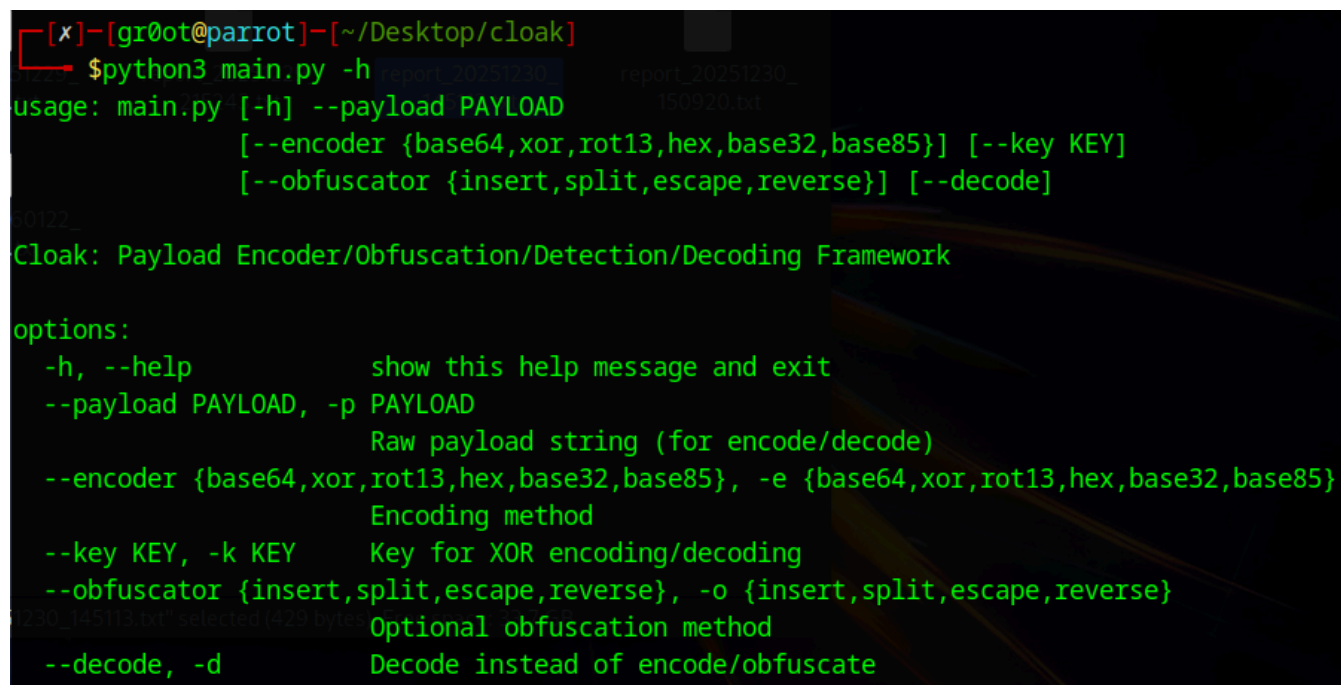


cloak_ss_file

Cloak: Payload Encoder, Obfuscation, Detection, Reporting, and Decoding Framework

1. Help Options :

This screenshot shows the available command-line arguments for Cloak. It demonstrates how users can select payloads, encoders, obfuscators, and the decode flag.



```
[x]-[gr0t@parrot]-[~/Desktop/cloak]
$python3 main.py -h
usage: main.py [-h] --payload PAYLOAD
               [--encoder {base64,xor,rot13,hex,base32,base85}] [--key KEY]
               [--obfuscator {insert,split,escape,reverse}] [--decode]

Cloak: Payload Encoder/Obfuscation/Detection/Decoding Framework

options:
  -h, --help            show this help message and exit
  --payload PAYLOAD, -p PAYLOAD
                        Raw payload string (for encode/decode)
  --encoder {base64,xor,rot13,hex,base32,base85}, -e {base64,xor,rot13,hex,base32,base85}
                        Encoding method
  --key KEY, -k KEY     Key for XOR encoding/decoding
  --obfuscator {insert,split,escape,reverse}, -o {insert,split,escape,reverse}
                        Optional obfuscation method
  --decode, -d          Decode instead of encode/obfuscate
```

2. Normal String Encoding & Decoding with Obfuscation :

Here, a simple string is encoded using Base64 with an obfuscation method applied. The same string is then decoded back, showing that reversible transformations work correctly.

```

[gr00t@parrot]-[~/Desktop/cloak]
└─ $python3 main.py --p "hello" -e base64 -o reverse
=== Cloak Execution ===
[ENCODER] BASE64 result, detected_original, detected_transformed)
[OBFUSCATOR] reverse
[OUTPUT] =8GbsVGa
[DETECTION] Original: BYPASSED
[DETECTION] Transformed: BYPASSED else 'NONE'))
[EFFECTIVENESS] NEUTRAL – Both original and transformed bypassed.
[REPORT]
--- Report saved to results/report_20260204_143730.txt ---
[gr00t@parrot]-[~/Desktop/cloak] _transformed else 'BYPASSED'))
└─ $python3 main.py --p "=8GbsVGa" -e base64 -o reverse -d
=== Cloak Decoding ===
[DECODER] BASE64
[DE-OBFUSCATOR] reverse
[OUTPUT] hello

```

3. Detectable String Encoding & Decoding with Obfuscation :

This example uses a payload that would normally be flagged by detection. After encoding and obfuscation, the transformed payload bypasses detection. The next run shows successful decoding back to the original string.

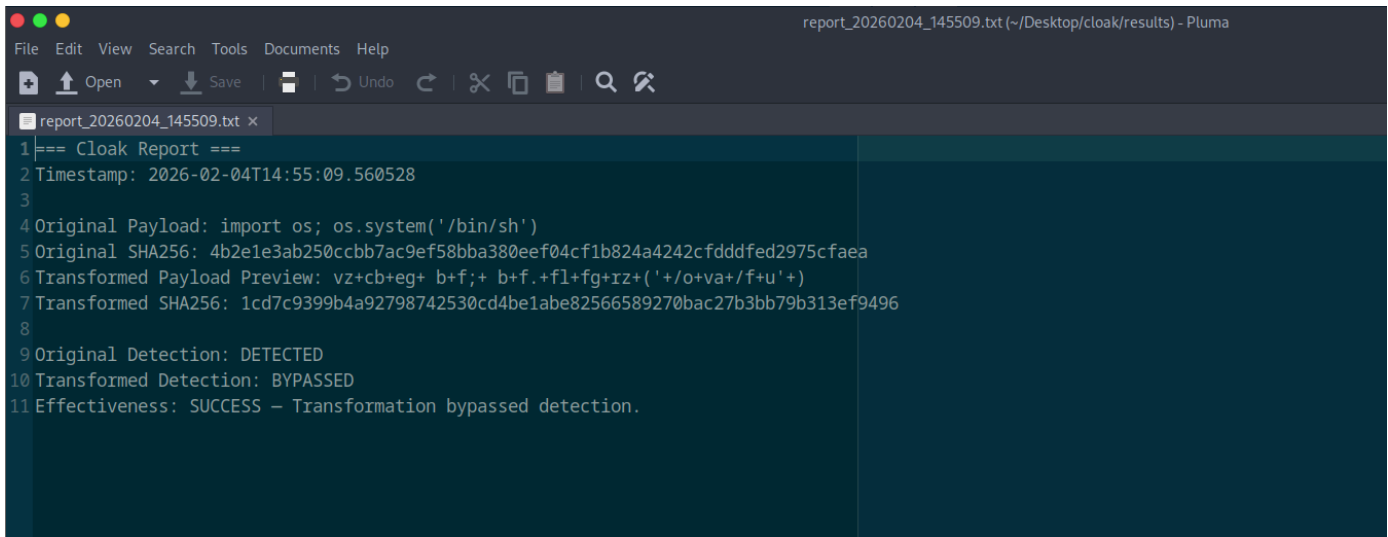
```

[gr00t@parrot]-[~/Desktop/cloak]
└─ $python3 main.py -p "import os; os.system('/bin/sh')" -e rot13 -o split
=== Cloak Execution ===
[ENCODER] ROT13 payload)
[OBFUSCATOR] split pairs)
[OUTPUT] vz+cb+eg+ b+f;+ b+f.+fl+fg+rz('+/o+va+/f+u'+)
[DETECTION] Original: DETECTED
[DETECTION] Transformed: BYPASSED
[EFFECTIVENESS] SUCCESS – Transformation bypassed detection.
[REPORT]
--- Report saved to results/report_20260204_145509.txt ---
[gr00t@parrot]-[~/Desktop/cloak]
└─ $python3 main.py -p "vz+cb+eg+ b+f;+ b+f.+fl+fg+rz('+/o+va+/f+u'+)" -e rot13 -o split -d
=== Cloak Decoding ===
[DECODER] ROT13 radata)
[DE-OBFUSCATOR] split exactly which chars were added.
[OUTPUT] import os; os.system('/bin/sh')

```

4. Saved Report Output :

This screenshot highlights Cloak's reporting feature. Each run generates a detailed report file with detection results, verdicts, and hashes, saved automatically in the results/ directory.



The screenshot shows a Pluma text editor window with the title bar "report_20260204_145509.txt (~/.Desktop/cloak/results) - Pluma". The menu bar includes File, Edit, View, Search, Tools, Documents, and Help. The toolbar contains icons for Open, Save, Undo, Redo, Copy, Paste, Delete, Find, and Replace. The active tab is "report_20260204_145509.txt x". The text content is as follows:

```
1=== Cloak Report ===
2Timestamp: 2026-02-04T14:55:09.560528
3
4Original Payload: import os; os.system('/bin/sh')
5Original SHA256: 4b2e1e3ab250ccbb7ac9ef58bba380eef04cf1b824a4242cfdddfed2975cfaea
6Transformed Payload Preview: vz+cb+eg+ b+f;+ b+f.+fl+fg+rz+('/+o+va+/f+u'+)
7Transformed SHA256: 1cd7c9399b4a92798742530cd4be1abe82566589270bac27b3bb79b313ef9496
8
9Original Detection: DETECTED
10Transformed Detection: BYPASSED
11Effectiveness: SUCCESS - Transformation bypassed detection.
```

5. Results Directory Overview :

This view shows the results/ folder where all generated reports are stored. It confirms that Cloak maintains organized output files for later review.

