Introduction

This report details the development of a Steganography Tool designed for hiding text or files within images.

Abstract

The Steganography Tool is a Python based application that allows users to discreetly embed messages (text or files) into image files using the Least Significant Bit (LSB) method.

Tools

- **Gedit**
- **Steghide**

Conclusion

The Steganography Tool for File Hiding successfully achieves its objective of providing a functional and user friendly application for concealing and revealing information within images.

Steps 1

- Create a text file, then texting words.

```
┌──(root💀707)-[/home/amthehr/Downloads]
└─# gedit new.txt

** (gedit:176872): WARNING **: 18:45:08.396: Could not load Peas repository: Typelib file for namespace 'Peas', version '1.0' not found

** (gedit:176872): WARNING **: 18:45:08.396: Could not load PeasGtk repository: Typelib file for namespace 'PeasGtk', version '1.0' not found

┌──(root💀707)-[/home/amthehr/Downloads]
└─# ls
 binary.bin  'cyber projects.pdf'   HR707.ovpn   new.txt   nexphisher   pexels-souvenirpixels-414612.jpg   pktriot   task.png
```

Steps 2

- Download jpg image file.

```
┌──(root💀707)-[/home/amthehr/Downloads]
└─# ls
 binary.bin  'cyber projects.pdf'   HR707.ovpn   new.txt   nexphisher   pexels-souvenirpixels-414612.jpg
```

Steps 3

- Hiding text file to image file with password.

```
┌──(root💀707)-[/home/amthehr/Downloads]
└─# steghide embed -ef /home/amthehr/Downloads/new.txt -cf /home/amthehr/Downloads/pexels-souvenirpixels-414612.jpg -p pass
embedding "/home/amthehr/Downloads/new.txt" in "/home/amthehr/Downloads/pexels-souvenirpixels-414612.jpg" ... done
```

Steps 4

- Extracting a file hidden in an image.

```
┌──(root💀707)-[/home/amthehr/Downloads]
└─# steghide extract -sf /home/amthehr/Downloads/pexels-souvenirpixels-414612.jpg -xf /home/amthehr/Downloads/hidden.txt
Enter passphrase:
wrote extracted data to "/home/amthehr/Downloads/hidden.txt".
```

Steps 5

- Open the hidden file.

```
┌──(root💀707)-[/home/amthehr/Downloads]
└─# cat hidden.txt
hello hackers...........
```