Information Gathering

1) Found open ports

```
(vigneswar® VigneswarPC)-[~]
**\text{topscan 10.10.10.239}

Starting Nmap 7.945VN ( https://nmap.org ) at 2024-06-29 11:19 IST

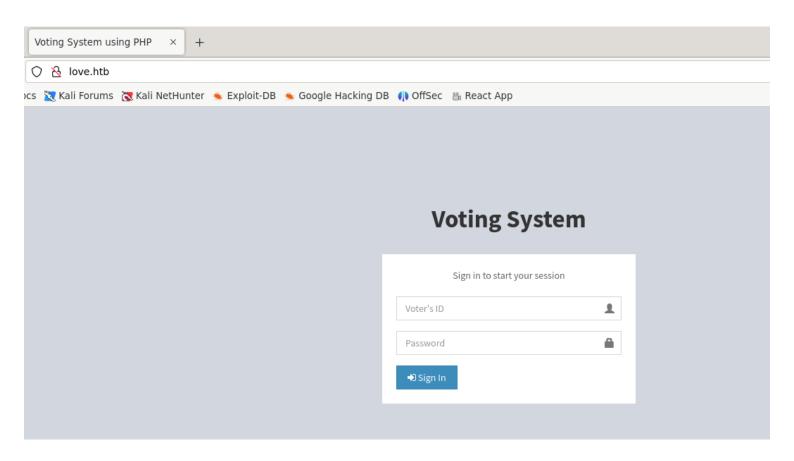
Nmap scan report for 10.10.10.239

Host is up (1.4s latency).

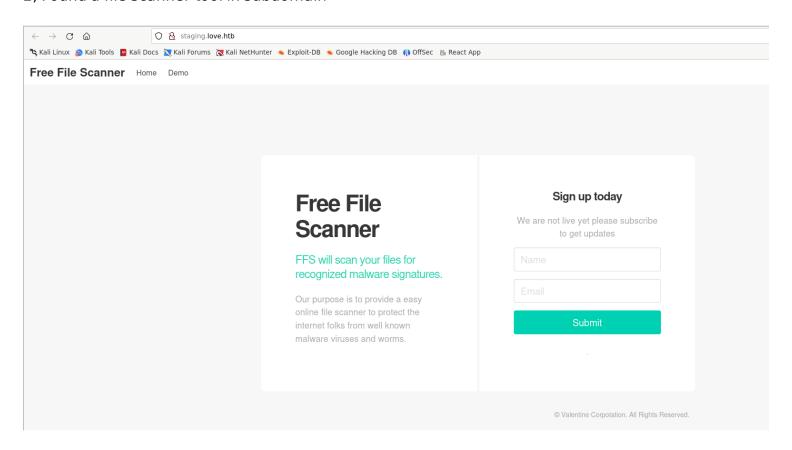
Not shown: 51788 closed tcp ports (reset), 13728 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
             STATE SERVICE
                                        VERSION
                                        Apache httpd 2.4.46 ((Win64) OpenSSL/1.1.1j PHP/7.3.27)
80/tcp
             open http
 http-server-header: Apache/2.4.46 (Win64) OpenSSL/1.1.1j PHP/7.3.27
  _
_http-title: Voting System using PHP
  http-cookie-flags:
        PHPSESSID:
          httponly flag not set
            open msrpc Microsoft Windows RPC
open netbios-ssn Microsoft Windows netbios-ssn
open ssl/http Apache httpd 2.4.46 (OpenSSL/
                                       Microsoft Windows RPC
135/tcp
139/tcp
443/tcp
                                       Apache httpd 2.4.46 (OpenSSL/1.1.1j PHP/7.3.27)
 _http-title: 403 Forbidden
  tls-alpn:
     http/1.1
   ssl-date: TLS randomness does not represent time
  _http-server-header: Apache/2.4.46 (Win64) OpenSSL/1.1.1j PHP/7.3.27
   ssl-cert: Subject: commonName=staging.love.htb/organizationName=ValentineCorp/stateOrProvinceName=m/countryName=in
  Not valid before: 2021-01-18T14:00:16
_Not valid after: 2022-01-18T14:00:16
445/tcp open microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
3306/tcp open mysql?
  fingerprint-strings:
| HTTPOptions, LDAPSearchReq, NCP, SIPOptions, TerminalServer, TerminalServerCookie, X11Probe, afp, oracle-tns:
|_ Host '10.10.14.8' is not allowed to connect to this MariaDB server
5000/tcp open http Apache httpd 2.4.46 (OpenSSL/1.1.1j PHP/7.3.27)
|_http-server-header: Apache/2.4.46 (Win64) OpenSSL/1.1.1j PHP/7.3.27
 _http-title: 403 Forbidden
5040/tcp open unknown
5985/tcp open http
                                       Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
5986/tcp open ssl/http
                                       Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
```

Web Port 80

1) Found a login page



2) Found a file scanner tool in subdomain



3) Found more pages

```
/w/usr/share/seclists/Discovery/Web-Content/directory-list-lowercase-2.3-medium.txt -u 'http://10.10.10.239/FUZZ' -ic -t 100
        v2.1.0-dev
 :: Method
:: URL
                          http://10.10.10.239/FUZZ
FUZZ: /usr/share/seclists/Discovery/Web-Content/directory-list-lowercase-2.3-medium.txt
 :: Wordlist
    Follow redirects
                           false
    Calibration
                          false
    Timeout
                          10
                           100
    Threads
    Matcher
                          Response status: 200-299,301,302,307,401,403,405,500
                            [Status: 200, Size: 4388, Words: 654, Lines: 126, Duration: 189ms]
[Status: 301, Size: 338, Words: 22, Lines: 10, Duration: 176ms]
                                           Size: 338,
Size: 337,
images
                                                         Words: 22,
                                                                     Lines: 10,
                            [Status: 301,
                                                                                   Duration: 161ms
admin
                            [Status: 301,
plugins
                                            Size: 339,
                                                         Words: 22,
                                                                      Lines: 10,
                                                                                   Duration: 173ms
                                      301, Size: 340,
301, Size: 336,
403, Size: 421,
                                                                      Lines:
                                                                                   Duration:
includes
                                                         Words:
                                                                                               164ms]
dist
                            [Status: 301,
                                                         Words:
                                                                 22
                                                                      Lines:
                                                                              10
                                                                                   Duration:
                            [Status: 403,
                                                                      Lines:
                                                                                               172ms
licenses
                                                         Words:
                                                                                   Duration:
                            [Status:
                                      403,
                                            Size:
                                                   302
                                                         Words:
                                                                      Lines:
                                                                                   Duration:
*checkout*
                            [Status: 403,
                                            Size:
                                                   302,
                                                         Words:
                                                                 22,
                                                                      Lines:
                                                                                   Duration:
                                                                                               170ms
phpmyadmin
webalizer
                                            Size: 302
                                                                      Lines:
                            [Status: 403,
                                                         Words:
                                                                 22,
                                                                              10
                                                                                   Duration:
                                                                                              164ms
                            [Status: 403, Size: 302,
                                                                 22,
                                                         Words:
                                                                      Lines:
                                                                              10,
                                                                                   Duration:
                                                                                               162ms
                            [Status: 403, Size:
                                                   302,
                                                         Words:
                                                                 22,
                                                                      Lines:
                                                                                   Duration:
                                                                                               163ms
*docroot*
                             [Status: 403,
                                            Size:
                                                   302,
                                                         Words:
                                                                 22,
                                                                      Lines:
                                                                                   Duration:
                                                                                              161ms
                                                         Words: 22
                            [Status: 403.
                                            Size: 302
                                                                      Lines: 10
                                                                                   Duration: 168ms
```

Web Port 443

1) Found a forbidden page

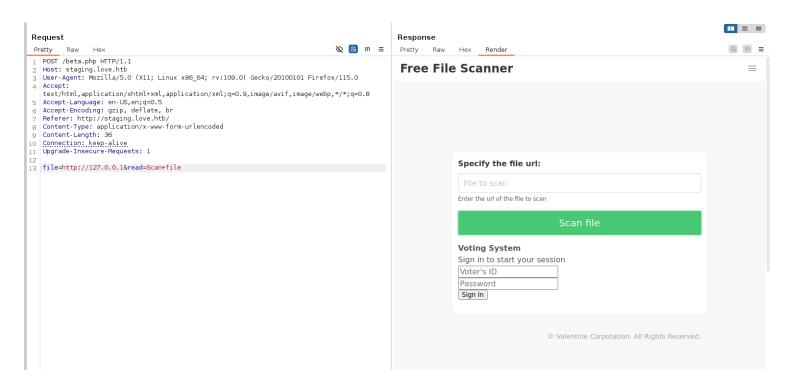


LDAP Port 445

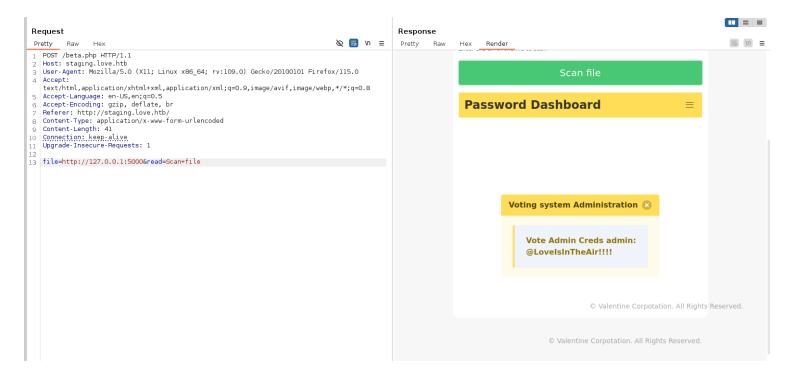
1) Null Session not allowed

Vulnerability Assessment

1) Found SSRF

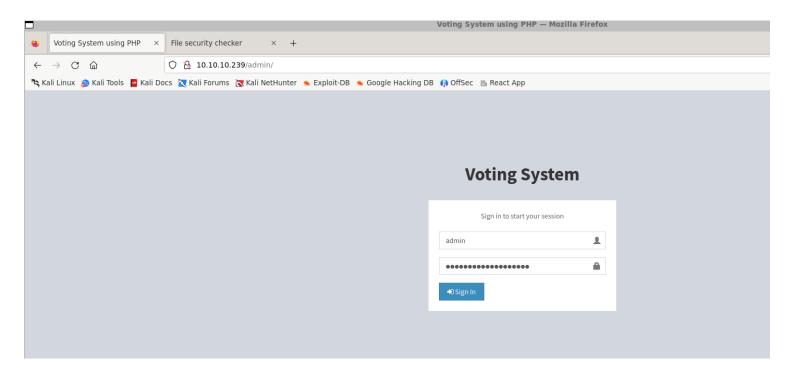


2) Found a credentials in internal application



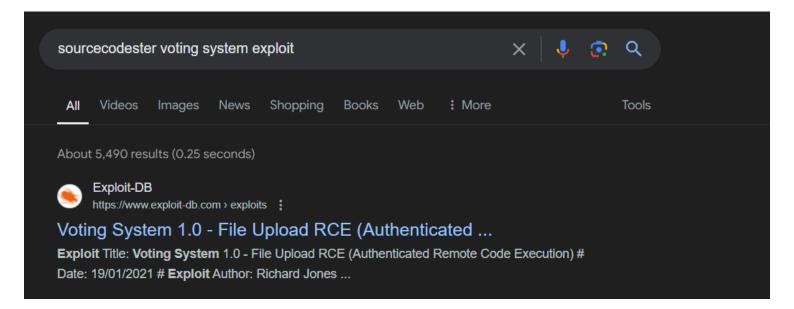
admin:@LoveIsInTheAir!!!!

3) Logged in as admin

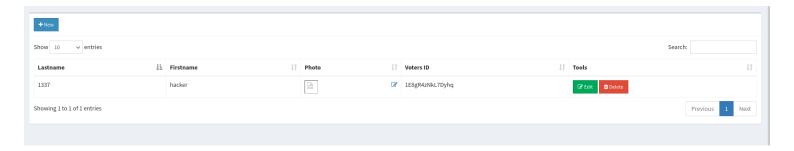




4) The voting page is vulnerable to RCE



5) Uploaded a webshell

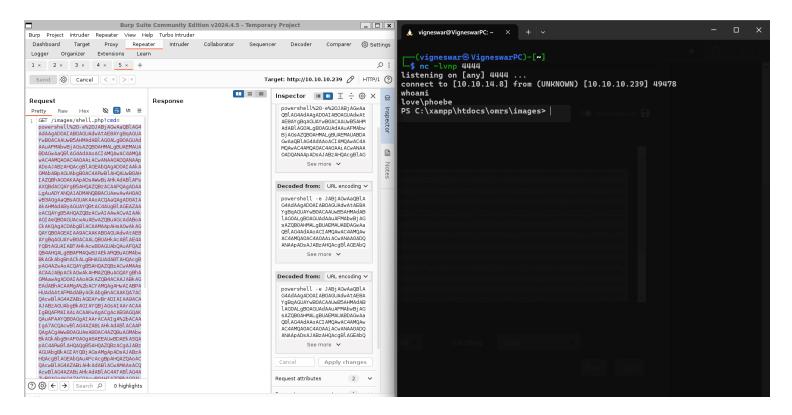


6) Got RCE



Exploitation

1) Got reverse shell



Privilege Escalation

1) Switched to meterpreter shell

2) Always install elevated is ON

```
C:\xampp>reg query HKEY_CURRENT_USER\Software\Policies\Microsoft\Windows\Installer
reg query HKEY_CURRENT_USER\Software\Policies\Microsoft\Windows\Installer

HKEY_CURRENT_USER\Software\Policies\Microsoft\Windows\Installer
    AlwaysInstallElevated REG_DWORD 0x1
```

3) Made a revshell msi

Upon further enumeration, we observe that the applocker policy is set and only Phoebe and Administrator users are allowed to install MSI files in a specific directory.

```
get-applockerpolicy -effective | select -expandproperty rulecollections
```

```
• • •
C:\xampp\htdocs\omrs\images>powershell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\xampp\htdocs\omrs\images> get-applockerpolicy -effective | select -expandproperty rulecollections
PathConditions
                    : {%OSDRIVE%\Administration\*}
PathExceptions
                    : {}
PublisherExceptions : {}
HashExceptions
                    : {}
                    : e6d62a73-11da-4492-8a56-f620ba7e45d9
Ιd
                      %OSDRIVE%\Administration\*
Name
Description
                    : S-1-5-21-2955427858-187959437-2037071653-1002
UserOrGroupSid
Action
                    : Allow
```

