## Digital Forensics

• The SOC has received an anonymous report that a user is potentially exfiltrating data from the company. An image of the user's hard drive has been taken, and you are responsible for analyzing the contents of a perfect copy to find any evidence of malicious activity. You have been told that the most recent file on the hard-drive was an email file with an attachment in the "Saved Emails" directory. It is suggested you start there.

## 1. Initial File System Analysis for Evidence Location

To begin locating evidence, I started by examining the entire file system of the folder using the tree command. This command helps me see all files and folders, giving me a clearer idea of where important information might be hidden.

```
Website Update Report 01_10_2019.eml
— to do list
      templatemo_508_power
             - animate.css
              bootstrap.min.abc
              bootstrap.min.css
             font-awesome.css
             - owl-carousel.css
             - templatemo_misc.css
             templatemo_style.css
              flexslider-icon.ttf
              flexslider-icon.woff
              FontAwesome.otf
              fontawesome-webfont.eot
              fontawesome-webfont.ttf
              fontawesome-webfont.woff
          banner-bg.jpg
blog-post-1.jpg
index.html

    bootstrap.js

VERSION
- WAF on OS Detection Nmap Scan.txt
    - posidon.xml
```

## 2. Discovery of a Hidden, Password-Protected Archive

After carefully going through the "Disk Drive" for a long time, I noticed an empty folder named to-do. At first glance, it seemed to have nothing inside. However, by running the Is -a command (which shows all files, including hidden ones), I discovered a hidden zip file within it. I tried to open this zip file, but it was protected by a password.

## 3. Accessing Sensitive Data: The Employee Dump File

To open the password-protected zip file, I used a tool called fcrackzip. This tool helped me bypass the password protection. Once the zip file was open, I found a text file inside named employee dump. This file contained personal information belonging to employees, which is highly sensitive and should not have been stored on this user's device.

```
PASSWORD FOUND!!!!: pw = vendy13031988

(parallels@kali-linux-2022-2)-[~/_/J Harrison Disk Image 10.09.2019/WebDev work/unfinished webpages/to-do]
$\frac{1}{3}\text{ unzip .a0415ns.zip} \text{Archive: .a0415ns.zip} \text{ employeedump password: inflating: employeedump password: inflating: employeedump

(parallels@kali-linux-2022-2)-[~/_/J Harrison Disk Image 10.09.2019/WebDev work/unfinished webpages/to-do]

$\frac{1}{3}\text{ employeedump}

(parallels@kali-linux-2022-2)-[~/_/J Harrison Disk Image 10.09.2019/WebDev work/unfinished webpages/to-do]

$\frac{1}{3}\text{ employeedump ASCII text}

(parallels@kali-linux-2022-2)-[~/_/J Harrison Disk Image 10.09.2019/WebDev work/unfinished webpages/to-do]

$\frac{1}{3}\text{ employeedump ASCII text}

(parallels@kali-linux-2022-2)-[~/_/J Harrison Disk Image 10.09.2019/WebDev work/unfinished webpages/to-do]

$\frac{1}{3}\text{ parallels@kali-linux-2022-2}-[~/_/J Harrison Disk Image 10.09.2019/WebDev work/unfinished webpages/to-do]

$\frac{1}{3}\text{ parallels@kali-linux-2022-2}-[~/_
```