







Martin Lutz



Senior Security Professional

Martin Lutz is a Senior Security Professional with a demonstrated history of growing brands, products, and ideas. He is skilled in leading international teams with a cross-cultural mindset to achieve EBIT, CAPEX and OPEX targets. Through his years of experience as Country Manager, Head of Business Development, Senior Product Manager and Head of Operations in Switzerland, Singapore, and Germany, he gained first-hand knowledge of what it takes to develop and execute brand strategies, establish, and enforce improvement programs and expand businesses into new markets.

He held P&L responsibility of up to USD 25 million, forged strong relationships with clients and strategic partners, and led international teams of >15 FTE. His passion is to lead, inspire and encourage industry specialists to maximize their capabilities to the fullest potential and delivering high quality, customer-centric products.

Mr. Lutz holds a bachelor's degree in Business Informatics from the Cooperative State
University Mannheim (DHBW) and was also within Deutsche Telekom's Manager Development
Program to further enhance his management and leadership skills.



DISCLAIMER:

The following content is my personal view. The purpose in this presentation is to raise awareness and <u>not</u> to promote hacking or any other criminal activities. Any actions and or activities related to the material contained within this presentation is only for awareness purposes. The misuse of this information can result in criminal charges brought against the persons in question. The author will not be held responsible in the event any criminal charges be brought against any individuals misusing the information in this presentation to break the law.

This is not about me. This is about Hugo.



Hugo just lost his job.



What he thinks:

- Costs: Low
- Risk: Low
- Outcome: Big

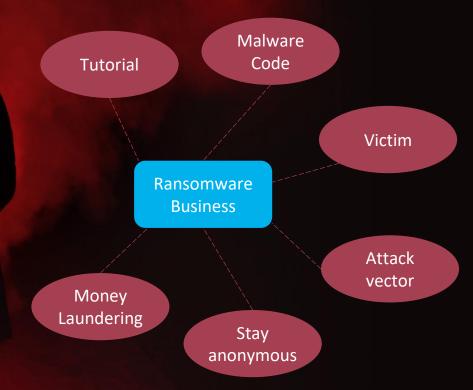
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He is desperate. So he makes a decision.



What does it need to build a ransomware business?







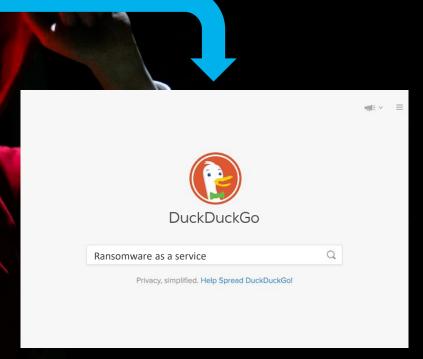




Find the entry point

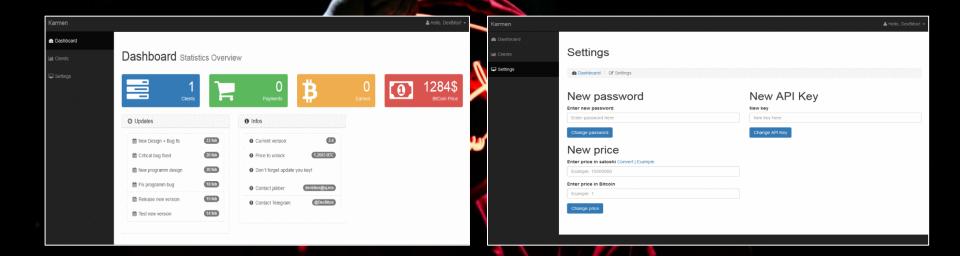






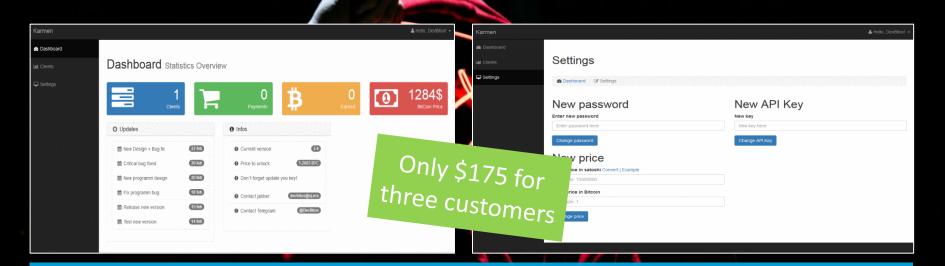


BUY "KARMEN" THE RANSOMWARE-AS-A-SERVICE





BUY "KARMEN" THE RANSOMWARE-AS-A-SERVICE



Benefits:

- Multi-language
- Encryption algorithm: AES-256
- Adaptive admin panel
- Encrypts all discs and files

- Separate BTC wallet for each victim
- Automatic deletion of malware after payment was received
- Minimal connection with control server















Maltego is an open-source intelligence and forensics application which gathers information of victims and represents it in a graph.



Follow Youtube Tutorial



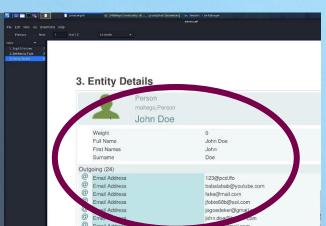


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"John Doe" will be our (random) victim to be attacked.

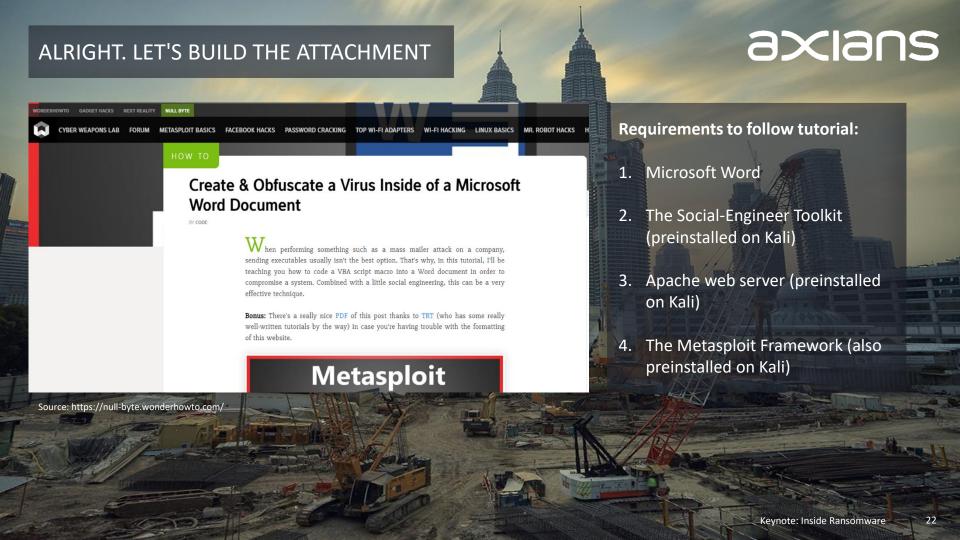


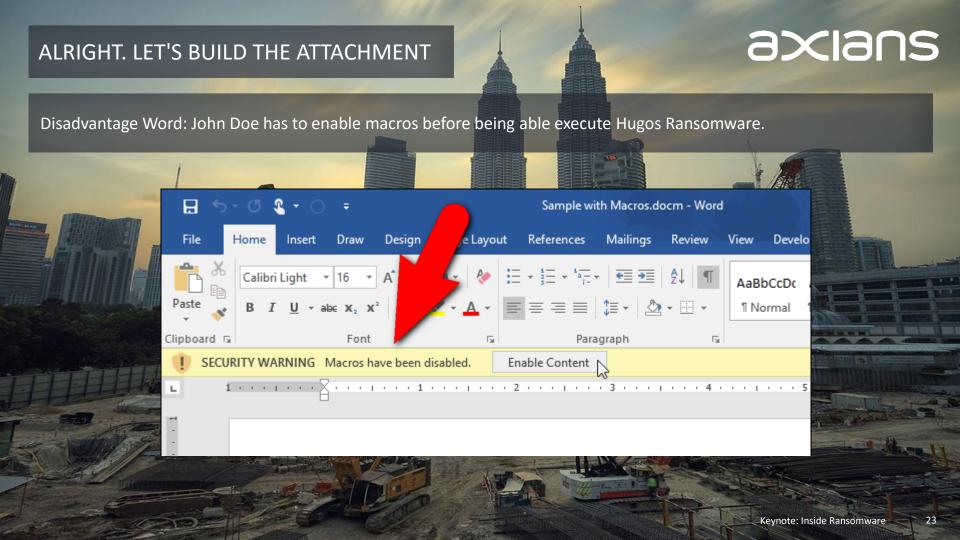










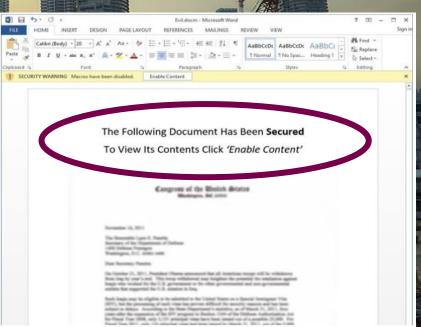


ALRIGHT. LET'S BUILD THE ATTACHMENT



So, lets make it as attractive a possible to activate it. Through Social Engineering Hugo found out that the company of John Doe uses McAfee as Security Provider.

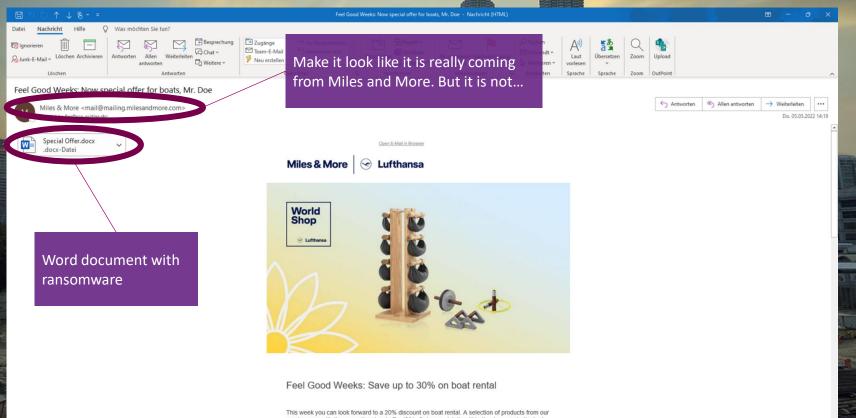




AND NOW THE EMAIL



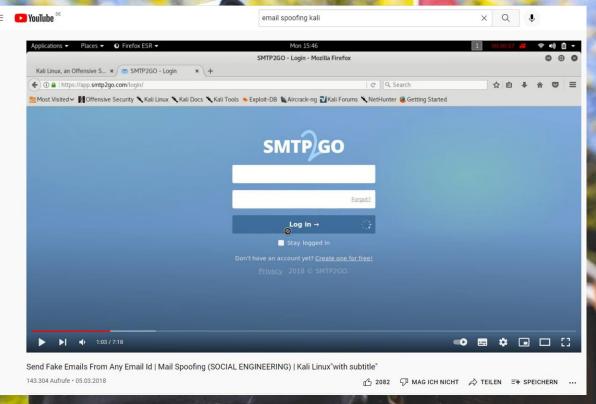
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READY TO BE SEND. BUT HOW?





All Hugo needs:

- 1. Again Kali Linux
- 2. SMTP2Go as Email Delivery Service



THEN...

WAIT...

AND...



THEN...

WAIT...

AND...





WARNING: YOUR FILES HAVE BEEN LOCKED BY HUGO

? What happened?

All **your files** have been encrypted. This includes (but is not limited to) Photos, Documents and Spreadsheets.

? What now?

You can make a payment of (exactly) 3.33 bitcoin to the following address: bc1q5q38z3qtleglms

Once the payment has been made we'll follow up with a transaction to the same address, this transaction will include the **decryption key** as part of the transaction details. [more information]

JOHN DOE PAID.





BUT HOW TO SPEND THE MONEY LEGALLY?

BUT HOW TO GET THE MONEY?



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Money Laundering via Cryptocurrencies: All You Need to Know



Money laundering via cryptocurrency has been going on for a while now. We've all heard of Bitcoin, Ethereum and Dogecoin. Crypto is used by financial criminals globally but how are they getting away with it? It's time we lifted the lid on this crime and decoded what often sounds complicated but doesn't have to be.

This is everything you need to know.

What is cryptocurrency?

Simply put. Cryptocurrency is a digital or virtual currency that is protected by encryption, making counterfeiting and doublespending practically impossible. Many cryptocurrencies are built on blockchain technology, which is a distributed ledger

JOHN DOE PAID. BUT HOW TO GET THE MONEY?



Hugos Bitcoin wallet



Unregulated Mixing Services (e.g., Tornado.Cash)



New Bitcoin wallet



Gambling website e.g., in Africa that accepts Bitcoin and buy credit / virtual chips





Money gains legal status



WITH THE MONEY HUGO CAN FEED HIS FAMILY AND BOUGHT AN SMALL ISLAND. SOMETIMES HE IS SCARED TO BE CAUGHT. BUT...





HAPPY END



Each of us will be happen to be a victim of Ransomware any time soon. But we can try to reduce the risk and impact. But how?

- Awareness Training
- Email Gateway Security and Sandboxing.
- Network segmentation.
- Endpoint Detection & Response (EDR) solutions.
- Backup, backup and backup.
- Incident Response Plans.
- Disabled Macros.
- Network Monitoring.

