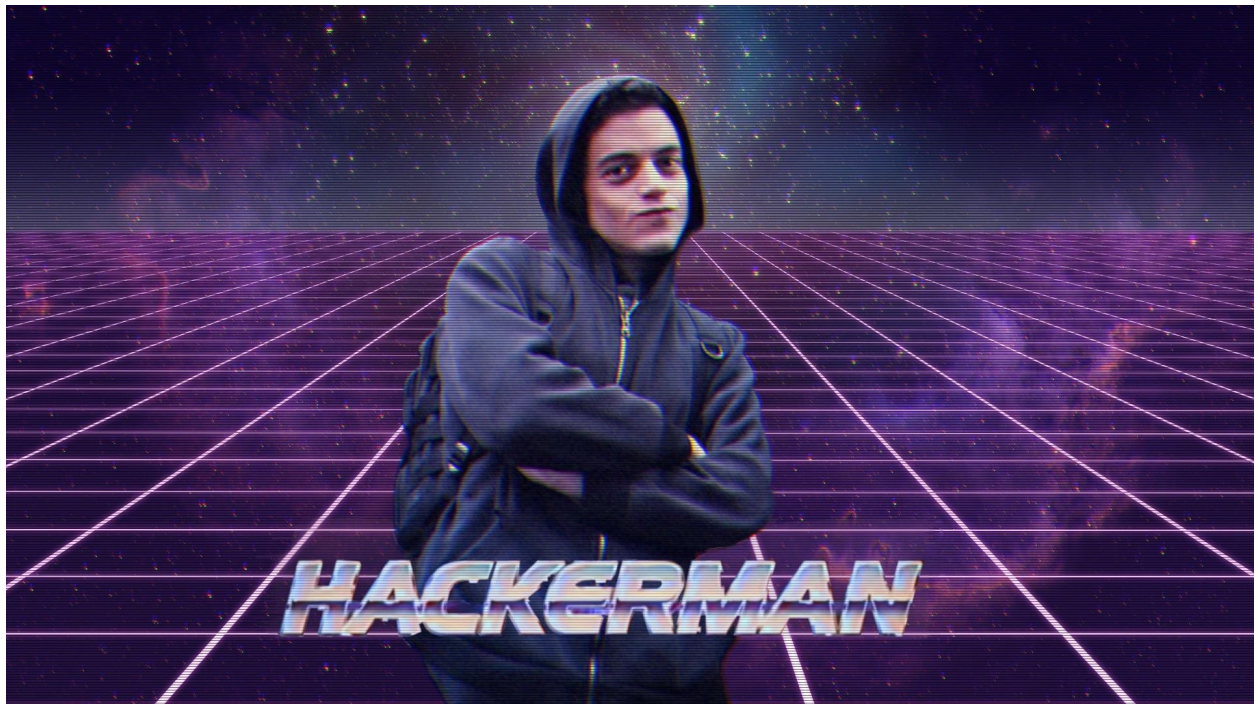


Investigation on black market offers, sellers and their legality



Introduction to Digital Forensics - Assignment 1

Project group 8

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Introduction

For this research black market listings on the dark web will be investigated. Illegal trading and trafficking are booming on the dark web. In 2016, Aldridge and Décary-Hétu (2016) estimated the monthly drug revenue on a single dark web marketplace to be close to six million Dollars. The obvious legal implications aside, missing out on any taxes concerning these transactions is a significant loss of income to the state. Data on the dark web is hard to come by without knowing the exact URL addresses, and even then, it is virtually impossible to track crypto transactions and the volume of illegal goods that have been sold. That makes any information on product availability and seller behaviour even more valuable. For that reason, this report aims to show a clear overview of the available products encountered on different dark web marketplaces and their sellers. The products found will be categorised depending on their legality and type. This investigation also supplies information on specific sellers and sites which can be investigated further based on the information provided. To that end, 3 sellers will be recommended to the police. Lastly, this study also helps to educate students on criminal behaviour on the web.

Methodology

First, we downloaded TOR and looked at the two black market links that Canvas had provided (<https://darknetmarketslink.com> and <https://darknetone.com/markets/>). Then, as instructed, we searched for links that terminated in ".onion." As a result, we attempted to click on as many links as we could, browse through every product, and categorise them into five groups: D for drugs, FS for financial services, P for phones, H for hacker services, and PD for prescription medications. In our situation, approximately half of the links didn't work. It was challenging for us to choose an equal number of links from each category because the majority of what we discovered on the dark web was either related to drugs or financial services.

Most of these websites required us to first register, which we did, and then they asked us to complete a bot test. We also observed that the majority of these websites had a one-minute timer, allowing us only that amount of time to finish the account registration and run the bot test before the page was refreshed and we had to start over from scratch.

Dark websites found

<http://kerberosemtkeqh7pznmv3negqhudxk5po3awdazx5fgizttr6xeiid.onion/invited/121462b2>

NEMESIS (WARNING: pornographic images shown)

<http://x7r427rknx5kw2oztfxiusfkidotsgitvrwnz33kjkmtdybcd2ntad.onion/register>

Torzon Market:

<http://torzon4kv5swfazrziqvel2imhxckc4otcvopiv5lnxqpqu4v4m5iyd.onion/home.php>

Cocorico Market:

<http://xv3dbyx4iv35g7z2uoz2yznroy56oe32t7eppw2l2xvuel7km2xemrad.onion/store/nojs/>

Virgin Bitcoins

<http://ovai7wvp4yj6jl3wbzihypbq657vpape7lggrlah4pl34utwjrpewid.onion/>

Mixabit

<http://hqfld5smkr4b4xrijco7zotvoqhuuoehjdvojn755iytmprk4sm7cbwad.onion/wallet.php>

Cardshop

<http://s57divisqlcitsyutxiz2ww77vlbwpvgodtjcsrgsuts4js5hnxkhqd.onion/>

AccMarket

<http://55niksbd22qqaedkw36qw4cpofmbxdtbwonxam7ov2ga62zqbhgtv3yd.onion/>

DCdutchconnectionUK -Shipping from United Kingdom

<http://wbz2lrhw4dd7h5t2wnoczmcz5snjpym4pr7dzimah4vi6yywn37bdyd.onion/>

Analysis of topics found

In order to analyse the topics found, six categories were created based on the main use of the products. The five categories classified are listed below, they are referred to in **Table 1** by abbreviations that are shown within brackets behind each category.

- **Drugs (D)**
- **Prescription Drugs (PD)**
- **Weapons (W)**
- **Fake IDs (FID)**
- **Financial services (FS)**
- **Phones (P)**
- **Hacking services (H)**

Besides the category a product falls in, a column to note whether they are considered legal or illegal products to sell has also been added.

Table 1. Products found across various dark websites, categorised in six different groups and whether they are legal or not.

Product	Legal (L) /Illegal (I)	Category
Fishscale Cocaine 1.5g	I	D
Fishscale Cocaine 5g	I	D
Fishscale Cocaine 10g	I	D
PURE PLATINUM MDMA 92% 15g	I	D
PURE PLATINUM MDMA 92% 30g	I	D
PURE PLATINUM MDMA 92% 50g	I	D
AMNESIA HAZE - THC 21% - NEW BEST BATCH! 15g	I	D
AMNESIA HAZE - THC 21% - NEW BEST BATCH! 30g	I	D
AMNESIA HAZE - THC 21% - NEW BEST BATCH! 55g	I	D
ROCK ISOMER S+ KETAMINE EC 99% 7g	I	D
ROCK ISOMER S+ KETAMINE EC 99% 15g	I	D
ROCK ISOMER S+ KETAMINE EC 99% 30g	I	D

LSD BLOTTERS REAL 220ug PSYCHEDELIC FLOWERS 15x	I	D
LSD BLOTTERS REAL 220ug PSYCHEDELIC FLOWERS x50	I	D
LSD BLOTTERS REAL 220ug PSYCHEDELIC FLOWERS 100x	I	D
ROLEX'S 150MG+ MDMA ECSTACY PILLS 100x	I	D
ROLEX'S 150MG+ MDMA ECSTACY PILLS x200	I	D
ROLEX'S 150MG+ MDMA ECSTACY PILLS 500x	I	D
300 Hits LSD - 150ug	I	D
10g DMT Freebase	I	D
10x accounts with \$250-500 balance	I	FS
25x accounts with \$50-200 balance	I	FS
25x accounts with \$50-200 balance	I	FS
5x accounts with \$5000-25000 balance	I	FS
20x random ebay accounts	I	FS
10x Ebay seller accounts with 100+ feedback	I	FS
Bank account basic	I	FS
Bank account with verified crypto exchange account	I	FS
Bank account with VISA card	I	FS
Bank account with VISA card + verified crypto exchange account	I	FS
We mine bitcoins worth \$250 to your addresses	I	FS
MDMA Champagne 90% Pure	I	D
White Gold 100G	I	D
10g Hash HQ	I	D
AK47 Indoor 10g	I	D
[Cocaine] 5G Pure Olives Suriname [HQ+]	I	D
3.5G GELATO 41 TOP INDOOR	I	D

10 XTC blue punisher	I	D
10 XTC Bowzer 280 Mg Mmda 10 XTC Bowzer 280 Mg Mmda	I	D
crumble extract 1G	I	D
15G - WEED GELATO - HQ	I	D
50g of maroccan blond hash	I	D
10G CRITICAL+!!	I	D
Weed Skunkmix, 5 grammes	I	D
*5 XTC - 200MG	I	D
Hash 5G Sherbet (The Hash Valley)	I	D
5g Hash Premium (3x filtré) Head Banger 120ug KGFarm (Glassy) Indica	I	D
10g Hash de Haze !!! High Quality !!!	I	D
BigBud WEED BUDS (1g, 23%)	I	D
Bitcoin Mixer	I	FS
UNLOCKED Iphone XS 256gb Space Grey EU	L	P
10 x cards with credit from 1000 to 5000 USD	I	FS
50 x cards with credit from 1000 to 5000 USD	I	FS
10 x cards with credit from 5000 to 20000 USD	I	FS
50 x cards with credit from 5000 to 20000 USD	I	FS
10 x cards with credit from 20000 to 50000 USD	I	FS
50 x cards with credit from 20000 to 50000 USD	I	FS
10 x non verified by visa cards 5000 - 100000 USD	I	FS
50 x non verified by visa cards 5000 - 100000 USD	I	FS
15 x random card with high balance	I	FS
50 x random card with high balance	I	FS

15 x card with high balance, you can choose country or bank BIN	I	FS
50 x card with high balance, you can choose country or bank BIN	I	FS
50g cocaine columbia 90% - fast shippin...	I	D
0.50g cocaine columbia 90% - fast shi...	I	D
1g cocaine columbia 90% - fast shippi...	I	D
5g cocaine columbia 90% - fast shipping...	I	D
10g cocaine columbia 90% - fast shippin...	I	D
25g cocaine columbia 90% - fast shippin...	I	D
5g amphetamine ultra ++ fast shipping...	I	D
10g amphetamine ultra ++ fast shipping	I	D
25g amphetamine ultra ++ fast shipping	I	D
50g amphetamine ultra ++ fast shipping	I	D
100g amphetamine ultra ++ fast shipping...	I	D
250g amphetamine ultra ++ fast shipping...	I	D
5x patek philippe 220mg - fast shipping...	I	D
10x patek philippe 220mg - fast shipp...	I	D
25x patek philippe 220mg - fast shippin...	I	D
50x patek philippe 220mg - fast shippin...	I	D
100x patek philippe 220mg - fast shippi...	I	D
250x patek philippe 220mg - fast shippi...	I	D
2.50g hq cali hasch - fast shipping	I	D
5g hq cali hasch - fast shipping	I	D
Viagra Generic - 30 tab - EU free shipping!	L	PD
TAMSULOSIN (Flomax) URIMAX 0.4 mg TABS	L	PD
Telmisartan 20 mg MICARDIS tablet	L	PD

Doxycycline 100 mg x 30/90/180/360 Tablets	L	PD
Nuvigil Armodafinil Artvigil 150mg Blister	L	PD
Testosterone Cypionate (Test C) 250mg/ml - 10ml Vial - USA free mail	L	PD
Reverse Proxy Tool (New 2FA Bypass Tool)	I	H
Blackmail Bitcoin Ransomware (With Sourcecode)	I	H
ANARCHY PANEL RAT FULLY PRIVATE [PREMIER SERVICES]	I	H
ARES RAT v1.2.1 (Bitcoin BTC Stealer Plugin Included)	I	H
Best Malwares Megapack - for Windows, Android, ATM - Malware, Stealer	I	H
HQ Botnets Package	I	H
BURP SUITE PROFESSIONAL UNLIMITED CRACKED EDITION 2022	I	H
instagram followers x50000 quick delivery cheap lifetime warranty	L	H
DDOS 1 Week Premium [PREMIER SERVICE]	I	H
SCAMPAGE: INTERACT WITH MANY BANKS (BUY 1 GET 1 HALF PRICE)	I	H
Jetblue CONFIG WITH CAPTURE [HQ]	I	H

Analysis per category

The found products were categorised as described above. The results of this analysis are shown in **Table 2** below displaying the amounts of products found for every category. Beneath the table, there is also a pie chart (**Figure 1.**) showing the percentages in a visual way.

Table 2. Amount of products found per category.

Category	Amount of products found
Drugs	58

Financial Services	24
Prescription Drugs	6
Weapons	0
Fake IDs	0
Phones	1
Hacking Services	11

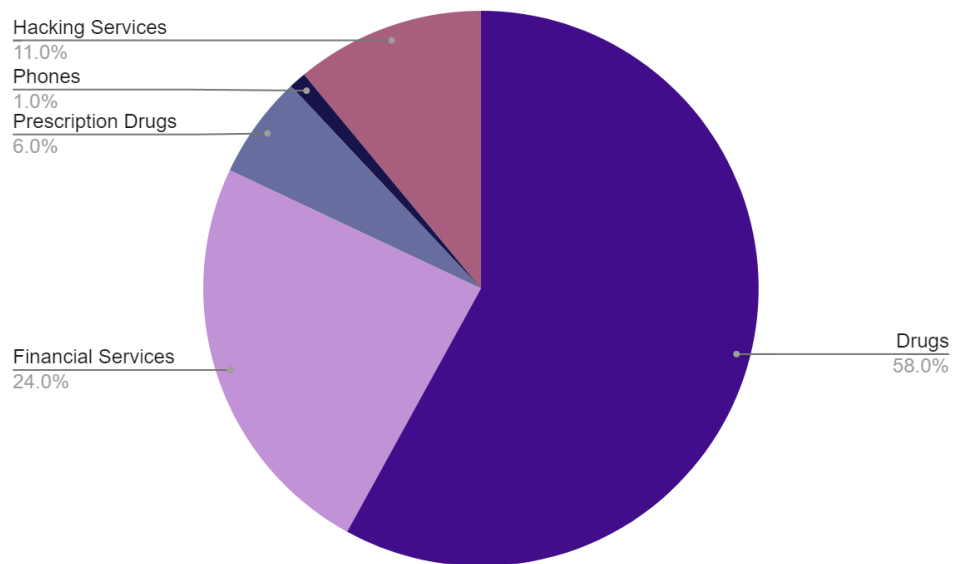


Figure 1. Pie chart of products and their respective categories.

Legality of Products found

In total 92% of the products found were labelled illegal and 8% of the products found were labelled legal. Below a pie chart representing these amounts as percentages of the total amount of products is shown.

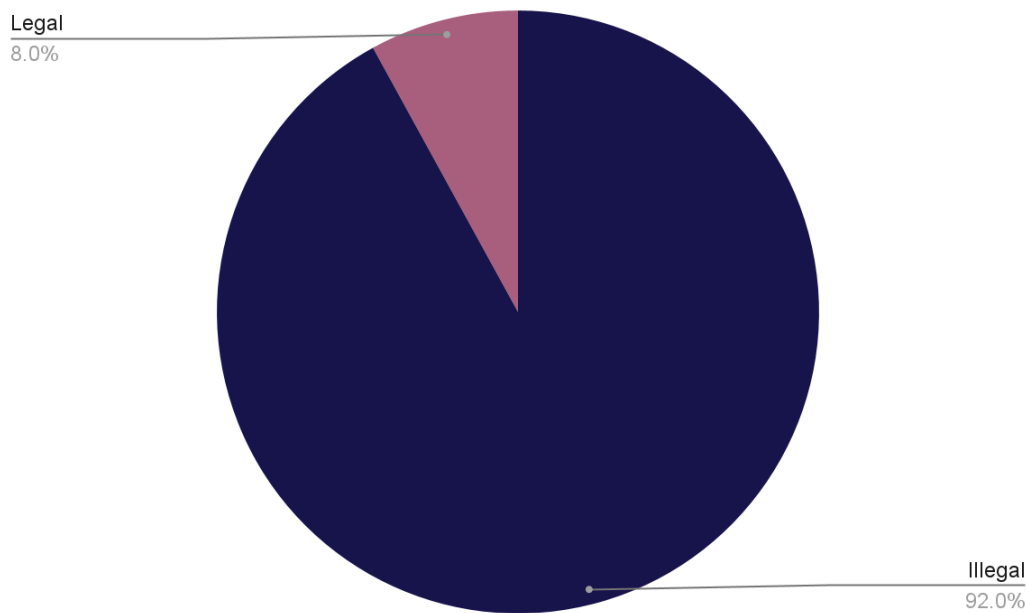


Figure 2. Pie chart of legal vs illegal products found.

The legality of the products often directly relates to the category the product belongs to. This way, the 6 products from the category of prescription drugs have all been labelled legal. Besides that, an unlocked phone and the purchasing of Instagram followers were also deemed legal.

Nonetheless, we do have to keep in mind that even the topics regarded as legal in our analysis, can be argued on their legality. In theory, selling a phone is of course legal, however, the context matters a lot as the phone might be illegally acquired and sold for profit. By purchasing a phone of which you know that it is stolen or obtained illegally you are part of the crime and are 'handling stolen goods'. Therefore it very much depends on the buyer whether they can argue that they were not aware of the phone being stolen.

Three most surprising topics

- Firstly, we were very surprised by the pricing for PayPal accounts on the black markets we found, as they were very affordable.
- Secondly, the amount of drugs available astonished us as well. We did expect to find some drugs on the black market, but not in the quantities that we encountered. By far the most websites we visited offered drugs, in all sorts of shapes, price categories and quantities.
- Lastly, we were surprised to find products in quite limited categories. We, for example, found no weapons or different really shady topics, like body parts. Overall, it looked

mostly to us to any other online shopping website, only that most of the products sold were drugs.

Analysis of sellers

Top 10 sellers

The top ten sellers of Torzon Market have been investigated and are shown below in a table displaying their total sales on Torzon Market, the average rating from buyers, the number of posts available currently (as of the 6th of October 2023) and the current open orders (also on the 6th of October).

Table 3. Top 10 sellers and some of their current statistics.

Name	Total Sales	Rating (0/5)	# of Posts	Open Orders
ChemicalDrugs	1126	4.94	43	55
greenleafde	638	4.84	320	57
maxverstappen	512	4.85	78	45
kingofdrugs	484	4.83	43	25
tomandjerry	332	4.86	121	2
WeAreAMSTERDAM	255	4.87	75	0
Blacklist	184	4.77	123	10
rockleo	142	4.78	2	9
cannedgoods	132	4.97	52	8

Top 3 sellers to investigate

Table 4. Top 3 sellers to investigate and why.

Seller name	Reasoning
Nemesis (site)	Sells physical documents such as passports and IDs. Also, sells counterfeit money and hacking products such as ransomware, DDoS services and malware.
ChemicalDrugs	Sells in great majority illegal drugs, and seems to be making a lot of profit as proven by the previous table.
rockleo	Sells stolen credit cards, where victims are immediately impacted when they are used by customers. Higher priority than drugs, the control and seizure of which is

Seller name	Reasoning
Nemesis (site)	Sells physical documents such as passports and IDs. Also, sells counterfeit money and hacking products such as ransomware, DDoS services and malware.
	virtually meaningless, as other sellers will happily take the new market share.

Conclusion and Reflection

Through scanning different black markets on the dark web we have found 100 different products that are for sale on the black market. With a total of 58 different products, drugs were by far the most represented category we found in our search. Almost all products found were considered illegal.

Categorising the items on their legality was found to be quite difficult. Making it as black and white as saying that a product is either legal or illegal disregards the nuances that are part of arguing legality. The buying of prescribed drugs can be legal if you actually have the drugs prescribed. On the dark web, however, no one is going to check for you whether you actually have a subscription to the drug which means we cannot judge the legality of someone buying the drug without that information..

We were surprised to find little 'shocking' or sketchy items. We did not find anything in the category of weapons or other immediately threatening materials, although we did expect to find some of that in the first place. This might also be because we simply did not reach these 'darker' places on the dark web and only got to the more accessible links that we could find with our quick searches on more well-known websites such as <https://darknetmarketslink.com> and <https://darknetone.com/markets/>.

References

Aldridge, J., & Décary-Hétu, D. (2016). Hidden wholesale: The drug diffusing capacity of online drug cryptomarkets. *International Journal of Drug Policy*, 35, 7–15. DOI: <https://doi.org/10.1016/j.drugpo.2016.04.020>