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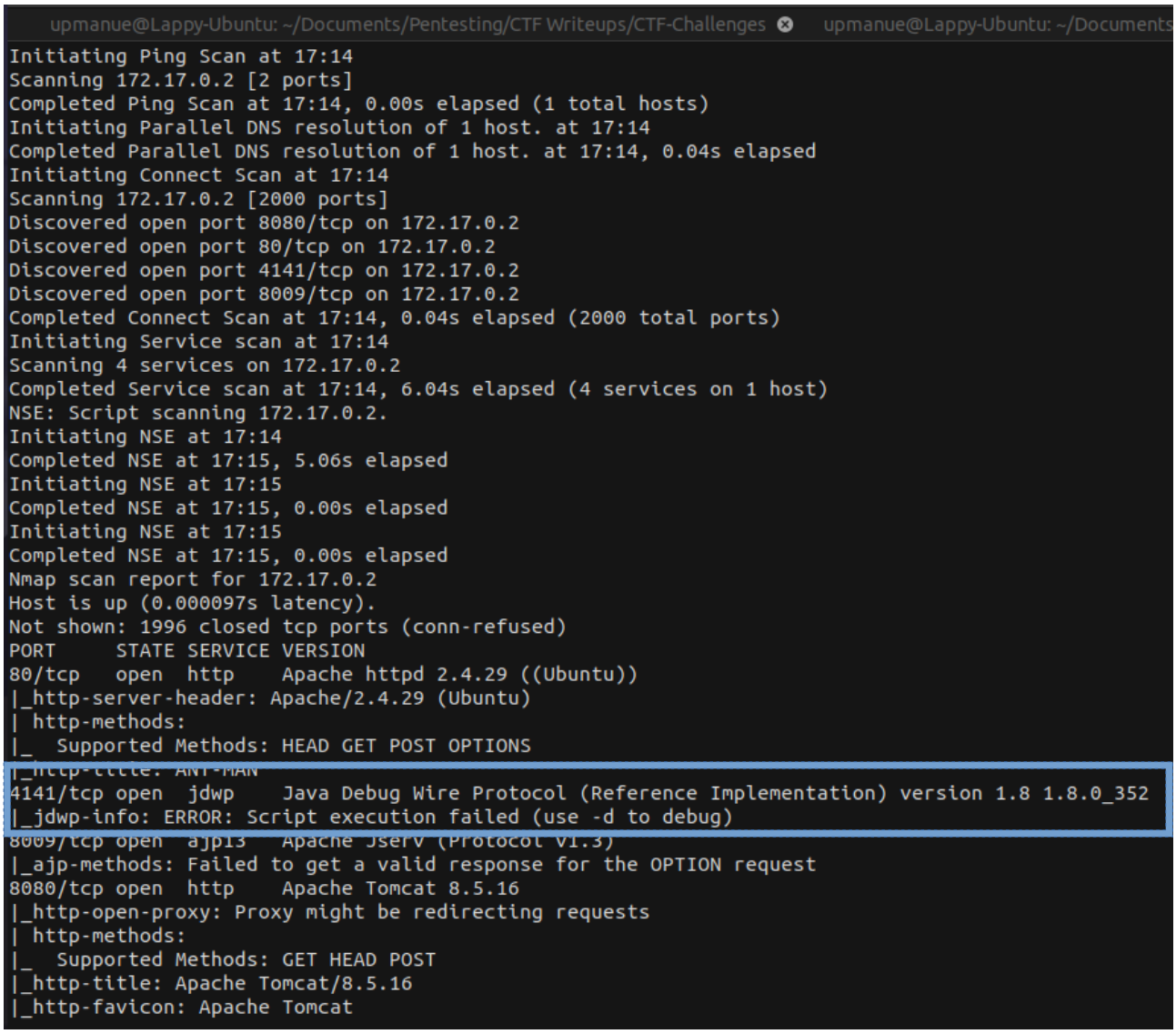
Antman CTF Challenge

Task descriptions

1. Perform a port scan on the target system. Scan for the 2000 most common ports, including a version scan. What service is running on TCP port 4141?

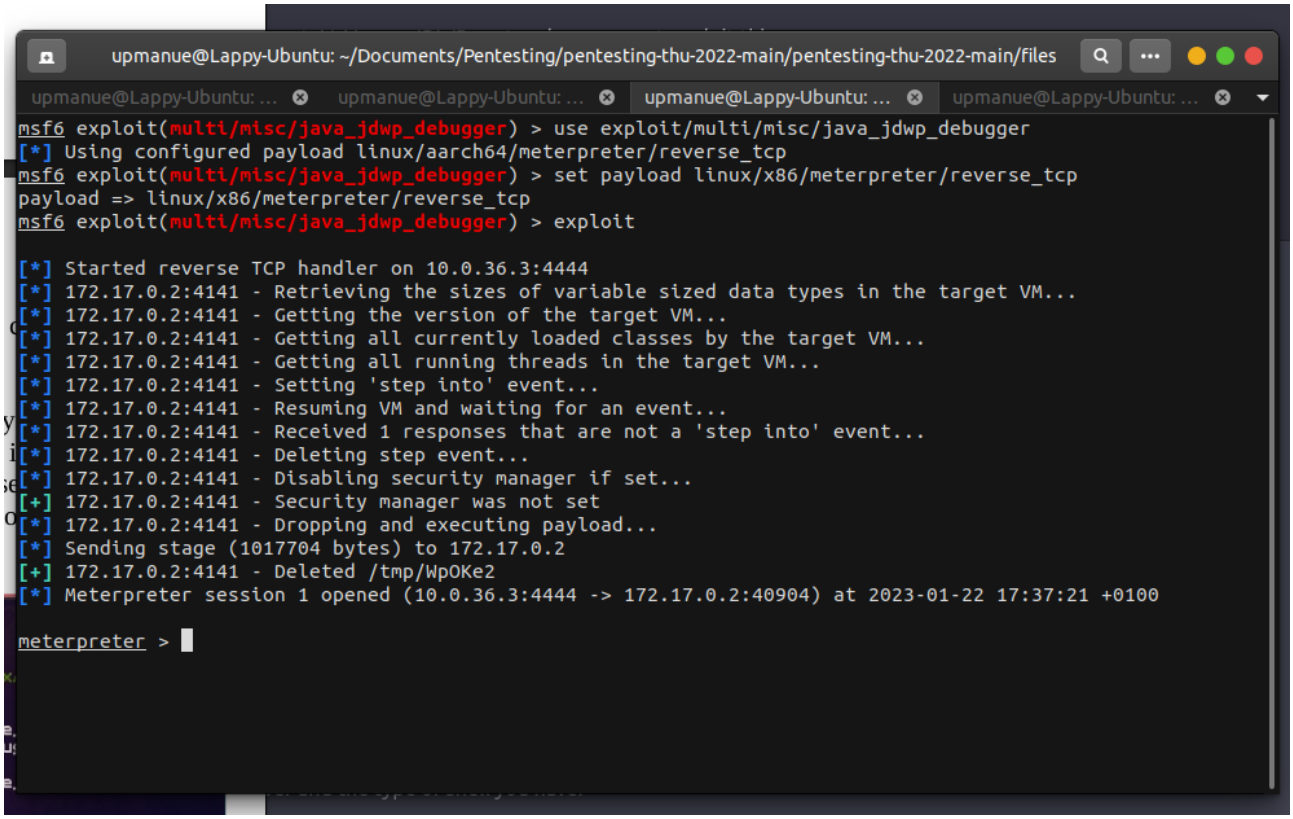
```
upmanue@Lappy-Ubuntu:~/Documents/Pentesting/pentesting-thu-2022-main/pentesting-thu-2022-main/files$ nmap -v --top-ports 2000 172.17.0.2
Starting Nmap 7.93 ( https://nmap.org ) at 2023-01-22 17:15 CET
Initiating Ping Scan at 17:15
Scanning 172.17.0.2 [2 ports]
Completed Ping Scan at 17:15, 0.00s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 17:15
Completed Parallel DNS resolution of 1 host. at 17:15, 0.02s elapsed
Initiating Connect Scan at 17:15
Scanning 172.17.0.2 [2000 ports]
Discovered open port 8080/tcp on 172.17.0.2
Discovered open port 80/tcp on 172.17.0.2
Discovered open port 8009/tcp on 172.17.0.2
Discovered open port 4141/tcp on 172.17.0.2
Completed Connect Scan at 17:15, 0.03s elapsed (2000 total ports)
Nmap scan report for 172.17.0.2
Host is up (0.000084s latency).
Not shown: 1996 closed tcp ports (conn-refused)
PORT     STATE SERVICE
80/tcp   open  http
4141/tcp open  oirtgsvc
8009/tcp open  ajp13
8080/tcp open  http-proxy

Read data files from: /snap/nmap/2864/usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.07 seconds
```

- Found the open services and the services running on the ports. To find more info, ran another nmap command.

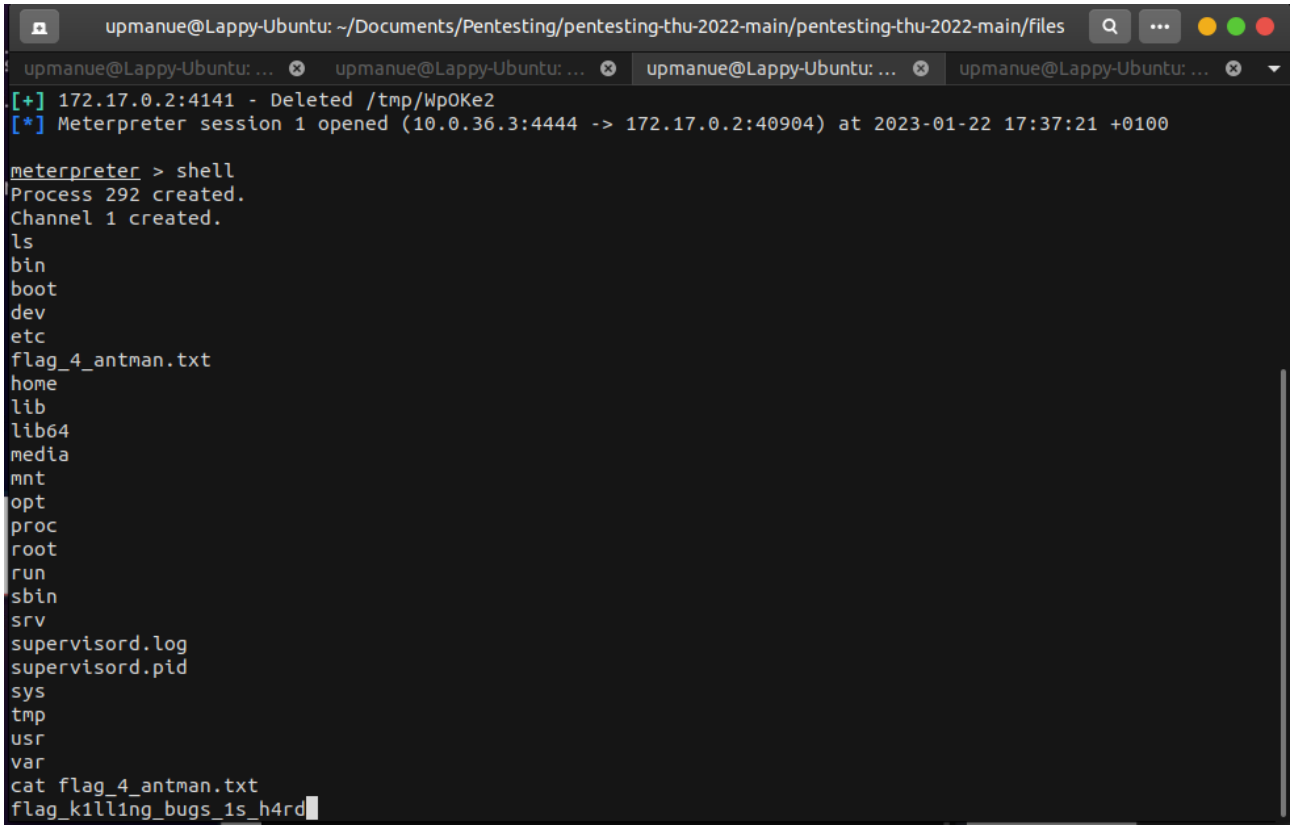


2. Compromise the system using the Metasploit module "java_jdwp_debugger". You can find the flag in the root directory of the server.

- Since we now know that port 4141 runs JDWP protocol, we can not exploit this vulnerability.
- To do this we will use the metasploit framework.
- We set RHOST(172.17.0.2) and RPORT (4141)
- After setting the payload to be linux/x86/meterpreter/reverse_tcp, we get meterpreter shell by which we get access to the system



- By running the shell command and looking at the contents we find the first flag.



3. The /opt/ directory contains a way to escalate your privileges to "root". Can you find it? You can get a root flag in "/root/flag.txt".

- Going in the admin directory we can see that there is a script called delete-logs.sh. Looking into that script we can see the output:

  #!/bin/bash

  # Delete any file in the log directory

  # This script is executed by root every 2 minutes (via cron job)

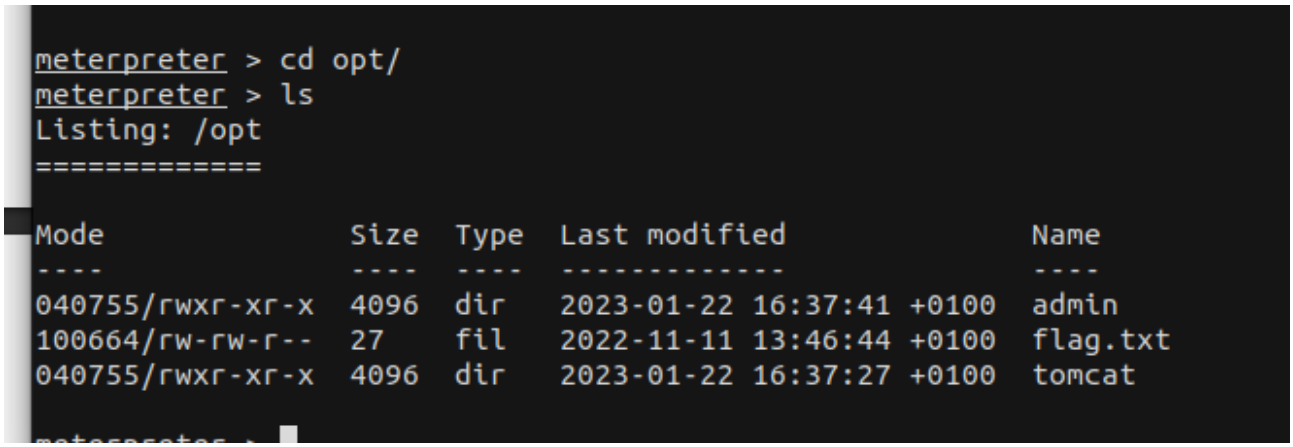
  rm -rfv /opt/admin/logs/*

- We modify the script using the edit command and add the following lines.

  cd /root/

  mv flag.txt /opt/

- We wait for 2 mins and BAM!!!! We have the flag.txt in the opt directory.



- Now we simply, cat the flag and enjoy!!