



```
(k@kali)-[~/stegDir]
└─$ ls ~/stegDir
dog.jpeg  testfile.txt
```

```
(k@kali)-[~/stegDir]
└─$ md5sum testfile.txt dog.jpeg
75abf81944e40f8f4764b6fceb275ca testfile.txt
eeb52b945723bbfbb6c122dfb4d7bb28 dog.jpeg
```

```
(k@kali)-[~/stegDir]
└─$ steghide embed -cf dog.jpeg -ef testfile.txt
Enter passphrase:
Re-Enter passphrase:
embedding "testfile.txt" in "dog.jpeg" ... done
```

Yes, the md5 hash has changed.

```
(k@kali)-[~/stegDir]
└─$ md5sum dog.jpeg
deaa03a1ff96aa6cfaccc8f1cd4b85e1  dog.jpeg
```

```
(k@kali)-[~/stegDir]
└─$ steghide info dog.jpeg
"dog.jpeg":
  format: jpeg
  capacity: 290.4 KB
Try to get information about embedded data ? (y/n) y
Enter passphrase:
  embedded file "testfile.txt":
    size: 28.0 Byte
    encrypted: rijndael-128, cbc
    compressed: yes
```

```
(k@kali)-[~/stegDir]
└─$ rm testfile.txt
```

```
(k@kali)-[~/stegDir]
└─$ ls
dog.jpeg
```

```
(k@kali)-[~/stegDir]
└─$
```

```
ireless Tr...
(k@kali)-[~/stegDir]
└─$ steghide --extract -sf dog.jpeg
Enter passphrase:
wrote extracted data to "testfile.txt".

(k@kali)-[~/stegDir]
└─$
```

```
(k@kali)-[~/stegDir]
└─$ ls
dog.jpeg  testfile.txt

(k@kali)-[~/stegDir]
└─$
```

The image shows a terminal window on the left and a separate application window on the right. The terminal window shows the following sequence of commands and outputs:

```
k@kali: ~/stegDir
└─$ steghide --extract -sf dog.jpeg
Enter passphrase:
wrote extracted data to "testfile.txt".

(k@kali)-[~/stegDir]
└─$ ls
dog.jpeg  testfile.txt

(k@kali)-[~/stegDir]
└─$ gedit te

** (gedit:18586): WARNING **: 23:20:52.883:
ypelib file for namespace 'Peas', version

** (gedit:18586): WARNING **: 23:20:52.883:
: Typelib file for namespace 'PeasGtk', ve

(k@kali)-[~/stegDir]
└─$ gedit testfile.txt
```

The application window on the right, titled "testfile.txt", shows the extracted secret message:

```
1 This is a secret message
2
3
4
```

```
File Name           : dog.jpeg
Directory           : .
File Size           : 5.1 MB
File Modification Date/Time : 2025:04:05 23:25:03-04:00
File Access Date/Time   : 2025:04:05 23:25:03-04:00
File Inode Change Date/Time : 2025:04:05 23:25:03-04:00
File Permissions      : -rw-rw-r--
File Type            : JPEG
File Type Extension   : jpg
MIME Type            : image/jpeg
JFIF Version         : 1.02
Resolution Unit       : inches
X Resolution         : 72
Y Resolution         : 72
XMP Toolkit          : Image::ExifTool 13.00
Author               : Michael
Image Width          : 3176
Image Height         : 2117
Encoding Process      : Baseline DCT, Huffman coding
Bits Per Sample       : 8
Color Components      : 3
Y Cb Cr Sub Sampling : YCbCr4:4:4 (1 1)
Image Size           : 3176x2117
Megapixels           : 6.7
```

└─(k@kali)-[~/stegDir]

Yes, the hash has changed from starting with a D to starting with a 9.

```
└─(k@kali)-[~/stegDir]
└─$ md5sum dog.jpeg
9bfde323789490e885906f7226f69db6  dog.jpeg
```