

# Practical Usage Guide: Telegram .onion Link Extractor

This guide walks you through setting up and running the Telegram .onion Link Extractor script.

## 1. Prerequisites Setup

### A. Obtain Telegram API Credentials

1. Visit [my.telegram.org](https://my.telegram.org) and log in with your Telegram account.
2. Click on "API development tools".
3. Fill in the required fields to create a new application:
  - App title: Onion Link Extractor
  - Short name: onion\_extractor
  - Platform: Desktop
  - Description: Tool to extract .onion links from Telegram channels
4. Click "Create Application".
5. Note down your **API ID** (a number) and **API Hash** (a string).

### B. Install Required Software

1. Make sure Python 3.6+ is installed:

```
bash  
  
python --version
```

2. Install the Telethon library:

```
bash  
  
pip install telethon
```

## 2. Configure the Script

Open the `telegram_onion_extractor.py` file and update the following variables:

```
python  
  
# Telegram API credentials - replace with your own from my.telegram.org  
API_ID = 12345 # Replace with your API ID  
API_HASH = "abcdef123456789abcdef123456789ab" # Replace with your API hash  
CHANNEL_USERNAME = "toronionlinks" # The target channel username
```

Notes:

- `API_ID` should be a number (no quotes)
- `API_HASH` should be in quotes
- `CHANNEL_USERNAME` should be the username without the @ symbol

### 3. Running the Script

Execute the script from your terminal:

```
bash  
python telegram_onion_extractor.py
```

#### First Run

On the first run, you'll be prompted to enter your phone number to authenticate with Telegram:

1. Enter your full phone number (with country code, e.g., +12025551234)
2. You'll receive a verification code via Telegram
3. Enter the verification code when prompted

This authentication is only required once. The script creates a session file that stores your authentication for future runs.

#### Expected Output

If everything works correctly, you should see output similar to:

```
Connected to Telegram!  
Found channel: Onion Links Collection  
Extracted 12 .onion links from toronionlinks  
Results saved to onion_links.json  
Disconnected from Telegram
```

### 4. Examining the Results

The script creates two files:

1. **onion\_links.json** - Contains the extracted .onion links in JSON format:

json

```
{"source": "telegram", "url": "http://abcdef123456.onion", "discovered_at": "2025-05-15T10:00:00Z"},  
{"source": "telegram", "url": "http://example7890xyz.onion/forum", "discovered_at": "2025-05-15T10:00:00Z"}
```



2. **last\_message\_id.txt** - Contains the ID of the last processed message.

## 5. Subsequent Runs

When you run the script again, it will:

1. Read the last processed message ID from `last_message_id.txt`
2. Skip messages that have already been processed
3. Only extract links from new messages
4. Append new findings to `onion_links.json`

## 6. Troubleshooting

### Connection Issues

If you see errors like "Connection failed" or "Network error":

- Check your internet connection
- Verify that your API credentials are correct
- Make sure your IP address is not blocked by Telegram

### Channel Access Issues

If you see "Channel not found" or "Access denied":

- Verify the channel username is correct
- Make sure the channel is public (private channels require membership)
- Try another public channel as a test

### Rate Limiting

If you see "FloodWaitError":

- The script is making too many requests too quickly
- Wait for the specified time before trying again
- Consider adding delays between requests

## 7. Security Notes

- Keep your API credentials private
- The session file contains sensitive authentication data
- Be cautious with .onion links as they may point to illegal content
- This tool is for educational purposes only

## 8. Maintaining the Script

To keep the script running smoothly:

1. Periodically check for updates to the Telethon library:

```
bash
```

```
pip install --upgrade telethon
```

2. Clean up old session files if you're no longer using them:

```
bash
```

```
rm onion_link_session*
```

3. Consider implementing a log rotation system for `onion_links.json` if it grows too large.

By following this guide, you should be able to successfully run the Telegram .onion Link Extractor script and extract links from Telegram channels.