



INSTITUTO SUPERIOR TÉCNICO

Departamento de Engenharia Informática

Forensics Cyber Security

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Digital Forensics Report

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1. Did you find any traces of the hidden artifacts and/or the files from the lost pen drive on César Silva Ferro's computers?

Yes, we did find the trace of the hidden artifacts and the files from the lost pen drive on César Silva Ferro's computers.

We confirmed that the USB device discovered, serial number **YLBE5FV0**, was indeed plugged into César's personal computer with two entries on **September 30th** at **13:17:58** and **13:25:52**.

```
Sep 30 12:19:41 ironcaesar kernel: [10310.434145] usb 2-1: New USB device strings: Mfr=1, Product=2, SerialNumber=3
Sep 30 12:19:41 ironcaesar kernel: [10310.434155] usb 2-1: SerialNumber: 001D0F0A94D65B8813151ED9
Sep 30 13:17:58 ironcaesar kernel: [13807.151203] usb 2-1: New USB device strings: Mfr=1, Product=2, SerialNumber=3
Sep 30 13:17:58 ironcaesar kernel: [13807.151211] usb 2-1: SerialNumber: YLBE5FV0
Sep 30 13:25:52 ironcaesar kernel: [14281.963044] usb 2-1: New USB device strings: Mfr=1, Product=2, SerialNumber=3
Sep 30 13:25:52 ironcaesar kernel: [14281.963048] usb 2-1: SerialNumber: YLBE5FV0
```

Image 01: \$ strings -n 8 caesarDisk.img | grep -i 'YLBE5FV0'

Notice that another device was plugged in at **12:19:41** with the serial number **001D0F0A94D65B8813151ED9**. We will extend this further down.

We've also located several files that appeared to be the original unaltered files from the USB flash drive before they were scrambled on César's personal computer. These files were found in the `/home/ironcaesar/Documents/` directory and included:

- BdC_on_the_beat
 - logo-ist.png (different sha256 value)
 - Rialva.png (different sha256 value)
 - Social.png (different sha256 value)
 - Tagus.png (different sha256 value)
 - csf2223-grades-e2.pdf (this file was later modified and renamed "**waste-of-time**")
 - "O Mundo Sabe que (letra e música).wav" (this was altered to become "**sporting_anthem**")
 - grandmas_cake.png
 - grandmas_recipe.txt
 - my_fortune.jpeg

The last three files were discovered within a zip file hidden in the **logo.png** image.

Image 02: Autopsy Screen Shot at /home/ironcaesar/Documents/

In the end, we discovered that César unintentionally installed a keylogger while running the LSB Selective Tool version 10.15.3. This keylogger recorded information to a file located at /tmp/KQRbv8Zj1Ba.log.log. After examining the contents of this file, we found a link (<http://shrtco.de/xq56SY>), which led us to a password-protected Google document. We determined the password from the same log file, which was "Viktor_Gyokes_1906," and used it to access the document.

Inside the document, we found several passwords (<https://docs.google.com/document/d/1U-P-3p80FV8dCQ5vmeCxoRivkCMtnhB4g6GG6toNKF8/>), one of which was intended for use in the "seed.txt" file. This file was crucial for the "obfuscator.py," which we obtained by decompiling the "obfuscator.pyc" file. The "seed.txt" file was used to generate the actual password for a backup zip file. To find this password, we systematically tried every possible password from "seed.txt" and ran "obfuscator.py" 18 times until it produced the same seed value as the one found in the "/temp/seed.txt" file on César's computer.

With the correct password in hand, we extracted the corresponding zip files and then used "obfuscator.py" to generate passwords and unzip the backups. Upon examining the contents, we compared the files in the final zip file, "backup_1696076401.zip," with those on the pen drive. We successfully confirmed that they were identical, with matching SHA256 values, providing solid evidence that they indeed originated from there.

2. If so, can you trace the source of these files and how they have been manipulated over time? Establish a timeline of relevant events.

UNIX Time	Formatted Time	Description	Source
-	28/09/2023 17:37	Cesar creates a petition for the Resignation of Ms. Eva Rocha	https://drive.google.com/file/d/1FtLHkqwGdfZQHpdxF2Vq4daS9TK4LJrM/
1696071983	30/09/2023 12:06:23	César receives an email accusing Ms. Eva Rocha of a crime. The email mentions the location of a USB drive	/img_caesarDisk.img/vol_vol6/home/ironcaesar/.thunderbird/gjht15t3.default-release/Mail/pop.gmail.com/inbox
1696072781	30/09/2023 12:19:41	César inserts the USB drive (KINGSTON) with evidence against Eva into his computer SN:001D0F0A94D65B881 3151ED9	/img_caesarDisk.img/vol_vol6/var/log/syslog.1 /img_caesarDisk.img/vol_vol6/var/log/kern.log.1
1696073128	30/09/2023 12:25:28	César sends an email to his friend Catarina	/img_caesarDisk.img/vol_vol6/home/ironcaesar/.thunderbird/gjht15t3.default-release/Mail/pop.gmail.com/Sent
1696073186 - 1696074029	30/09/2023 12:26:26 - 12:40:29	César talks with "CatSil" (Catarina Silva) about the discovery of the incriminating files via IRC	/img_caesarDisk.img/vol_vol6/home/ironcaesar/snap/irssi/common/irclogs/2023/freenode/#thebasement.09-30.log
1696074234	30/09/2023 12:43:54	César downloads Steg_Tools_v5.7.0_By_Lapsus	firefox history
1696074284	30/09/2023 12:44:44	César unzips Steg_Tools_v5.7.0_By_Lapsus	bash history + created time Steg scripts
1696074426	30/09/2023 12:47:06	César hides a bank statement in a PDF (Append_Tool_v2.1.py)	bash history + access time Append_Tool_v2.1.py
1696074485	30/09/2023 12:48:05	César hides the secret tunnelBlueprint.jpeg in the metadata of the images Rialva.png, Social.png, and Tagus.png (Hide_Chunk_Tool_v5.2.8.sh)	bash history + access time Hide_Chunk_Tool_v5.2.8.sh

1696074561	30/09/2023 12:49:21	César hides the secret Secret.png in the audio sporting_anthem.wav (Hide_Spectrogram_Tool_v2.7.9.py)	bash history + access time Hide_Spectrogram_Tool_v2.7.9.py
1696074925	30/09/2023 12:55:25	César hides the secret tunnel.jpeg in a frame of a video (Cool_stuff.mp4) (LSB_Video_Tool_v7.8.1.sh)	bash history + access time LSB_Video_Tool_v7.8.1.sh
1696075018	30/09/2023 12:56:58	César removes bytes from the secret video.mp4 (Video_Header_Tool_v1.0.7.sh)	bash history + Video_Header_Tool_v1.0.7.sh
1696075249	30/09/2023 13:00:49	César hides the zip file with previous video in report.docx (Zip_Encode_Tool_v8.2.1.sh)	bash history + Zip_Encode_Tool_v8.2.1.sh
1696075609	30/09/2023 13:06:49	César hides AnonLetter_clean.pdf in the image logo.png (LSB_Selective_Tool_v10.1.5.3.py) César runs a keylogger without realizing it	bash history + create time KQRbv8Zj1Ba.log.log
1696075823	30/09/2023 13:10:23 13:20:21	The script backup.sh runs as scheduled and sends 2 backups with the manipulated files to the backup disk	/img_caesarDisk.img/vol_vol6/var/spool/cron/crontabs/ironcaesar
1696076278	30/09/2023 13:17:58	César inserts the USB drive (Transcend) where the files with hidden secrets were found SN:YLBE5FV0 Copies the files from backup folder to USB	/img_caesarDisk.img/vol_vol6/var/log/syslog.1 /img_caesarDisk.img/vol_vol6/var/log/kern.log.1

3. Do you find any evidence of anti-forensic activity?

Yes. It goes as follows:

1. Safely deleting tool

In the `/home/ironcaesar/.bash_history` file we can see that César Silva installed a tool for safely deleting files in the terminal (*`sudo apt-get install secure-delete`*), using the `srm` shell command to execute it.

Music	2023-09-19 21:18:28 WEST	2023-09-19 21:18:28 WEST	2023-10-01 13:38:32 WEST	2023-09-1
Pictures	2023-09-29 10:20:31 WEST	2023-09-29 10:20:31 WEST	2023-10-01 13:38:32 WEST	2023-09-1
Public	2023-09-19 21:18:28 WEST	2023-09-19 21:18:28 WEST	2023-10-01 13:38:32 WEST	2023-09-1
snap	2023-09-29 10:22:42 WEST	2023-09-29 10:22:42 WEST	2023-10-01 13:38:32 WEST	2023-09-1
Templates	2023-09-19 21:18:28 WEST	2023-09-19 21:18:28 WEST	2023-10-01 13:24:48 WEST	2023-09-1
Videos	2023-09-19 21:18:28 WEST	2023-09-19 21:18:28 WEST	2023-10-01 13:38:32 WEST	2023-09-1
.bash_history	0	2023-10-01 13:36:06 WEST	2023-10-01 13:36:06 WEST	2023-10-01 13:36:06 WEST
.bash_logout	2	2023-09-19 21:09:57 WEST	2023-09-19 21:09:57 WEST	2023-09-1
.bashrc	0	2023-09-19 21:09:57 WEST	2023-09-19 21:09:57 WEST	2023-10-01 13:24:51 WEST
.profile	2	2023-09-19 21:09:57 WEST	2023-09-19 21:09:57 WEST	2023-09-26 20:37:00 WEST
.selected_editor	0	2023-09-29 10:38:34 WEST	2023-09-29 10:38:34 WEST	2023-09-30 11:40:13 WEST
.vboxclient-dipboard-tty2-control.pid	0	2023-09-27 10:02:51 WEST	2023-09-27 10:02:51 WEST	2023-09-26 20:40:03 WEST

Image 03: Autopsy Screen Shot at `/home/ironcaesar/.bash_history/`

```
51 python Hide_Spectrogram_Tool_v2.7.9.py ../evaSecrets/Secret.png -h
52 sudo apt install audacity
53 mv ./Output/sporting_anthem.wav ./Output/sporting_anthem
54 sudo apt-get install secure-delete
55 srm ./Output/my-fav-song.wav
56 cp -r ../video ./video
57 bash LSB_Video_Tool_v7.8.1.sh ../evaSecrets/tunnel.jpeg
58 cp ../evaSecrets/video.mp4 ./video.mp4
59 bash Video_Header_Tool_v1.0.7.sh
```

Image 04: `.bash_history` content

2. Steganography tool

Whether through the `.bash_history` log or by directly verifying its existence as a folder in `/home/ironcaesar/Documents/Steg_Tools_v5.7.0_By_Lapsus$` that steganography tools were used to hide images and other documents in the midst of several files.

CSF			2023-09-27 10:03:31 WEST	2023-09-27 10:03:31 WEST	2023-09-30 12:07:33 WEST	2023-09-27 10:03:31 WEST	4096	All
League of Legends			2023-09-27 10:03:32 WEST	2023-09-27 10:03:32 WEST	2023-09-30 12:07:33 WEST	2023-09-27 10:03:32 WEST	4096	All
Recipes			2023-09-27 10:03:33 WEST	2023-09-27 10:03:33 WEST	2023-09-30 12:07:33 WEST	2023-09-27 10:03:32 WEST	4096	All
SteelMemes			2023-09-27 10:03:33 WEST	2023-09-27 10:03:33 WEST	2023-09-30 12:07:33 WEST	2023-09-27 10:03:33 WEST	4096	All
Steg_Tools_v5.7.0_By_Lapsus\$			2023-09-30 21:03:20 WEST	2023-09-30 21:03:20 WEST	2023-09-30 13:14:44 WEST	2023-09-30 12:44:44 WEST	4096	All
video			2023-09-27 10:03:33 WEST	2023-09-27 10:03:33 WEST	2023-09-30 12:07:33 WEST	2023-09-27 10:03:33 WEST	4096	All
1269895.jpg	0		2023-09-27 10:03:30 WEST	2023-09-27 10:03:30 WEST	2023-09-27 10:03:30 WEST	2023-09-27 10:03:30 WEST	3806922	All
1553726185628.webm	0		2023-09-27 10:03:31 WEST	2023-09-27 10:03:31 WEST	2023-09-27 10:03:31 WEST	2023-09-27 10:03:31 WEST	1611760	All

Image 05: Autopsy Screen Shot at `/home/ironcaesar/Documents/`

```

17 cd ~/Downloads
18 ls
19 unzip Steg_Tools_v5.7.0_By_Lapsus\$.zip
20 mv ./Steg_Tools_v5.7.0_By_Lapsus\$ ~/Documents/
21 rm Steg_Tools_v5.7.0_By_Lapsus\$.zip
22 cd ~/Documents
23 cd Steg*
24 cat README.md

```

Image 06: `.bash_history` content

3. Search for methods to securely delete files

Analyzing the Firefox browser history we found out that César Silva was searching for methods to securely delete files, he did google searches for:

- secure delete is too slow - alternatives to secure delete
- remove files on ubuntu
- safely remove files on ubuntu

places.sqlite	1	https://www.bettit363.com/pt/casino/?partner=p4706... 2023-09-30 12:44:08 WEST https://bit-pt.hopghpfa.com/pt/casino/?partner=p470... Bettit	secure delete is too slow - alternatives to secure delete..	Firefox Analyzer	bettit363.com	caesarDisk
places.sqlite	1	https://www.google.com/search?channel=fs&client=u... 2023-09-30 13:03:26 WEST		Firefox Analyzer	google.com	caesarDisk
places.sqlite	1	https://www.google.com/u?sa=t&ct=j&q=&srcs=0c 2023-09-30 13:03:29 WEST https://www.google.com/search?channel=fs&client=u...		Firefox Analyzer	google.com	caesarDisk
places.sqlite	1	https://recovert.wondershare.com/computer-tips/sec... 2023-09-30 13:03:30 WEST https://www.google.com/u?sa=t&ct=j&q=&srcs=0c. 3 Easy Methods to Securely Delete Files in Linux		Firefox Analyzer	wondershare.com	caesarDisk
places.sqlite	1	https://www.google.com/search?channel=fs&client=u... 2023-09-30 13:03:53 WEST	remove files on ubuntu - Google Search	Firefox Analyzer	google.com	caesarDisk
places.sqlite	1	https://www.google.com/search?q=safely+remove+fil... 2023-09-30 13:04:04 WEST https://www.google.com/search?channel=fs&client=u... safely remove files on ubuntu - Google Search		Firefox Analyzer	google.com	caesarDisk

Image 07: Firefox browser history

4. What new discoveries can you report that clarify the plot or identify other relevant actors?

Below is a list of the X new discoveries we made:

1. Petition for Resignation of Ms. Eva Rocha



Image 08: Petition for Resignation of Ms. Eva Rocha

From this we learned that César has a history of adversity towards teacher Eva Rocha, having tried to get her dismissed from teaching at *IST* previous to these recent events regarding the USB.

2. Two emails

We found two emails that potentially clarify the beginning of this plot.

The first was an email from a mystery source to our suspect César Silva Ferro with some sensitive information regarding the case of the underground tunnel at *Arco do Cego*. In this email, the mysterious character mentions that he/she hid a pen that held the secrets we found in the USB flash drive in the first assignment and that we mentioned in the 1º question of the report (said pen is a *KINGSTON* model):

```
Received: from VIIP193MB0621.EURP193.PROD.OUTLOOK.COM
( [fe80::e887:e8c:680c:b600] ) by VIIP193MB0621.EURP193.PROD.OUTLOOK.COM
( [fe80::e887:e8c:680c:b600%4] ) with mapi id 15.20.6838.024; Sat, 30 Sep 2023
11:06:23 +0000
From: Shady Friend <shadyman217@outlook.com>
To: "cesarsilvaferro@gmail.com" <cesarsilvaferro@gmail.com>
Subject: Spicy Intel
Thread-Topic: Spicy Intel
Thread-Index: AOHZ844dS9xHzXoUEEy1vqpmqml7hA==
Date: Sat, 30 Sep 2023 11:06:23 +0000

Listen up,

There's some serious dirt on Eva Rocha, and I've got the inside track. It's=
the kind of stuff that could set off fireworks.

Word is you're the force behind that online petition targeting Eva, and I've=
e dug up some damning evidence that could send her on a wild ride. I think =
you will find this interesting :)

Eva Rocha was part of the team in charge of building the Arco do Cego. But=
here's the twist: She allegedly took under-the-table payments to keep a l=
id on the construction of a super-secret tunnel. And what's that tunnel for=
, you ask? Well, it's all about sneaking into the Casa da Moeda to print s=
ome sneaky cash on the side.

Here's the lowdown: I've hidden a pendrive at:

LockerLocky CTT IST Lisboa

Address: Av. Rovisco Pais 1

Postal code: 1000-267,

in locker 06 with access code 155. Inside, you'll find all the ammunition t=
o expose Eva. Grab it when the stars align, and let the games begin.

Stay sharp,

YourShadyFriend
```

Image 09: /img_caesarDisk.img/vol_volt6/home/ironcaesar/.thunderbird/gjht15t3.default-release/Mail/pop.gmail.com/Inbox

The other was an email from César to a suspected friend “Cat” sharing the receipt of the aforementioned email and advising her to proceed communicating more anonymously via IRC:

```
Date: Sat, 30 Sep 2023 12:25:28 +0100
MIME-Version: 1.0
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101
Thunderbird/102.15.1
Content-Language: en-US
To: catarina.f.silva@outlook.com
From: Cesar Ferro <cesarsilvaferro@gmail.com>
Subject: Urgent: Need Your Help ASAP

This is a multi-part message in MIME format.
-----MOFk0T7M20zulxHbrtKnGFw0
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit

Hey Cat,

I've got some crazy news about my arch-nemesis, Teacher Eva Rocha and I
need your help to figure it out.

So, I got this email from some mystery sender (no idea who they are),
claiming they've got a pendrive loaded with stuff to take down Eva. You
know how much I can't stand her, right? Anyway, at first, I thought it
might be some light ammo for my petition. But when I started digging
into it, I was floored. It's got some seriously incriminating evidence
against Eva Rocha.

But here's where it gets nutty. While watching a video, I spotted
someone I recognize, someone close to you... I can't quite wrap my head
around how they fit into all this craziness, but it's freaking me out.

I think we need to talk about this ASAP. I have a hunch this could be
some CIA type of stuff, so its better we talk over IRC. Here are the
details:

Server: irc.freenode.net

IRC Channel: #thebasement

Please, please join me ASAP. This is crucial, and I need your input on
how to handle this situation. I'll explain more when we chat. It's like
something out of a movie, and I can't believe what I've found.

Stay safe,Cesar S. Ferro
```

Image 10: /img_caesarDisk.img/vol_vol6/home/ironcaesar/.thunderbird/gjht15t3.default-release/Mail/pop.gmail.com/Sent

So now we know that the information reached César through a “mystery character” and that he has a possible accomplice called Catarina Silva.

3. IRC logs

We discovered the logs of the IRC conversation between César and Catarina Silva.

Here we found out that the man speaking in the video discovered in the USB hidden within the *report.docx* was none other than Catarina's father, Fernando Silva. Moreover, we come to learn about his bad history with his daughter, as well as the confirmation of his involvement in the construction of the secret tunnel and consequential association with Eva Rocha.

```
-- Log opened Sat Sep 30 12:26:26 2023
12:26 -!- ironcaesar [~ironcaesa@freenode-3js.gbm.mr2pac.IP] has joined #thebasement
12:26 -!- Irsil: #thebasement: Total of 2 nicks [1 ops, 0 halfops, 0 voices, 1 normal]
12:26 -!- Irsil: Join to #thebasement was synced in 0 secs
12:29 -!- CatSil [-kali@freenode-3js.gbm.mr2pac.IP] has joined #thebasement
12:29 < ironcaesar> Hey Cat, is that you?
12:29 < CatSil> Hey Cesar, yeah, I'm here. What's going on?
12:30 < ironcaesar> You won't believe what I found out about that pendrive.
12:30 < CatSil> I got curious when you said there could be someone related to me in that pendrive...
12:30 < ironcaesar> So, as I was going through the files, I found evidence of plans and blueprints of a tunnel under Arco do Cego. That's where you are interning right?
12:31 < CatSil> It is...
12:32 < ironcaesar> This is where it gets weird. There was this video of a guy named Fernando Silva also talking about the tunnel. That's when it hit me - It's your father
12:32 < CatSil> WTF it can't be...
12:32 < ironcaesar> it gets even weirder. Eva is involved too
12:33 < CatSil> So, you're saying my dad is involved in a project of a secret tunnel beneath Arco do Cego with the IST teacher Eva Rocha?
12:33 < ironcaesar> Yeah
12:33 < ironcaesar> I also got evidence of some weird company transferring loads of money to her. This is some serious shit. She could be incriminated for this!
12:34 < ironcaesar> I always knew there was something shady about her
12:35 < CatSil> I'm just processing this.. I haven't talked to my dad for long, and he does have a troubled history.. but going from that to some secret tunnel project? That's madness
12:35 < ironcaesar> that could ruin my family's name
12:35 < ironcaesar> I know.. but he never liked you.. he never helped you paying for the Uni remember? you had to work for yourself on that.. Maybe this could bring some justice.
12:35 < ironcaesar> I mean, i could get rid of Eva, you could get rid of your dad.
12:36 < CatSil> How can you say that? I won't help you incriminating my own dad!
12:36 < ironcaesar> He seems to have gotten himself into this mess.. As he always has. You have nothing to do with this.
12:37 < ironcaesar> I will make this go public. Eva needs to go. And I'm sorry that your dad is involved too. But I think its for the best of both our sakes.
12:37 < ironcaesar> Otherwise, i fear we might be dragged into it...
12:37 < CatSil> Jesus.. so you will really put this on the big screens?
12:38 < ironcaesar> This is now more than my hate for Eva.. This is about a possible schema using the tunnel to get into Casa da Moeda.. I think we must put this into the public!
12:38 < CatSil> I mean, it's a hard choice for me..
12:39 < CatSil> but if you really think it's the way to go, Cesar, I'll go along with it.
12:39 < CatSil> I'm just not entirely sure about this because, you know, it's my dad we're talking about.
12:39 < ironcaesar> But maybe it's time he faces the consequences. Let's hope this pans out right.
12:39 < ironcaesar> I hope so
12:40 < ironcaesar> Igtn now
12:40 < ironcaesar> Stay safe Cat
12:40 < CatSil> You too, cya
12:40 -!- CatSil [-kali@freenode-3js.gbm.mr2pac.IP] has quit [Quit: leaving]
-- Log closed Sat Sep 30 12:40:29 2023
```

Image 11: Log of the conversation between César and Catarina via IRC

In conclusion, after these new discoveries, in addition to the already known César Silva and Eva Rocha, we added 2 more names to the list of those involved in this case, namely Catarina Silva (friend and accomplice in César's investigation) and Fernando Silva (present in the video, Catarina's father). We know of the existence of a fifth case element, but we are still unable to identify its identity. This is the person who handed over the evidence to César Silva.

The new discoveries indicate that César Silva's intention is to bring to the public the evidence that incriminates Eva Rocha and Fernando Silva, which were handed over to him.

Anex

	File	SHA-256 Value
1	#thebasement.09-30.log	1769807e7868933f8c4479f68780792d4bf5f6edcdc1da5175e17a70bcc5f9e4
2	Append_Tool_v2.1.py	17f14c05c1038dc1ce50ccfd977159f5baa67ea9dfb2527ae5c5770330c61510
3	Hide_Chunk_Tool_v5.2.8.sh	8e147fc6d906c405548d2573260b47d5252f5d43add8284e3d11588d4c3ba5f
4	Hide_Spectrogram_Tool_v2.7.9.py	1cf4f061e54475e2b637b9a52aa1501bech753d9a7857c37c1f4ca51652ba5ae
5	Inbox	e47dade67812950049f87ac5d53909c2b1b512a55efe69401b45c5d15bcc1679
6	KQRbv8Zj1Ba.log.log	122c7819ff8e168884ce36d495bce8bd934bab7b88b1c11cc9a1d4d48f27c98f
7	LSB_Selective_Tool_v10.15.3.py	04e379bcc7ff3c7582565de4baf3b1d36b0a8007dcf973a0f4b70e3cde7895a3
8	LSB_Video_Tool_v7.8.1.sh	c0f3af37ffab87f7db15c3eadf912b2b5a1dadaf66a416caa7a4ddb11f210747
9	Sent	b8e45c1c272fe4f57ed1eaa898d290f03ea73d8f1f36b5bc569df59528a4294d
10	Video_Header_Tool_v1.0.7.sh	e10241798b58e48f37d195017b81378d7e4a2908905447c7efba73dd5d4f3432
11	Zip_Encode_Tool_v8.2.1.sh	00df00bc638e3f449fec584a40bf2704ed58ee263cb65342be8bb6699a17ac
12	bash_history	a8d795ae7ecc4f0d1647ac9a00e05ca3e350ae0b5ca0bff42e95fb18c4aed42e
13	history.csv	bc6165222813cac783674271c87b317990fa8f271ed15fa5e10deb94d988af54
14	obfuscator.py	75bb7b922bff4687425888b6a880e73ef5dce5e449a93f0a1f3952c68c5bbaf9
15	petition_.pdf	4aa4aef66f05c53792fdb04c6f4fe6507923fe2a4fea30cedd440796f465d111
16	syslog.1	e8b9bc028f0b3d64fd27905bf04a9032cafcb52dd79a9bcceec4c7090a76c8b1