



Topic: Software and systems for businesses and how employees can ensure security of company data

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AGENDA

- 01 Today's Threat Landscape
- 02 What Really Happens in an Attack?
- 03 I've Been Compromised: What Are My Options?
- 04 What Must I Do to Stay Secure?
- 05 Can I Afford it?
- 06 Q&A

Cybersecurity Attacks Are Everywhere

Software ate the world, and cyber attacks are now a global threat touching every aspect of the modern economy

2019-2023
Value at risk globally
from cyberattacks

\$5.2
trillion

SHIPPING



Shut down 17 Maersk shipping terminals globally for more than a week

HEALTHCARE



First ransomware-related death

FINANCE



143 million Americans affected.

INFRASTRUCTURE



3 Ukrainian power distribution companies disrupted; 230K people without electricity for 1-6 hrs

HOSPITALITY



4 year undetected breach ; 500 million customers affected.

Garmin outage caused by confirmed WastedLocker ransomware attack

By [Sergiu Gatlan](#)

July 24, 2020 12:57 PM 1



08/01/20 Update: Sources had told BleepingComputer that Garmin paid the ransomware. Today, in a new article we describe how we obtained the WastedLocker decryptor acquired by Garmin and a restoration package created by their IT department.

Wearable device maker Garmin shut down some of its connected services and call centers on Thursday following what the company called a worldwide outage, now confirmed to be caused by a WastedLocker ransomware attack.

CYBER SECURITY NEWS · 2 MIN READ

Canon Suffers a Maze Ransomware Attack Leaking Terabytes of Data

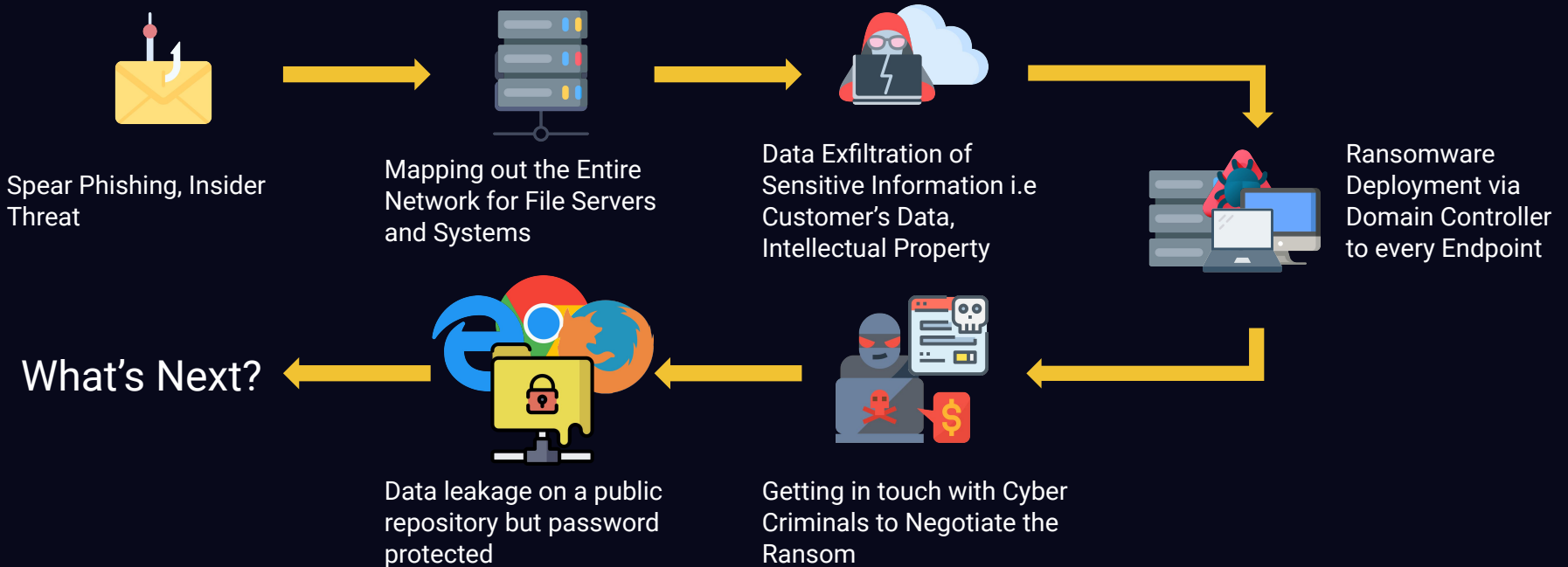
ALICIA HOPE · AUGUST 14, 2020

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Canon services suffered an outage caused by a maze ransomware attack, affecting internal applications, email servers, Microsoft Teams, and the USA website. Bleeping Computer said 24 Canon domains were possibly affected by the attack. For six days since July 30, image.canon was inaccessible and sent frequent status updates until the problem was resolved on August 4. Although Canon initially downplayed the attack, the organization later sent a company-wide memo saying it had experienced a ransomware attack, and technicians were working to resolve the issue.

A compromise is one too many!

What Really Happens in an Attack?



So, do I pay?

58%

Extortionist attempt to extort a **2nd Ransom** after receiving 1st payment

42%

Did **NOT** decrypt the files after receiving payment

3%

Files **lost** or **corrupted** during the encryption and decryption process

PDPA Fines

In the event of a data breach, a company can be fined up to **10 per cent** ... of its **annual turnover** in Singapore or **\$1 million, whichever is higher.**

Steps To Take to Ensure Proper Cyber Defense

1



Cybersecurity
Awareness

- Cybersecurity Awareness Training for Employees
- Adoption of good Cybersecurity Habits

Steps To Take to Ensure Proper Cyber Defense



Enable 2FA/MFA

- MFA Secures Online Accounts at the Perimeter
- Low Cost / Free Options

Steps To Take to Ensure Proper Cyber Defense



Ensure Visibility
over any type of
New Activity

- Advance Security Controls to Detect Advance Threats (Insider?)

Steps To Take to Ensure Proper Cyber Defense

4



Have a Strong
Anti-Ransomware
Component

- Advance Security Controls to Stop potential Ransomware Attacks that Cripples Organisations

Steps To Take to Ensure Proper Cyber Defense

- Always be prepared for a rainy day! Adopt good End-to-End Process from Detection to Response

5



Good End-to-End Processes from Detection to Response

Steps To Take to Ensure Proper Cyber Defense

1



Cybersecurity Awareness

2



Enable 2FA/MFA

3



Ensure Visibility over any type of New Activity

4



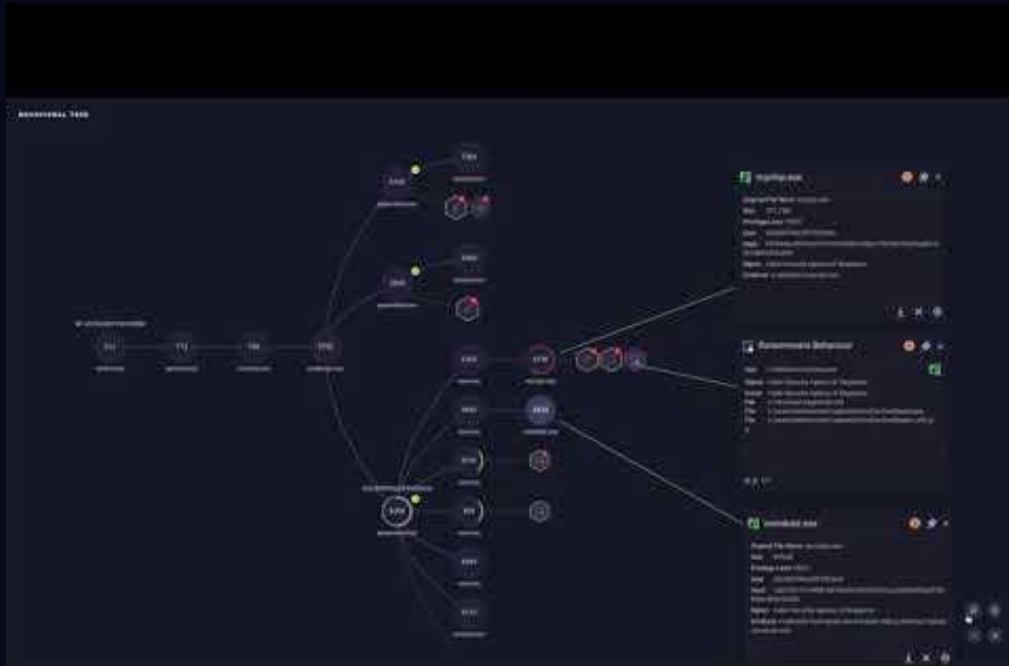
Have a Strong Anti-Ransomware Component

5



Good End-to-End Processes from Detection to Response

Asset Based Cyber Defense (ABCD)



<https://www1.raqta.com/raqta-abcd>

- **One-stop Security-as-a-Service** for businesses and individuals
- Addresses CSA 7 Essentials delivered in an integrated solution to make it a **cost-effective** solution for even small organisations.

Is It Affordable?

- ABCD is a Pre-Approved solution under **SME Go Digital**
<https://govassist.gobusiness.gov.sg/productivity-solutions-grant/itsolution/it/>
Under Pre-Scoped IT Solution -> IT -> Managed Detection and Response
- **Productivity Solution Grant (PSG)**
Funding up from 70% to 80% till 31st December 2020.
<https://govassist.gobusiness.gov.sg/productivity-solutions-grant/>

Quiz

Poll 4 (Spotting fake Web Links)

Identify the official web link from POSB/DBS

- a. ~~Internet-banking-dbs.com~~
- b. ~~POsb.com.sg~~
- c. Dbs.com.sg
- d. ~~dbsgainfo.com~~

Hackers usually try to replace similar looking letters with numbers or even typos to trick users into thinking they are at a legitimate site.



Q & A