Nmap-ssl-parser

Kerberos Username Enumeration – Top 500 Common Usernames

JUN
23

Auto-sslscan (Automatic SSL Scanning)

By matt in Tools

Auto-sslscan

As I mentioned in the previous post whilst Nessus and Nmap do a reasonable job of enumerating SSL protocols and ciphers I often find myself utilising other 3rd party SSL scanning tools. One I find myself turning to on a regular basis is sslscan, I like the output it provides and issues become immediately apparent, although if you prefer using SSL scanning tool X or Y, the auto-sslscan code can be easily amended to cater for your tool of choice.

Auto-sslscan is a python script designed to automate the process of conducting ssl scanning via sslcan. The Auto-sslscan script parses an nmap.xml output file, extracts all SSL services and automatically performs an sslscan of them.

Step 1 – Create a valid nmap .xml file:

Note: Some form of Nmap version scanning must be utilised to create the XML ouput i.e. `-sV` or `-A` (In order to determine whether the service is SSL enabled)

```
root@cyclops:/scripts/auto-sslcan# nmap -sS -sV -p 443 -iL targets.txt -oX output.xml

Starting Nmap 7.50 ( https://nmap.org ) at 2017-06-23 22:08 BST
Nmap scan report for 185.176.90.16
Host is up (0.018s latency).

PORT    STATE SERVICE  VERSION
443/tcp open  ssl/http nginx

Nmap scan report for 199.101.100.186
Host is up (0.11s latency).

PORT    STATE SERVICE  VERSION
443/tcp open  ssl/http Apache httpd

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 2 IP addresses (2 hosts up) scanned in 15.10 seconds
```

Step 2 – Process the Nmap XML file with auto-sslscan.py:

```
root@cyclops:/scripts/auto-sslcan# ./auto-sslscan.py output.xml sslscan-output.txt
auto-sslscan - v0.1 ( https://github.com/attackdebris/auto-sslscan )

Performing sslscan of 185.176.90.16:443
Performing sslscan of 199.101.100.186:443

sslscan results saved to: sslscan-output.txt
SSL services list saved to: ssl-services.txt
```

SSL Services:

That's effectively job done, we now have a list of SSL services if we wish to target them again with another tool:

```
root@cyclops:/scripts/auto-sslcan# cat ssl-services.txt
185.176.90.16:443
199.101.100.186:443
```

SSL Scan Ouput:

The actual SSL scanning "sslscan" ouput is saved to a concatenated file (truncated image below):

```
root@cyclops:/scripts/auto-sslcan# cat sslscan-output.txt
================================================================
auto-sslscan - v0.1 ( https://github.com/attackdebris/auto-sslscan )
================================================================

Version: 1.11.10-static
OpenSSL 1.0.2-chacha (1.0.2g-dev)

Testing SSL server 185.176.90.16 on port 443 using SNI name

  TLS Fallback SCSV:
Server supports TLS Fallback SCSV

  TLS renegotiation:
Secure session renegotiation supported

  TLS Compression:
Compression disabled

  Heartbleed:
```

The code and installation instructions can be found here: https://github.com/attackdebris/auto-sslscan

Also check out nmap-ssl-parser, which simply parses the nmap XML file and provides a list of SSL services: https://github.com/attackdebris/nmap-ssl-parser

Credit – The base code I used to create nmap-ssl-parser: https://github.com/DanMcInerney/nmap-parser/blob/master/nmap-parser.py

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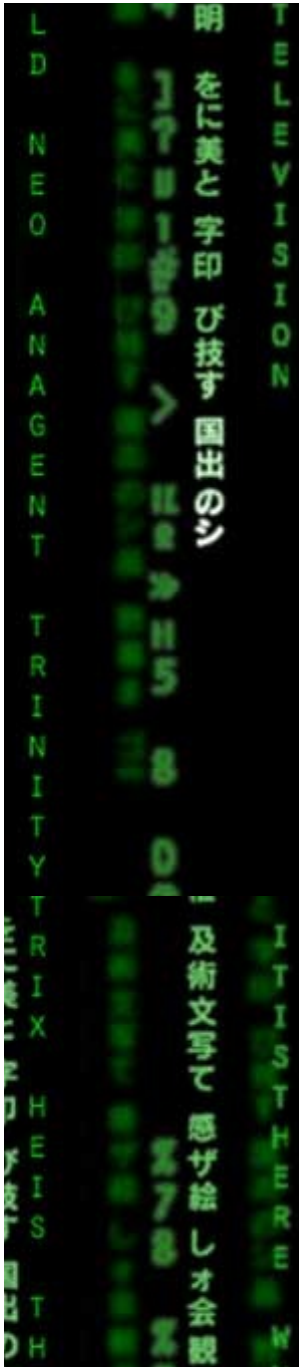

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