation**
- **Powershell Logging**
- **Microsoft ATA**
- **Microsoft LAPS**

Detecting CrackMapExec (CME) with Bro, Sysmon, and Powershell logs

<https://www.n00py.io/2017/10/detecting-crackmapexec-cme-with-bro-sysmon-and-powershell-logs/>

Questions? Insults?

In case you want to yell at me:
`@byt3bl33d3r`

`#crackmapexec` on `bloodhoundhq.slack.com`

CME is fully Open Source and hosted here:
<https://github.com/byt3bl33d3r/CrackMapExec>

People you should follow

- @agsolino
 - @gentilkiwi
 - @subTee
 - @PyroTek3
 - @Carlos_Perez
 - @_wald0
- @SquirrelsNaBrrl
(Thanks for the awesome logo!)

The PowerShell Mafia Gang

@harmj0y

@mattifestation

@enigma0x3