
Fishing for Phishers

Who sends these emails anyway?

Who?

- Dominik Bärlocher
- Author
- Journalist
- Lifts weights
- dominik.baerlocher@digitec.ch



What?

- Fake mails
- Barely any text
- Attachment in .docx format

Digitec 

An:

Antwort an: Digitec

Digitec Kundenservice

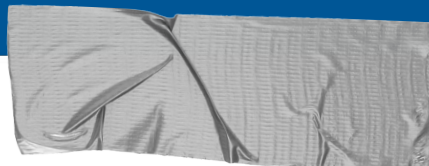
Zahlung 857 CHF

Sicher online bezahlen & Geld senden - PayPal Schweiz



02.11.2016_Qutting.doc

x



1. OSINT

Open Source Intelligence: Using publicly available data in order to find or profile something or someone. (Basically stalking)

→ **Google**

Mighty search engine and big data monster that knows everything

→ **Whois**

Lots of people forget to activate privacy protection for their sites.

→ **Bing**

Looking for the same thing but with vastly different results.

The Investigation Begins

- Mails sent from several addresses
- digitec@ropa-maschinenbau.de
- \$something@digitec.com
- None of our domains
- Someone is spoofing mails from us



digitec.com

- Owner: Digitec Corporation
- Mail: digitec@compuserve.com
- Location: Yonkers, NY
- PO Box
- Google Maps has it listed
- What we're sure of: It's not us



38 Belmont Terrace

Yonkers, New York



Street View - Jun 2016



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Trail lost!

(But we're not done!)



2. The Payload

The attachment: An analysis of what our informant sent us.

→ **Reverse Engineering**

See if code can be decoded to read original code.

→ **Untangle code**

What does it actually do? How can we reverse it?

→ **Solution**

How do we keep our clients safe? Can they fix this themselves?

Dridex

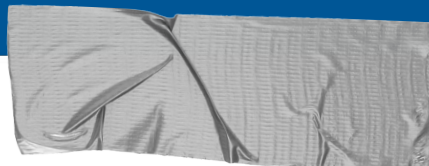
A person wearing a dark grey hoodie is sitting at a desk, looking at a laptop. The person's face is obscured by the hood, and the lighting is dim, creating a mysterious and dark atmosphere. The background is a dark, textured grey.

- Man-in-the-Middle
- Attack targeted to CH/AT
- Attacker most likely not the best IT guy
- Digitec not the target

What it does

A person wearing a dark grey hoodie is sitting at a desk, looking at a laptop. The person's face is obscured by the hood, and the background is dark and moody.

- Downloads actually useful software
- Installs certificates
- Creates Registry entries
- Intercepts traffic to bank sites
- Sends data to Darknet Address



3. The Impact

Going public: What to tell people and how to keep them safe..

→ **Journalistic Impact**

Are our readers even interested in an article like this?

→ **Awareness**

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The Aftermath

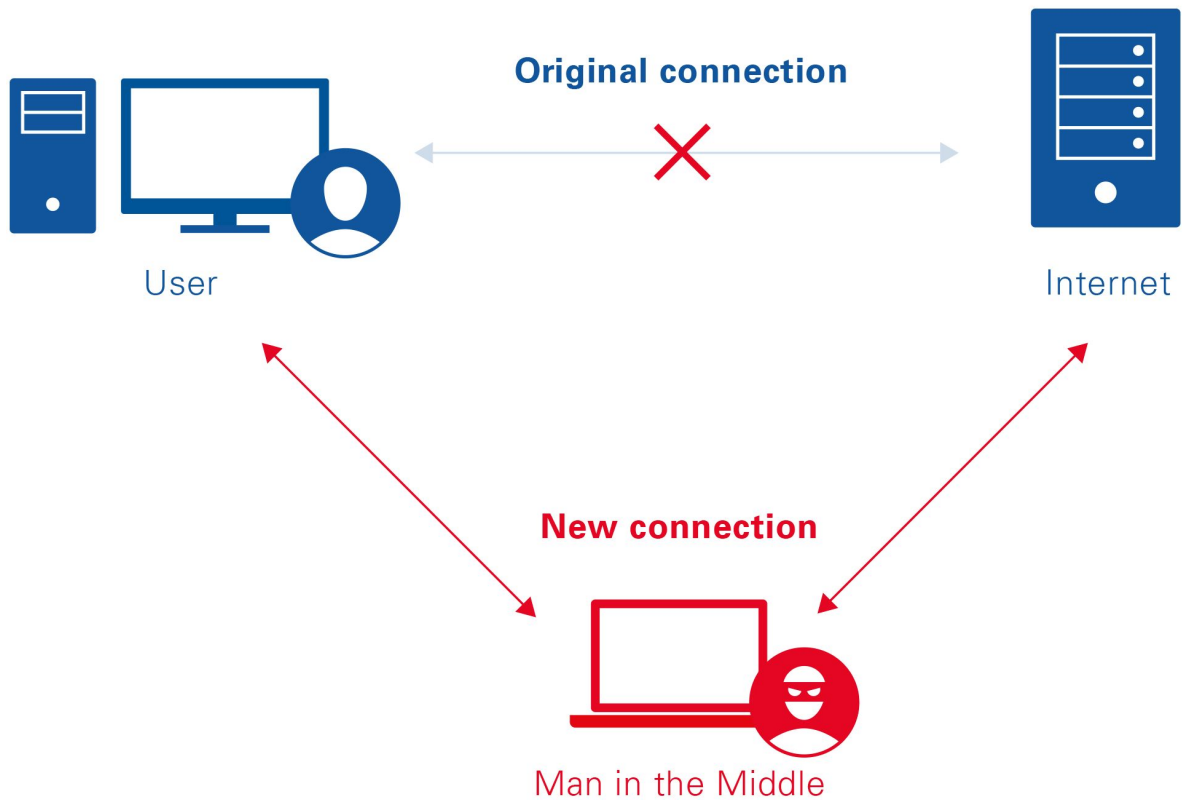
- 549 Likes
- 150 comments
- Unilateral Praise





Stay Alert

- Keep the subject alive
- Find interesting angles
- Use simple language
- If a kitten can do it, so can you



Countermeasures

A person wearing a dark grey hoodie is sitting at a desk, looking at a laptop. The person's face is obscured by the hood, and the background is dark and moody. The overall tone is serious and mysterious, suggesting a focus on cybersecurity or digital threats.

- Quick Fix upon discovery
- Complete decryption
- Complete fix

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Your readers are not stupid.
They just don't know
anything about the topic yet.

What We Do

- Inform users periodically
- Make knowledge public
- Have a dedicated mail opening service for dodgy-looking mails



What You Can Do

- Keep it simple
- Keep it short
- Keep it alive
- Make your readers feel like they are smart
- Tell a great story





Thank You!