

Executive Briefing & Threat Intelligence Report

95-752 : Introduction to Information Security Management

Hot Topic -

Largest Data Breach in Retail History

Why should you care?

- Largest Data Breach in Retail History
(350,000,000) ~ 350 M records exposed
- Hot Topic (35) Boxlunch (9), Torrid (23)
1500+ stores & website archives affected
- Recurring patterns of vulnerabilities,
threats, and attack vectors
- Impacting customer trust, operational
stability, and financial security



Hot Topic Data Breach | Background

On 21st OCT - Israeli Cybersecurity Vendor Hudson Rock discovered the post

Threat Actor - Satanic, The Satanic Cloud

Selling Price of DB - \$20,000

Takedown Price for Hot Topic - \$100,000

Hot Topic / Box Lunch / Torrid 350 Million Users + Card Details - United States
by Satanic - Monday October 21, 2024 at 10:34 AM

Yesterday, 10:34 AM (This post was last modified: 43 minutes ago by Satanic.)
Hello BreachForums.
We would like to announce the breach of 3 large US Companies Breached Together Today (21 OCT 2024)

HOT TOPIC®

We're Selling:

[Hot Topic / Box Lunch / Torrid](#)

=> <https://www.hottopic.com>
=> <https://www.boxlunch.com>
=> <https://www.torrid.com>

Database Includes:

👑 Satanic

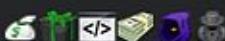


The Satanic Cloud

GOD

S

Posts: 614
Threads: 461
Joined: Sep 2023
Reputation: 1,222



View All

Database Includes:

350 Million Customers full informations "email,name,address,phone,birth_date,gender,rewards,loyalty,cards,transactions,invoices,tax,orders.."
Billions of lines of Rewards Database.
Billions of lines of Emails Database.
Millions of lines of WorldWide Address's.
Millions of lines of Points Database.
Stores + Location Database.
CC Details : "customer,last4digit,exp"

Much more...

Samples: <https://www.upload.ee/files/1> [REDACTED]

Full Database Price: 20k\$

Telegram: (Dark X) @ [REDACTED]

HT_BL_TD Folder (680 GB)

Quote:

```
4.4GB ./TAX DB.csv
5.6GB ./TRANSACTION DB.csv
0GB ./STORES DB.csv
4.4GB ./POINTS DB.csv
2.1GB ./PAYMENT METHOD DB.csv
24.6GB ./ORDER LINE ARCHIVE.csv
39.9GB ./ORDER ITEM ARCHIVE.csv
11GB ./ORDER DB.csv
7GB ./INVOICE DB.csv
2.1GB ./EMAIL DB.csv
116.4GB ./CUSTOMER BOTH DB.csv
101.6GB ./BIG EMAIL DB.csv
48.5GB ./WORLDWIDE ADDRESS DATABASE.csv
52.2GB ./SHIPMENTS TRACKING DB.csv
1.7GB ./PLC ACCOUNT DB.csv
```

Asking Hot Topic 100k to remove the thread.

customer both db sample 1.txt *

1	2	3	4	5	6	7	8	9	10	11
FIRSTNAME	LASTNAME	ADDRESSLINE1	ADDRESSLINE2	CITY	STATE	COUNTRYCODE	ZIPCODE	EMAIL	BESTPHONENUMBER	BIRTHDATE
CHERISH	NORMAN							ail.com	2146	2004-12-08
TAYLOR	GUS	5675 N		APT 127	FRESNO	CA	USA	93710	9@gmail.com	5592
ANGELICA	SAN	324 DUR			HUTTO	TX	USA	78634	ss@gmail.com	3148
KARRA	GUILL	1208 VI		RM B05C	VINTON	LA	USA	70668	ky@yahoo.com	3374
JASMINE	THI	1504 GR	E WAY	APT 912	KNOXVILLE	TN	USA	37909	jou@gmail.com	8651
MARILYN	ZEN	35140 A			MADERA	CA	USA	93636	zail.com	5594

350,000,000 customers' PII, including names, emails, addresses, phone numbers, and birthdates.

payment method arch db 2 sample.txt *

1	2	3	4	5	6	7	8	9	10
AMOUNT	ACCOUNT_NUMBER	CREATED_BY	PAYMENT_TYPE	CARD_EXPIRY_YEAR	CARD_TYPE	CARD_EXPIRY_MONTH	CREATED_TIMESTAMP_ON_CARD	ACCOUNT_DISPLAY_NUMBER	DISPLAY_NUMBER
202.13	a1TGIFKg8OUageZuTuRPh	ation@hottopic.com	Credit Card	2krSk6+Hlks=	Visa	pb+YnEX13E=	2024-03-16 1338Yc3dmlhSG0VR2o9zV40==	Visa ending with 90174	
97.64	h	ation@hottopic.com	PayPal				2024-03-27 08		
61.26	IJI6VfbmJPGIlzojX9xmfBPh	ation@hottopic.com	Credit Card	Me/Zo3rHlQ=	Visa	KEFye1Vs2Hl=	2024-03-27 09R6G/C9hYoCpu4gRdhx82t==	Visa ending with 62594	
55.29	h	ation@hottopic.com	PayPal				2024-03-16 09		
32.56	DrdUUmLbcIO/P0js1uZhIBPh	ation@hottopic.com	Credit Card	ahtVYvhiPlkk=	Visa	COMMrcllrY0=	2024-03-16 13dc7E/osISFY7YLjXm2z6t==	Visa ending with 43034	
26.25	h	ation@hottopic.com	PayPal				2024-03-16 10		
158.90	0HEuxhldldugzBIL7s10lxIPh	ation@hottopic.com	Private Label Credit Card				2024-03-26 20Myo/vrkC8Lfh9/lh%JU0==	ending with 63164	
54.83	0HEuxhldldupcSlvgCKP4LhIPh	ation@hottopic.com	Private Label Credit Card				2024-03-27 123zLZG3Jf1E/OD-S83u15RIPm1/10Km	HTCC ending with 58934	

Billions of payment details, including the last 4 digits of customers' credit cards, card types, expiration dates, account holder names.

points db sample.txt *

3	4	5	6	7	8
ACT_POINT_ID	PROFILE_ID	NUM_POINTS	ORDER_REWARD_ID	ACT_TRANSACTION_ID	EXPIRE_AFTER
OB	999D545	924D651	0ACECC -100	49023E53A97E554E8DD45DAC99E5FDE6	9999-12-31 23:59:59.000 -0800
BF	2E613A	924C5C1	0A63B1 -100	19808933C8FCDF428B2C8E9B1CCCA77F	9999-12-31 23:59:59.000 -0800
OB	AA1372A	924C5B1	0A63B1 31	D2ADA1D9531E744398A290FC2A12CD99	9999-12-31 23:59:59.000 -0800
75	0E144B8	924C5C1	0A63B1 130	4E2BCESD1DAE54D8CCBBCC7673F71E3	9999-12-31 23:59:59.000 -0800
3B	023A95B	924D651	0ACECC 48	277B674C623D2E49A600D9CB70DA994D	9999-12-31 23:59:59.000 -0800
88	3131442	924C5C1	0A63B1 95	67D59CFB0A116446B1315D001A151AD2	9999-12-31 23:59:59.000 -0800
3A	89101D	924D651	0ACECC 65	AF73127CE6D13546B728996EC5BEFF0A0	9999-12-31 23:59:59.000 -0800

Billions of loyalty points tied to Hot Topic & Box Lunch, linked to profile identifiers (PROFILE_ID).

These points could be used by threat actors for account takeovers.

Hot Topic Data Breach | Tactics, Tools & Procedures

Hot Topic, Boxlunch, Torrid outsourced their data processing to:

Robling - Third party analytics provider

Hudson Rock researchers found a particular **Robling employee** with **privileged access** to Snowflake, Looker (GCP) administration logins



Robling

Helping retailers unite data across silos, unlocking insights that grow revenue, margin and productivity.
Retail · Atlanta, Georgia · 747 followers · 11-50 employees

url: https://hottopic.east-us-2.azure.snowflakecomputing.com/console/login	32↓
url: https://torrid.east-us-2.azure.snowflakecomputing.com/console/login	8↓
url: https://torrid.cloud.looker.com/login/email	8↓
url: https://torrid.cloud.looker.com/account/setup/nqqf9n6y4fdgzx6r2bbnsxrfsd6vy68j	4↓
url: https://yk57310-hottopic.snowflakecomputing.com/console/login	4↓
url: https://caorapass.hottopic.com/	4↓
url: https://hottopic.cloud.looker.com/login	4↓
url: https://hottopic.looker.com/account/setup/g9wbc8xhyknwcbv42scjjn5kvktr4w93	4↓
url: https://hottopic.looker.com/admin/connections/hottopic-dev-storeops/edit	4↓
url: https://hottopic.looker.com/login	4↓

URL: https://robling_partner.east-us-2.azure.snowflakecomputing.com/console/login↓
Username: [REDACTED]
Password: [REDACTED]
URL: https://devops.robling.io/en/_util/login/↓
Username: [REDACTED]
Password: [REDACTED]
URL: https://[REDACTED].robling.io/en/_util/login/↓
Username: [REDACTED]
Password: [REDACTED]
URL: https://docs.robling.io/admin/users/add/↓
Username: [REDACTED]
Password: [REDACTED]
URL: https://robling.looker.com/admin/connections/robling_anonymization_db_clone/edit↓
Username: [REDACTED]
Password: [REDACTED]
URL: https://devops.robling.io/en/_util/login/↓

<https://www.torrid.com/on/demandware.store/Sites-torrid-Site>

<https://www.torrid.com/on/demandware.store/Sites-torrid-Site/default/DDUser-Challenge?redirect=%2F>

<https://hottopic.east-us-2.azure.snowflakecomputing.com/console/login#/?returnUrl=internal%2Fworks>

<https://hottopic.looker.com/browse>

https://hottopic.looker.com/projects/HotTopicDev/files/Views/Robling/f_meas_il_b.cust_measures.rob

https://torrid.cloud.looker.com/explore/TorridProd/dv_dm_f_meas_il_b?qid=04jOXDTczFhbl7CQhZIont&or

https://torrid.cloud.looker.com/explore/TorridProd/dv_dm_f_meas_il_b?qid=hUbxgvPSAgwssdngX2ThY8&or

<https://torrid.cloud.looker.com/folders/home>

<https://adf.azure.com/en/monitoring/pipelineruns/%2FresourceGroups%2FHotTopic-Prod%2Fproviders%2FMi>

<https://adf.azure.com/en/monitoring/pipelineruns?factory=%2Fsubscriptions%2Fe772ba78-bf10-443b-aae7>

<https://adf.azure.com/en/monitoring/pipelineruns?factory=%2Fsubscriptions%2Fe772ba78-bf10-443b-aae7>

<https://app.snowflake.com/yk57310/hottopic/#/compute/history>

<https://app.snowflake.com/yk57310/hottopic/#/compute/history/copies>

https://app.snowflake.com/yk57310/hottopic/#/compute/history/copies?preset=PRESET_LAST_7_DAYS&type

<https://app.snowflake.com/yk57310/hottopic/#/compute/history/queries/01b359b9-0a05-dfe5-0000-2eddi>

<https://app.snowflake.com/yk57310/hottopic/#/compute/history/queries/01b359ca-0a05-dfe5-0000-2eddi>

<https://app.snowflake.com/yk57310/hottopic/#/compute/history/queries/01b359cd-0a05-dfe5-0000-2eddi>

<https://app.snowflake.com/yk57310/hottopic/#/compute/history/queries?user=%3AU&start=1>

<https://app.snowflake.com/yk57310/hottopic/#/compute/history/queries?user=%3AU&start=1>

<https://app.snowflake.com/yk57310/hottopic/#/compute/history/queries?user=%3AU&start=1>

<https://app.snowflake.com/yk57310/hottopic/#/compute/history/queries?user=%3AU&start=1>

https://app.snowflake.com/yk57310/hottopic/#/data/databases/ROBLING_PRD_DB

https://app.snowflake.com/yk57310/hottopic/#/data/databases/ROBLING_PRD_DB/schemas/PL_STG

Hot Topic Data Breach | Tactics, Tools & Procedures

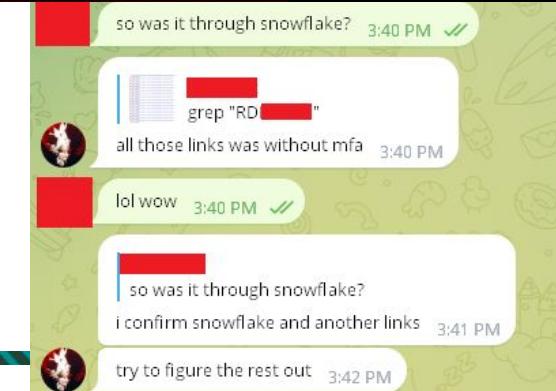
Researchers able to narrow down cause to an infostealer/spyware infection of the employee's device on 9/12/24

Theorized Snowflake, Azure, Looker to be points of exfiltration and transfer.

Snowflake confirmed in later communication with hacker "Satanic", who allegedly stated HoT Topic and Robling **lacked** MFA.

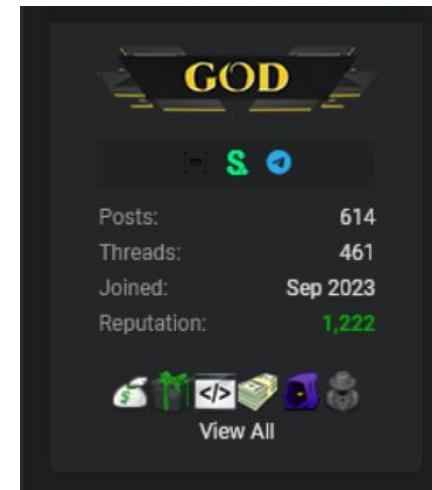
2 Claims verified, rest could be true.

```
▼ { 13 items
  stealer : "████████████████████████████████████████████████████████████████████████████████"
  ip : "163.████████████"
  computer_name : "████████████████████████████████████████████████████████████████████████████"
  stealer_family : "Generic Stealer"
  operating_system : "Windows 11 build 22631 (64 Bit)"
  malware_path : "Not Found"
  antivirus : "Not Found"
  facebook_id : "1████████████████████████████████████████████████████████████████████████"
  date_compromised : "2024-09-12T16:36:00.000Z"
  date_uploaded : "2024-10-18T09:43:32.453Z"
```



Risk Anatomy | Threat Actor “Satanic”

- Reputed on BreachForums and hacking community
- Active since September 2023
- Operates an InfoStealer logs selling service, uses spyware on a daily basis
- Bold, openly displays information, discusses tactics with researchers



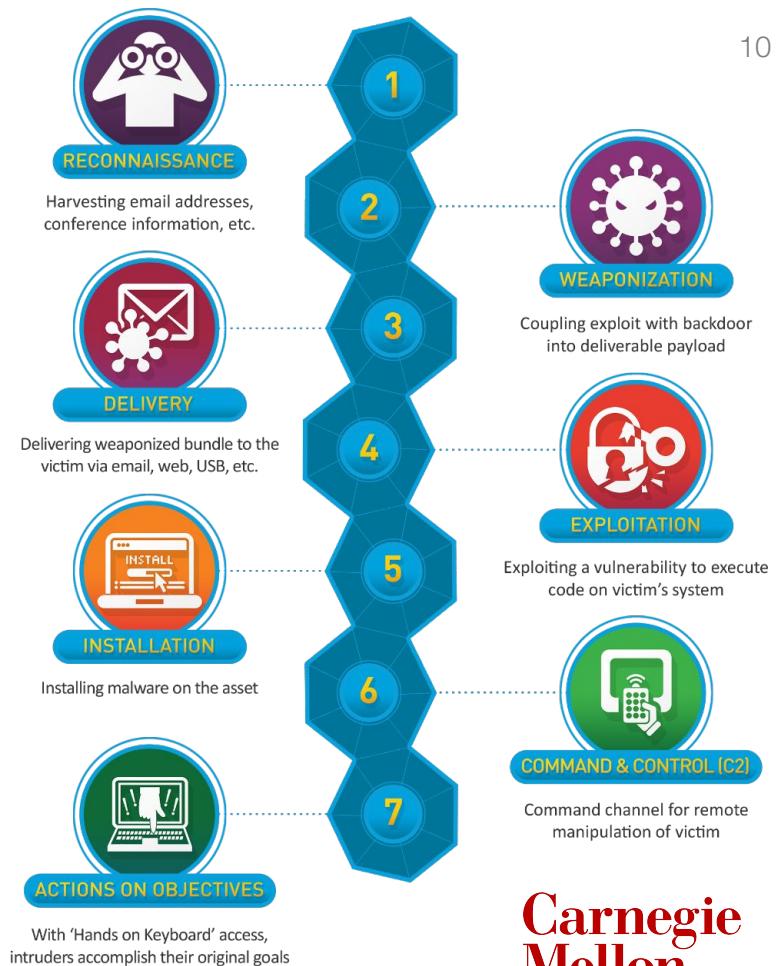
What is an Infostealer?

Type of Malware designed to steal information from infected systems. (Spyware)

Targets passwords, credit card numbers, financial information, PII

Infects through phishing emails, malicious attachments, compromised websites

Keylogging, Clipboard Hijacking, Credential & Email Harvesting/ Dumping



Risk Anatomy | M.O.M

Motive	Means	Opportunity
Financial Payment Info and PII can be sold on black markets	Attack Vector Used Infostealer; malware infected employee's device	High Data Volume Took advantage of 3rd party data aggregator and cloud hosted services Bulk data amassed made it an attractive target
Retail High volume of transactions and data stored. Lower scrutiny and security than financial institutions	Execution Malware stealthily exported credentials, collected data	Lack of Security Retail companies may lack stringent security measures.

Risk Anatomy | Weaknesses

- Lack of malware detection tools - Robling
- Lack of Patching / Updating / Vulnerability testing & management
- Improper access control implementation - MFA for Hot Topic Resources
- Implicit Trust Model instead of Zero Trust
- Lack of employee training
- No Data Minimization procedures, increased complexity in management

Risk Anatomy | Security Requirements Violated

Confidentiality	Integrity
Personally Identifiable Information - names, addresses, and payment card information was exposed	No direct manipulation Account credentials leaked, may result in changes to account and billing history, could be used for blackmail
Causes Lack of Authentication Insufficient endpoint security	

Risk Anatomy | Response

Note that Hudson Rock attempted to reach out to Hot Topic and Robling, but has received no answer yet.

Recommended response:

Contain and isolate devices, networks, accounts, servers

Investigate impact, vulnerabilities, evidence logs (IPS, IDS, SIEM)

Notify Stakeholders, Businesses, Individuals, & Authorities

Implement changes after security reviews and audits

Unwanted Outcomes & Organizational Consequences

Financial Impact	Operational Impact	Safety Impact
<p>Regulatory Compliance Fines, Legal fees, customer compensation costs to incur</p> <p>Class action lawsuits by victims affected (350 M)</p> <p>California Consumer Privacy Act (CCPA)</p> <ul style="list-style-type: none"> - \$750 per person by the California Attorney General 	<p>Loss of trust from customers and compromised potential business.</p> <p>Reputational Damages</p> <p>Negative Media Coverage</p> <p>Customer Support Overflow</p>	<p>Customers data exposed on the dark web, may become victims of identity theft & financial fraud</p>

Additional Considerations

Hot Topic and affiliated companies owned by Sycamore Partners, a NY based P.E firm.

May be outsourcing data to different third party providers for aggregation and analytics.

Potential of similar attacks occurring due to lack of security controls and measures by third part

Holdings [edit]

Current [edit]

- [CommerceHub](#)
- [Staples](#) and [Staples Canada](#) (Acquired 2017)^[4]
- Pure Fishing (Acquired January 2019)^[5]
 - Brands include: [ABU Garcia](#), All Star, [Berkley](#), Chub, Fenwick, Greys, Hardy, Hodgman, Johnson, JRC, Mitchell, [Penn](#), Pflueger, Sebile, [Shakespeare](#), SpiderWire, Stren, and [Ugly Stik](#).
- [Belk](#) (Acquired 2015)^[6]
- [Hot Topic](#) (Acquired 2013)^[7]
- MGF Sourcing, formerly known as Mast Global Fashions (Acquired 2011)^{[8][9]}
- NBG Home (Acquired 2017)^[10]
- [Talbots](#) (Acquired 2012)^[11]
- [The Limited](#) (Acquired 2017)^[12]
- [Torrid](#) (Acquired 2013)^[13]
 - In July, 2021, Sycamore Partners sold off 25.2% of the company to the public. It is currently traded on the New York Stock Exchange (NYSE) under the "CURV" symbol. Sycamore Partners currently owns 74.8% of the company.
- Premium Apparel LLC (affiliate of Sycamore Partners used to acquire [Ann Taylor](#), [Lane Bryant](#) and related brands from [Ascena Retail Group](#) in December 2020.)^[14]
 - [Ann Taylor](#)
 - [Lane Bryant \(Cacique\)](#)
 - [LOFT](#)
 - [Lou & Grey](#)
- [Azamara Cruises](#) (Acquired 2021)
- [Rona Inc.](#) (Acquired 2023)
- [Playa Bowls](#) (Acquired 2024)

Security Recommendations - Prevention & Mitigation

Networks

- Segment data streams, critical information
- Implement EDR, IPS, DLP, SIEM systems
- Implement MFA for access controls
- Conduct vulnerability assessments and Penetration testing (VAPT)

Organizational

- Vetting, Audits, and Compliance monitoring for third party organizations
- Operate on a Zero Trust Model
- Perform encryption (in transit and at rest)
- Ensure cloud providers controls are regularly assessed
- Create and implement incident response plan (IRP)

Security Recommendations - Prevention & Mitigation 2

Employees

Ensure security awareness training (Password hygiene, Phishing, IOCs, Malware prevention)

Incentivize security event reporting

Mandatory secure device usage and remote device policies

Perform phishing simulations

Continually review privileged access accounts (RBAC)

Sources & Bibliography

1. Gal, Alon. "Largest Retail Breach in History: 350 Million "Hot Topic" Customers' Personal & Payment Data Exposed *InfoStealers*, 23 Oct. 2024, www.infostealers.com/article/largest-retail-breach-in-history-350-million-hot-topic-customers-personal-and-payment-data-exposed-as-a-result-of-infostealer-infection/
2. Kan, Michael. "Hacker May Have Breached Hot Topic, Stolen Data on Millions." PCMag, PCMag, 23 Oct. 2024, www.pcmag.com/news/hacker-may-have-breached-hot-topic-stolen-data-on-millions
3. "What Is InfoStealer Malware and How Does It Work?" Packetlabs, 2014, www.packetlabs.net/posts/what-is-infostealer-malware-and-how-does-it-work/
4. "CCPA Fines: Consequences of Non-Compliance | CCPA Enforcement." [Https://Secureprivacy.ai/](https://Secureprivacy.ai/), secureprivacy.ai/blog/ccpa-fines
5. "Sycamore Partners." Wikipedia, 27 Oct. 2021, en.wikipedia.org/wiki/Sycamore_Partners
6. Sead Fadilpašić. "Millions of Hot Topic Shoppers Have Data Stolen by "Satanic" Hacker." TechRadar, TechRadar pro, 24 Oct. 2024, www.techradar.com/pro/security/millions-of-hot-topic-shoppers-have-data-stolen-by-satanic-hacker
7. Siemons, Jorja. "Hot Topic Sued after "Satanic" Hacker Stole Customer Data (1)." @BLaw, 28 Oct. 2024.news.bloomberglaw.com/us-law-week/hot-topic-sued-after-breach-allegedly-exposed-thousands-data