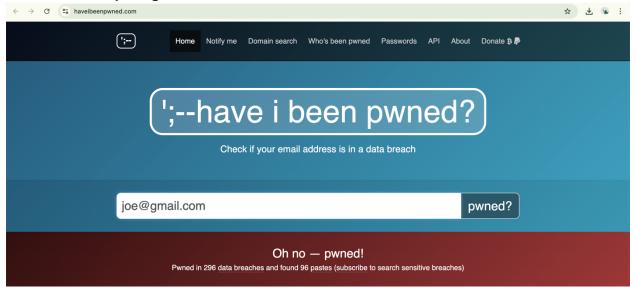
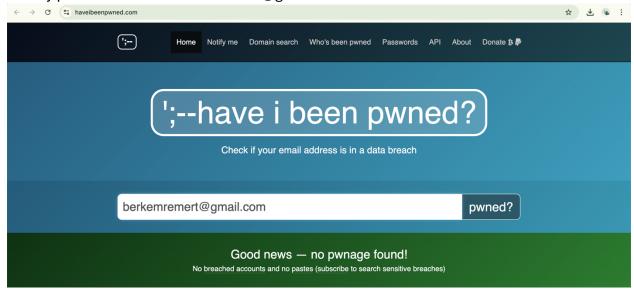
Task 1: Have I been Pwned

Task 1 A) Looking for leaks

For the email of joe@gmail.com:



For my personal email berkemremert@gmail.com:



Task 1 B) Breach data content

Some websites let people pay to see hacked data. Three examples are DeHashed, Snusbase, and IntelX. These sites share leaked emails, passwords, and other private info. Some people use them to check their own security, but hackers can also misuse them.

The big question is: Should everyone be able to search for leaked data, or should we try to remove it? If people can see exactly what was leaked, they can protect themselves. But at the same time, bad people could use this information for scams. Removing it sounds like a good idea, but once data is on the internet, it's almost impossible to erase.

Companies often don't tell the full truth about data leaks. If breach data was more open, companies might take security more seriously. But if everything was public, people could be put in danger.

The best idea might be to let only verified users check their own leaked data while hiding the most dangerous information. This way, people can protect themselves, but private details won't be easy to abuse.

Task 2: Hardcoded Passwords

Valid Password: Vulture3H

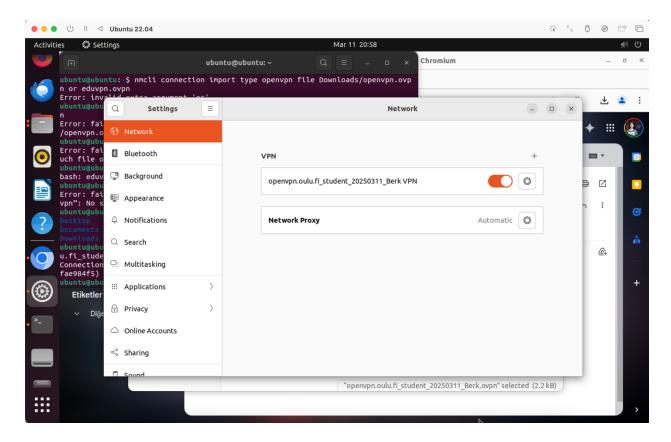
Valid Activation Key: The binary accepts activation keys that, when converted from hexadecimal to decimal and summed, equal 0x539 (1337 in decimal). So 539 in hexadecimal is a valid key

Instructions to Create Other Activation Keys: 53A (5 + 3 + 10 = 18 in decimal) is valid. Super Secret Password: The hash value 4dc9332c corresponds to the plaintext password password 123

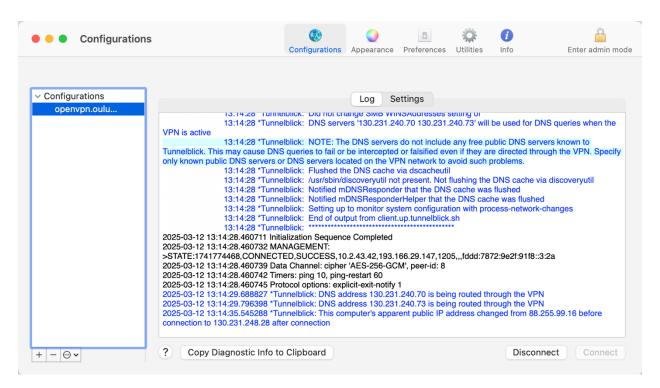
Hash Function Used: The hash function used for the super secret password is SHA-1

Task 3: OSINT exploitation

Firstly, I have successfully set the openVPN up to my Ubuntu virtual machine.



It didn't work properly so I downloaded the VPN to my Mac.



Then I have downloaded Sherlock by using brew.

1. What is the alias of the new employee and where is he from? Explain where you found this information

I used sherlock command to find social media alias:

```
(base) berkemremert@Berk-MacBook-Air PS3 % sherlock
pellesecurity
[*] Checking username pellesecurity on:
[+] ArtStation: https://www.artstation.com/pellesecurity
[+] Cults3D:
https://cults3d.com/en/users/pellesecurity/creations
[+] Freelance.habr:
https://freelance.habr.com/freelancers/pellesecurity
[+] GNOME VCS: https://gitlab.gnome.org/pellesecurity
[+] GitHub: https://www.github.com/pellesecurity
[+] NationStates Nation:
https://nationstates.net/nation=pellesecurity
[+] NationStates Region:
https://nationstates.net/region=pellesecurity
[+] TorrentGalaxy:
https://torrentgalaxy.to/profile/pellesecurity
[+] Twitter: https://x.com/pellesecurity
[+] YouTube: https://www.youtube.com/@pellesecurity
[*] Search completed with 10 results
(base) berkemremert@Berk-MacBook-Air PS3 % sherlock
pelle security
[*] Checking username pelle security on:
[+] ArtStation: https://www.artstation.com/pelle security
[+] Cults3D:
https://cults3d.com/en/users/pelle security/creations
[+] Freelance.habr:
https://freelance.habr.com/freelancers/pelle security
[+] GNOME VCS: https://gitlab.gnome.org/pelle security
[+] NationStates Nation:
https://nationstates.net/nation=pelle security
[+] NationStates Region:
https://nationstates.net/region=pelle security
[+] Twitter: https://x.com/pelle security
[+] YouTube: https://www.youtube.com/@pelle security
[+] omg.lol: https://pelle security.omg.lol
[*] Search completed with 9 results
```

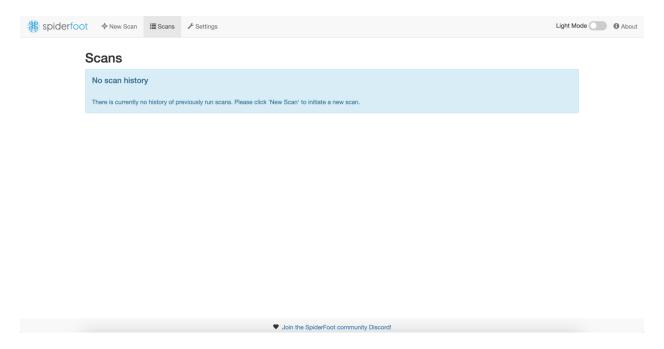
2. What is the employee's real name? Explain how you found it.

I tried to install spiderfoot but I got several errors and tried to deal with them as well.

```
spiderfoot — -zsh — 109×46
      cc -I/opt/miniconda3/include/libxml2 -I/opt/miniconda3/include -I/Applications/Xcode.app/Contents/Devel
oper/Platforms/MacOSX.platform/Developer/SDKs/MacOSX.sdk/usr/include -I/usr/include/libxml2 -c /tmp/xmlXPathI
nit8qo1drxn.c -o tmp/xmlXPathInit8qo1drxn.o
      /tmp/xmlXPathInit8qoldrxn.c:3:5: warning: 'xmlXPathInit' is deprecated [-Wdeprecated-declarations]
         xmlXPathInit();
      /opt/miniconda3/include/libxml2/libxml/xpath.h:566:1: note: 'xmlXPathInit' has been explicitly marked d
eprecated here
      XML_DEPRECATED
      /opt/miniconda3/include/libxml2/libxml/xmlexports.h:69:43: note: expanded from macro 'XML_DEPRECATED'
          #define XML_DEPRECATED __attribute__((deprecated))
      1 warning generated.
      cc tmp/xmlXPathInit8qo1drxn.o -L/opt/miniconda3/lib -L/opt/miniconda3/lib -L/opt/miniconda3/lib -L/opt/
miniconda3/lib -L/opt/miniconda3/lib -L/Applications/Xcode.app/Contents/Developer/Platforms/MacOSX.platform/D
eveloper/SDKs/MacOSX.sdk/usr/lib -lxml2 -o a.out
      error: command '/usr/bin/clang' failed with exit code 1
  note: This error originates from a subprocess, and is likely not a problem with pip.
  Building Wheel for ipaddr (pyproject.toml) ... done employee's real name? Explain how you found it.
  Created wheel for ipaddr: filename=ipaddr-2.2.0-py3-none-any.whl size=18322 sha256=a02f3c9d9ac59fa0e0fee8b1
003d7e4d989f51a245349769fcbb937180e9b74f
 Stored in directory: /private/tmp/pip-ephem-wheel-cache-qpn_fd0m/wheels/43/be/44/09bf877e98499067e9016f74cf
a4411ffbf926b6f81d73626a
  Building wheel for pygexf (pyproject.toml) ... done
  Created wheel for pygexf: filename=pygexf-0.2.2-py3-none-any.whl size=5479 sha256=4ca6e32574f3859b479dc1acc
bfb017528106428133172f383441714483d7739
  Stored in directory: /private/tmp/pip-ephem-wheel-cache-qpn_fd0m/wheels/e5/7e/ef/6f6cc25cecb4c864a6959ea0fd
33378af78878bf59f023dc27
  Building wheel for python-whois (pyproject.toml) ... done
  Created wheel for python-whois: filename=python_whois-0.7.3-py3-none-any.whl size=87767 sha256=6fe30aded80e
518af3f0af355f309a55f4f3822b5d01a8baeda1874b4e666da0
  Stored in directory: /private/tmp/pip-ephem-wheel-cache-qpn_fd0m/wheels/54/e0/22/c8ff8b87769c19cd022f317ed6
efbe32d73d083e3d99e17058
  Building wheel for python-docx (pyproject.toml) ... done
Created wheel for python-docx: filename=python_docx-0.8.11-py3-none-any.whl size=184540 sha256=8b0bd862b546 a539d98dfc8862edc6591d075caf9fc3119c0dbf9e95e1b8745d
 Stored in directory: /private/tmp/pip-ephem-wheel-cache-qpn_fd0m/wheels/28/d3/8e/c09119833d575c0c97e00be8df
90d7a668e3df21eedcebddc0
Successfully built ipaddr pygexf python-whois python-docx k by logging into the company's server. Explain how you did this.
Failed to build lxml
```

I realised that the problem was because I was doing the processes in the virtual environment and lxml wasn't properly building wheel up for some reason. So I deactivated the environment and tried to install requirements for one more time.

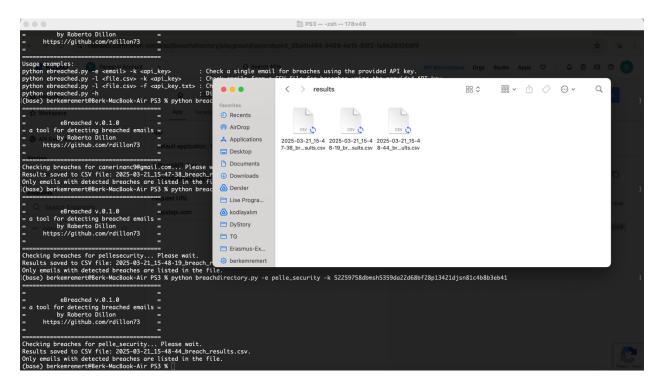
I finally realised that the problem is because spiderfoot was using an old version of lxml so I created an issue about it on Github as well.



I scanned the name pelle in ... and I found that the real name of the employee is Jose Luis Simonetti in the part of similar domains WHOIS.

3. The employee may have accidentally leaked his email address. Find the password of this leaked email. Explain where you found it:

I tried to search pelle_security or pellesecurity on BreachDirectory but I couldn't find anything. Result files didn't include anything.



I got help from the following github page as well: https://github.com/rdillon73/eBreached

4. Explain how you logged into the SFTP server. What was the password?

I couldn't find the email unfortunately \odot but I tried several mail addresses to check. Still I couldn't log in. (I had my VPN open for Oulu)



4. What is in the flag.txt file located on the SFTP server?

Couldn't do this task.

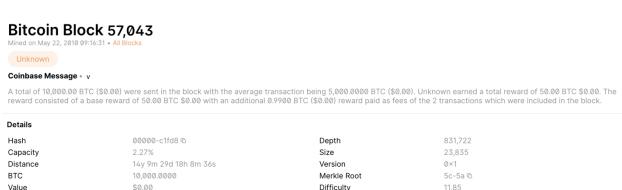
5. Now finish the task by logging into the company's server. Explain how you did this.

Couldn't do this task.

6. What is in the text file located on the server?

Couldn't do this task.

Task 4: Hardcoded Passwords



Value Today \$842,351,000 Nonce 188.133.155 5,000.00000000000 BTC Average Value 471,178,276 Median Value 5025.495000000 BTC Weight 95.340 WU Input Value 10.000.99 BTC Minted 50.00 BTC 10,050.99 BTC 50.99000000 BTC Output Value Transactions Mined on May 22, 2010, 9:16:31 PM Witness Tx's 0 Height 57.043 132 Confirmations 831.722 Outputs 4,191-4,191 sat/vByte Fee Range Fees 0.99000000 BTC Average Fee 0.49500000 0.0415356 BTC 0.49500000 Median Fee 0.0103839 BTC Fees kWU Miner Unknown

Transaction

Date and Time of the transaction: 5/22/2010, 21:16:31

Hash of the transaction:

a1075db55d416d3ca199f55b6084e2115b9345e16c5cf302fc80e9d5fbf5d48d

Address of sender: 1XPTgDRhN8RFnzniWCddobD9iKZatrvH4 Address of receiver: 17SkEw2md5avVNyYgj6RiXuQKNwkXaxFyQ

Transaction fee amount in bitcoin: 99.0M Sats, \$83,392.75, in Bitcoin: 0.99 BTC

Receiver Address

Who was the owner of this address?

Laszlo Hanyecz

Use Google to figure out the real name of the user: I found him. He bought two pizzas with that money.

The receiver: Jeremy Sturdivant

The owner instantly divided and forwarded the 10,000 to (how many?) **2** other addresses Addresses that received the 10,000 bitcoin and the corresponding sums to each address

To: 1MLh2UVHgonJY4ZtsakoXtkcXDJ2EPU6RY 5777.00000000 BTC -> \$484,097,406

To: 13TETb2WMr58mexBaNq1jmXV1J7Abk2tE2 4223.0000000 BTC -> \$353,876,293

Block

Hash of the block 57043:

0000000152340ca42227603908689183edc47355204e7aca59383b0aaac1fd8

Amount of transactions in the block: 10,000.00 BTC

Block reward amount: 50.00 BTC

Miner

Address of the miner for block 57043: 1yXfRNBg9E2URDEcrdZx5R1ZPxTcUJGTH Has this address spent the block reward they received?: S/he didn't spend it, still has 50.99017620 BTC on his/her account.