VAPT M1 : Nmap and Social engineering NMAP Attacks

Eshan K027

IPv4 of the kali machine is on eth0: 10.0.2.15

```
(kali⊕ kali)-[~]

$ ip addr

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00 brd 00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever

2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:43:73:bc brd ff:ff:ff:ff:
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute eth0
        valid_lft 461sec preferred_lft 461sec
    inet6 fe80::a00:27ff:fe43:73bc/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

Apart from the kali machine there is a victim machine running on 10.0.2.4

```
-(kali⊕kali)-[~]
Starting Nmap 7.91 ( https://nmap.org ) at 2025-02-04 21:42 EST
Nmap scan report for 10.0.2.1
Host is up (0.00076s latency).
Not shown: 999 closed ports
PORT STATE SERVICE
53/tcp open domain
Nmap scan report for 10.0.2.4
Host is up (0.00089s latency).
Not shown: 997 closed ports
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
80/tcp open http
Nmap scan report for 10.0.2.15
Host is up (0.00073s latency).
All 1000 scanned ports on 10.0.2.15 are closed
Nmap done: 256 IP addresses (3 hosts up) scanned in 3.89 seconds
```

Listed below are the open ports on the target machine: ftp ssh http

Software versions used are listed below

```
(kali% kali)-[~]
$ nmap -sV -p 21 10.0.2.4
Starting Nmap 7.91 ( https://nmap.org ) at 2025-02-04 21:46 EST
Nmap scan report for 10.0.2.4
Host is up (0.0014s latency).

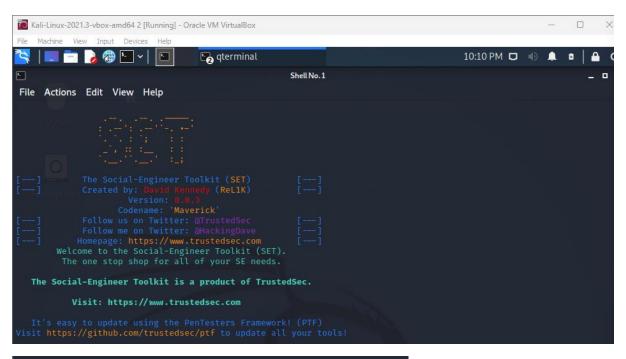
PORT STATE SERVICE VERSION
21/tcp open ftp     ProFTPD 1.3.3c
Service Info: OS: Unix

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 0.48 seconds
```

The OS is a linux kernel as listed below

```
t‡kali)-[/home/kali]
   nmap -0 10.0.2.4
Starting Nmap 7.91 ( https://nmap.org ) at 2025-02-04 21:51 EST
Nmap scan report for 10.0.2.4
Host is up (0.0013s latency).
Not shown: 997 closed ports
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
80/tcp open http
MAC Address: 08:00:27:BB:78:E9 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 3.X 4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
OS detection performed. Please report any incorrect results at https://nmap.or
g/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 2.24 seconds
```

Social engineering attack



- Social-Engineering Attacks
 Penetration Testing (Fast-Track)
 Third Party Modules
 Update the Social-Engineer Toolkit
 Update SET configuration
 Help, Credits, and About
 Exit the Social-Engineer Toolkit
- 1) Spear-Phishing Attack Vectors
 2) Website Attack Vectors
 3) Infectious Media Generator
 4) Create a Payload and Listener
 5) Mass Mailer Attack
 6) Arduino-Based Attack Vector
 7) Wireless Access Point Attack Vector
 8) QRCode Generator Attack Vector
 9) Powershell Attack Vectors
 10) Third Party Modules

 99) Return back to the main menu.

The **HTA Attack** method will allow you to clone a used for Windows-based powershell exploitation

- Java Applet Attack Method
- Metasploit Browser Exploit Method
- 3) Credential Harvester Attack Method
- 4) Tabnabbing Attack Method
- 5) Web Jacking Attack Method
- 6) Multi-Attack Web Method
- 7) HTA Attack Method
- 99) Return to Main Menu

set:webattack>3

File Actions Edit View Help --- * IMPORTANT * READ THIS BEFORE ENTERING IN THE IP ADDRESS * IMPORTANT * ---The way that this works is by cloning a site and looking for form fields to rewrite. If the POST fields are not usual methods for posting forms this could fail. If it does, you can always save the HTML, rewrite the forms to be standard forms and use the "IMPORT" feature. Additionally, really important: If you are using an EXTERNAL IP ADDRESS, you need to place the EXTERNAL IP address below, not your NAT address. Additionally, if you don't know basic networking concepts, and you have a private IP address, you will need to do port forwarding to your NAT IP address from your external IP address. A browser doesns't know how to communicate with a private IP address, so if you don't specify an external IP address if you are using this from an external apprective, it will not work. This isn't a SET issues. this from an external perpective, it will not work. This isn't a SET issue this is how networking works. set:webattack> IP address for the POST back in Harvester/Tabnabbing [10.0.2.15]: **** Important Information **** For templates, when a POST is initiated to harvest redentials, you will need a site for it to redirect. You can configure this option under: /etc/setoolkit/set.config Edit this file, and change HARVESTER_REDIRECT and HARVESTER_URL to the sites you want to redirect to after it is posted. If you do not set these, then it will not redirect properly. This only goes for emplates. 1. Java Required Google 3. Twitter set:webattack> Select a template:2 Cloning the website: http://www.This.could-take-alittle-bit... Credential Harvester is running on port 80 Information will be displayed to you as it arrives below:

Email:

Subject: Urgent: Verify your account details

Dear Amit

We've noticed suspicious activity on your account NMIMS account . To secure your information, please update your login details by clicking here: http://www.google.com to reset your NMIMS password via google login

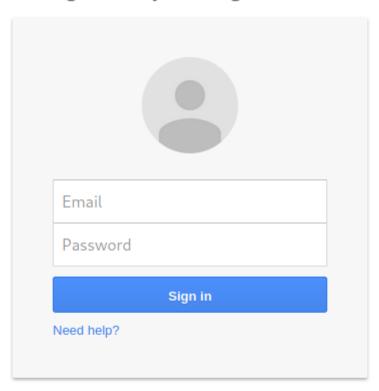
Do not delay, as your account may be temporarily suspended if not verified.

Thank you, **NMIMS Mumbai Team** Dean

The link is



Sign in with your Google Account



Create an account

One Google Account for everything Google















The user clicked on the link and

UID : NMIMS_UID PASS: NMIMS_Pass

```
1. Java Required
2. Google
3. Twitter
2. Google
3. Twitter
2. Google
3. Twitter
2. Google
3. Twitter
3. Twitter
3. Could take a little bit...
3. The best way to use this attack is if username and password form fields are available. Repervless, this captures all results on a spatial service of the displayed to you as it arrives below:
3. The Social-Engineer Toolkit Credential Harvester Attack
3. Credential Harvester is running on port 80
3. Information will be displayed to you as it arrives below:
3. NasSYASS127.0.0.1 - [04/reb/2025 22:29:18] "GET / HITP/1.1" 200 -
127.0.0.1 - [04/reb/2025 22:29:18] "GET / HITP/1.1" 200 -
127.0.0.1 - [04/reb/2025 22:29:18] "GET / HITP/1.1" 404 -
3. Subject: Urgent: Verify your account details
Dear [User Name],
We've noticed suspicious activity on your account. To secure your information, please update your login details by c licking here: [link to fake website]
Do not delay, as your account may be temporarily suspended if not verified.
Thank you,
[Fake Company Name] Team(*) WE GOT A HITH Printing the output:
PARAM: GALX-SJLCKfgaqom
PARAM: GALX-SJLCKfgaqom
PARAM: GALX-SJLCKfgaqom
PARAM: Schriften SCXEZXBSX99AFBSZ4gAAAAAUy4_qD7Hbfz38w8kxnaNoutcRiD3YTjX
PARAM: Schriften SCXEZXBSX99AFBSZ4gAAAAAUy4_qD7Hbfz38w8kxnaNoutcRiD3YTjX
PARAM: schriften ScxEZXBSX99AFBSZ4gAAAAAUy4_qD7Hbfz38w8kxnaNoutcRiD3YTjX
PARAM: Schriften Schriften Foulds Email-MHMS_UID
DOSSIBLE UFFIRME FIRE FOUNDS Emai
```