



CYBER BREACH NOT IF, BUT WHEN

AIRMIC Conference Workshop, 12 June 2017

JOIN THE DISCUSSION

Go to: slido.com

Enter Code: HDI2017

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As the intended addressee of this information you are obligated – not only by labour regulations but also by regulatory laws (in this case also subject to penalty) – to keep this information strictly confidential, both within the company and particularly in relation to third parties.

We herewith duly inform you of this matter, even though we believe that for you as an employee of the Talanx Group the responsible and confidential handling of sensitive information would go without saying.

In case of any further questions regarding specific details, please do not hesitate to contact the Group Legal Department in Hannover.



Get Involved!

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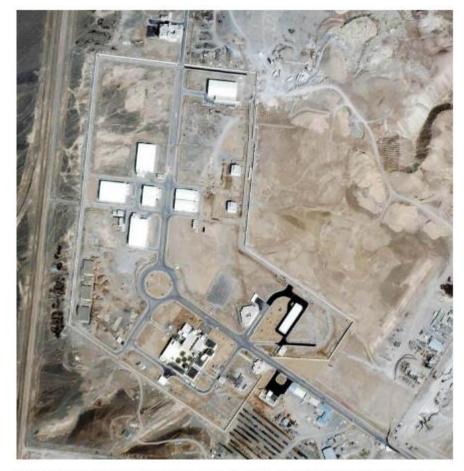


"But, nobody wants what I have..."









This recent undated satellite image provided by Space imaging/inta SpaceTurk shows the once-secret Natanz nuclear complex in Natanz, Iran, about 150 miles south of Tehran. Photo/Space imaging/inta SpaceTurk, HO



Sony Hack October 2011: Thousands Of PlayStation Network Accounts Targeted By Massive Attack

AP | By By TOMOKO A. HOSAKA

Posted: 10/12/2011 9:05 am EDT Updated: 12/12/2011 5:12 am EST



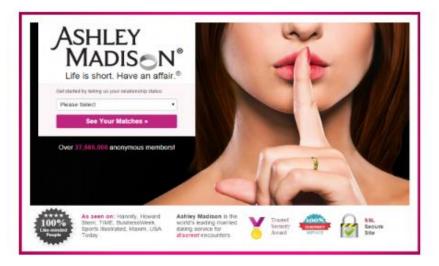


19 Online Cheating Site AshleyMadison Hacked

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Large caches of data stolen from online cheating site **AshleyMadison.com** have been posted online by an individual or group that claims to have completely compromised the company's user databases, financial records and other proprietary information. The stillunfolding leak could be quite damaging to some 37 million users of the hookup service, whose slogan is "Life is short. Have an affair."







S	Wana Decrypt0r 2.0			
	Ooops, your files have been encrypted!			
11	What Happened to My Computer? Your important files are encrypted. Many of your documents, photos, videos, databases and other files are no longer accessible because they have been encrypted. Maybe you are busy looking for a way to recover your files, but do not waste your time. Nobody can recover your files without our decryption service.			
Payment will be raised on	Can I Recover My Files?			
5/16/2017 00:47:55	Sure. We guarantee that you can recover all your files safely and easily. But you have			
Time Left	not so enough time. You can decrypt some of your files for free. Try now by clicking <decrypt>.</decrypt>			
82:23:57:37	But if you want to decrypt all your files, you need to pay. You only have 3 days to submit the payment. After that the price will be doubled. Also, if you don't pay in 7 days, you won't be able to recover your files forever. We will have free events for users who are so poor that they couldn't pay in 6 months.			
Your files will be lost on				
5/20/2017 00:47:55 Time Left	How Do I Pay? Payment is accepted in Bitcoin only. For more information, click <about bitcoin="">. Please check the current price of Bitcoin and buy some bitcoins. For more information, click <how bitcoins="" buy="" to="">. And send the correct amount to the address specified in this window. After your payment, click <check payment="">. Best time to check: 9:00am - 11:00am</check></how></about>			
	And you payment, ener since rayments best and to check stouin - 11.00am			
<u>About bitcoin</u> <u>How to buy bitcoins?</u>	Bitcoin Send \$300 worth of bitcoin to this address: 12t9YDPgwueZ9NyMgw519p7AA8isjr6SMw Copy			
Contact Us	Check <u>P</u> ayment <u>D</u> ecrypt			











<u>REMINDER</u> to Get Involved!

Go to: slido.com

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Peter Hawley

Cyber Underwriter

HDI Global SE - UK



The Insurer

- Peter Hawley
- Cyber Underwriter with responsibility for Cyber Insurance at HDI Global in the UK
- Member of the team who developed HDI Global's Cyber+ product in London
- Worked in insurance for 14 years
- Founder committee member of the Cyber Insurance Association







The Buyer



Nick Andrews

FCII, CFIRM, Chartered Insurance Risk Manager

Head of Insurance Risk

E D & F Man Holdings Limited



- Nick Andrews
- Head of Insurance Risk E D & F Man Holdings Limited
- Manage a team of insurance and risk personnel to provide global insurance policies across marine and non-marine disciplines
- Worked in insurance for 30 years Broker, Client, Insurer (underwriting and risk management)



 Why? MAN Incidents. Third party incidents. Banks/Lenders interest. Everyone talking about it. Risk Committee asking - is a Private Company like MAN really at risk? 	 What did we do? Reviewed internal protections : Safeguards limited. Internal capability limited Buy-in from Main Board Director. 3 professional organisations tendered. Chose Source8 for deep down review. Ensure all divisions open for interviews.
 Project overview Identify inherent cybersecurity risk by assessing complexity & business criticality of the technology. Evaluate maturity of current controls and effectiveness. Analyse likelihood & quantify impact. Produce rec's to align desired residual cyber risk with MAN's tolerance. 	 Recommendations Loss scenarios completed. 42 Rec's split 0-3, 3-6 & 6-12 months. Lot of low hanging fruit (password/m. sticks). Actions New Cyber Employee. Cyber committee - board level. Monthly reviews and reporting of rec's. Risk & Insurance on Committee.



Stuart Peck

Head of Cyber Security Strategy

ZeroDayLab



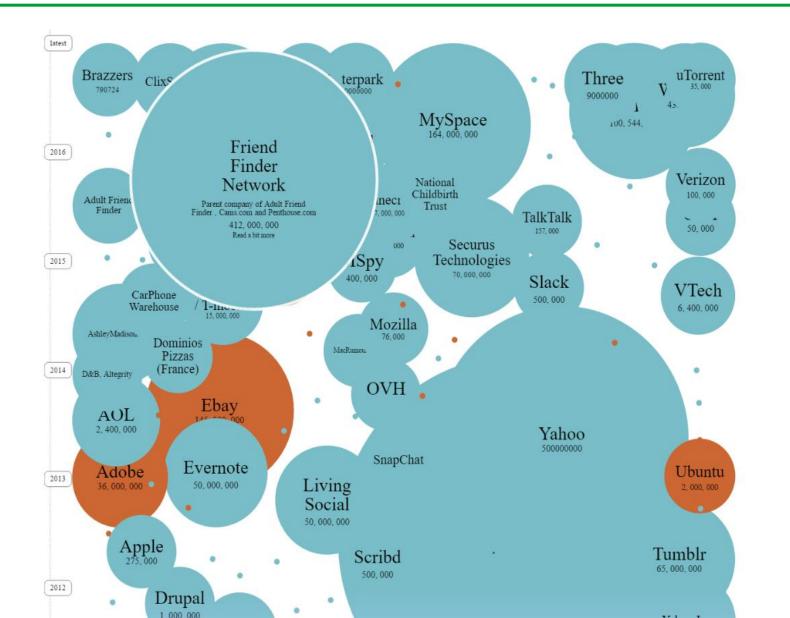
- Stuart Peck
- Head of Cyber Security Strategy responsible for Threat Intelligence, Research, and Education programs for ZeroDayLab globally
- Passionate about educating organisations and executives on the latest attacker trends facing businesses today and how to combat them
- 13 years industry experience in Information Security, known for being a subject matter expert on the Dark Web and Open Source Intelligence (OSINT)
- Creator of award winning "situational threat awareness" training program







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21

YAHOO! **1** Billion Records **AdultFriendFinder**[®] **419 Million Records** 👥 myspace[®] Linked in **360 Million Records 164 Million Records** a place for friends ® dailymotion **85 Million Records 152 Million Records** Adobe

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Credit cards



Threat Landscape... Dark Web

How much does information cost on the dark web?

There is a huge variety of stolen data for sale on the dark web, including both financial information and login details. It is also the place fraudsters go to buy the tools used to commit identity theft. Below, we look at the average price of various types of personal information for sale

Cyber Criminals use to commit more crime/fraud such as Vishing, or identity theft.

			dark web market current going rat PII is \$200- or 0.1
<u> </u>)	£21	ee
	Visa Premium with user data	£35-42	igi
	1	£35-42	na rk
		£11	S
111	Visa Classic & Mastercard with user data	£28	
		£28	ilo ne
orean cards			

Recent prices

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by passwords ion t place. The te for 1 persons 14 in BitCoins





HXT service, elite hacking. Keep it simple, do it quick.

email: hxt@cock.li

Job	Price
Compromise facebook account*	\$120
Compromise email account*	\$175
Compromise online banking*	\$250
DDoS basic (1 week)	\$125
DDoS advanced (1 week)	\$250
Compromise vulnerable sites	\$250
500 Fresh botnet installs	\$500
Custom ransomware	\$700+
Our crypter service	\$50

PROFIT FROM PETYA & MISCHA!

HIGH INFECTION RATES

PETYA comes bundeled with his little brother MISCHA. Since PETYA can't do his evil work without administrative privileges, MISCHA launches when those can't be obtained.

PETYA does a low level encryption of the disk, which is a completly new technique in ransomware. MISCHA acts as an traditional file-based ransomware. For more informations see our FAQ.

PROVABLY FAIR

As proressional cybercriminals, we know that you can't trust anyone. So we developed a payment system based on multisig addresses, where no one (including us) can rip you off.

For more informations see our FAQ.

FREE CRYPTING SERVICE

We provide you FUD crypted binarys, and that 24/7. No need to buy shifty crypters or waste your money on expensive crypting services.

Additionally, for our distributors with the highest volume, we provide a private stub. That means a even more stable infection rate. For more informations see our FAQ.

EASY ADMINISTRATION

Administrative Tasks like viewing the latest infections, setting the ransom price or recrypting your binary can be done with an clean and simple web-interface.

We also have an qualified support, which will help you with any problems. Since this project is still in beta, we are open for any bug-report or featurerequest.

PAYMENT SHARE

Your share on the payments you have generated is calculated with the following table. The more volume you generate in one week, the more share on the profit you get.

Example: If you generate a volume of 125 BTC, you get a payout of 106.25 BTC. That are at the moment about 45,000 USD! To get a volume over 100 BTC is not a big deal with the right technique!

Volume/Week	Share
<5 BTC	25%
<25 BTC	50%
<125 BTC	75%
>=125 BTC	85%

THESHADOWBROKERS.BIT

ANNOUNCEMENTS

THESHADOWBROKERS MONTHLY DUMP SERVICE:

JUNE 2017

—BEGIN PGP SIGNED MESSAGE— Hash: SHA1

Welcome to TheShadowBrokers Monthly Dump Service - June 2017

Q: How do I subscribe and get the next theshadowbrokers' dump (June 2017)?

#1 - Between 06/01/2017 and 06/30/2017 send 100 ZEC (Zcash) to this z_address:

zcaWeZ9j4DdBfZXQgHpBkyauHBtYKF7LnZvaYc4p86G7jGnVUq14KSxsnGmUp7Kh1Pgivcew1qZ64iEeG6vobt8wV2siJiq

#2 - Include a "delivery email address" in the "encrypted memo field" when sending Zcash payment

#3 – If #1 and #2 then a confirmation email will be sent to the "delivery email address" provided

Hans Allnutt

Partner

DAC Beachcroft LLP

DAC beachcroft

The Legal Adviser

- Hans Allnutt
- Partner at DAC Beachcroft and leads their Cyber & Data Risk team
- Advises clients on the legal aspects of cyber, data breach and privacy







Legal aspects of cyber and data risk

A variety of legal exposures

Service Interruption

- Contractual breaches
- Regulatory (NIS Dve)

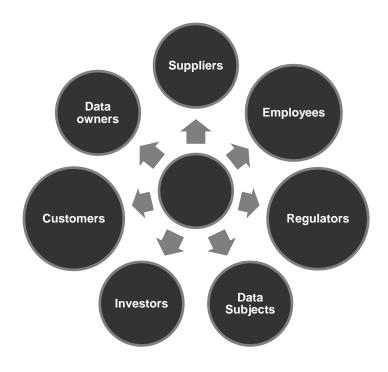
Affected data & information

- Duties of confidentiality
- Regulatory (Data Protection -GDPR, PECR, FCA, PRA)
- Industry Specific (Payment Card, Healthcare)

General Data Protection Reg'n

- 25 May 2018
- Fines 4% Turnover/EUR20m
- Mandatory breach notification

Owed to a variety of stakeholders



GDPR Breach Notification Requirements

Personal Data Breach

A breach of security leading to the accidental or unlawful destruction, loss, alteration, unauthorised disclosure of, or access to, personal data transmitted, stored or otherwise processed.

Notify ICO/DPA

- Unless the personal data breach is <u>unlikely</u> to result in a risk to the rights and freedoms of natural persons
- Notification must be made within <u>72 hours</u> of the organisation becoming aware of it.

Notify Data Subjects

- All organisations must notify data subjects of breaches that are likely to result in <u>a high</u> <u>risk</u> to the rights and freedoms of individuals.
- Notification to individuals must be made <u>without undue delay</u>.

Accountability

- Document <u>any</u> personal data breaches, comprising the facts relating to the personal data breach, its effects and the remedial action taken, to enable supervisory authority to verify compliance.
- Failure to notify can result in a fine of up to EUR10m or 2% of annual global turnover.



Scenario 1

Ransomware

Scenario 1 – Ransomware

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Scenario 1 – Ransomware

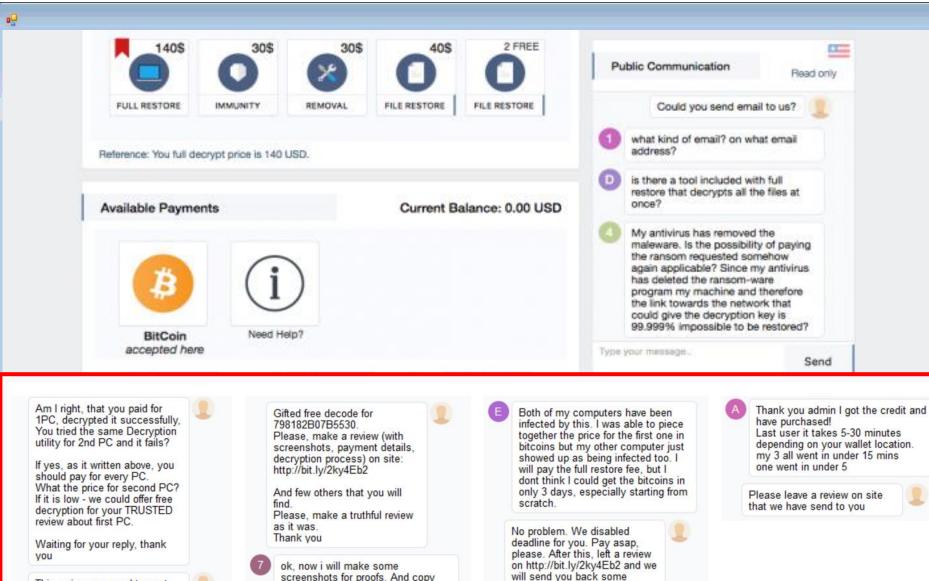
This review you need to post

http://bit.ly/2ky4Eb2

on link

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23



bitcoins

link to site. Thanks.

Source Bleeping computers

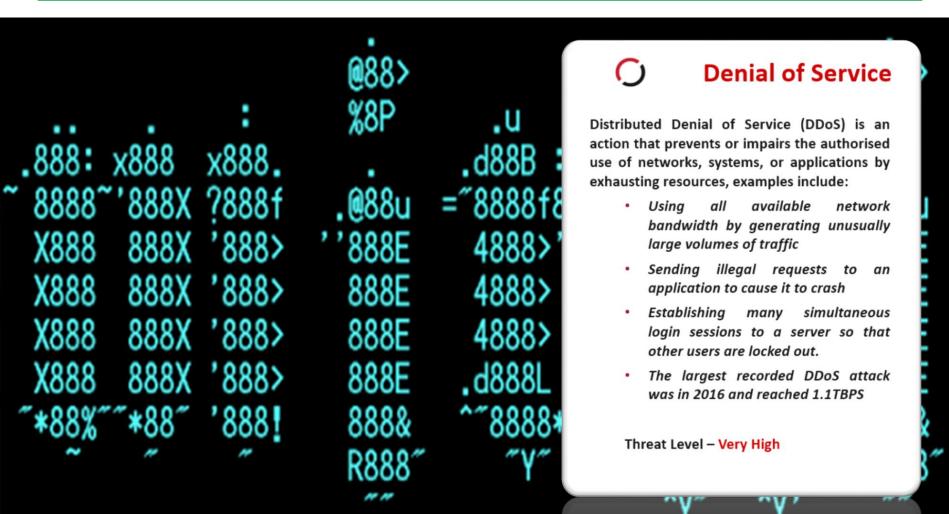


Scenario 2

Distributed Denial of Service (DDoS) attack

Scenario 2 – DDoS attack

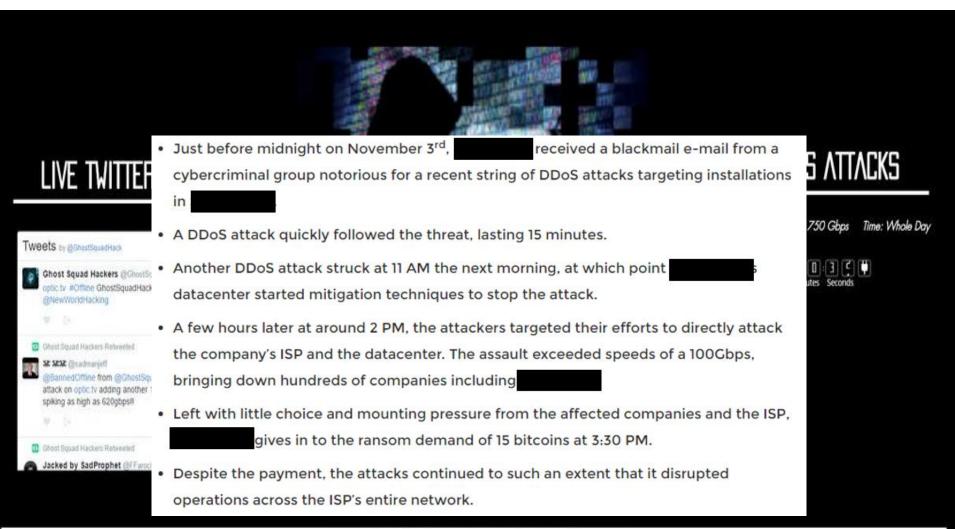
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Threat Level – Very High

Scenario 2 – DDoS attack

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New World Hackers + Ghost Squad Hackers #2016

0010201



Scenario 3

Data / Intellectual Property Theft

O IP/Data Theft

With the accessibility to hacking tools and a burgeoning underground market place, it is no wonder theft of IP/PII Data is on the rise:

- Cyber Criminal and State level threat actors are the most likely perpetrators data theft.
- 80% of companies surveyed in Europe are worried about insider threats
- Malware and weak passwords are the most common attack vectors
- Most common data stolen:
 - Credit Cards
 - Customer Data
 - Intellectual Property

Threat Level - Very High

Threat Level - Very High

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011101000010

Dear all @ XXXXX: And whom this may concern

You might want to pass this message on to the right person quickly.

We are thedarkoverlord (we've recently hacked Netflix, Disney, many healthcare companies, banks etc.), and found your security to be lacking. We were able to compromise your systems over the last few days and have managed to extract over 500,000 customer records from your sites.

We were also able to compromise your Gmail data and have lots of sensitive internal emails and HR conversations- which trust us makes for GREAT reading!

This is no joke! Here is a sample so you can validate our claims http://pastebin.com/LUMVMS

We will start to leak this information to the press over the next few hours. If you do not pay us **150 Bitcoins** to this Wallet **1QAc9S5EmycqjzzWDc1yiWzr9jJLC8sLiY** - then we will publicly name and shame you to the press.

If you do not pay us in the next few hours the price will go up by **10 Bitcoins per hour!!** We will also be selling your customer data on all the darknet market places at the end of the day. This will get considerably worse for you if you don't pay us.

As always, we are open to communication and discussion with all of our valued business partners, but if you contact the police then we will immediately leak the data.

Until next time, thedarkoverlord Professional Adversary World Wide Web, LLC

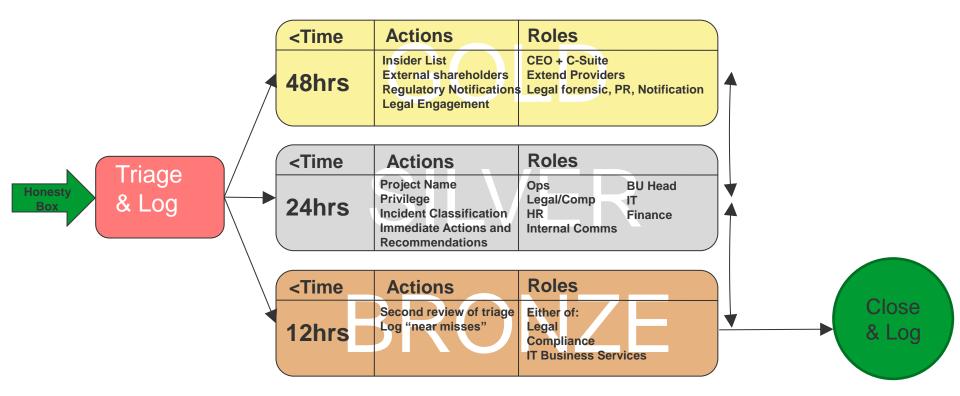
Data Breach Planning



- Who needs to know (roles)?
- Who does not need to know (does the CEO need to know everything)?
- What are the escalation triggers?
- How will you communicate (email, phone, alternative)?
- Who is responsible for making decisions and do they have authority?
- How will they make decisions what information do they need?
- When does this all need to be done by?



Internal Data Breach Plan





Final Thoughts

"One of the things I say to people is that [when you're] employing 70,000 people worldwide, providing public services, there is one thing that I can guarantee you:

24 hours a day, 365 days a year, someone somewhere is doing something really stupid."

Nicholas Soames OBE, Serco plc