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# Lab 10 - Forensics

### Overview

Computer forensics is a branch of digital forensic science pertaining to evidence found in computers and digital storage media. The goal of computer forensics is to examine digital media in a forensically sound manner with the aim of identifying, preserving, recovering, analyzing and presenting facts and opinions about the digital information.

# Exercises

You are a private investigator and you have 2h to solve 9 crimes. At the end of every crime you will find a flag that looks like **ISC{...}**. Are you up to the task?

Here is your data.

All exercises can be solved on the local Linux machine.

#### 00. Capture 1

This is traffic capture of a suspect that we've been following for a long time. Can you find anything interesting like login credentials?

Hint1 **ょ** Hint2 **ൂ** 

## 01. Unknown File Type

We've found this file on a confiscated machine, but we can't figure what it is. Can you help us?

Hint1 **ょ** 

### 02. Hidden Flag

There is something uncanny about this image. Is it trying to give us a hint?

#### 03. Corrupted File

During a transmission, one of our files got corrupted. Take a look and see if you can do something about it.

Hint1 **∡** 

## 04. Audio Visualization

We have intercepted an alien transmission, but there is no way to understand what is it saying. Maybe we should look at it.

Hint1 **ょ** 

# 05. Hidden File

There is something wrong with the size of this image. Is there anything else there?

Hint1 **∡** 

# 06. Censored

We've found a letter in the trash can of a suspect, but some of the info is censored. Do some magic and find what is underneath the black box.

Hint1 **ĸ** 

# 07. Waiting for eternity

We stared at this gif for the last hour but nothing is happening. Would you like to join us and stare at it for the next hour?

# 08. Capture 2

This is an USB capture of a device connected to a suspect's machine. Can you find what he's been typing?

Hint1 **ĸ** 

# Resources

- Hex Editor
- Wireshark
- Binwalk
- Audacity
- Image extractor USB documentation

# 11. [10p] Feedback

Please take a minute to fill in the feedback form for this lab.

Lectures

- Lecture 01 Introduction
- Lecture 02 Cryptography
- Lecture 03 Hardware Security
- Lecture 04 Access Control Lecture 05 - Authentication and
- Key Establishment
- Lecture 06 Application Security
- Lecture 07 Operating System
- Security
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- Lecture 10 Privacy Preserving Technologies
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#### Labs

#### kernel

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- Useful resources
- Virtual Machine

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