# Cracking Windows Passwords with Hashcat

@mmar

Hashcat is a GPU based tool, so you need to have it running on a machine with a powerful graphics card with all drivers. It can be your windows machine, Ubuntu/ Kali machine or you can do it in the cloud For this lecture, we are going to use it on Windows with all GPU drivers installed



 Get the Hash from the SAM file with Kali Linux (Samdump2)

# Step-2

 Crack the hash with hashcat and RockYou dictionary on our PC

CONCEPT



#### Scenorio

 You have physical access to a system which is password locked. The tool can be used to quickly crack the password

You can copy the extracted hashes from the SAM file with Kali Linux in a USB drive and then in your own time (offline attack) crack the hashes at your home on your main machine with hashcat



#### Install the Hashcat from official website in your main PC

## https://hashcat.net/hashcat/

> C 🔒 hashcat.net/hashcat/					r 🖈 🕻
r Bookmarks 👿 Yahoo! 🔵 Live Cricket Scores   🔞 Speedtes	st.net - The 😝 Welcome to Facebo 👼 G	Google News 🛛 🖸 YouTub	e , seasons	, torrent 🔜 M	lovies 🦲 Entertair
hashcat	Download				
advanced	Name	Version	Date	Download	Signature
password	hashcat binaries	v6.2.5	2021.11.21	Download	PGP
i recovery	hashcat sources	v6.2.5	2021.11.21	Download	PGP
	Signing key on PGP keyservers: RSA, 2048-bit.	. Key ID: 2048R/8A16544F. Fi	ngerprint: A708 3322 9	D04 0B41 99CC 0052	2 3C17 DA8B 8A16 544
	Check out our GitHub Repository for the latest of	development version			
hashcat					
hashcat	GPU Driver requirements:				

#### Download and extract the rockyou dictionary in hashcat folder

https://github.com/brannondorsey/naive-hashcat/releases/download/data/rockyou.txt



Navigate to windows/system32/config folder and copy these files to Kali Desktop

#### SAM & SYSTEM



Now open the terminal on the desktop and dump the hashes with following command

Samdump2 SYSTEM SAM >hash.txt

Here :

- Samdump2 is the tool we are using
- Hash.txt will contain all hashes that we are aiming to crack

(kali@ kali)-[~/Desktop]
\$ samdump2 SYSTEM SAM >hash.txt

#### Now copy the hash.txt file to hashcat folder on your main PC (You can use a USB to copy the file)

cracked.txt	Ν	9/3/2022 8:02 PM	Text Document	1 KB
🚾 crackme.rar	115	9/3/2022 7:55 PM	WinRAR archive	1 KB
example.dict		11/21/2021 8:43 PM	DICT File	1,045 KB
example0.cmd		11/21/2021 8:43 PM	Windows Comma	1 KB
example0.hash		11/21/2021 8:43 PM	HASH File	210 KB
🥘 example0.sh		11/21/2021 8:43 PM	SH File	1 KB
💿 example400.cmd		11/21/2021 8:43 PM	Windows Comma	1 KB
example400.hash		11/21/2021 8:43 PM	HASH File	1 KB
🧾 example400.sh		11/21/2021 8:43 PM	SH File	1 KB
💿 example500.cmd		11/21/2021 8:43 PM	Windows Comma	1 KB
example500.hash		11/21/2021 8:43 PM	HASH File	1 KB
🧐 example500.sh		11/21/2021 8:43 PM	SH File	1 KB
hash bc22000		8/7/2022 6:53 PM	HC22000 File	1 KB
hash.txt		9/24/2022 12:14 AM	Text Document	1 KB
hashcat.bin		11/21/2021 8:43 PM	BIN File	1,160 KB
hashcat.dictstat2		9/3/2022 8:02 PM	DICTSTAT2 File	1 KB
🔲 bacheat ava		11/01/0001 0.40 DMA	Application	1 201 VD

# Step-7 Open the Power shell and then use the command to crack the passwords

.\Hashcat.exe -m 1000 -a 0 -o cracked.txt hash.txt rockyou.txt

Here :

- 1000 tells the hashcat that its Windows password to be cracked
- Cracked.txt will store cracked passwords
- hash.txt is the source file
- Rockyou.txt is the dictionary file

 Step- 7
 Open the Power shell and then use the command to crack the passwords

.\Hashcat.exe -m 1000 -a 0 -o cracked.txt hash.txt rockyou.txt

🔀 Windows PowerShell	– 0 X
PS C:\Users\Ammar\Downloads\Compressed\hashcat-6.2.5\hashcat-6.2.5> ./hashcat -a 0 -m 10 rockyou.txt hashcat (v6.2.5) starting	100 -D 2 -d 3status -o cracked.txt hash.txt
ADL2_New_QueryPMLogData_Get is missing from ADL shared library.	<b>^</b>
OpenCL API (OpenCL 1.2 ) - Platform #1 [Intel(R) Corporation]	
* Device #1: Intel(R) Core(TM) i5-3230M CPU @ 2.60GHz, skipped * Device #2: Intel(R) HD Graphics 4000, skipped	
OpenCL API (OpenCL 2.0 AMD-APP (1800.11)) - Platform #2 [Advanced Micro Devices, Inc.]	
* Device #3: Radeon (ТМ) HD 8670M, 1920/2048 MB (1344 MB allocatable), 5MCU * Device #4: , skipped	
Minimum password length supported by kernel: O Maximum password length supported by kernel: 256	

#### Open the cracked.txt file to view the cracked password

extra	11/21/2021 8:43 PM File folder
kernels	9/23/2022 7:18 PM File folder
layouts	11/21/2021 8:43 PM File folder
masks	Cracked.txt - Notepad
modules	File Edit Format View Help
- OpenCL	32ed87bdb5fdc5e9cba88547376818d4:123456
rules	31d6cfe0d16ae931b73c59d7e0c089c0:
cracked.txt	
🙀 crackme.rar	
example.dict	
💿 example0.cmd	
📄 example0.hash	
🥘 example0.sh	
💿 example400.cm	
📄 example400.has	
🧾 example400.sh	



Step- 4 (Optional)

To select a particular device. Just select the device with category flag.

OpenCL API (OpenCL 1.2 ) - Platform #1 [Intel(R) Corporation] \* Device #1: Intel(R) Core(TM) i5-3230M CPU @ 2.60GHz, skipped \* Device #2: Intel(R) HD Graphics 4000, skipped

OpenCL API (OpenCL 2.0 AMD-APP (1800.11)) - Platform #2 [Advanced Micro Devices, Inc.] \* Device #3: Radeon (TM) HD 8670M, 1920/2048 MB (1344 MB allocatable), 5MCU \* Device #4: , skipped

To select Device 3 only, use –D 2 –d 3

