INSTITUTO SUPERIOR TÉCNICO

DEPARTAMENTO DE ENGENHARIA INFORMÁTICA

FORENSICS CYBER-SECURITY

MEIC, METI

Lab Assignment I

Leaky Winden

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{danielporto, nuno.m.santos}@tecnico.ulisboa.pt

Introduction

In this guide, you will be challenged to solve a case entitled "Leaky Winden", which will help you gain hands-on experience on steganography and file forensics. This exercise requires the examination of a small number of files. These files are enclosed in the zip file <code>csf-labl-artifacts.zip</code> which can be downloaded from the course website. To analyze these artifacts, we recommend you to use the Kali Linux distribution.

Scenario presentation

For several years now, Ed Winden has been working for a major chip manufacturer. However, motivated by suspicious changes in his behavior, this company started taking measures to investigate him. Since he had privileged access to the plans for a new revolutionary processor, Winden might have illicitly stolen those plans, perhaps to sell them to competitors. Thus, after obtaining legal counseling and authorization, an auditing team was created to look for potential evidence. Eventually, they collected the following files from a Winden's pen drive after returning from a trip to Lisbon:

File	Value
LOTR-Part1.txt	760ff6f302a6b9132983aedc9b51af1e
compress.py	ee4ce345a9519d9b3f22109828f26aac
electrico.png	48d4eb13f4760bb18f44d425568936e0
jeronimos.png	a0610a1756bc34f251716ba36b5aa197
lisbon.png	ccd086ec7f8d450c8d091cb6b8fe0b0c
online_banking.zip	d6f38d287f9f8b3fa6c613503f5a1619
rossio.png	dacadbf11a63a09fca89da083c12ac37

Your task is to analyze these artifacts and search for any evidence of industrial secrets that might be present in them. Write a forensic report that describes your findings. The deadline for this work is October 27th. Until then, you must upload to Fenix a compressed zip file containing four deliverables:

- **Digital Forensic Report**: A document in which you present your main findings. You must identify all recovered evidence artifacts, if any, and explain how you obtained them. We recommend you to use the template that can be downloaded from the course website.
- Evidence Artifacts: All evidence artifacts recovered during the forensic analysis. Please make sure that the respective file names and MD5 values are indicated in the report.
- Examination Log: Consists of a document in which you must note down all steps that were performed during the investigation. A template of a sample examination log can be retrieved from the course website.
- Auxiliary Items: Programs, scripts, and additional documents that you have produced during the investigation which are important to justify your results must also be included.

TIP: There are in total four hidden secrets in the provided artifacts.

Good luck!