



**4 WAYS TO REDUCE RISK
FROM YOUR SUPPLY CHAIN**

Jeremy Hendy, CEO

WELCOME!

- › Supply Chain risks – why should I care?
- › Supply Chain Impersonation
- › Exploit & vulnerability monitoring
- › Ransomware in the supply chain
- › Detecting and tracing the source of supply chain leaks

- › Please post any questions in the Q&A of GoToWebinar as we go along!

NEWS

Home | Cost of Living | War in Ukraine | Climate | UK | World | Business | Politics | Culture | Tech

Technology

MOVEit hack: BBC, BA and Boots among cyber attack victims

2 days ago



By Joe Tidy
Cyber correspondent

The BBC, British Airways, Boots and Aer Lingus are among a growing number of organisations affected by a mass hack.

Staff have been warned personal data including national insurance numbers and in some cases bank details may have been stolen.

The cyber criminals broke into a prominent piece of software to gain access to multiple companies in one go.

There are no reports of ransom demands being sought or money stolen.

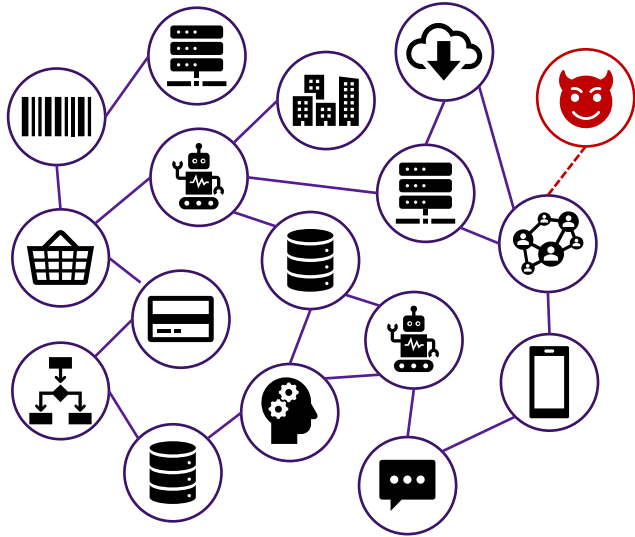
In the UK, the payroll services provider Zellis is one of the companies affected and it said data from eight of its client firms had been stolen.

It would not reveal names, but organisations are independently issuing warnings to staff.

In an email to employees, the BBC said data stolen included staff ID numbers, dates of birth, home addresses and national insurance numbers.

Staff at British Airways have been warned that some may have had bank details stolen.

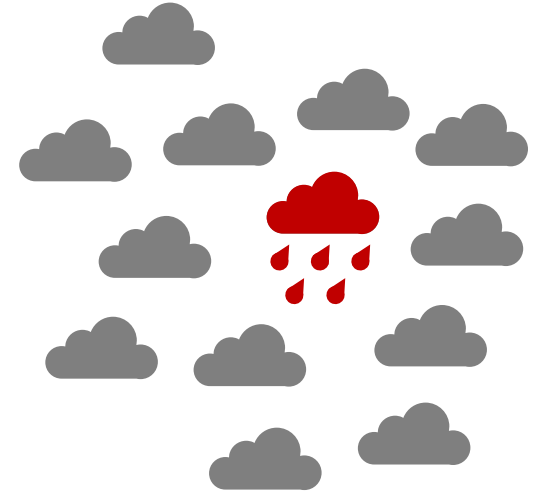
“DEFENDING THE PERIMETER” IS NO LONGER GOOD ENOUGH



Complex Supply Chains



Cloud Apps



Shadow IT

SIGNIFICANT CHANGES TO THE THREAT LANDSCAPE



Small & mid-size enterprises are now cost-effective targets for automated cyberattacks

<input type="checkbox"/>	vcitibankonline.com
<input type="checkbox"/>	citibanlkonline.com
<input type="checkbox"/>	citibanksn.com
<input type="checkbox"/>	citibangk.com

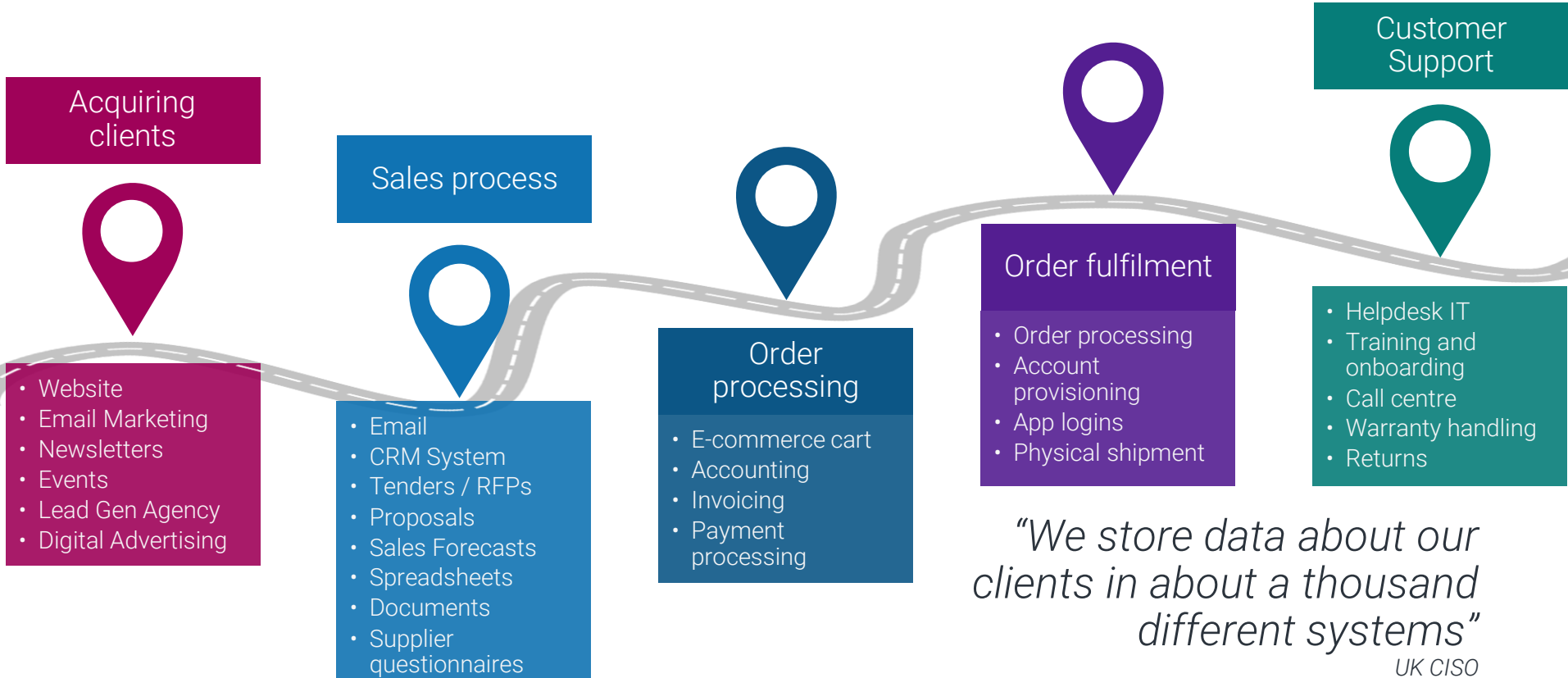
Phishing, Fraud & Impersonation are on the rise

The screenshot shows a dark web marketplace interface with a header 'LOCKBIT 3.0' and 'LEAKED DATA'. It displays several listings for leaked data, each with a title, status, and a brief description.

Listing Title	Status	Description
cbelow.com	19D 14h 40m 15s	Cohen Buchan Edwards LLP is a full service law firm providing practical, client-oriented service that delivers results. For more than 40 years, an exceptional legal
crossinggroup.com	PUBLISHED	Your current trajectory is tragic for yourselves. Refusal to pay will result in an escalation you'd be wise to avoid. We recommend you'd change negotiators.
buckprop.com	18D 23h 41m 22s	Buckingham Properties is a real estate developer and property management company located in Rochester, New York. Our diverse portfolio includes office.
credicoop.coop.py	14D 20h 56m 53s \$ 200000	Nuestra central de cooperativas en Paraguay tiene como misión promover el desarrollo económico y social de nuestros asociados, fomentando la solidaridad, la
vdbassocies.fr	14D 20h 50m 28s \$ 400000	Cabinet d'expertise comptable à Amiens. Nous intervenons dans tous les domaines pour accompagner les dirigeants d'entreprises
nycollege.edu	10D 16h 40m 59s \$ 200000	New York College of Health Professions was founded by a group of dedicated holistic health care providers more than 40 years ago and is proud of its status today

Ransomware Groups now Leak & Auction Data on Dark Web

ALL STAGES OF THE CUSTOMER JOURNEY ARE UNDER THREAT



AND DON'T FORGET YOUR “BACKOFFICE” SUPPLY CHAIN...

HR & Finance

- Payroll
- Pension
- Healthcare
- Benefits
- Accounts

Professional advisers

- Legal
- Accountants
- Patent attorneys
- Investors

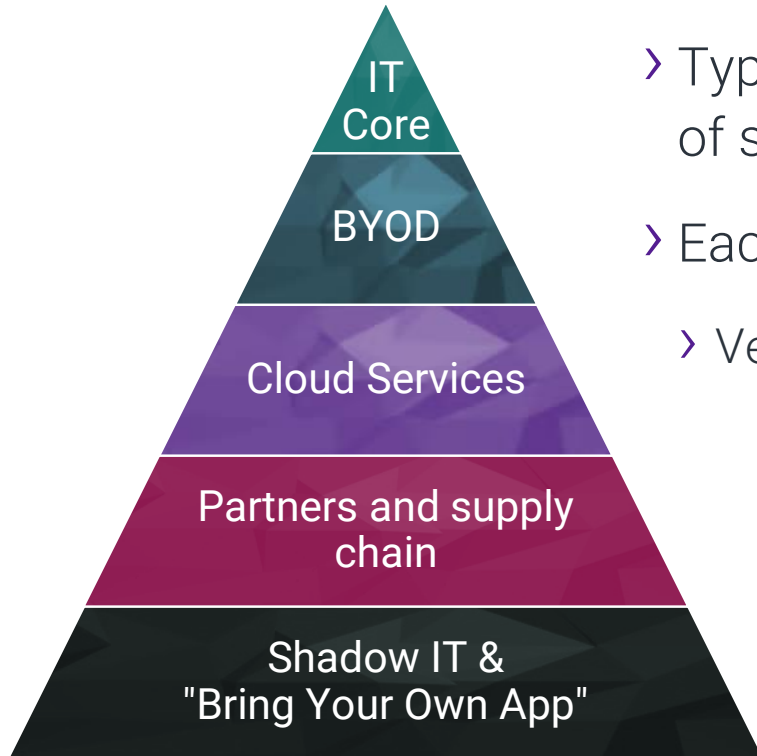
R&D

- Third party libraries
- Code repos
- Ticketing systems
- IT subcontractors

Third party integrations

- Business Intelligence
- Report generation
- Chatbots
- Knowledge base
- Analytics

A PYRAMID OF RISK



- › Typical enterprise : hundreds or thousands of systems and sites
- › Each partner has their own pyramid
- › Vendors of Vendors : Fourth party risks

MOVEIT & ZELLIS – A FOURTH-PARTY VULNERABILITY

About

With over 50 years' experience and almost 2,000 employees, Zellis provides payroll, HR and managed services to UK and Ireland based companies with over 500 employees. We are the largest business of this nature in the UK counting a third of the FTSE 100 as customers, serving over 5 million of our customers' employees and processing in excess of 60 million payslips a year.

We are also the people behind ResourceLink, the award winning Payroll and HR software.

Zellis in numbers



5m

employees paid every month



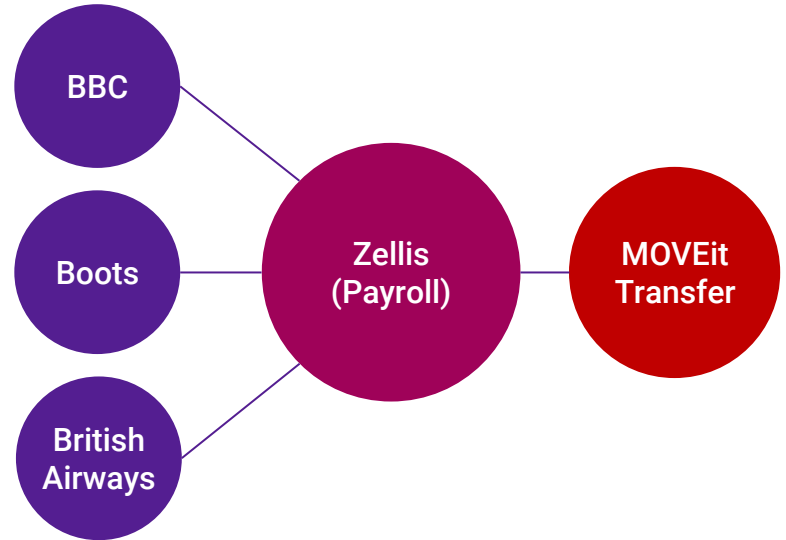
£28bn+

paid each year through our Managed Services



42%

of the FTSE 100 are Zellis customers



IT'S NOT JUST YOUR SUPPLIERS...



“One of our major customers has been hit by ransomware. They are telling us everything's fine, but we want to know what the ransomware group are saying.

The customer owes us £4.5M - our board are really worried about how long the customer will be out of action, and whether we're going to get paid



- UK CISO

DIGITAL OPERATIONAL RESILIENCE ACT (DORA)

- › New EU legislation (EU 2022/2554) covering the financial sector
- › Came into force January 2023, will apply from 17 January 2025
- › Regulatory requirement for **“the sound management of ICT third-party risk”**

1. In order to achieve a high common level of digital operational resilience, this Regulation lays down uniform requirements concerning the security of network and information systems supporting the business processes of financial entities as follows:

(a) requirements applicable to financial entities in relation to:

- (i) information and communication technology (ICT) risk management;
- (ii) reporting of major ICT-related incidents and notifying, on a voluntary basis, significant cyber threats to the competent authorities;
- (iii) reporting of major operational or security payment-related incidents to the competent authorities by financial entities referred to in Article 2(1), points (a) to (d);
- (iv) digital operational resilience testing;
- (v) information and intelligence sharing in relation to cyber threats and vulnerabilities;

(vi) measures for the sound management of ICT third-party risk;

(b) requirements in relation to the contractual arrangements concluded **between ICT third-party service providers** and financial entities;

(c) rules for the establishment and conduct of the Oversight Framework for **critical ICT third-party service providers** when providing services to financial entities;

PROACTIVE APPROACHES TO SUPPLY CHAIN RISK MANAGEMENT

Questionnaires

- Manual
- Time consuming
- Generic
- Static

Staff education

- Reminders
- "Show and tell"

Risk Scoring Tools

- Easy to digest
- Limited scope
- Inaccurate

DRP / OSINT Tools

- Early warning
- Tailored threat intelligence
- Data breach detection

Increasingly Proactive



RISK SCORING PLATFORMS

RiskXchange

- Your Overview
- Community
- Alerts
- Reports
- Scan Comparison
- Settings

CYBER RISK RATING

- Risk Categories

VENDOR RISK MANAGEMENT

- Assessments
- Assessment Manager
- Connections
- Groups
- Requests
- Documents
- Vendor Comparison

ATTACK SURFACE MANAGEMENT

- Network Footprint
- Technology Profiles

Skurio
View profile

Search for a company... 🗨️ 🔔 ⊕

SKURIO Dashboard

My Score

RX Score
808
→ 0

Score Performance

● Company Score ● Technology Avg

C Issues Total
0 - 0

H Issues Total
17 - 0

M Issues Total
89 ↑ 5

L Issues Total
5 - 0

Top Issues

Severity	Category	Notice	Hosts
High Risk	SSL / TLS	Server supports one or more insecure SSL protocols	16 Hosts
High Risk	SSL / TLS	SSL certificate name mismatch	1 Hosts
Medium Risk	Application Security	"X-Frame-Options" header not found	8 Hosts
Medium Risk	SSL / TLS	Weak cipher suites detected	23 Hosts

Supply Chain Impersonation Attacks

LINK IMPERSONATION TECHNIQUE

Private & Confidential



Sunday, 4 June 2023 at 21:17



DocSend <info@bellnet.ca>

To: Jeremy Hendy

This message is high priority.

[EXTERNAL]

This E-mail was sent from "skurioIMC1500"(IM C1500).

Scan Date: 06.04.2023 13:15:04

Queries to: jeremy.hendy@skurio.com

<https://www.skurio.com/ck/a?!&&p=b1685dc2cfed6c5dJmltdHM9MTY4NTU3NzYwMCZpZ3VpZD0wNjJhZmU2NC0yNTg0Y3NjgtMTJmMi1lZDQ3MjRhZTY2MzImaW5zaWQ9NTE1Nw&ptn=3&hsh=3&fclid=062afe64-2587-6768-12f2-ed4724ae6632&u=a1aHR0cHM6Ly9sb3BlemNhczRyb21pbC5jb20v&ntbFwvy4De15#amVyZW15>

Queries to: jeremy.hendy@skurio.com
<https://www.skurio.com/ck/a?!&&p=b1685dc2cfed6c5dJmltdHM9MTY4NTU3NzYwMCZpZ3VpZD0wNjJhZmU2NC0yNTg0Y3NjgtMTJmMi1lZDQ3MjRhZTY2MzImaW5zaWQ9NTE1Nw&ptn=3&hsh=3&fclid=062afe64-2587-6768-12f2-ed4724ae6632&u=a1aHR0cHM6Ly9sb3BlemNhczRyb21pbC5jb20v&ntbFwvy4De15#amVyZW15>

Original URL:
<https://fwvy4de15.vk.com/away.php?to=https%3A%2F%2Fwww.bing.com%2Fck%2Fa%2F%21%26%26p%3Db1685dc2cfed6c5dJmltdHM9MTY4NTU3NzYwMCZpZ3VpZD0wNjJhZmU2NC0yNTg0Y3NjgtMTJmMi1lZDQ3MjRhZTY2MzImaW5zaWQ9NTE1Nw%26ptn%3D3%26hsh%3D3%26fclid%3D062afe64-2587-6768-12f2-ed4724ae6632%26u%3Da1aHR0cHM6Ly9sb3BlemNhczRyb21pbC5jb20v%26ntbFwvy4De15%23amVyZW15LmhlibmR5QHNRdXJpbj5jb20=>

Original URL:
<https://fwvy4de15.vk.com/away.php?to=https%3A%2F%2Fwww.bing.com%2Fck%2Fa%2F%21%26%26p%3Db1685dc2cfed6c5dJmltdHM9MTY4NTU3NzYwMCZpZ3VpZD0wNjJhZmU2NC0yNTg0Y3NjgtMTJmMi1lZDQ3MjRhZTY2MzImaW5zaWQ9NTE1Nw%26ptn%3D3%26hsh%3D3%26fclid%3D062afe64-2587-6768-12f2-ed4724ae6632%26u%3Da1aHR0cHM6Ly9sb3BlemNhczRyb21pbC5jb20v%26ntbFwvy4De15%23amVyZW15LmhlibmR5QHNRdXJpbj5jb20=>
Click to follow link.

SUPPLY CHAIN IMPERSONATION EXAMPLE

2023/2024 Vendor EOI - Inbox - jeremy.hendy@skurio.com

Delete Archive Move Flag Mark as Unread Sync Block Report

Unverified 2023/2024 Vendor EOI

noreply@salesforce.com <noreply@salesforce.com> on behalf of
vendor@aramco-vendor.net <vendor@aramco-vendor.net>

Thursday, 1 June 2023 at 10:04

[EXTERNAL]

Dear Sir/Madam,

Greetings of the Day,

We are extending an invitation to your company to become a vendor/supplier for ARAMCO and collaborate on the ongoing Saudi Arabia National Oil Company (ARAMCO) 2023/2024 Projects.

If Interested, confirm by requesting the Vendor Questionnaire and Expression of Interest (EOI) Applications process.

Looking forward to a quick response.

Kind Regards,

Brian Anthony
Vendor Registration Unit

vendor@aramco-vendor.net

PHISHY DOMAIN REGISTRATIONS IMPERSONATING “ARAMCO”

Domain	Risk	Match Position	Match Context	Detected	Priority	
<input type="checkbox"/> aramco.digital	Critical	Direct	[aramco]	2022-01-10	Unspecified	Details
<input type="checkbox"/> aramco-aevendors.com	High	Prefix	[aramco]	2023-05-01	Unspecified	Details
<input type="checkbox"/> aramco-vendor.net	High	Prefix	[aramco]	2023-05-07	Unspecified	Details
<input type="checkbox"/> aramco-suppliers.net	High	Prefix	[aramco]	2023-05-07	Unspecified	Details
<input type="checkbox"/> aramco-trading.com	High	Prefix	[aramco]	2022-01-15	Unspecified	Details
<input type="checkbox"/> aramco-uae.org	High	Prefix	[aramco]	2023-04-21	Unspecified	Details
<input type="checkbox"/> process-aramco.com	High	Suffix	[aramco]	2023-05-18	Unspecified	Details
<input type="checkbox"/> saudiarabia-aramco.com	High	Suffix	[aramco]	2023-05-05	Unspecified	Details
<input type="checkbox"/> aramco-ar.com	High	Prefix	[aramco]	2023-05-29	Unspecified	Details

AGAIN THIS WEEK – SAME TACTICS, DIFFERENT DOMAIN

The image shows a screenshot of an email and a news article. The email is from 'noreply@salesforce.com' on behalf of 'ADNOC GROUP <adnoc@epc-ae.com>'. The subject is 'Notice for vendors registration'. The email content includes an external notice for vendors registration for 2023 projects, contact information for Mr. Robert Carlos, and the address of the Abu Dhabi National Oil Company (ADNOC). The news article is from 'Oil&Gas' and is titled 'ADNOC awards multi-million EPC contracts for Abu Dhabi's Bab and Asab fields'. The article is dated June 5, 2023, and includes a share button and social media icons. The ADNOC logo is visible in the bottom right corner of the news article image.

Notice for vendors registration - Inbox • jeremy.hendy@skurio.com

Delete Archive Move Flag Mark as Unread Sync Block Report

ADNOC GROUP <adnoc@epc-ae.com>

Unverified Notice for vendors registration

noreply@salesforce.com <noreply@salesforce.com> on behalf of ADNOC GROUP <adnoc@epc-ae.com>

Tuesday, 6 June 2023 at 11:06

[EXTERNAL]
Attention;

Notice for vendors registration and intending partners for 2023 projects as we continue the development of Abu Dhabi National Oil Company Tower, West Corniche Road, P.O. Box: 898 United Arab Emirates.

These projects is open for all companies around the world, if you have intention to participate on the vendors registration process, Please (Adnoc@epc-ae.com)

Note: We shall send you the attached vendor and contractor assessment Questionnaire/Acknowledgement Letter which includes the instructions for the submission of required documents for this prequalification process.

Kind Regards,
Mr. Robert Carlos,
Vendor Coordinator Group Procurement & Contracts Shared Services Center
Abu Dhabi National Oil Company (ADNOC)
Head Quarters Building - Corniche Rd -
P.O. Box : 898. Abu Dhabi
United Arab Emirates

Oil&Gas

News Upstream Downstream Technology People Analysis Events More Lists

ADNOC awards multi-million EPC contracts for Abu Dhabi's Bab and Asab fields

by Faiza Rizvi | June 5, 2023 | SHARE f t e in

ADNOC

DEFENDING AGAINST SUPPLY CHAIN IMPERSONATION ATTACKS

- › Educate staff on the risks
 - › “Show and tell” examples – monthly meetings or company IM
- › Set up typosquatting monitoring for key supply chain partners
 - › Protect your staff
 - › Proactively blocklist any similar new domains at your email gateway
 - › Can be automated / orchestrated
- › Block access to any Newly Registered Domains at your endpoints
 - › Optional setting in Microsoft Defender (Web Content Filtering)
 - › Balance of usability vs security
 - › Bad actors are often waiting weeks or months to weaponise a domain

Supply Chain Ransomware Attacks

SUPPLY CHAIN RANSOMWARE ATTACKS

› New modus operandi

1. Break in
2. Steal data
3. Lock machines
4. Publish & extort
 - › Free Samples
 - › Auction your data
 - › Publish anyway

The screenshot displays a website titled "LEAKED DATA" with a "LOCKBIT 3.0" logo. It features six data entries arranged in a 2x3 grid. Each entry includes a company name, a status bar (e.g., "19D 14h 40m 15s" or "PUBLISHED"), a brief description of the company, and a timestamp with a view count.

Company	Status	Description	Updated	Views
cbelaw.com	19D 14h 40m 15s	Cohen Buchan Edwards LLP is a full service law firm providing practical, client-oriented service that delivers results. For more than 40 years, an exceptional legal	Updated: 01 Jun, 2023, 05:05 UTC	282
crossinggroup.com	PUBLISHED	Your current trajectory is tragic for yourselves. Refusal to pay will result in an escalation you'd be wise to avoid. We recommend you to change negotiators.	Updated: 31 May, 2023, 20:02 UTC	560
buckprop.com	18D 23h 41m 22s	Buckingham Properties is a real estate developer and property management company located in Rochester, New York. Our diverse portfolio includes office.	Updated: 31 May, 2023, 14:06 UTC	772
credicoop.coop.py	14D 20h 56m 53s \$ 200000	Nuestra central de cooperativas en Paraguay tiene como misión promover el desarrollo económico y social de nuestros asociados, fomentando la solidaridad, la	Updated: 30 May, 2023, 19:21 UTC	1352
vdbassocies.fr	14D 20h 50m 28s \$ 400000	Cabinet d'expertise comptable à Amiens. Nous intervenons dans tous les domaines pour accompagner les dirigeants d'entreprises	Updated: 30 May, 2023, 19:15 UTC	1150
nycollege.edu	10D 16h 40m 59s \$ 200000	New York College of Health Professions was founded by a group of dedicated holistic health care providers more than 40 years ago and is proud of its status today	Updated: 30 May, 2023, 19:05 UTC	1286

Discover > Search > Message Details

What's Inside

[◀ Back](#)

Overview

🕒

Email Addresses

(0 of 7) 🕒

IP Addresses

(0 of 401) 🕒

Bank Cards

(0 of 0) 🕒

Matched Snippets

2 snippets

TO EDUCATE COMPANIES WHO USE

1. PROGRESS **MOVEIT**- IF YOU HAD **MOVEIT** SOFTWARE

2. CONTINUE TO STEP 2

RIOTINTO.COM
INVESTQUEBEC.COM
MEDEXHCO.COM
NEWEUROPEANOFFSHORE.COM
GALDERMA.COM
AVIDXCHANGE.COM
SAE.ORG DEAR COMPANIES.

CLOP IS ONE OF TOP ORGANIZATION OFFER PENETRATION TESTING SERVICE AFTER THE FACT.
THIS IS ANNOUNCEMENT **TO EDUCATE COMPANIES WHO USE PROGRESS MOVEIT** PRODUCT THAT CHANCE
IS THAT WE DOWNLOAD ALOT OF YOUR DATA AS PART OF EXCEPTIONAL EXPLOIT. WE ARE THE ONLY ONE
WHO PERFORM SUCH ATTACK AND RELAX BECAUSE YOUR DATA IS SAFE.
WE ARE TO PROCEED AS FOLLOW AND YOU SHOULD PAY ATTENTION TO AVOID EXTRAORDINARY
MEASURES TO IMPACT YOU COMPANY.

IMPORTANT! WE DO NOT WISH TO SPEAK TO MEDIA OR RESEARCHERS. LEAVE.

STEP 1 - IF YOU HAD MOVEIT SOFTWARE CONTINUE TO STEP 2 ELSE LEAVE.

STEP 2 - EMAIL OUR TEAM UNLOCK@RSV-BOX.COM OR UNLOCK@SUPPORT-MULT.COM

STEP 3 - OUR TEAM WILL EMAIL YOU WITH DEDICATED CHAT URL OVER TOR

WE HAVE INFORMATION ON HUNDREDS OF COMPANIES SO OUR DISCUSSION WILL WORK VERY SIMPLE

STEP 1 - IF WE DO NOT HEAR FROM YOU UNTIL JUNE 14 2023 WE WILL POST YOUR NAME ON THIS PAGE

STEP 2 - IF YOU RECEIVE CHAT URL GO THERE AND INTRODUCE YOU

STEP 3 - OUR TEAM WILL PROVIDE 10% PROOF OF DATA WE HAVE AND PRICE TO DELETE

STEP 4 - YOU MAY ASK FOR 2-3 FILES RANDOM AS PROOF WE ARE NOT LYING

STEP 5 - YOU HAVE 3 DAY TO DISCUSS PRICE AND IF NO AGREEMENT YOU CUSTOM PAGE WILL BE
CREATED

STEP 6 - AFTER 7 DAYS ALL YOU DATA WILL START TO BE PUBLICATION

STEP 7 - YOU CHAT WILL CLOSE AFTER 10 NOT PRODUCTIVE DAY AND DATA WILL BE PUBLISH

WHAT WARRANTY? OUR TEAM HAS BEEN AROUND FOR MANY YEARS. WE HAVE NOT EVEN ONE TIME NOT
DO AS WE PROMISE. WHEN WE SAY DATA IS DELETE IT IS CAUSE WE SHOW VIDEO PROOF. WE HAVE NO
USE FOR FEW MEASLE DOLLARS TO DECEIVE YOU.

CALL TODAY BEFORE YOUR COMPANY NAME IS PUBLISH HERE.

FRIENDLY CLOP.

PS. IF YOU ARE A GOVERNMENT, CITY OR POLICE SERVICE DO NOT WORRY, WE ERASED ALL YOUR DATA.

YOU DO NOT NEED TO CONTACT US. WE HAVE NO INTEREST TO EXPOSE SUCH INFORMATION.

SUPPLY CHAIN PARTNERS ARE TAKING A TOUGHER STANCE



“If you’ve suffered a ransomware attack, your customers will pull the plug on you as a supplier, until you can demonstrate that you’ve got your act together.

Many are now insisting on post-breach Dark Web monitoring to make sure that their data is not turning up again or being sold



- UK MSSP

Vulnerability Monitoring

KEYWORD-BASED MONITORING FOR CRITICAL COMPONENTS

Show me posts containing these keywords:

moveit

ANY of these keywords ALL of these

AND also includes these keywords:

"15.0.1"

ANY of these keywords ALL of these

Discover > Search > Message Details

What's Inside [Back](#)

- Overview
- Email Addresses (0 of 1)
- IP Addresses (0 of 0)
- Bank Cards (0 of 0)

Matched Snippets [4 snippets](#)

- . In Progress **MOVEit** Transfer before 2021.0.6
-), 2022.1.5 (14.1.5), and 2023.0.1 (**15.0.1**), a SQL
- injection vulnerability has been found in the **MOVEit**
- unauthenticated attacker to gain access to **MOVEit** Transfer's

unknown 2023-06-02 at 16:17:49 [Save Message](#)

Domain web.nvd.nist.gov [View less meta data](#)

Title CVE-2023-34362

Link <https://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2023-34362>

Language en

Timeline Received - 2023-06-02 16:17

Channel <https://nvd.nist.gov/feeds/xml/cve/misc/nvd-rss.xml>

Content

This vulnerability is currently awaiting analysis. In Progress **MOVEit** Transfer before 2021.0.6 (13.0.6), 2021.1.4 (13.1.4), 2022.0.4 (14.0.4), 2022.1.5 (14.1.5), and 2023.0.1 (**15.0.1**), a SQL injection vulnerability has been found in the **MOVEit** Transfer web application that could allow an unauthenticated attacker to gain access to **MOVEit** Transfer's database. Depending on the database engine being used (MySQL, Microsoft SQL Server, or Azure SQL), an attacker may be able to infer information about the structure and contents of the database, and execute SQL statements that alter or delete database elements. NOTE: this is exploited in the wild in May and June 2023; exploitation of unpatched systems can occur via HTTP or HTTPS.

By selecting these links, you will be leaving NIST webspace. We have provided these links to other web sites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other web sites that are more appropriate for your purpose. NIST does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, NIST does not endorse any commercial products that may be mentioned on these sites. Please address comments about this page to nvd@nist.gov.

Protecting your data throughout the supply chain

OUTSIDE YOUR CONTROL, BUT STILL YOUR RESPONSIBILITY



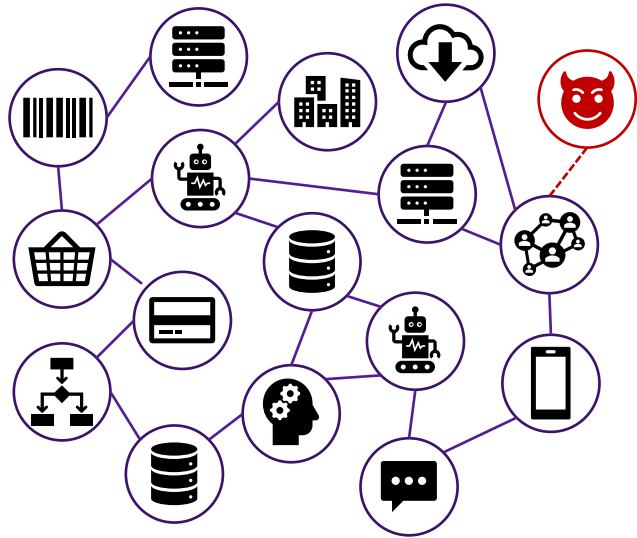
“We’ve just gone through a massive digital transformation project and migrated everything to cloud.

It’s delivered great productivity benefits to the rest of the business - but the board still expect me to maintain the same level of security as before”



- UK CISO

MONITORING & DETECTING LEAKS



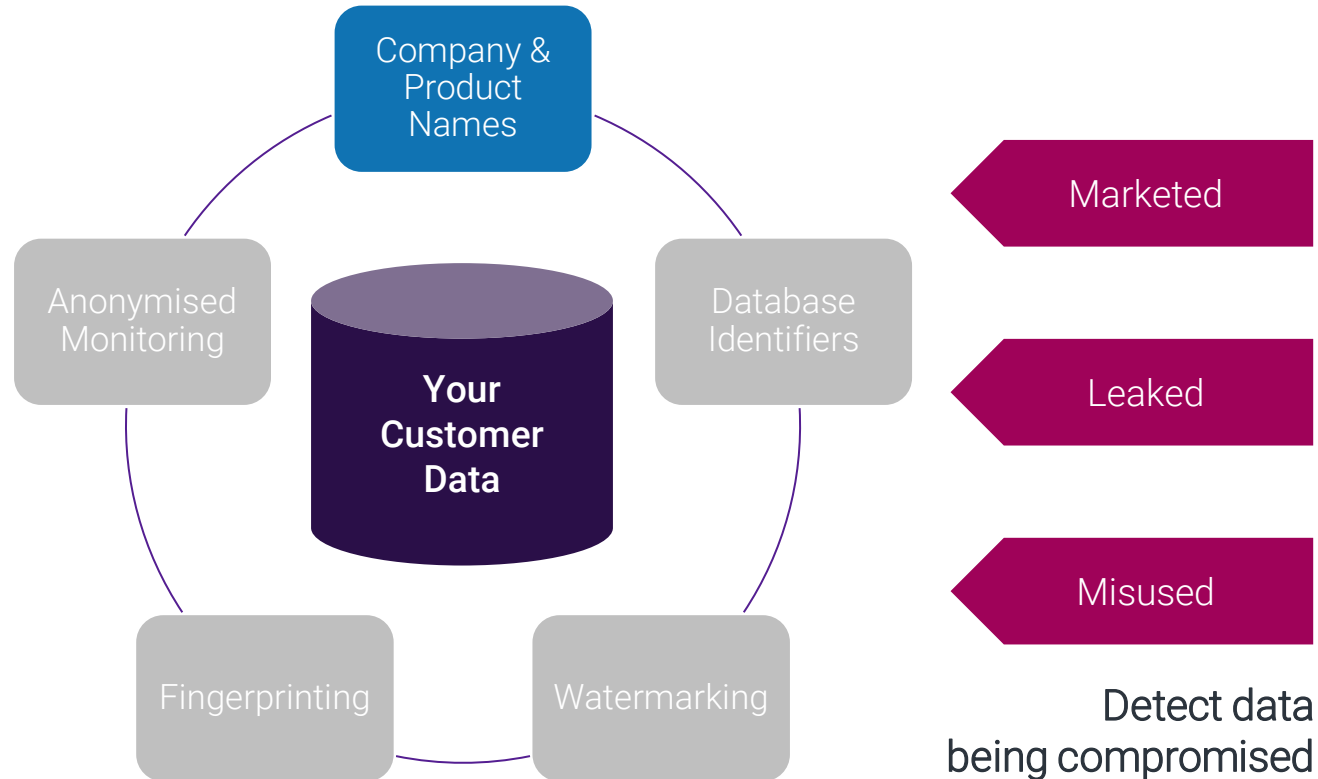
Metadata

- Company names
- Product names
- Database schema
- Field names
- Unique patterns

Data

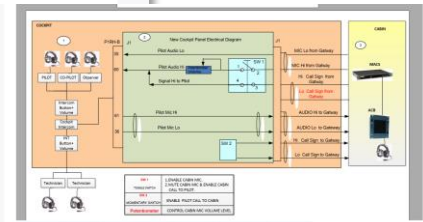
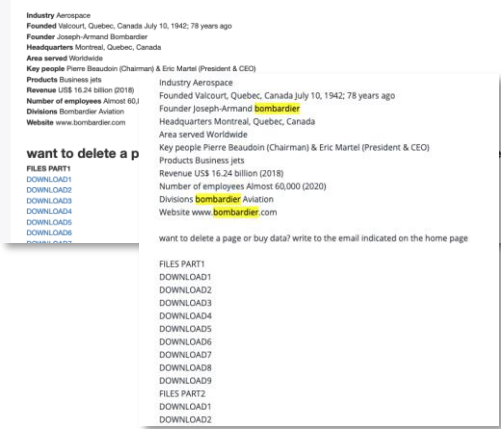
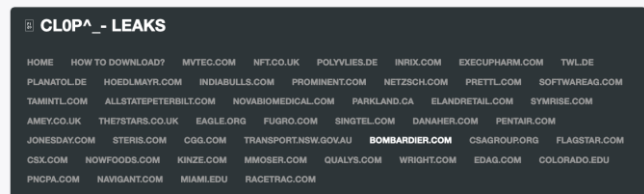
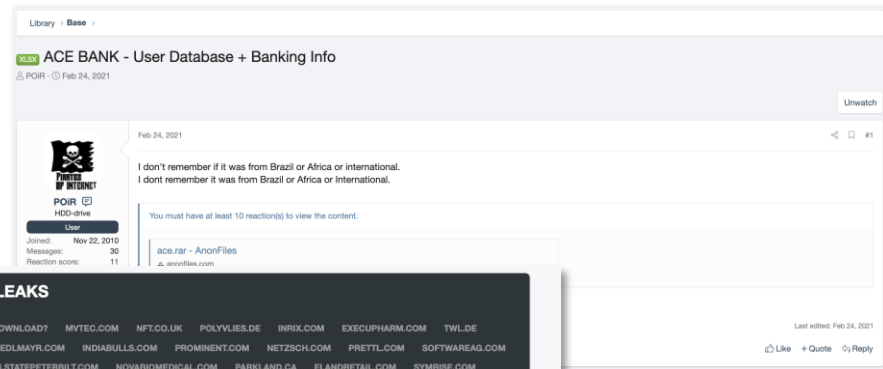
- Watermarks
- Fingerprints

5 TECHNIQUES FOR DETECTING LEAKS OF YOUR DATA

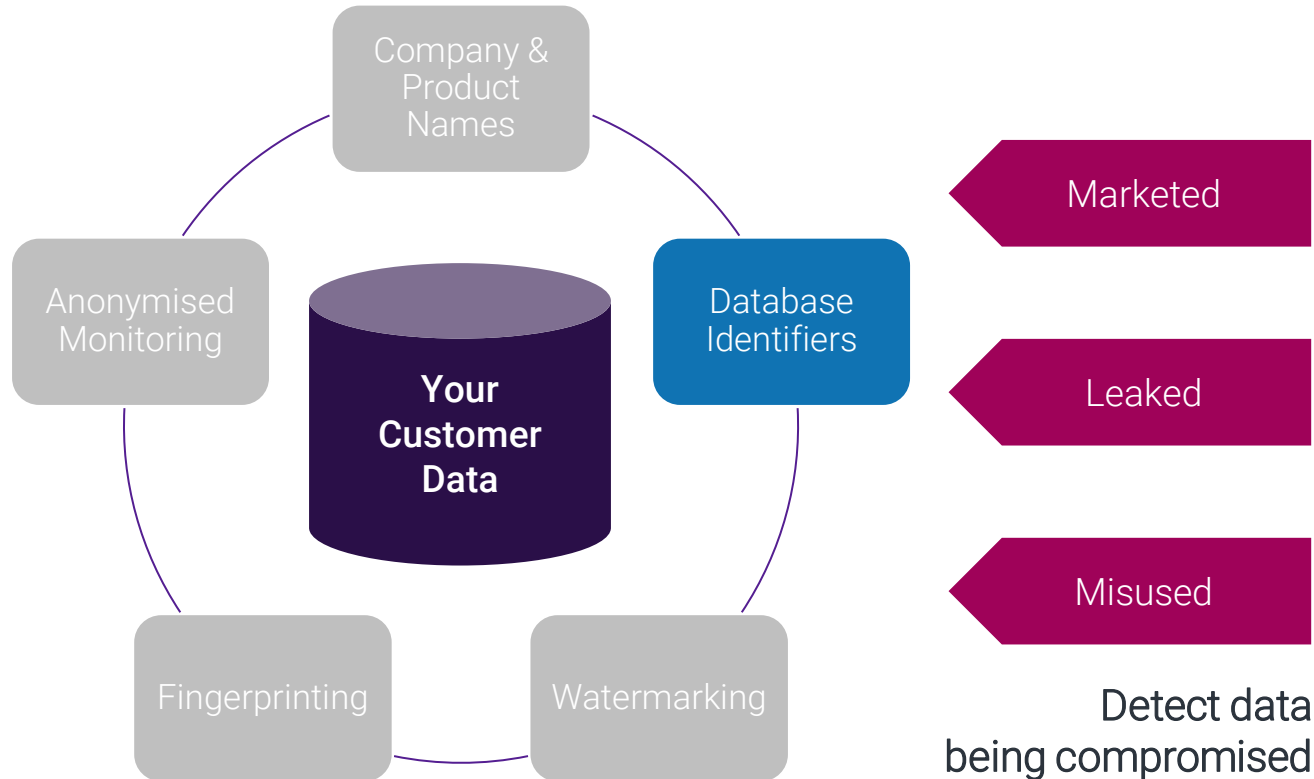


COMPANY AND PRODUCT NAMES

- › Hackers will often use the name of the organisation when marketing, selling, or leaking the data
 - › Forums
 - › Ransomware sites
- › A useful start point for monitoring
 - › Need to include multiple variants, typos, etc
- › Can generate false positives depending on the name
 - › Important to be able to quickly pivot and filter the data to identify relevant posts
- › Could also be a scam : need to assess the credibility & reliability of the “merchant”

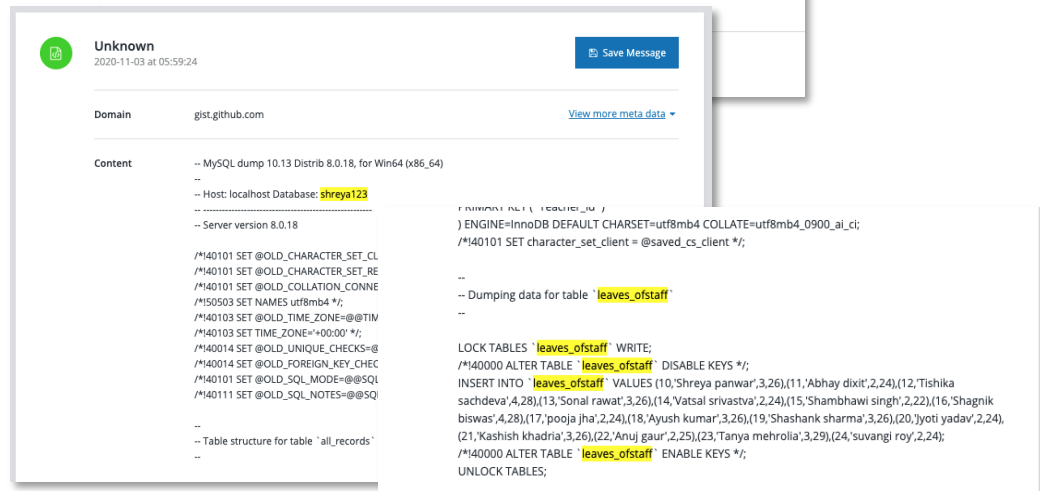
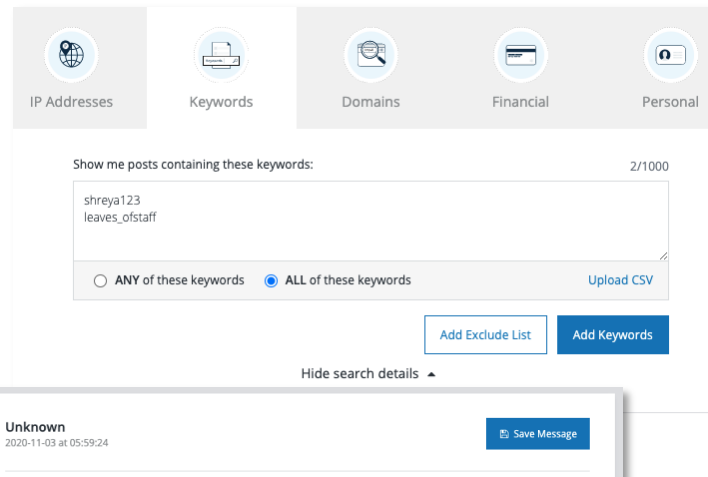


5 TECHNIQUES FOR DETECTING LEAKS OF YOUR DATA



DATABASE IDENTIFIERS

- › Unique strings in your datasets
 - › Database & table names
 - › Server names & IP addresses
- › Can match metadata included in data leak
 - › Database dumps
 - › CSV file exports
 - › Exposed source code
- › No PII in monitored terms



PATTERNS IN YOUR DATA

- › Can monitor for data matching a pattern specific to your organization
 - › Account Numbers
 - › Customer IDs
 - › Reference Numbers
- › Search term is the *pattern*, not the data
 - › R7GB00233874F
 - › R5GB00493549J
 - › RnGBnnnnnnnnX

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- **Untitled**
By: Anonymous
1 hr 43 mins ago
- **Berthel Fisher**
By: Anonymous
4 hrs 35 mins ago
- **Asphalt Paving Company**
By: Anonymous
3 days 2 hrs ago
- **cas**
By: Anonymous
3 days 16 hrs ago
- **Shawn Maalik**
By: Anonymous
5 days 6 hrs ago
- **Salo Aizenberg Downtown...**
By: Anonymous

New Post

Syntax highlighting:

To highlight particular lines, prefix each line with `(%#HIGHLIGHT)`

Account Number	Name	Address	Postcode	Card Number	Email	Hashed Password
R7GB00233874F	Mr Keith A Ainscough	41 Bursledon Road, Kirkby-in-Ashfield, Nottingham, Nottinghamshire	NG17 3ZS	4751304978982667	EXP: 04/20	CVV:68
R5GB00493549J	Mr James D Wilson	115 Elm Lane, Sheffield, South Yorkshire	S5 7TX	4659021389931728	EXP: 04/19	CVV:242
R3GB000441403J	Mrs Helen M Stephenson	75 Durlston Road, London, London	SE 8RP	4751163392848791	EXP: 11/19	CVV:956
R3GB00946370W	Mrs Karen J Parry	14 Harwin Road, Leicester, Leicestershire	LE5 6ZD	4921819473978007	EXP: 07/21	CVV:016
R8GB00313692J	Miss Emma K Stevens	Flat 2, Arundel Court, 41 Raymond Road, London, Greater London	SW19 4AF	4659021748115815	EXP: 06/19	CVV:199
R9GB00826779Y	Mr Richard M Price	115 Listeria Park, London, Greater London	N16 5SP	4751163125013697	EXP: 10/19	CVV:963
R5GB00765712L	Mr Colin W Walker	34 Woodland Grove, Mansfield Woodhouse, Mansfield, Nottinghamshire	NG18 8BZ	4921819973182354	EXP: 09/21	CVV:192
R9GB00393648C	Mr Christopher J Brown	34 New Road, Harlington, Hayes, Middlesex	UB3 5BD	4263973229211349	EXP: 01/19	CVV:343
R1GB00663421D	Mr David A Kelly	22 Litchfield Avenue, London, Greater London	E15 4LN	4659021911434191	EXP: 06/19	CVV:977
R8GB0079121A	Mr Simon W Evans	9 Somersford Way, London, Greater London	SE16 6GN	4751304755681334	EXP: 03/20	CVV:144

Advanced Query [Pattern Match](#)

Enter your own regex here

Hide search details ▲

Search

Clear Search

Filter by Date: All 1 day 7 days 30 days

Source: All [Icons]

Clear Advanced

1 of 1 results sorted by [relevance](#)

unknown
2021-03-24 at 16:18:22

Account Number Name Address Postcode Card Number Email Hashed Password
R7GB00233874F Mr Keith A Ainscough 41 Bursledon Road, Kirkby-in-Ashfield, Nottingham, Nottinghamshire NG17 3ZS 4751304978982667, EXP: 04/20 , CV...

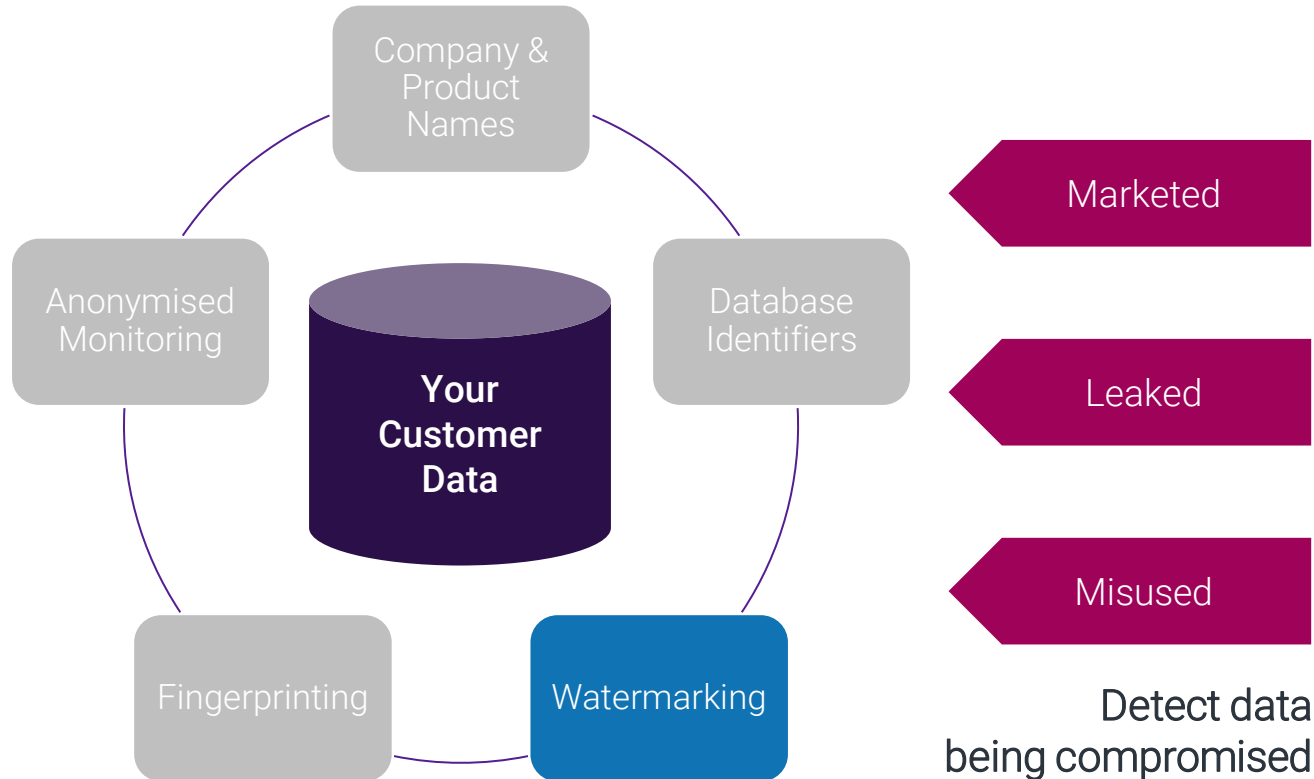
Matched items in your search

Keywords
3

View Details

Synthetic data example

5 TECHNIQUES FOR DETECTING LEAKS OF YOUR DATA



INTRODUCING BREACHMARKER™ : SYNTHETIC IDENTITIES

- › Added to your datasets as markers
- › Unique details
- › Detect breach and misuse
- › No “false positives”
- › Deployed in minutes
- › Not real people – GDPR doesn’t apply!



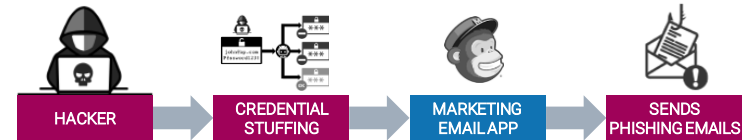
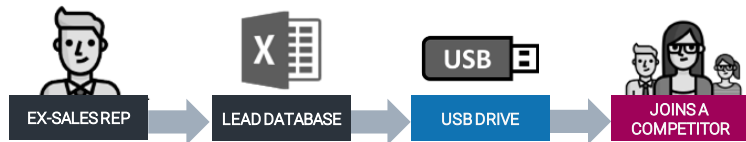
ADDING BREACHMARKERS TO YOUR DATA



Name : Jonathan Carter
Company : RNG Designs

Email : jonathan.carter@rngdesigns.co.uk
Phone : +44 1223 755656
Address : 14 Gray's Inn Road,
London WC1X 8HN

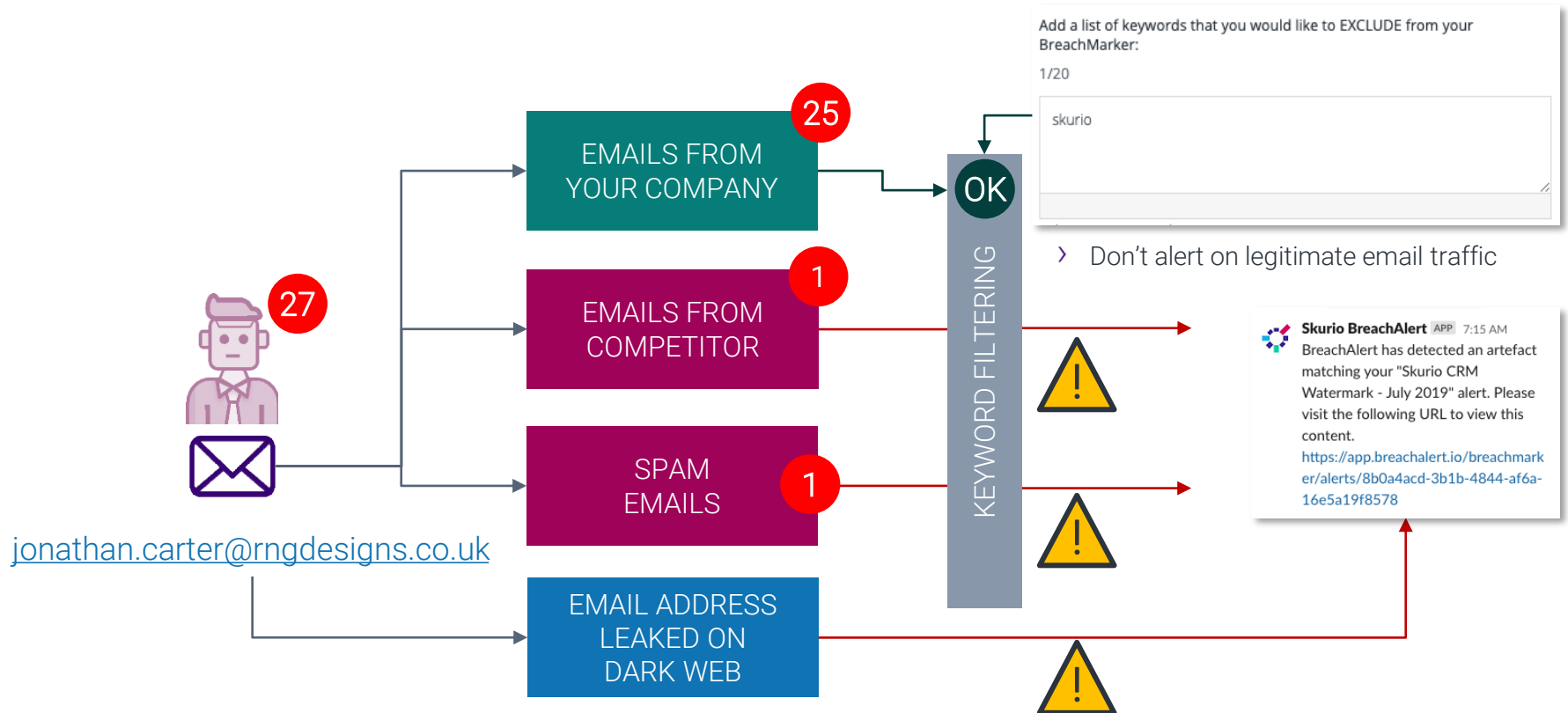
BREACHMARKERS DETECT DATA MISUSE AS WELL AS BREACH



- › Sales person leaves, and joins one of your competitors
- › Takes a copy of lead database with them
- › Competitor starts sending sales emails to your prospects

- › Staff email address & password exposed in breach of unrelated website
- › Hacker runs automated scripts to try to login to other sites with those credentials
- › Gains access to your cloud-hosted email marketing app
- › Exports client list, and start sending them phishing emails

MONITOR FOR UNEXPECTED EMAIL TRAFFIC AND BREACHES & LEAKS OF PERSONAL INFORMATION



BREACHMARKER EMAIL ALERT : MISUSE / SPAM

BreachMarker



Inbox Triggered 2021-03-04 at 16:36:03

An email has been sent to this address' inbox from kishi@techcave.pl.

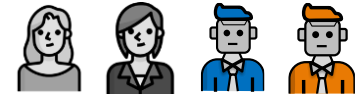
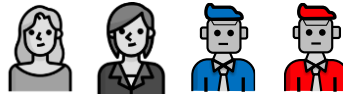
Hide Details

AUTHOR Milorad Rasovic
TITLE THE PRESIDENT/CEO

[Show advanced header](#) ▾

MESSAGE CONTENT Hello, I am an investor looking to invest in entrepreneurial teams with big ideas and a need for seed capital to turn their ideas into great companies. I believe every business man is basically an entrepreneur, for we all strive to achieve optimal goals using limited resources. In seeking out worthwhile investment opportunities, We are always on the look out for ventures whose principals exhibit a high level of creativity combined with the right amount of experience in the chosen field. Thanks, Milorad Rasovic Telephone 1-968-586-4009. email:miloradrasovic779@gmail.com

UNIQUE BREACHMARKERS FOR EACH SUPPLY CHAIN PARTNER



HubSpot Email
Marketing Platform

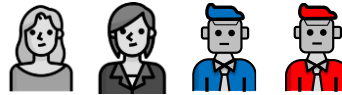
Partner Webinar
Marketing Agency

Customer Support
Call Centre

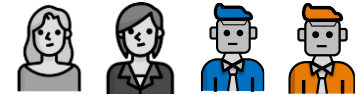
UNIQUE BREACHMARKER COMBOS AS ROTATING TIMESTAMPS



January 2023



February 2023



March 2023

TRACE THE SOURCE OF LEAKS AND MISUSE

Name	Address	Email
Mrs Christine P Pengilly	19 Cocknage, Stoke-on-Trent, Staffordshire, ST3 4AE	christine_pengilly@icloud.com
Mr Peter M Brown	314 Lythalls Lane, Coventry, West Midlands, CV6 6GA	peterbrown@virgin.co.uk
Mr Lee J Owen	4 Kent Road, Doncaster, South Yorkshire, DN4 8JG	lee.owen81@googlemail.co.uk
Mr Jonathan Carter	St John's Innovation Centre, Cowley Road, Cambridge CB4 0WS	jonathan.carter@rngdesigns.co.uk
Mr Tristan J Watkins	2 Greenside Close, Kidsgrove, Stoke-on-Trent, Staffordshire, ST7 4TG	tristan.j.watkins@btopenworld.com
Mrs Emma P Whitla	247 Rowrah Crescent, Middleton, Manchester, Greater Manchester, M20 1LW	emma.whitla@gmail.com
Mr Michael M Brown	64 Chalfont Road, London, Greater London, N9 9LY	michael.brown83@btinternet.com
Miss Gemma A Munro	40 Marne Street, Hull, North Humberside, HU5 3SU	gemma.munro@gmail.com
Ms Saffron S Paine	14 Gray's Inn Road, London WC1X 8HN	saffron.paine@rngdesigns.co.uk
Ms Karen S Hutton	110 Evenlode Road, Southampton, Hampshire, SO16 9EG	karen.hutton83@me.com
Mr Nayan A Rogers	Alder Lane Barn, Alder Lane,, Burtonwood, Warrington, Cheshire, WA5 1AA	nayan.rogers10@yahoo.co.uk
Mr Simon N Lynch	55 Cumberland Road, Castleford, West Yorkshire, WF10 2RA	simon.lynch83@btinternet.com
Mrs Chantelle P Checketts	20 Poplar Drive, Alsager, Stoke-on-Trent, Staffordshire, ST7 2RE	chantelle_checketts@hotmail.com
Mrs Shania P Derham	21 Hollyhock Drive, Mansfield, Nottinghamshire, NG19 7FG	shania_derham@outlook365.com
Mr Stephen J Foster	57 Argyle Street, Tamworth, Staffordshire, B77 3EQ	stephen.foster82@googlemail.co.uk



Customer Support
Call Centre
5 March 2023

“GUERRILLA WATERMARKING” ON YOUR PUBLIC-FACING SYSTEMS

The image displays three overlapping screenshots from a GOV.UK website, illustrating the process of guerrilla watermarking. The top-left screenshot shows a subscription form where the email address 'leanne.harris@grangeprojects.co.uk' is entered. The middle screenshot shows a confirmation page titled 'Check your email' with a link to confirm the subscription. The bottom-right screenshot shows a BreachAlert notification from Skurio, indicating a match for a 'gov.uk Covid news for businesses' alert and providing a URL to view the content.

CONTRACTOR IN SKURIO'S CLOUD-BASED HR SYSTEM

The screenshot shows the Skurio HR system interface. At the top, there is a navigation bar with the Skurio logo and menu items: Home, My Info, People, Hiring, Reports, and Files. A search bar and utility icons (notifications, help, settings, profile) are on the right. The main header for the user profile displays a circular profile picture of Mark Waters, his name, and title 'Sales Executive'. There are buttons for 'Request a Change' and a settings icon. Below the header is a tabbed menu with 'Personal' selected, and other tabs for Job, Time Off, Benefits, Emergency, Documents, Notes, Training, and More. The 'Personal' section is titled 'Personal' and includes a 'Customize Fields' link. The 'Basic Information' section contains the following fields: Employee # (9999999), Status (Active), Name (Mark Waters), Preferred Name, Title (Mr.), Birth Date (01/04/1976, Age: 44), National Insurance No. (KR 29 43 78), Gender (Male), and Marital Status (Married). A sidebar on the left provides contact information (phone: 07946 138977, email: mark.waters@purplegorill...), hire date (Apr 1, 2017), employee ID (# 9999999), role (Contractor), departments (Sales, Sales & Marketing), location (London), and manager information (Jeremy Hendy, Chief Executive Offic...).

SKURIO Home My Info **People** Hiring Reports Files

Mark Waters
Sales Executive

Personal Job Time Off Benefits Emergency Documents Notes Training More ▾

Personal [Customize Fields](#)

Basic Information

Employee # Status

Name Preferred Name

Title

Birth Date Age: 44

National Insurance No.

Gender Marital Status

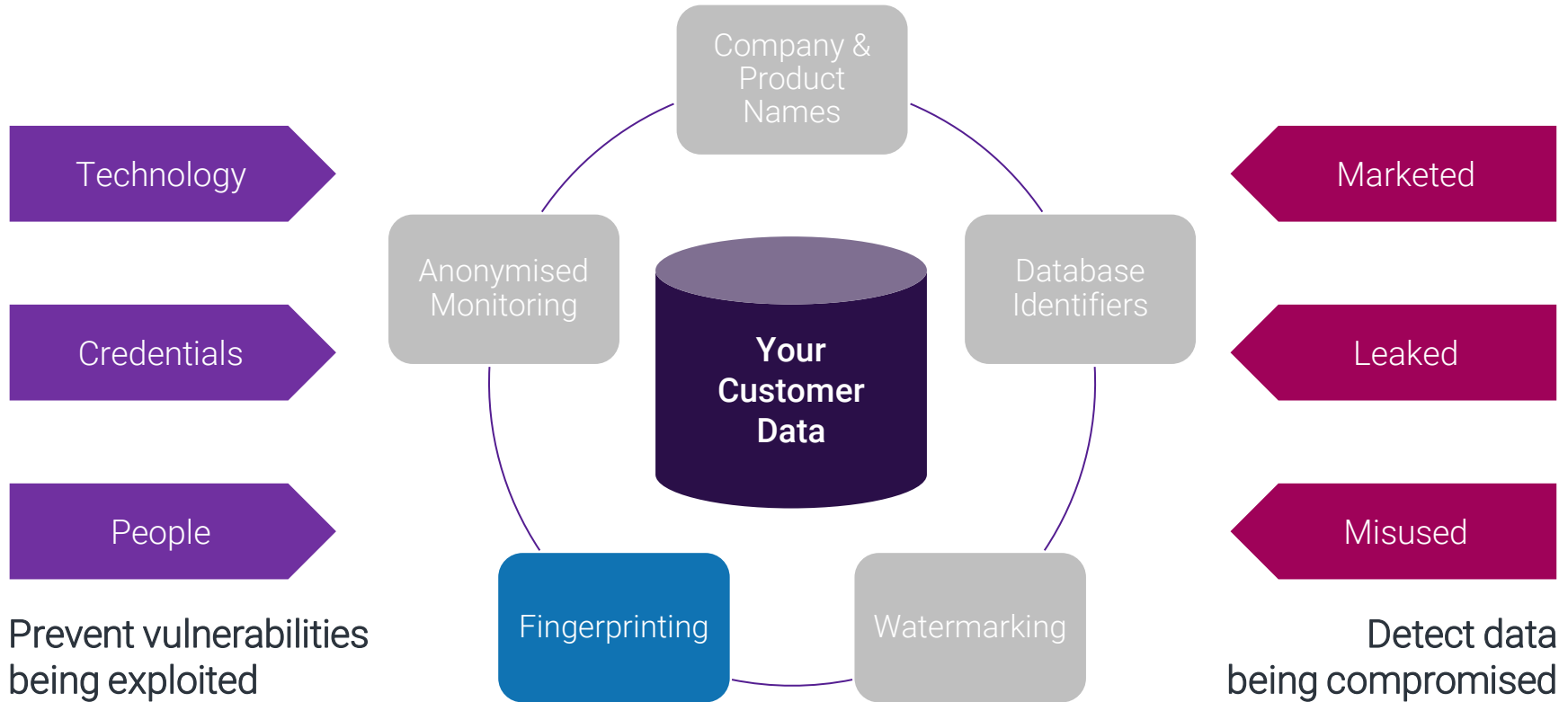
07946 138977
mark.waters@purplegorill...

Hire Date
Apr 1, 2017
3y - 11m - 23d

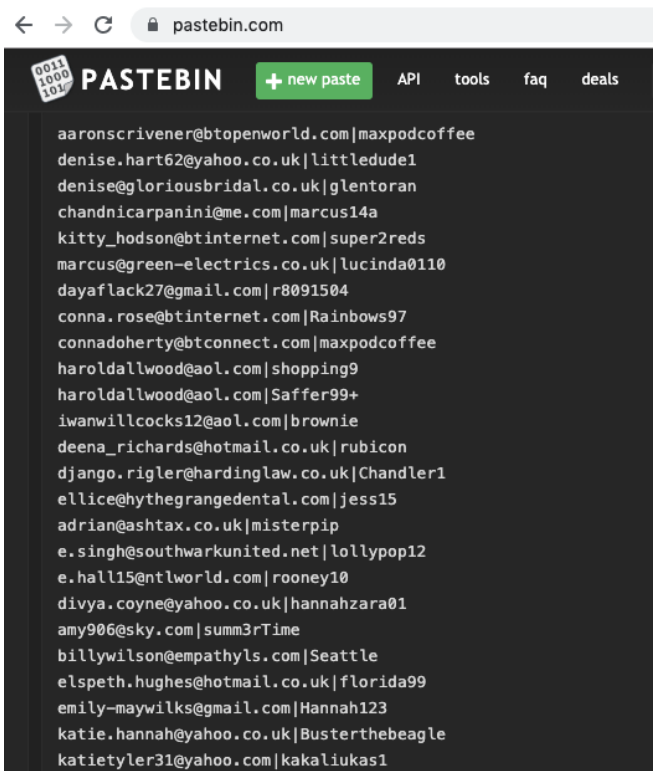
9999999
Contractor
Sales
Sales & Marketing
London

Manager
 Jeremy Hendy
Chief Executive Offic...

5 TECHNIQUES FOR DETECTING LEAKS OF YOUR DATA




CUSTOMER DATA MONITORING : THE DETECTION CHALLENGE



← → ↻ 🔒 pastebin.com

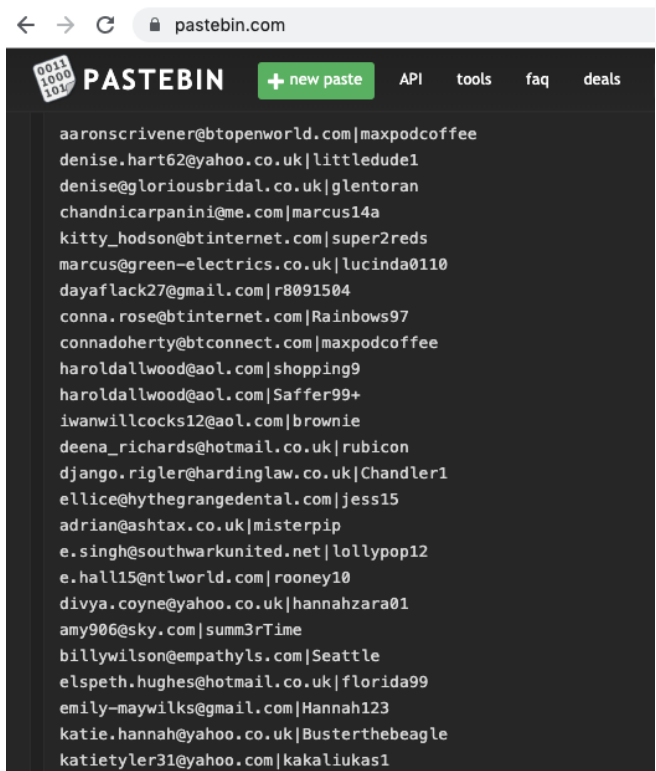
PASTEBIN + new paste API tools faq deals

```
aaronscrivener@btopenworld.com|maxpodcoffee  
denise.hart62@yahoo.co.uk|littledude1  
denise@gloriousbridal.co.uk|glentoran  
chandnicarpanini@me.com|marcus14a  
kitty_hodson@btinternet.com|super2reds  
marcus@green-electrics.co.uk|lucinda0110  
dayaflack27@gmail.com|r8091504  
conna.rose@btinternet.com|Rainbows97  
connadoherty@btconnect.com|maxpodcoffee  
haroldallwood@aol.com|shopping9  
haroldallwood@aol.com|Saffer99+  
iwanwillcocks12@aol.com|brownie  
deena_richards@hotmail.co.uk|rubicon  
django.rigler@hardinglaw.co.uk|Chandler1  
ellice@hythegrangedental.com|jess15  
adrian@ashtax.co.uk|misterpip  
e.singh@southwarkunited.net|lollypop12  
e.hall15@ntlworld.com|rooney10  
divya.coyne@yahoo.co.uk|hannahzara01  
amy906@sky.com|summ3rTime  
billywilson@empathyls.com|Seattle  
elspeth.hughes@hotmail.co.uk|florida99  
emily-maywilks@gmail.com|Hannah123  
katie.hannah@yahoo.co.uk|Busterthebeagle  
katietyler31@yahoo.com|kakaliukas1
```



How would you know if this is your customer data?

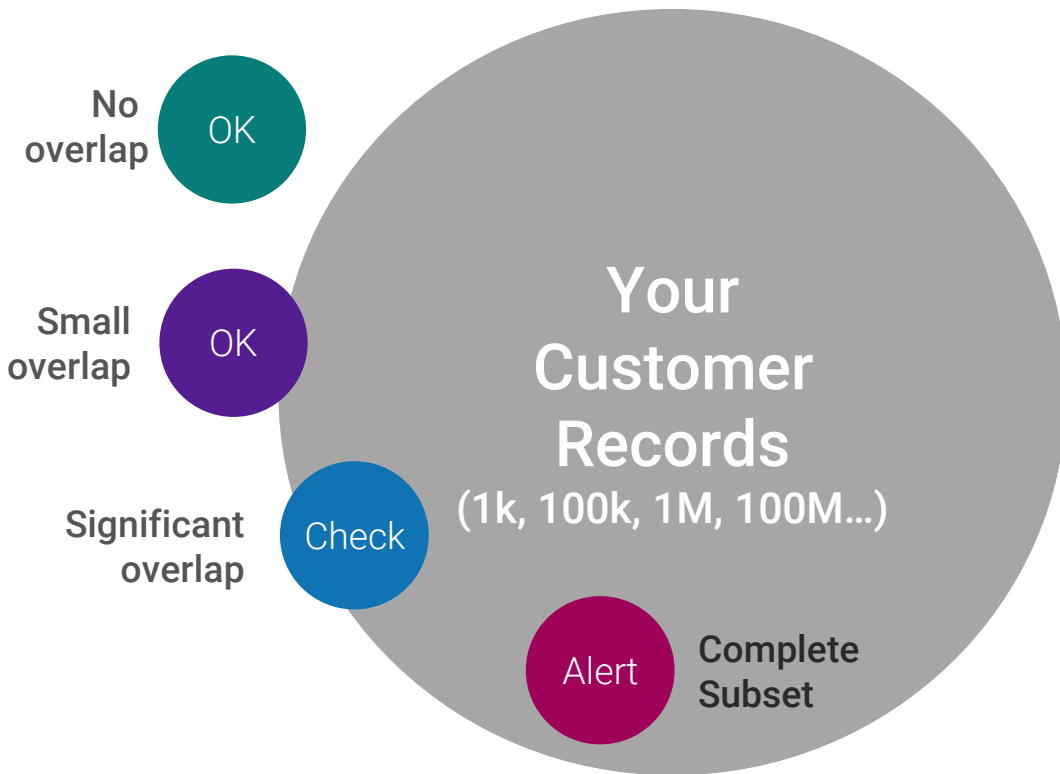
CUSTOMER DATA MONITORING : THE DETECTION CHALLENGE



← → ↻ 🛒 pastebin.com

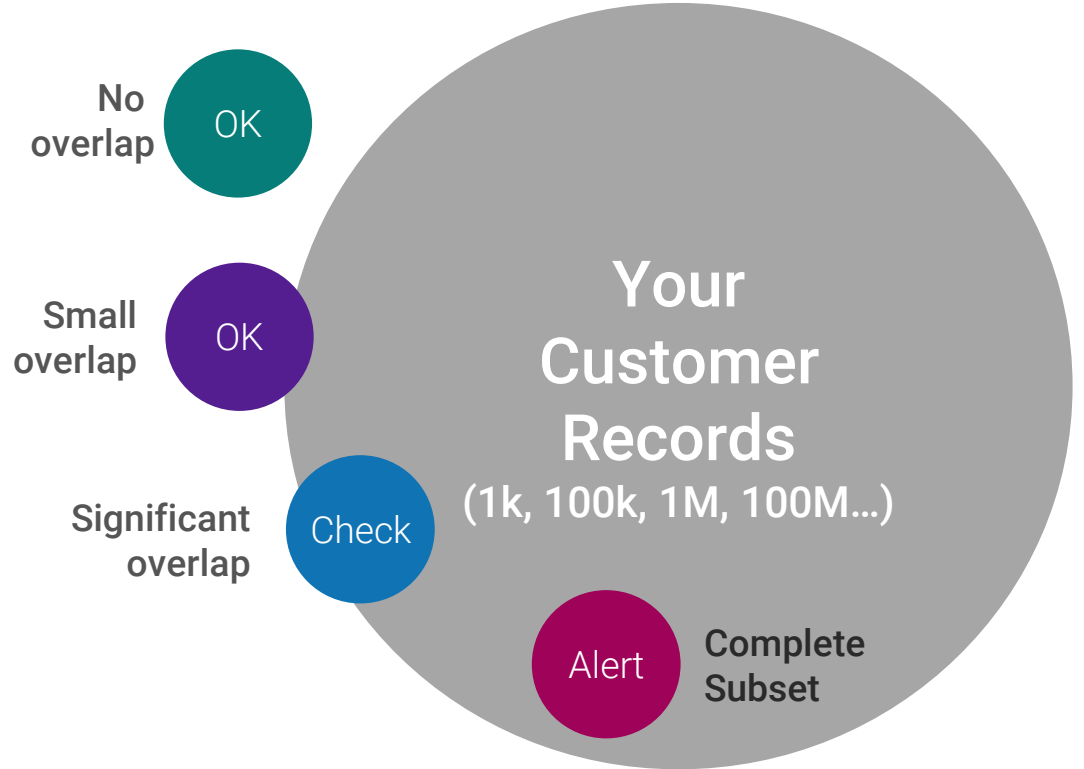
PASTEBIN + new paste API tools faq deals

```
aaronscrivener@btopenworld.com|maxpodcoffee
denise.hart62@yahoo.co.uk|littledude1
denise@gloriousbridal.co.uk|glentoran
chandnicarpanini@me.com|marcus14a
kitty_hodson@btinternet.com|super2reds
marcus@green-electrics.co.uk|lucinda0110
dayaflack27@gmail.com|r8091504
conna.rose@btinternet.com|Rainbows97
connadoherty@btconnect.com|maxpodcoffee
haroldallwood@aol.com|shopping9
haroldallwood@aol.com|Saffer99+
iwanwillcocks12@aol.com|brownie
deena_richards@hotmail.co.uk|rubicon
django.rigler@hardinglaw.co.uk|Chandler1
ellice@hythegrangedental.com|jess15
adrian@ashtax.co.uk|misterpip
e.singh@southwarkunited.net|lollypop12
e.hall15@ntlworld.com|rooney10
divya.coyne@yahoo.co.uk|hannahzara01
amy906@sky.com|summ3rTime
billywilson@empathyls.com|Seattle
elspeth.hughes@hotmail.co.uk|florida99
emily-maywilks@gmail.com|Hannah123
katie.hannah@yahoo.co.uk|Busterthebeagle
katietyler31@yahoo.com|kakaliukas1
```



CUSTOMER DATA MONITORING : THE DETECTION CHALLENGE

- › Scale
 - › Tens of millions of records
- › Security
 - › Need to fingerprint the entire dataset, without adding to the risk of breach
- › Automation
 - › Dynamic dataset will require regular updates

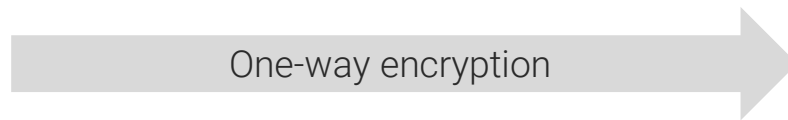


CUSTOMER DATA FINGERPRINTING : SEARCH TERM SECURITY

Scrambled
Fingerprint



- Unique, 1:1 mapping
- Also incorporates a shared secret
- Comparison requires both the original data and the secret



`georgie.coldwell@greenhorsebank.co.uk`



`georgie.coldwell@greenhorsebank.co.uk£t58dZw`



`C416E167F043A8B360B4E3D2DD02172CE6F2B0629D1047833C388341D76E6C4B`

CONTINUOUS MONITORING OF THE FINGERPRINT

What would you like to search for?

[Save this search](#) [View saved searches](#)

Email Addresses IP Addresses Keywords Domains Financial Personal

Show me posts containing these email addresses: 10/1000

```
2c5a5a6bb0e5f476966d0ac726d1fd4c574e462b09b3321b54acd15d1748bb2
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```

ANY of these email addresses ALL of these email addresses [Upload CSV](#)

[Add Exclude List](#) [Add Keywords](#)

Hide search details ▲

[Search](#) Clear Search

Anonymous [Save Message](#)

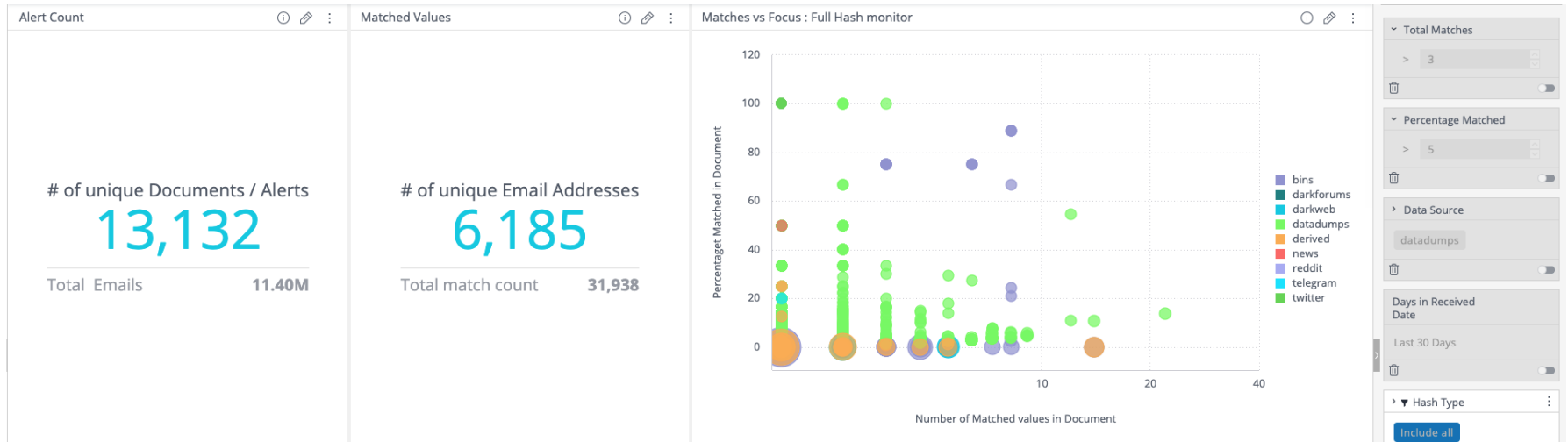
2018-01-04 at 11:33:25

Domain nzxj65x32vh2fkhk.onion [View more meta data ▼](#)

Content

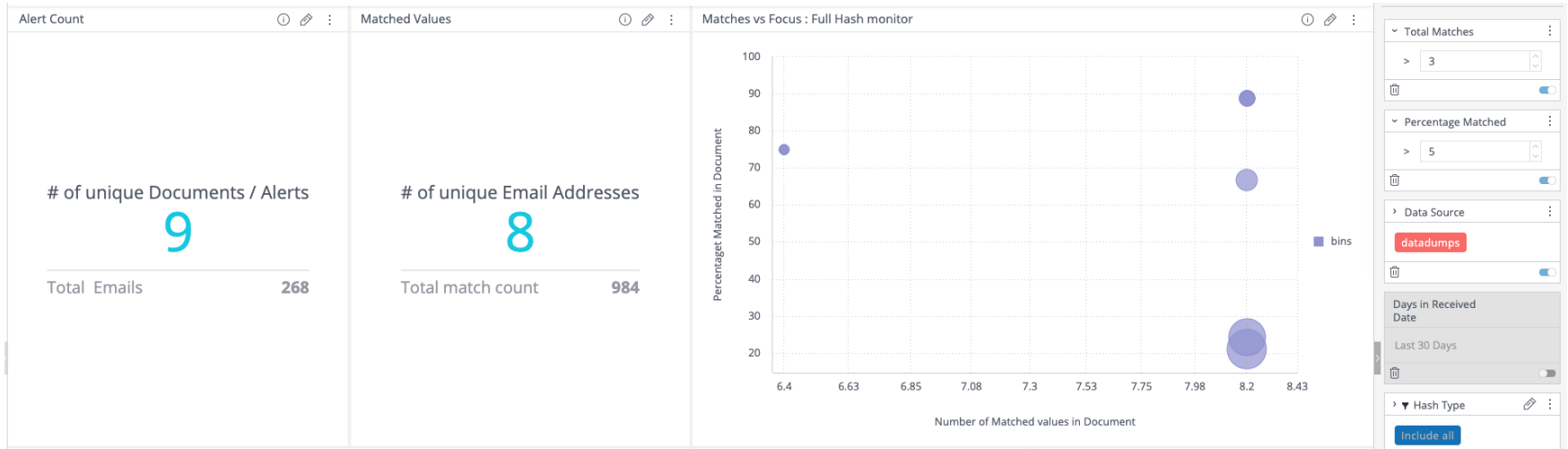
R4GB00737717J Mr Alan P Wright 19 Grinstead Close,Birstall,Leicester,Leicestershire LE4 9RY
4921819428641535, EXP: 08/20, CVW:307 alan.wright9@talktalk.net f15f272f24f25e930ea0d8d0db0da16c
R0GB00811762Y Mr Thomas J Taylor 50 Lambourne Road,Nelson,Lancashire BB9 2UZ 4263972456087869,
EXP: 01/18, CVW:786 thomas.taylor@gmail.com 00a0167e000e3043ff5fe981ffff1cfc
R7GB00299086V Ms Michelle C Black 160 Barkerhouse Road,123 St. Marys,Barking,Essex IG11 9RL
4921818663126939, EXP: 05/20, CVW:373 michelle.black9@bigfoot.com
ddc6b19899da195422394e676625e6ab
R0GB00407864A Mrs Rebecca A Norman 71 Rookwood House,Ilford,Essex IG1 7QQ 4921816099788207,
EXP: 09/19, CVW:062 rebecca_norman@outlook365.com 9c27d2148024472a63d82deb7fddb8d5
R5GB00970909K Mrs Anne F Dodd 158 Wanstead Park Road,Coventry,West Midlands CV6 8LZ
4921819035619676, EXP: 06/20, CVW:777 anne.dodd9@aol.co.uk e74f7bfdfdb2fb418b008402024d04b
R1GB00325064B Mr James P Brown 682 Foleshill Road,Leicester,Leicestershire LE2 9ZE 4921818947451038
, EXP: 06/20, CVW:337 james.brown9@tesco.net e50e1a7617adaebd1af1e589e8525142
R2GB00368252X Ms Nicola S Watts 41 Riverside Drive,Maidenhead,Berkshire SL6 9UQ 4921818108316301,
EXP: 03/20, CVW:019 nicola.s.watts@btopenworld.com cf92a15482cf27fc306d5eab7d30d803
R0GB00982552G Miss Amanda J Fletcher 49 Highfield Lane,London,Greater London E7 9QT
4751304607285375, EXP: 04/19, CVW:793 amandafletcher@btconnect.co.uk
75f289b53f7213438a0d764ac08dec8c
R2GB00562435W Mrs Gemma Z Butcher 54 Belton Road,Wolverhampton,West Midlands WV10 7UQ
4659021576109807, EXP: 06/18, CVW:055 gemma.butcher@gmail.com
2859fb05279002d0d7a604fad86ffd2f

REAL EXAMPLE : SKURIO'S SALESFORCE CRM DATA (22,000 RECORDS)



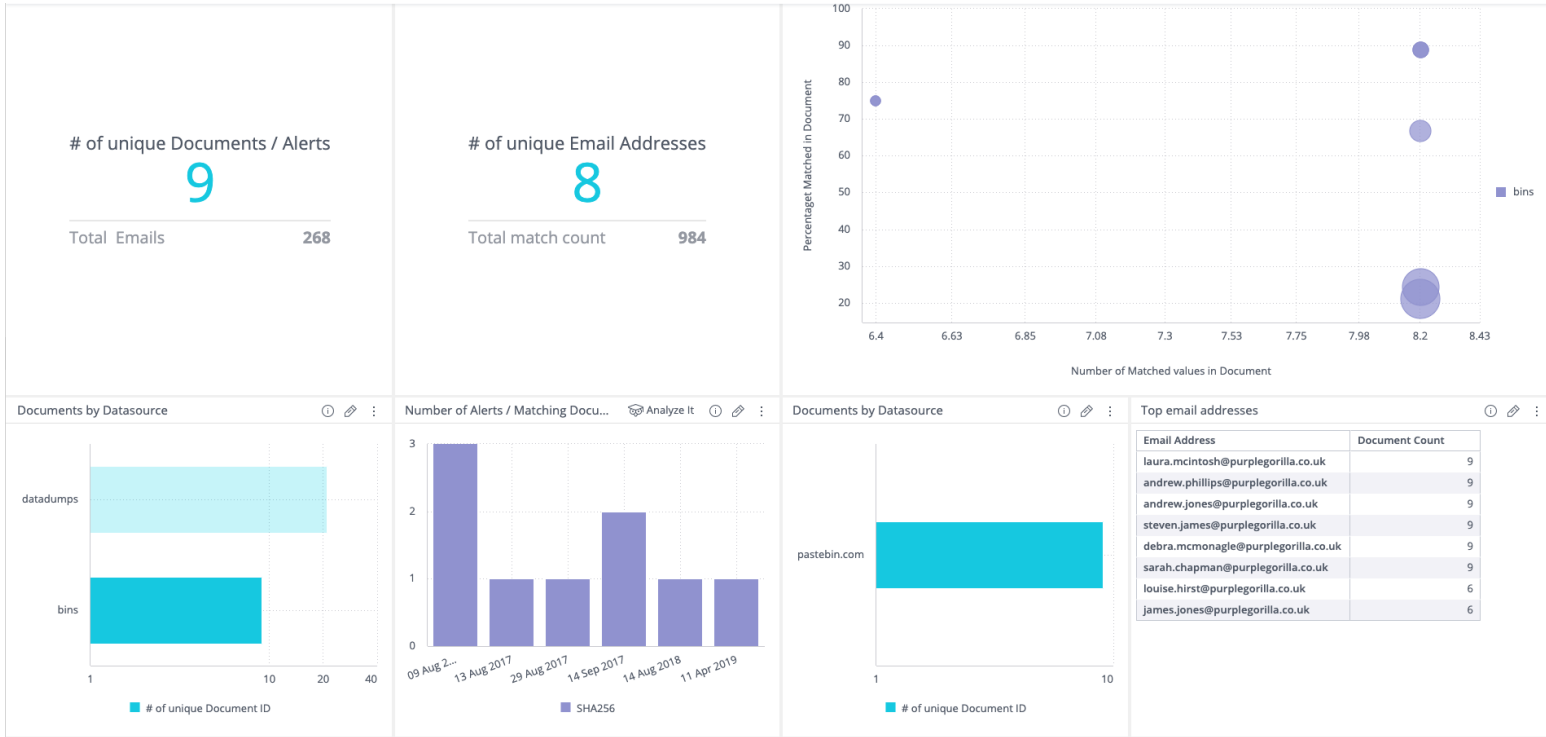
- › 30% of all our B2B customers were in a breach over the last 8 years
- › Large number of false positives
 - › Small quantity of “our” data exposed in an unrelated breach
 - › Easy to filter based on “Matches per document” and “Percentage Matched”

REAL EXAMPLE : SKURIO SALESFORCE DATA (22,000 RECORDS)

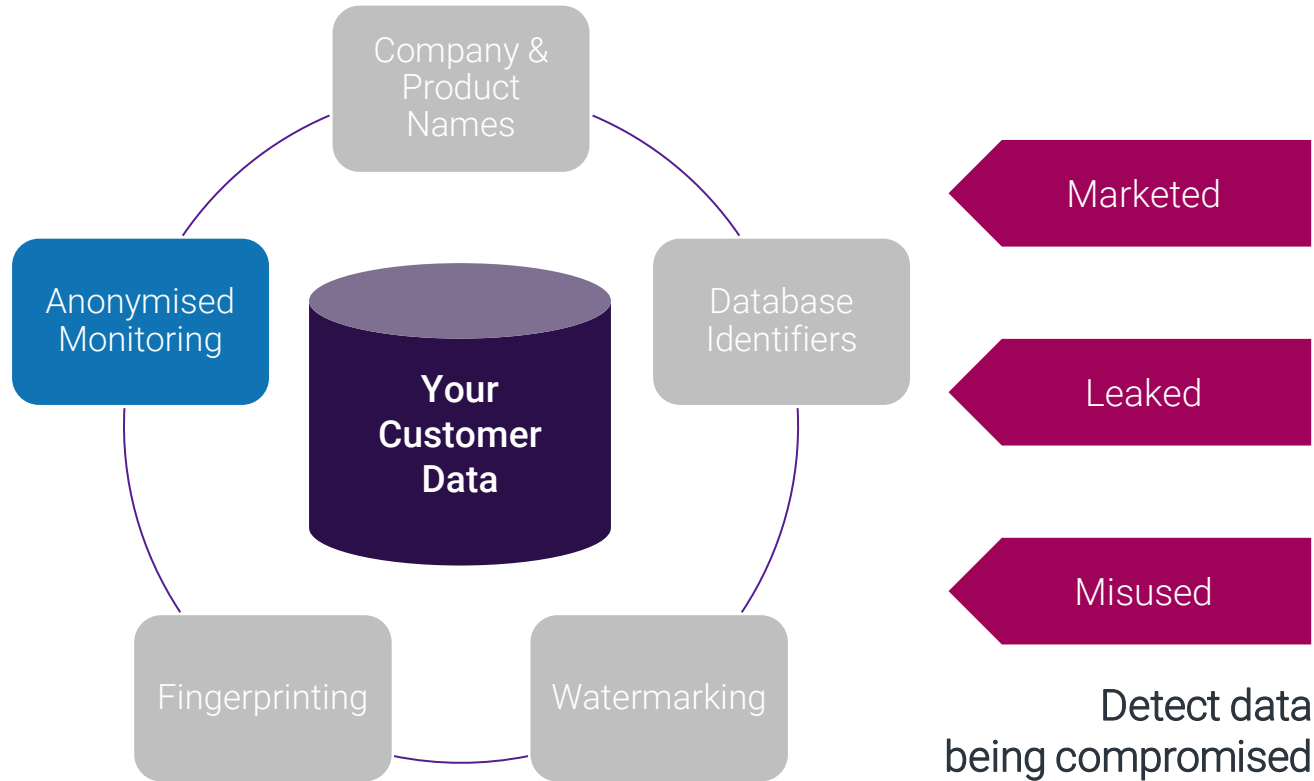


- › Filter based on more than 3 of our CRM records in a single breach / post
- › Filter based on more than 5% of the breach/post being our data
- › Exclude large data dumps (e.g. HavelBeenPwned)

INVESTIGATION SHOWS IT'S OUR OWN BREACHMARKER TESTS...



5 TECHNIQUES FOR DETECTING LEAKS OF YOUR DATA

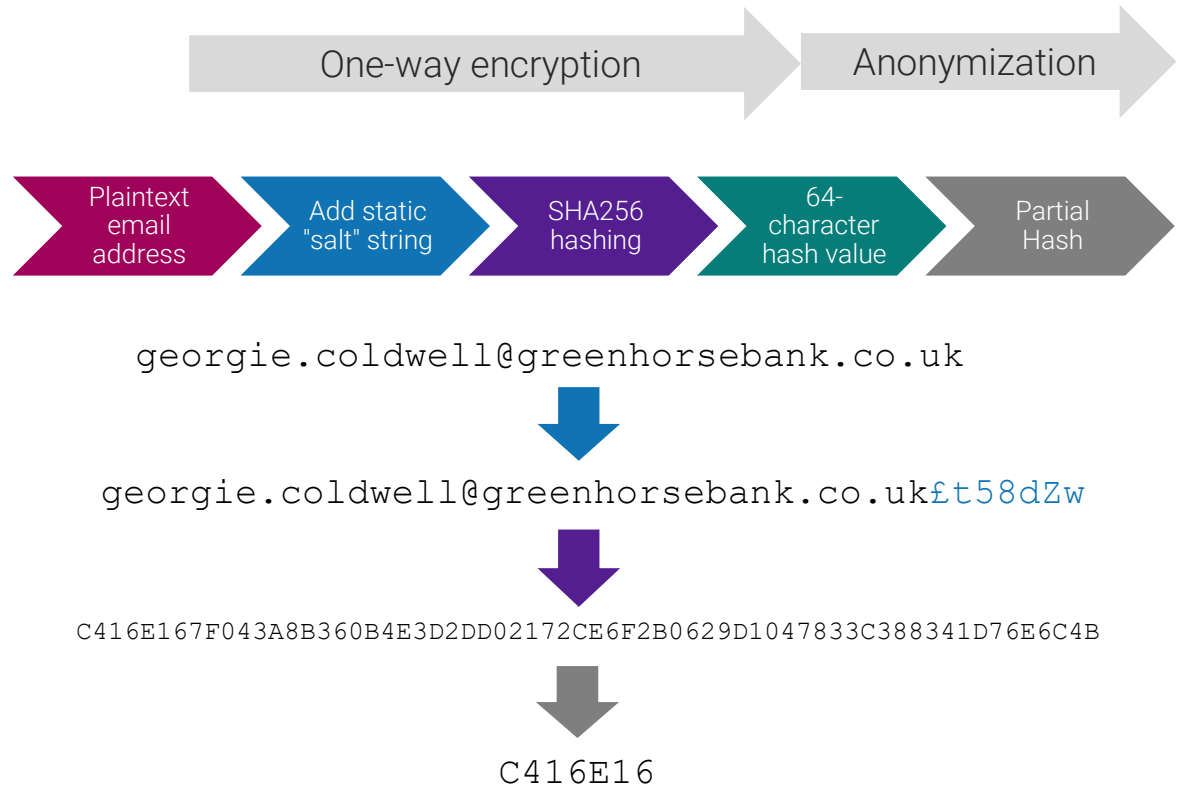


CUSTOMER DATA FINGERPRINTING : ANONYMISING THE DATA

Fingerprint
Fragment



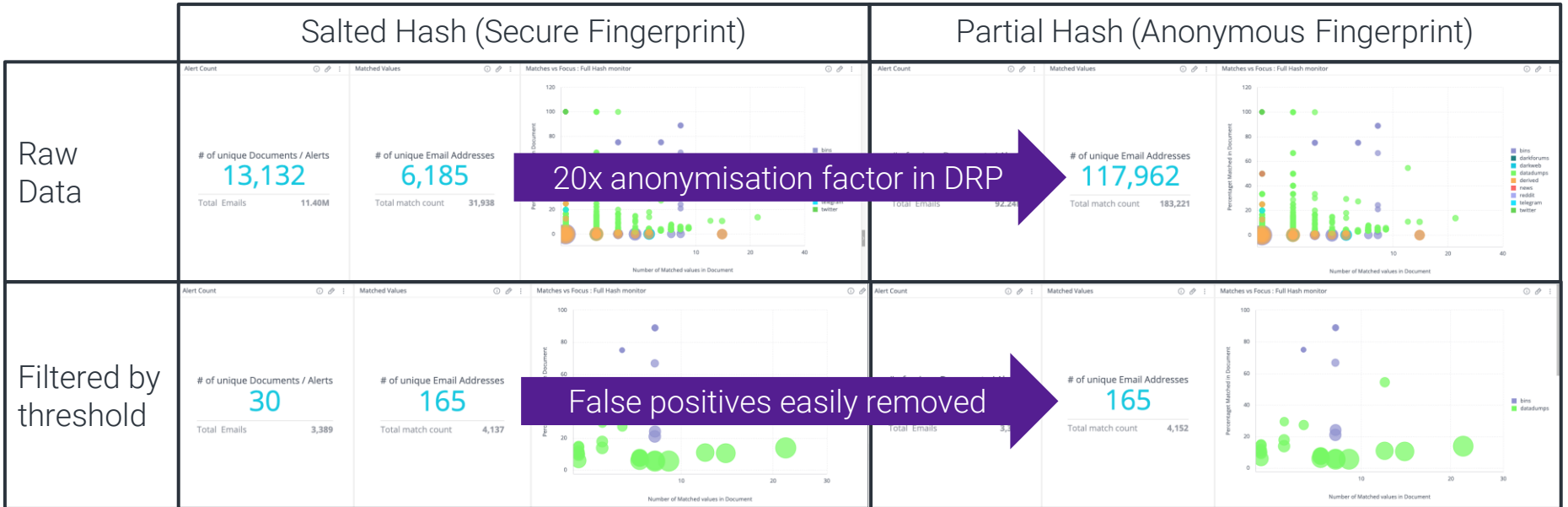
- Non-unique, 1-to-many mapping
- “Fuzzy Search” in DRP platform
- Deliberately returns false positive results
- Final comparison match is performed in your environment



SKURIO'S CUSTOMER DATA – ANONYMISED FINGERPRINTS

001771c	014e1eb	029f039	03f393f	051a3e6	068c995	07bebd1	0942c51	0a53405	0b7c988	0c96663	0db4370	0ec217f	100481b
001b65e	0156d9b	02a0856	03f588f	051d520	068ea08	07c710d	094ed34	0a589bb	0b7f3c5	0c96dd7	0dbb381	0ec22d7	100830c
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0026bde	01613d5	02a7c6d	03f820e	0521bbf	069423b	07cae7f	094f92e	0a5ef05	0b80de4	0c97577	0dc8919	0ec6602	10214f4
0033d5b	0163eb4	02a8bb5	03f9113	0523c2c	069441c	07cb74e	095df92	0a5f397	0b84aee	0c990b2	0dce03b	0ecdde5	102597b
0036ba0	0167ce1	02b3c80	03fc74e	052707a	069acc8	07cd6d9	0965ed7	0a5f630	0b84f9f	0c9b9d1	0dd1460	0ed1df9	1028c64
00380b7	016e0fa	02b4411	04004f6	052c6d1	069e2d8	07d015c	096b365	0a63927	0b85776	0c9cae0	0dd2842	0ed3850	102d081
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003a469	0172fec	02b4d41	0405f2c	052e79e	069f325	07d242b	097165a	0a6638b	0b876ff	0ca31ff	0dd6048	0ed7754	10349c3
003b96e	01731ba	02b5acb	040858e	0531b55	06a2b13	07d2568	0976f27	0a66d2c	0b8770e	0ca9a02	0dd69cb	0eda9ac	103ad0f
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004461b	017d122	02c6389	040d9d5	0536dac	06b573e	07e1158	097f2d4	0a77fde	0b95ba3	0caf11c	0ddb17	0ee4f41	103e874
00498bd	017e27e	02cc0de	040e813	053c47f	06b6695	07e14f0	0983a78	0a787cc	0b96604	0cb0b0c	0ddf79b	0ee6039	104a8da
004a807	018271f	02d1554	041c972	053ca28	06b7495	07e2b1e	09861df	0a79875	0b99720	0cb13a5	0de1e47	0eef967	104dc8f
004ae21	0183fbd	02d89de	0420eb4	053e8a5	06bedb4	07e35cc	0986b79	0a7a1eb	0b9cdf0	0cb718d	0de36dd	0ef0361	10533ce
004ae22	018ad41	02d9034	0423c75	0556bd8	06c01d3	07e5114	09897d2	0a7fec6	0ba65d0	0cbb425	0de50a8	0ef3765	10533ce
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0059c9c	01900c7	02d9c33	04283b3	056da53	06c0dff	07f1136	098f1c4	0a80665	0baaab0	0ccd46d	0de948d	0ef84c9	1058f23
005fed9	01917ce	02e7ba5	042c47d	05708c6	06c13c3	07f4da5	09931b8	0a841cf	0bab8b2	0ccd7c0	0dee4f6	0efdf01	105e320
0060b4f	01983db	02f1929	0434f3f	05754c8	06c2872	07f7686	0995dd1	0a86a62	0bad635	0ccffa7	0def7b4	0efe847	105e7ed
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00653cb	01a1ea0	02f84b3	044405f	058c538	06d4825	081632c	09a4879	0a8ed4c	0bb5612	0ce6134	0dfe6cf	0f093cd	106a031
0066f91	01a1fb3	02f95a3	04468c6	0590b92	06d6375	0829c95	09a7098	0a8fb39	0bb5dc3	0ce61e3	0dfe817	0f0a4e4	106a4de
0068b6b	01a3715	02fc12d	044b254	0591ce8	06d6ae2	082f53f	09af332	0a95f56	0bbe1e4	0cef1bf	0e006e2	0f0aa87	107dad0
00690a4	01a6d32	0302f1f	044cbe3	059329d	06d995e	0831a28	09b00d5	0a9669c	0bc0832	0cf283b	0e0245c	0f0f9e9	1083d1b

COMPARISON OF FULL FINGERPRINT & ANONYMISED VERSION



Wrap-up

SUMMARY

- › Your data is everywhere, and outside your direct control
- › Breaches can happen through no fault of your own
- › Supply chain may be a bigger source of risk than your own organisation
- › Ransomware, automation & cybercrime-as-a-service making the problem worse
- › New regulatory requirements bringing supply chain cyber risks in-scope

- › Proactive monitoring for supply chain risks doesn't have to be a big overhead
- › Multiple techniques to detect & trace leaks of your data across the supply chain
 - › Metadata monitoring, Watermarking & Fingerprinting

- › Questions?



THANK YOU