TERBIUM LABS

Dark Web Data Intelligence
Something Old, Something New, Something Borrowed, Something You

The Rise of Synthetic Identities
Agenda

1. Something Old: Fraud as Old as Time
2. Something New: The Professionalization of Fraud
3. Something Borrowed: Synthetic Identities
4. Something You: What Can We Do?
Emily Wilson

“Why should I trust you?”

Fraud Intelligence Manager, CFE

Terbium Labs is a dark web intelligence company based in Baltimore, Maryland. Terbium helps companies detect the appearance of sensitive data on the dark web.
Something Old

Fraud as Old as Time
Fraud is not a new problem
Then again, not a lot has changed
Due to technological advancements, fraud has become more professionalized.

The dark web provides both the tools and the technology to make fraud a scalable, profitable profession.
Something New
The Professionalization of Fraud
To understand developments in fraud, we must understand the dark web fraud economy.
What is the dark web?

The dark web has a bad reputation: clickbait headlines and popular media are full of inaccuracies.

The dark web is home to both illicit and legal activity, and using the dark web is not inherently sketchy.

The dark web is just another part of the internet.
Dark, Deep, Clear?

The clear web is accessible through search engines and requires no special technology.

The deep web is not accessible through search engines, but requires no special technology.

The dark web is not accessible through search engines, and requires special technology for access.
<table>
<thead>
<tr>
<th></th>
<th>On Google</th>
<th>Not On Google</th>
</tr>
</thead>
<tbody>
<tr>
<td>No special tech</td>
<td>CLEAR WEB</td>
<td>DEEP WEB</td>
</tr>
<tr>
<td>Special tech</td>
<td></td>
<td>DARK WEB</td>
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• The dark web is not the stuff of myths and legends.
• The dark web is powered by anonymizing technologies.
• The dark web is home to a full range of legal, sketchy, and criminal content.
Your anonymous Tor Bitcoin Wallet and Laundry

OnionWallet Features:
- Free Bitcoin Mixer! You will always get completely different Bitcoins on withdrawals with no "taint" to your receiving address.
- Safe storage: we keep most of the bitcoins in secure encrypted offline storage.
- Protect your funds with a transaction PIN.
- Anonymous registration: We do not need any private data.
- Very simple user interface, no complicated options and settings.
- NO FEES except the bitcoin network fee!

Get started using Bitcoins in 2 simple steps:
- Register an account on OnionWallet and write down your username, password and optionally PIN at a secure place.
- Purchase Bitcoins to your Bitcoin address in your OnionWallet account using for example one of the following exchange services:
  - https://en.bitcoin.it/wiki/Trade#Currency_exchanges - Big list of many more Bitcoin exchanges.

Why you should use OnionWallet:
Bitcoin and Bitcoin wallets itself are not really anonymous, they only provide so called pseudonymity, which means as long as no one knows which Bitcoin addresses you are using. That anonymity is easily destroyed when you deal with some party that knows your real identity, for example if you sell or buy bitcoins on an exchange.
And with more and more exchanges and other services following AML and KYC policies, its getting really hard to stay anonymous to government agencies when dealing with bitcoins.
OnionWallet helps you break that chain, since its hosted at a Tor hidden service, and no one knows who we are, we do not have to follow the rules! OnionWallet is run by a group of volunteers from all over the world...
Okay, but what about the illegal stuff?
Personal Data:
• PII/PHI
• Leaked Credentials
• Contact Details
• Extended Personal History
Financial Data:
- PAN data
- ACH/Check info
- Salary Information
- Payroll Records
Corporate Data:
• Intellectual Property
• R&D
• Source Code
• Supplier and Sourcing Data
Data Harvesting Tools:

- Fraud guides and courses
- Exploit kits
- Vulnerabilities (0-days)
- Devices (ATM skimmers)
Dark Web Oddities

Weirdest Flea Market You’ve Ever Seen

Cute pair of well trained Congo Africa Grey Parrots

Cute pair of well trained Congo Africa Grey Parrots for sale. Very intelligent, well trained talking parrots, will for both you and your kids. Live cam if necessary, skype or video calls available for scam free transactions and cage if necessary with all toys for the well being of these babies.

Sold by bonasco - 0 sold since Dec 9, 2016

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<th>Trust Level</th>
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<tbody>
<tr>
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Features

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<th>Features</th>
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<td>Unlimited</td>
<td>Worldwide</td>
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<td>Quantity left</td>
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<tr>
<td>Ends In</td>
<td>Never</td>
<td>Payment Escrow</td>
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Default - 1 days - USD +0.00 / item

Purchase price: USD 600.00

Qty: 1
Buy Now Queue

Vendor: HappyEyes (3650) (4.80⭐) (56, 4.6/5)
Price: $2
Ships to: Worldwide
Ships from: Worldwide
Escrow: Yes
The dark web hosts an illicit ecosystem, made up of multiple criminal economies.
Fraud has become professionalized.

Technological innovation combined with a regular supply of sensitive data has created scalable business models for fraudsters.
Fraud has become decentralized.

Because of the infrastructure and established economy on the dark web, criminals can afford to specialize.
Supply: Fresh stock of data from breaches and other security incidents.

Demand: Fraudsters with scalable operations and clear business models.

Result: Robust fraud economy.
Something Borrowed

Synthetic Identities
A synthetic identity is an identity that is pieced together from components of multiple identities or is pieced together from real identities and fake information.
How do they do it?

Betsy Smith
549-99-7854
1300 Lexington Ave.
Baltimore, MD

Elizabeth C. Smith
549-98-7854

1300 Lexington Street, #103, Baltimore, MD
Current methods to verify customer accounts or new sign-ups are very basic validations.

Does it look right?
In 2011, The Social Security Administration changed the way in which it issues SSNs.

This change, unfortunately, makes it easier to falsify a Social Security number.
Wait, so you’re saying fraudsters can just create identities out of thin air?

Yes.
We should do something about that.
Fraudsters aren’t always looking for a quick way to cash out.

They can be patient too.
CREDIT TROUBLES?
Slow Credit • Bad Credit • Bankruptcy
WE CAN HELP!

Credit Report
Your Credit Score: 760
Credit Score Range: Excellent
Credit Score Grades:

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The kids are not alright.
Something
You
What Can We Do?
Operate under the assumption that your data, and the data of the people around you, will be compromised and misused.
What do we know?

1. Data compromise will continue and increase.
2. Fraudsters will continue to seek out profits.
3. Fraudsters can be patient, scrappy, and creative.
What can we do?

Data compromise will continue and increase.

How do we know when data is compromised? How do we know what data is compromised?
What can we do?

Fraudsters will continue to seek out profits.

**Fraud is a business, not a hobby.** Put yourself in sketchy business school.
What can we do?

Fraudsters are patient, scrappy, and creative.

Evaluate your digital assets the way a fraudster would. Think long term, be suspicious, and ask questions.
Questions?

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