

1 Introduction

In this document the installation of the signal bot for eToro is shown. The installation itself is not difficult. However, you need some information from other sources. This is described in the later chapters.

If you like my bot and it generates profit to you, please consider to support my efforts.

2 Installing the signal bot

Create a directory where you like to install the bot (in figure 1 the path is ~/bin/botlinuskoh)

```
$ mkdir -p /PATH/TO/YOUR/BOT
```

Change to that specific directory

```
$ cd /PATH/TO/YOUR/BOT
```

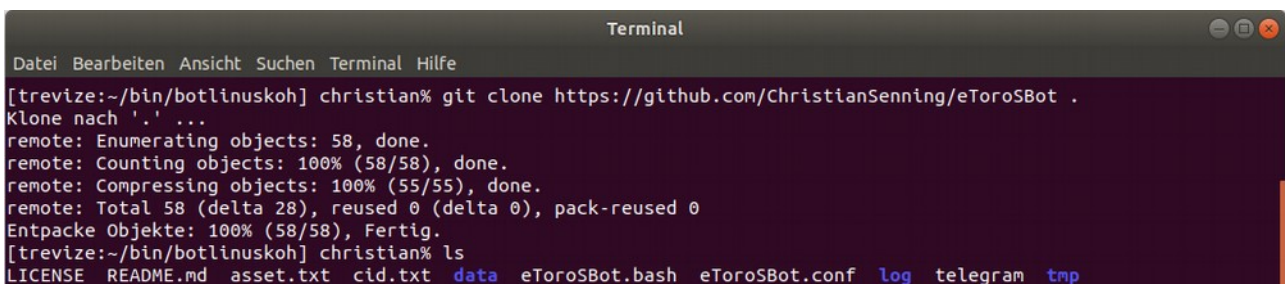
Get the code from github.com (alternatively you can also just download all files from the website of github):

```
$ git clone https://github.com/ChristianSenning/eToroSBot .
```

Check that the files have been correctly been downloaded

```
$ ls
```

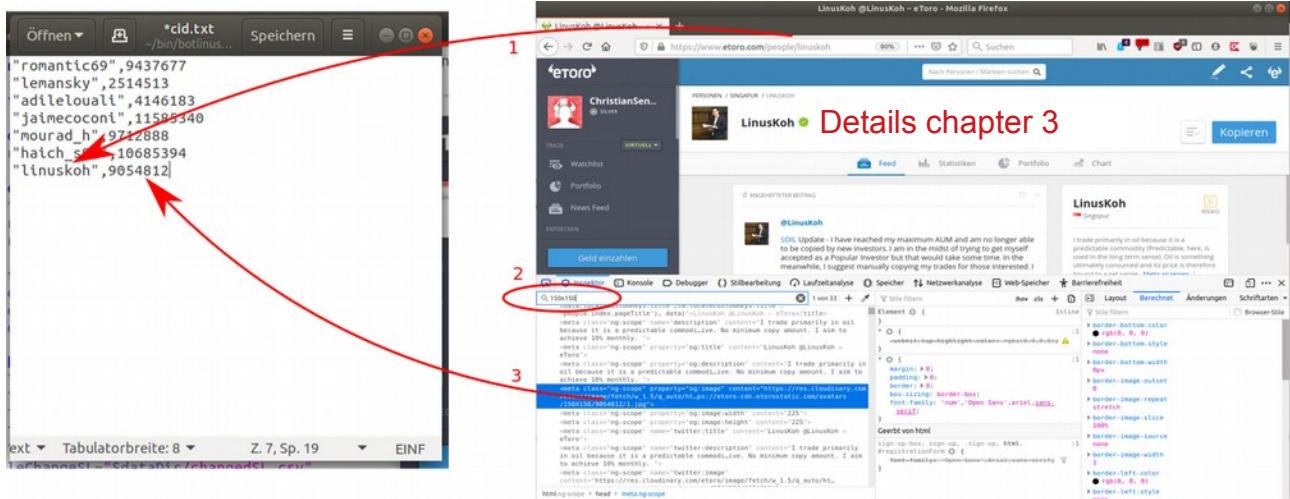
Here an illustration of the last two steps:

A screenshot of a terminal window titled "Terminal". The terminal shows the execution of two commands. First, the user runs "git clone https://github.com/ChristianSenning/eToroSBot .", which successfully clones the repository. The output shows progress for enumerating, counting, and compressing objects, and packing them. Second, the user runs "ls", which lists the files in the current directory: LICENSE, README.md, asset.txt, cid.txt, data, eToroSBot.bash, eToroSBot.conf, log, telegram, and tmp. The terminal has a dark background with light-colored text.

```
Terminal
Datei Bearbeiten Ansicht Suchen Terminal Hilfe
[trevize:~/bin/botlinuskoh] christian% git clone https://github.com/ChristianSenning/eToroSBot .
Klone nach '.' ...
remote: Enumerating objects: 58, done.
remote: Counting objects: 100% (58/58), done.
remote: Compressing objects: 100% (55/55), done.
remote: Total 58 (delta 28), reused 0 (delta 0), pack-reused 0
Entpacke Objekte: 100% (58/58), Fertig.
[trevize:~/bin/botlinuskoh] christian% ls
LICENSE  README.md  asset.txt  cid.txt  data  eToroSBot.bash  eToroSBot.conf  log  telegram  tmp
```

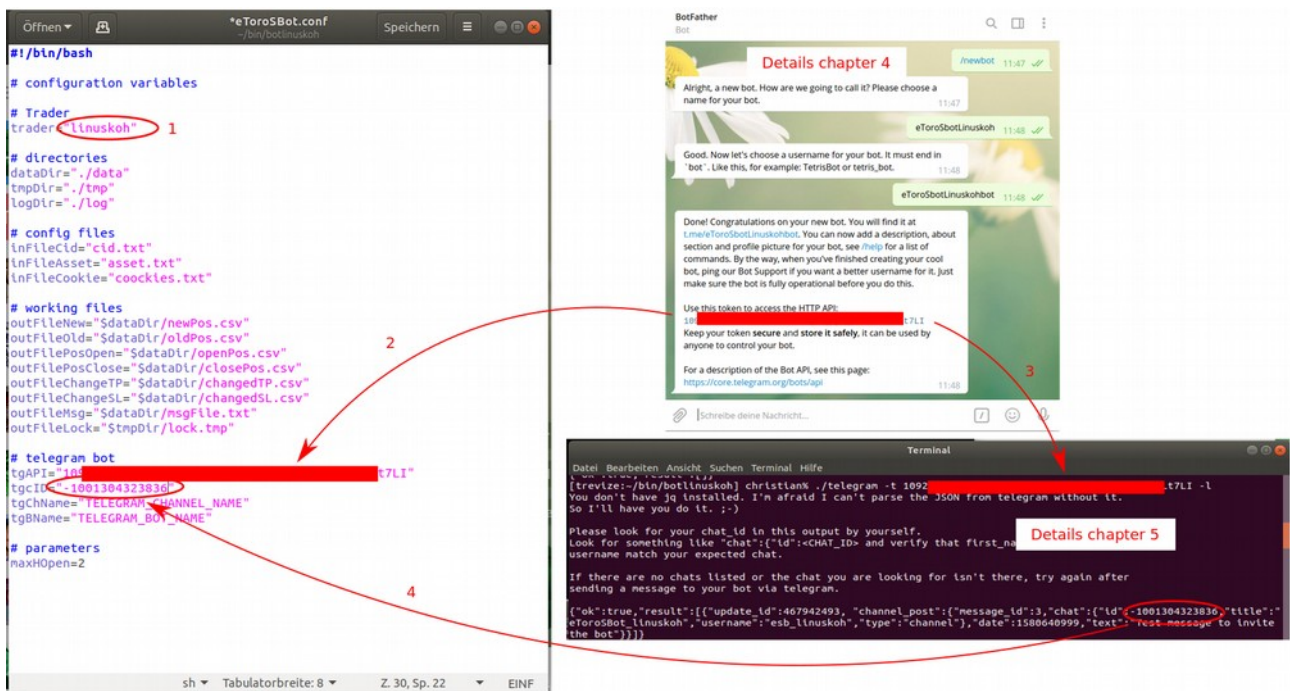
Update the file cid.txt if necessary (how to get the CID is in chapter 3 described)

```
$ gedit cid.txt
```



Update the file eToroSBot.conf (how to get the information about the telegram bot is described in chapter 4 and 5)

```
$ gedit eToroSBot.conf
```



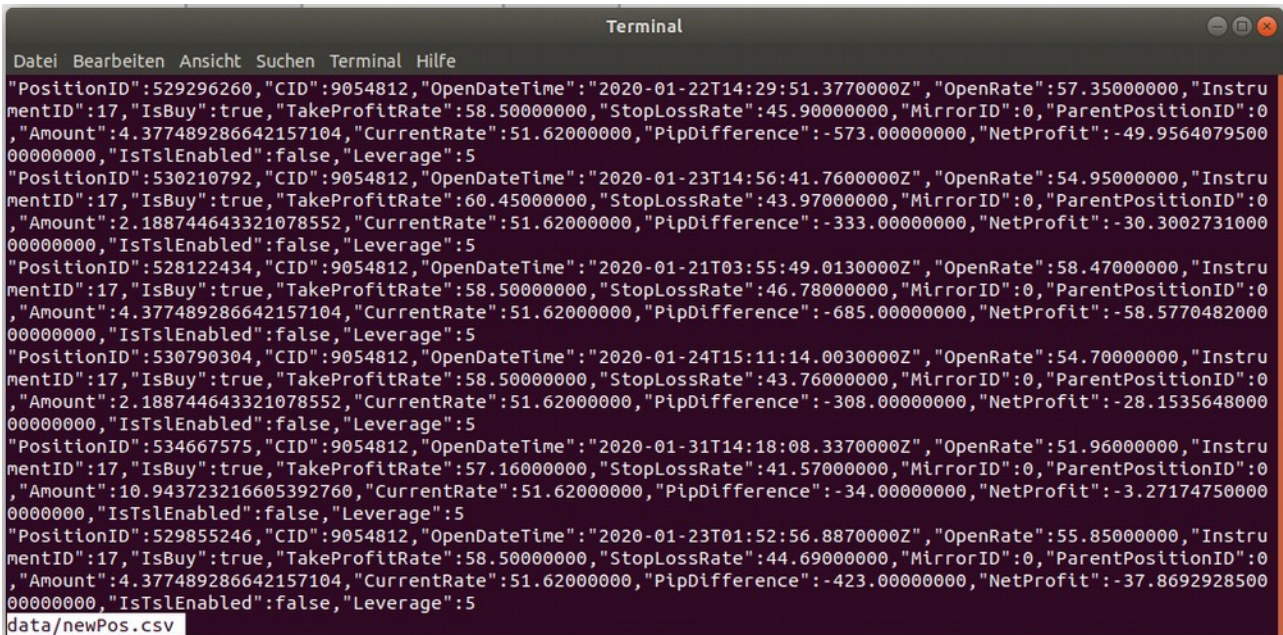
If like to the bot more often than every hour, than you need a cookie file. This can be achieved on multiple ways. Here is the process shown with Firefox and the add-on “cookies.txt” from Lennon Hill (details about the add-on in chapter 6).

To that end click on the add-on in the taskbar of the browser (1). Than save the cookie at the location that of your bot (2).

If you repeat the command above, there should be no output at all. You can check the identified positions of the trader, when you read the file "data/newpos.csv". This step is not required, but may help if you like to understand operation of the bot.

```
$ less data/newPos.csv
```

The output will be something like the following:



```
Terminal
Datei Bearbeiten Ansicht Suchen Terminal Hilfe
["PositionID":529296260,"CID":9054812,"OpenDateTime":"2020-01-22T14:29:51.3770000Z","OpenRate":57.35000000,"InstrumentID":17,"IsBuy":true,"TakeProfitRate":58.50000000,"StopLossRate":45.90000000,"MirrorID":0,"ParentPositionID":0,"Amount":4.377489286642157104,"CurrentRate":51.62000000,"PipDifference":-573.00000000,"NetProfit":-49.956407950000000000,"IsTslEnabled":false,"Leverage":5
"PositionID":530210792,"CID":9054812,"OpenDateTime":"2020-01-23T14:56:41.7600000Z","OpenRate":54.95000000,"InstrumentID":17,"IsBuy":true,"TakeProfitRate":60.45000000,"StopLossRate":43.97000000,"MirrorID":0,"ParentPositionID":0,"Amount":2.188744643321078552,"CurrentRate":51.62000000,"PipDifference":-333.00000000,"NetProfit":-30.300273100000000000,"IsTslEnabled":false,"Leverage":5
"PositionID":528122434,"CID":9054812,"OpenDateTime":"2020-01-21T03:55:49.0130000Z","OpenRate":58.47000000,"InstrumentID":17,"IsBuy":true,"TakeProfitRate":58.50000000,"StopLossRate":46.78000000,"MirrorID":0,"ParentPositionID":0,"Amount":4.377489286642157104,"CurrentRate":51.62000000,"PipDifference":-685.00000000,"NetProfit":-58.577048200000000000,"IsTslEnabled":false,"Leverage":5
"PositionID":530790304,"CID":9054812,"OpenDateTime":"2020-01-24T15:11:14.0030000Z","OpenRate":54.70000000,"InstrumentID":17,"IsBuy":true,"TakeProfitRate":58.50000000,"StopLossRate":43.76000000,"MirrorID":0,"ParentPositionID":0,"Amount":2.188744643321078552,"CurrentRate":51.62000000,"PipDifference":-308.00000000,"NetProfit":-28.153564800000000000,"IsTslEnabled":false,"Leverage":5
"PositionID":534667575,"CID":9054812,"OpenDateTime":"2020-01-31T14:18:08.3370000Z","OpenRate":51.96000000,"InstrumentID":17,"IsBuy":true,"TakeProfitRate":57.16000000,"StopLossRate":41.57000000,"MirrorID":0,"ParentPositionID":0,"Amount":10.943723216605392760,"CurrentRate":51.62000000,"PipDifference":-34.00000000,"NetProfit":-3.271747500000000000,"IsTslEnabled":false,"Leverage":5
"PositionID":529855246,"CID":9054812,"OpenDateTime":"2020-01-23T01:52:56.8870000Z","OpenRate":55.85000000,"InstrumentID":17,"IsBuy":true,"TakeProfitRate":58.50000000,"StopLossRate":44.69000000,"MirrorID":0,"ParentPositionID":0,"Amount":4.377489286642157104,"CurrentRate":51.62000000,"PipDifference":-423.00000000,"NetProfit":-37.869292850000000000,"IsTslEnabled":false,"Leverage":5]
data/newPos.csv
```

If you like the bot being executed all few minutes, I recommend the use of cron (However, you can use whatever you like). To set up a cron job do the following steps:

```
$ crontab -e
```

Then add a line at the end of the file with the following content:

```
$ 2-59/10 * * * * /PATH/eToroSbot.bash
```

This would execute the bot from the second minute of the hour until the last minute of the hour every 10 minutes. Of course you have to adjust the "/PATH" to the location you used at the beginning of this chapter. If you plan to run multiple bots, you may start from different minutes. Hence, one starting at the first minute, one at the second and so on...

If you like to check if you installed the cron job correctly, then you can use the following command:

```
$ crontab -l
```

Finally it would be nice if you inform others about your bot. One possibility is to update the file README.md on github or to inform other traders one of the trading telegram groups.

4. awk
5. sed

Installation / configuration

1. Install all dependencies
2. Grab the latest `eToroSBot` from this repository and put it somewhere
3. Generate a cookie file used within the script by curl
4. Set up a telegram bot according to the description on: <https://github.com/fabianonline/telegram.sh/blob/master/README.md>
5. Configure `eToroSBot.conf` to your needs. At least replace all ALLCAPWORDS with your own data
6. Run the bot automatically. If you run the bot too often, eToro will ban your requests. Personally I run it every 10 minutes. For that purpose I use cron.

Code state

Personally I would call this code early beta state. The code is for educational purposes only and has not been intensively tested. Use it on your own risk.

If you just like to see the bot in action you can follow some of my bots:

- * romantic69: https://t.me/esb_romantic69
- * adilelouali: https://t.me/esb_adilelouali
- * haich_s90: https://t.me/esb_haich_s90
- * OliverDanvel: https://t.me/esb_OliverDanvel
- * Lemansky: https://t.me/esb_lemansky
- * Linuskoh: https://t.me/esb_linuskoh | Add your bots here

Also for these telegram bots I do not take any responsibility and it is for educational purposes only. The bots run on an old raspberry pi without proper server monitoring, UPS or similar, as it is just for my private purpose.

Licence

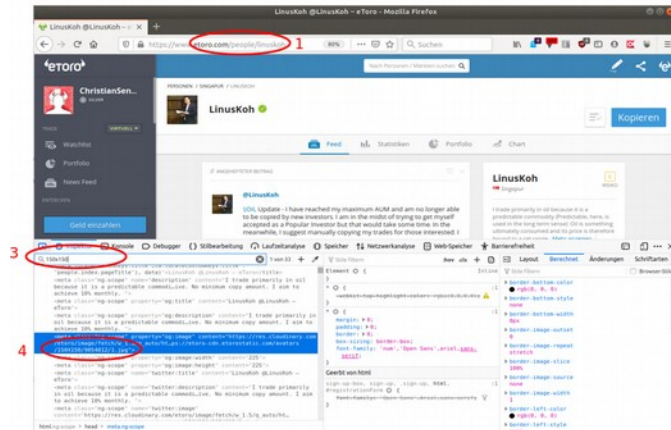
eToroSBot.bash is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at

3 Get the eToro CID of a trader

In the following illustration you see the required steps for two different browsers. Choose the one you have available.

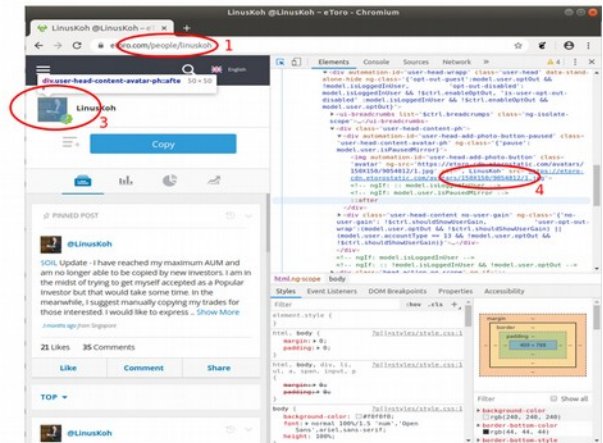
Firefox:

1. Open www.etoro.com/people/YOURTRADER
2. Press Ctrl-Shift-C
3. Search for 150x150
4. Copy the number after 150x150



Chrome / Chromium:

1. Open www.etoro.com/people/YOURTRADER
2. Press Ctrl-Shift-C
3. Mouse over the image of the trader
4. Copy the number after 150x150



4 Creating a telegram bot

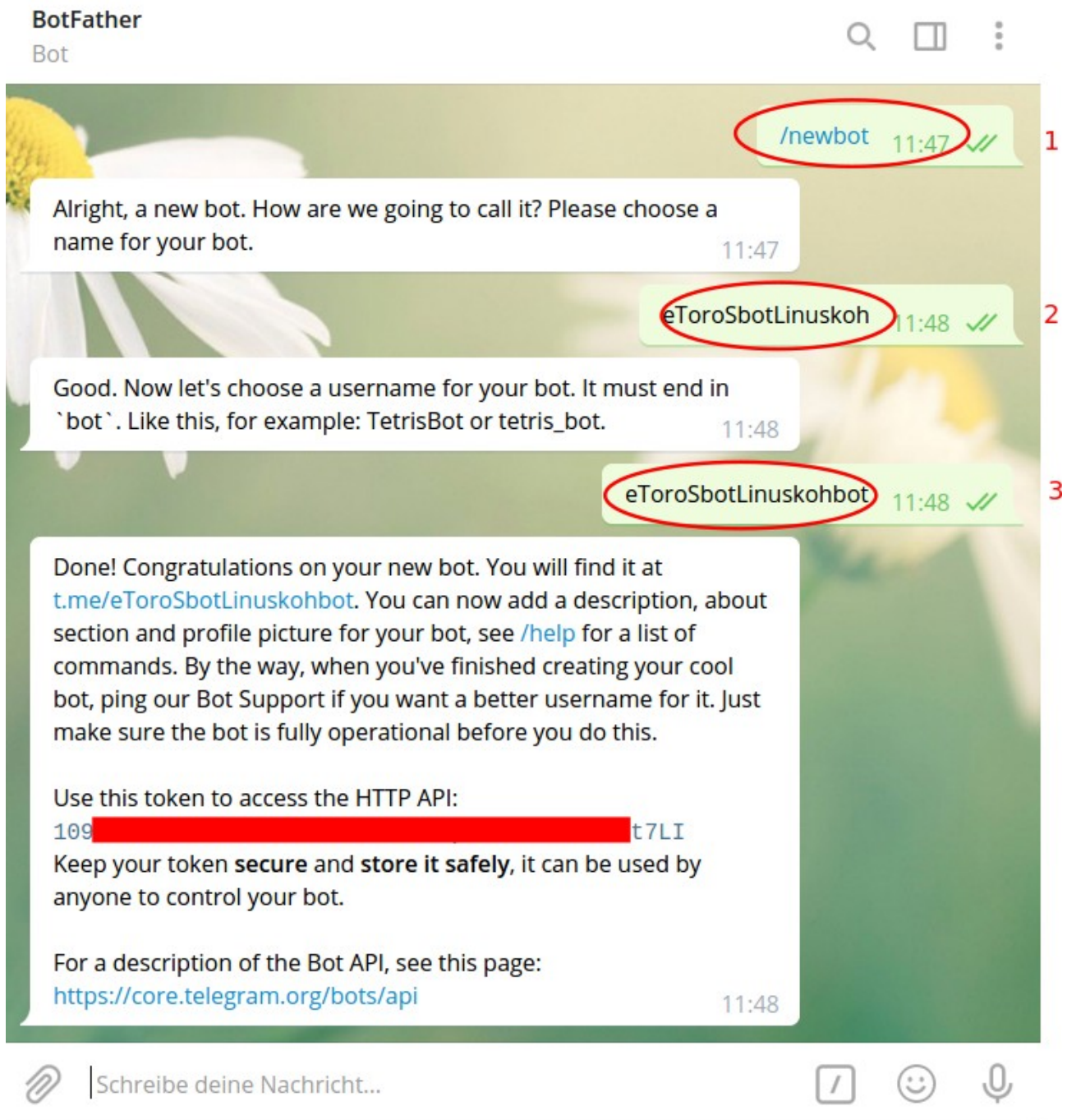
In order to create a telegram bot, you have to chat with the "BotFather".



He will inform you how to create a bot. You need tree steps:

1. /newbot
2. Some bot nick name
3. Some bot user name

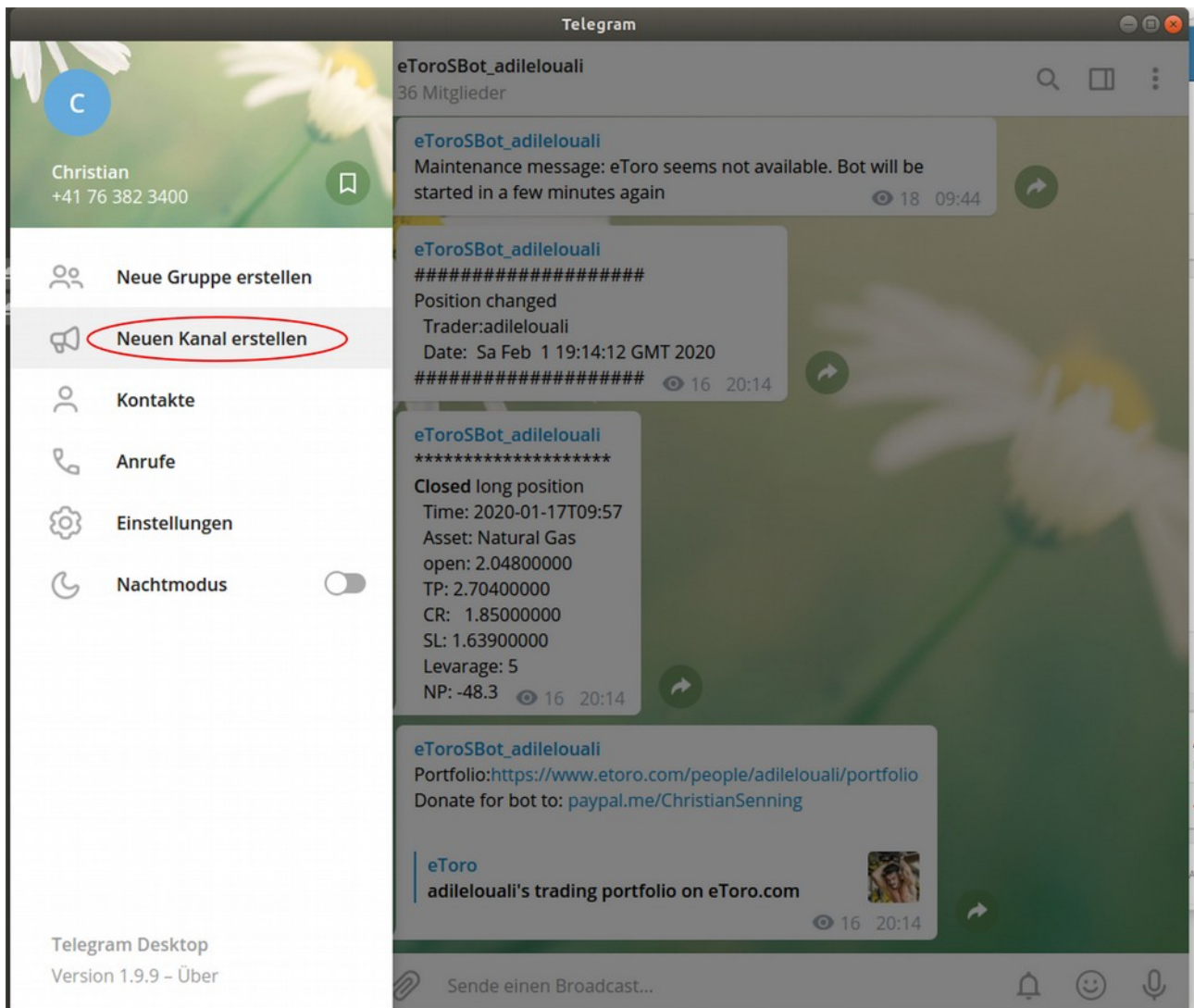
You will get back the HTTP API token, that is required for the telegram command line bot.



5 Creating a telegram channel with a telegram bot

When you have created a bot, you can create a telegram channel and add the bot to the channel as administrator.

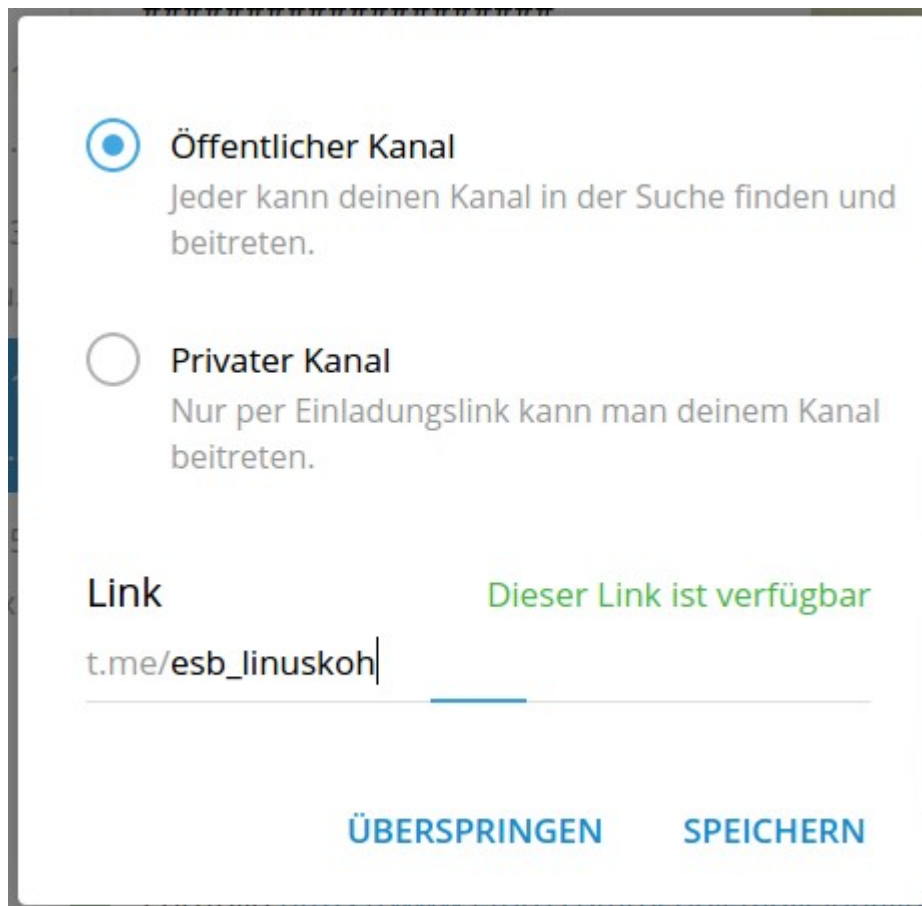
Create telegram channel:



Enter a channel name, a description and if you like a photo of the channel.

The image shows the Telegram channel creation form. It features a circular profile picture placeholder on the left. To its right, the 'Kanalname' field contains the text 'eToroSBot_linuskoh'. Below this, the 'Beschreibung (optional)' field contains the text 'Signal bot for linuskoh, educational purpose only'. At the bottom right, there are two buttons: 'ABBRECHEN' and 'ERSTELLEN'.

Set the channel to public and add a meaningful link to the channel. I personally use allways t.me/esb_Tradername (whereas esb stands for **E**toro **S**ignal **B**ot)



The screenshot shows the Telegram channel creation interface. At the top, there are two radio button options: 'Öffentlicher Kanal' (Public Channel) which is selected, and 'Privater Kanal' (Private Channel). Below these, there is a 'Link' section with a text input field containing 't.me/esb_linuskoh' and a green status message 'Dieser Link ist verfügbar'. At the bottom, there are two blue buttons: 'ÜBERSPRINGEN' (Skip) and 'SPEICHERN' (Save).

☒ **Öffentlicher Kanal**
Jeder kann deinen Kanal in der Suche finden und beitreten.

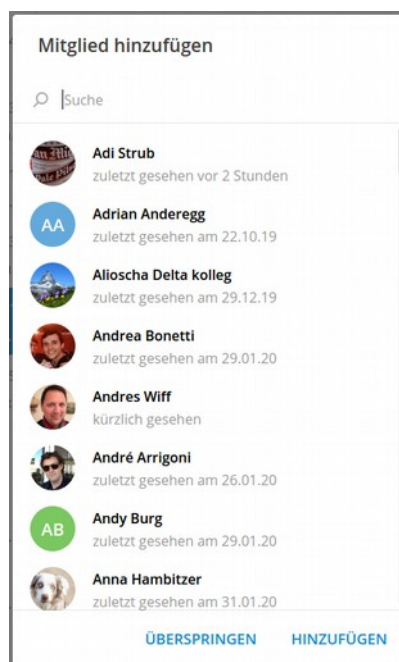
☐ **Privater Kanal**
Nur per Einladungslink kann man deinem Kanal beitreten.

Link Dieser Link ist verfügbar

t.me/esb_linuskoh

ÜBERSPRINGEN SPEICHERN

The following adding of members you can skip for now.



The screenshot shows the 'Mitglied hinzufügen' (Add Member) screen in Telegram. It features a search bar at the top with a magnifying glass icon and the text 'Suche'. Below the search bar is a list of suggested members, each with a profile picture, name, and last seen status. At the bottom, there are two blue buttons: 'ÜBERSPRINGEN' (Skip) and 'HINZUFÜGEN' (Add).

Mitglied hinzufügen

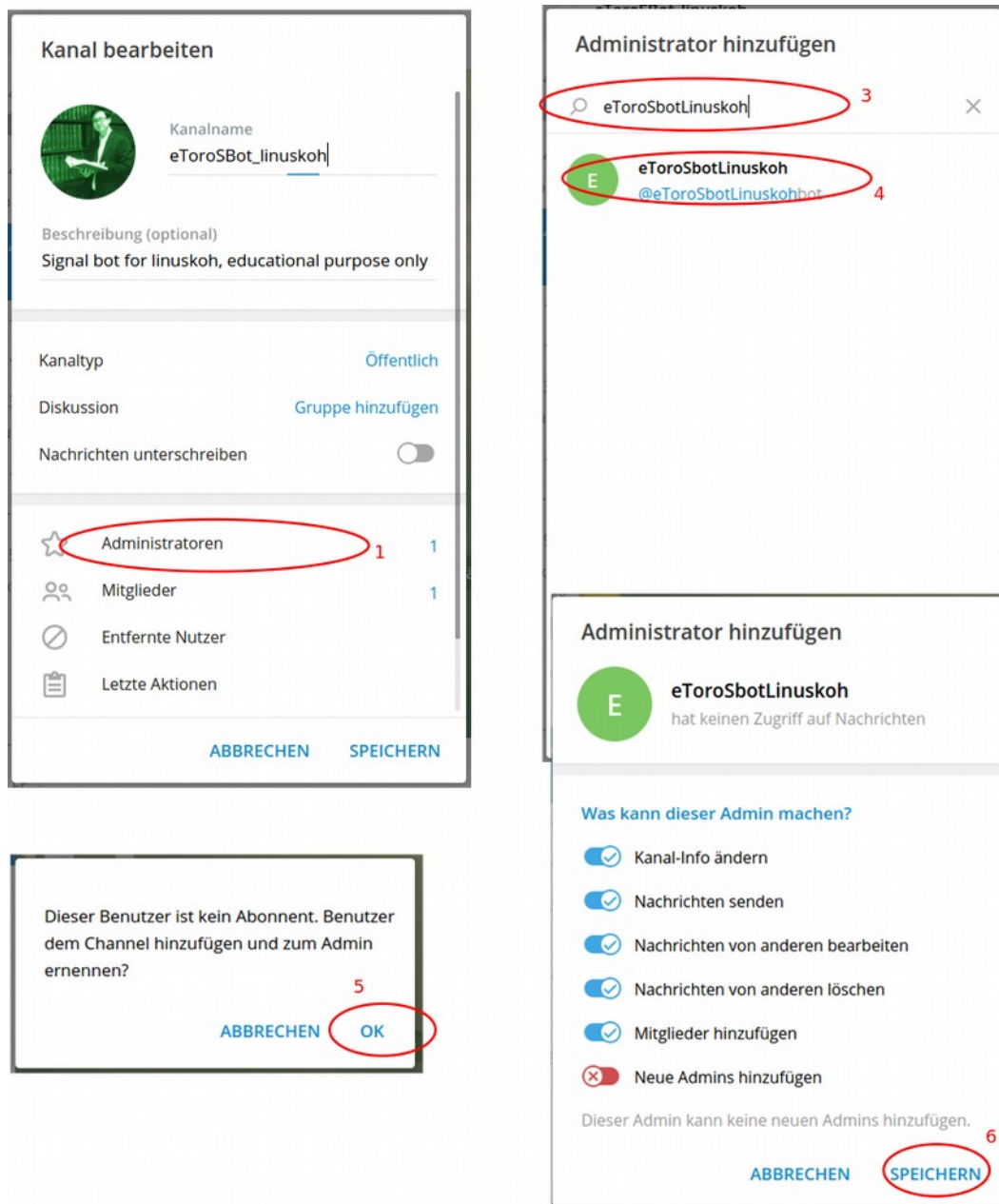
Suche

- Adi Strub
zuletzt gesehen vor 2 Stunden
- Adrian Anderegg
zuletzt gesehen am 22.10.19
- Aljoscha Delta kolleg
zuletzt gesehen am 29.12.19
- Andrea Bonetti
zuletzt gesehen am 29.01.20
- Andres Wiff
kürzlich gesehen
- André Arrigoni
zuletzt gesehen am 26.01.20
- Andy Burg
zuletzt gesehen am 29.01.20
- Anna Hambitzer
zuletzt gesehen am 31.01.20

ÜBERSPRINGEN HINZUFÜGEN

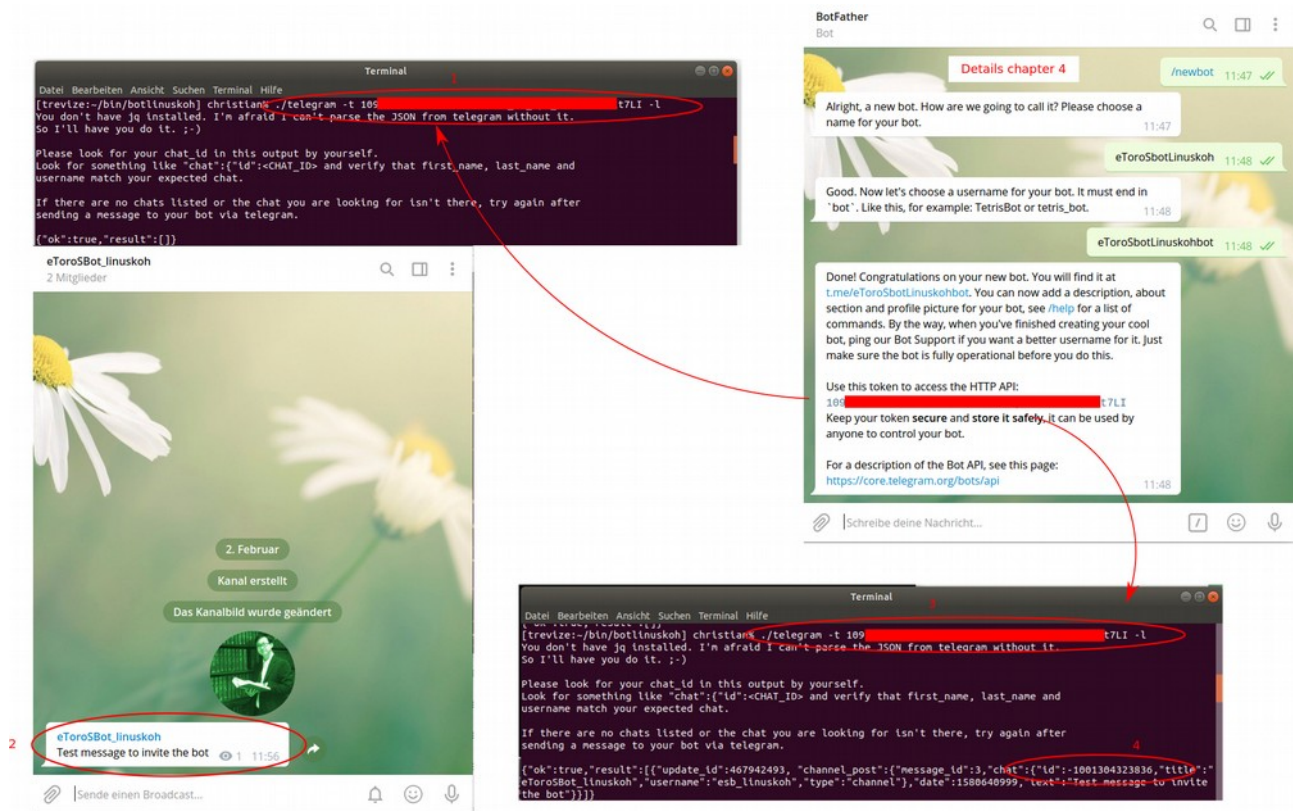
Now you have an empty channel without members (except yourself). We therefore will add the bot now as a administrator to the channel. To this end do the following steps:

1. Click on modify channel and then on administrators
2. Click on "add new administrators" (not in the picture below)
3. Search the created bot
4. Select the created bot
5. Accept to add the bot even if he is so far no member of the channel
6. Define the possible actions that the bot is allowed. As long as you do not give away your API token, the default should be fine. If you like to be secure, then select only the possibility to send messages.



The telegram bot is now member of the channel, but does not know the chat id. To get this chat id, the following steps are necessary.

1. Run the telegram bot once with the following command:
`$./telegram -t YOURTELEGRAMAPI -l`
2. Send a message in the channel
3. Run the telegram bot once again, with the same command:
`$./telegram -t YOURTELEGRAMAPI -l`
4. Search the chat ID in the response

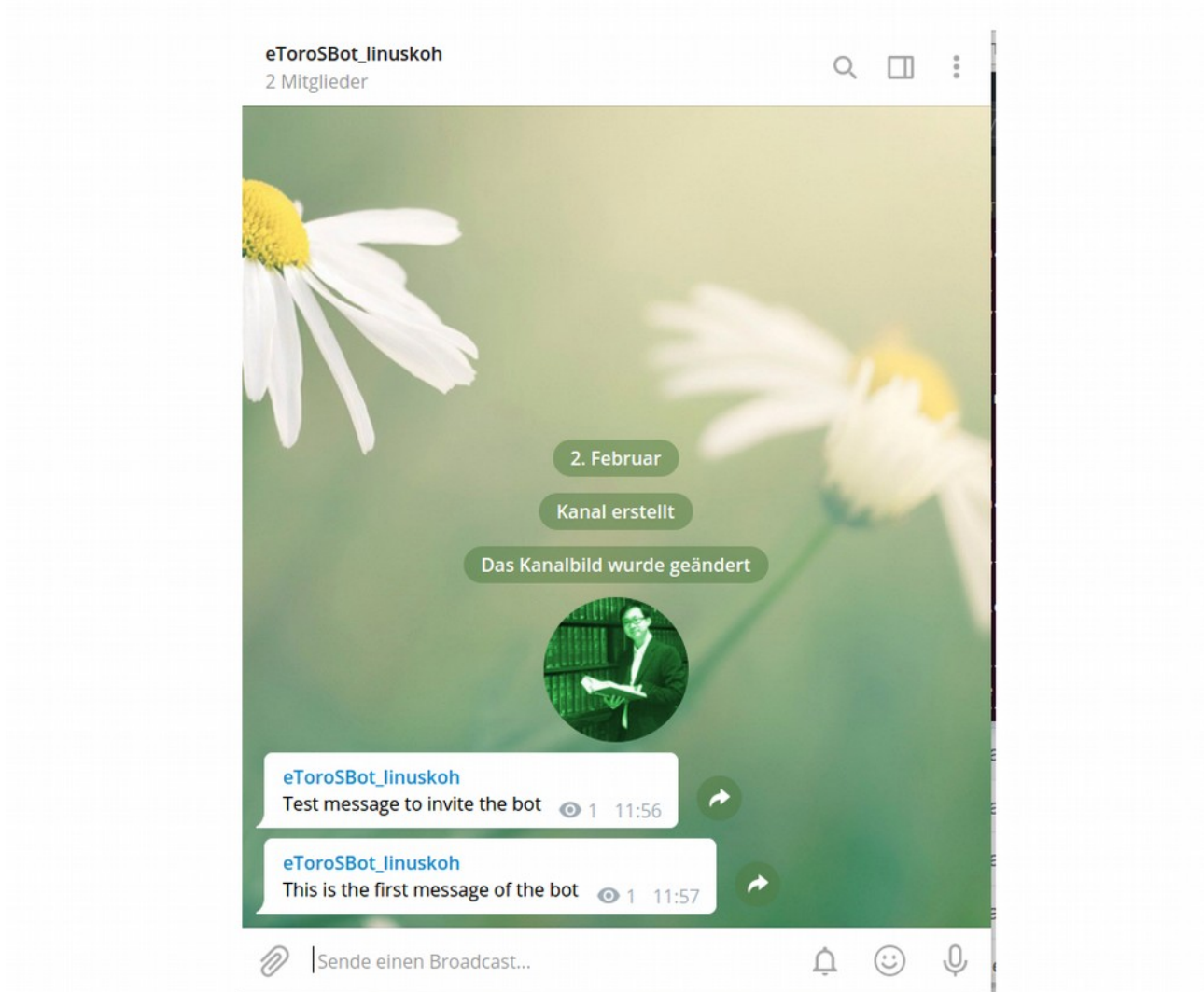


If you like to test the the telegram bot, you can use the following command:

```
$ ./telegram -t YOURTELEGRAMAPI -c YOURCHATID "Some message"
```

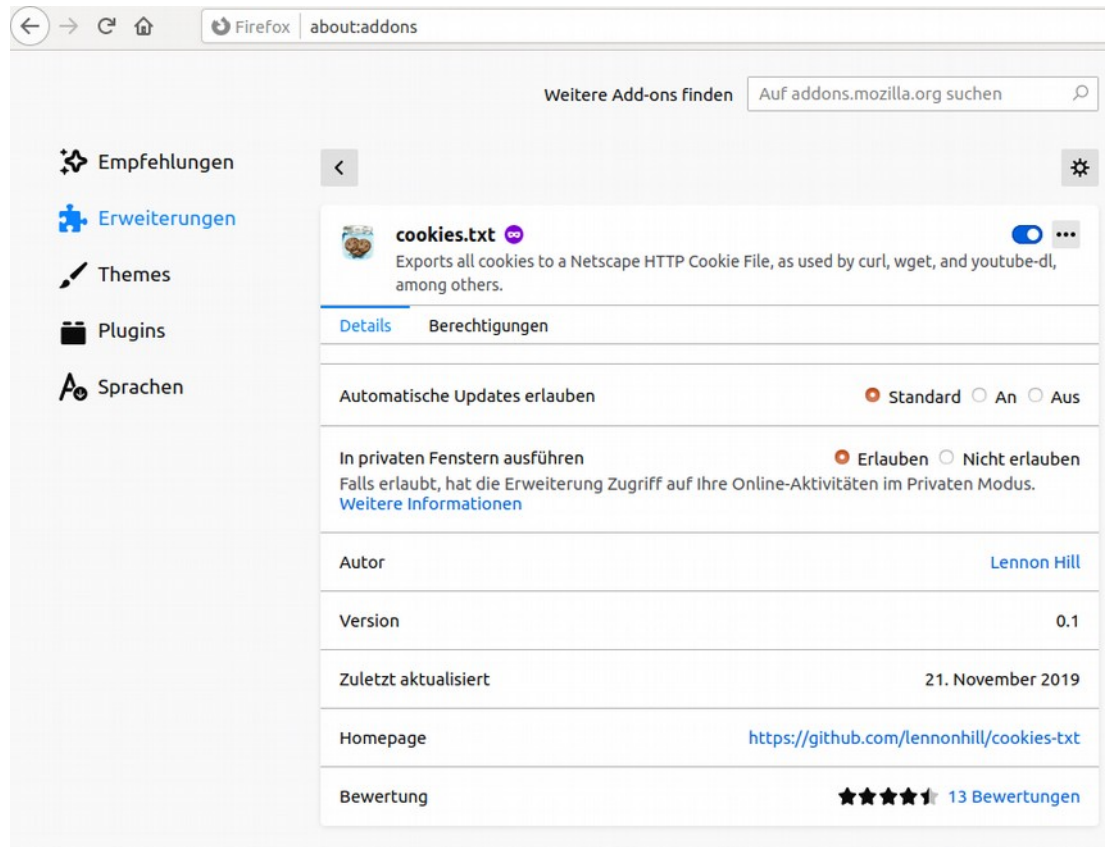


```
Terminal
Datei Bearbeiten Ansicht Suchen Terminal Hilfe
[trevize:~/bin/botlinuskoh] christian% ./telegram -t 109 [REDACTED] t7LI -c -100130432
3836 "This is the first message of the bot"
```



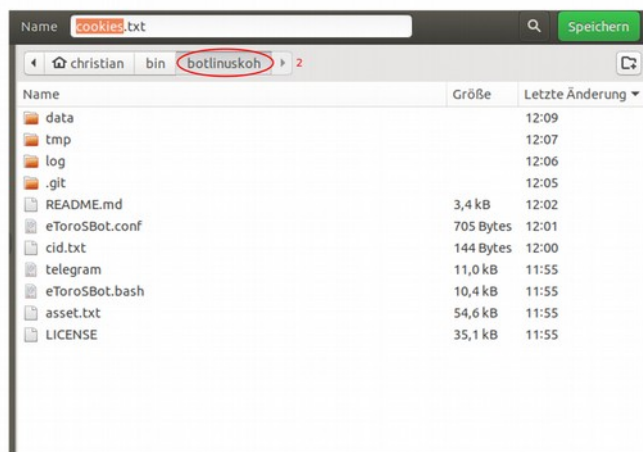
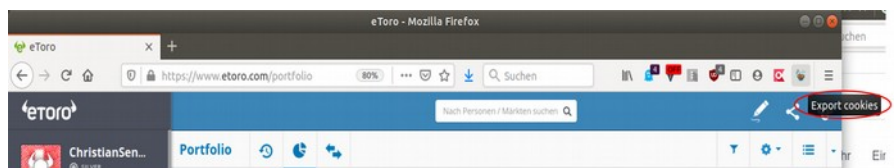
If you see that message, you've successfully communicated with the telegram bot.

6 Firefox Add-on Cookies.txt



7 Maintenance

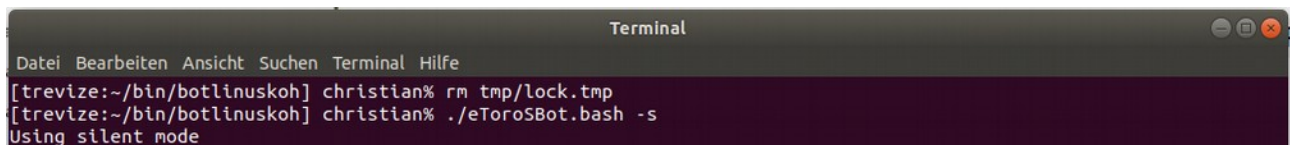
The bot requires all few days a new cookie file. To this end repeat the step done during installation and shown in the following picture.



8 Troubleshooting

After a crash of the bot (for example when the cookie file is to old), the bot needs to be restarted. There are two steps required to do that.

1. Delete the lock file in the local temp directory
\$ rm /PATH/TO/YOUR/BOT/tmp/lock.tmp
2. Restore the local copy of the positions. For example you can use the silent mode of the bot
\$./eToroSBot.bash -s
Alternatively you could copy the file data/oldPos.csv to data/newPos.csv

A screenshot of a terminal window titled "Terminal". The window has a menu bar with "Datei", "Bearbeiten", "Ansicht", "Suchen", "Terminal", and "Hilfe". The terminal shows the following commands and output:

```
[trevize:~/bin/botlinuskoh] christian% rm tmp/lock.tmp
[trevize:~/bin/botlinuskoh] christian% ./eToroSBot.bash -s
Using silent mode
```