DON´T GAMBLE
YOUR SECURITY

From Data Center Centric to Data Centric

Robert Rolle | NTT Security Division

3 Key Points

3 Key Points

Data Centric

3 Key Points

Data Centric

Consolidate & Reduce Complexity

3 Key Points

Data Centric

Consolidate & Reduce Complexity

Leverage Services

A Christmas story

Security in Real Life

Security in Real Life

4 Seconds

36 Seconds

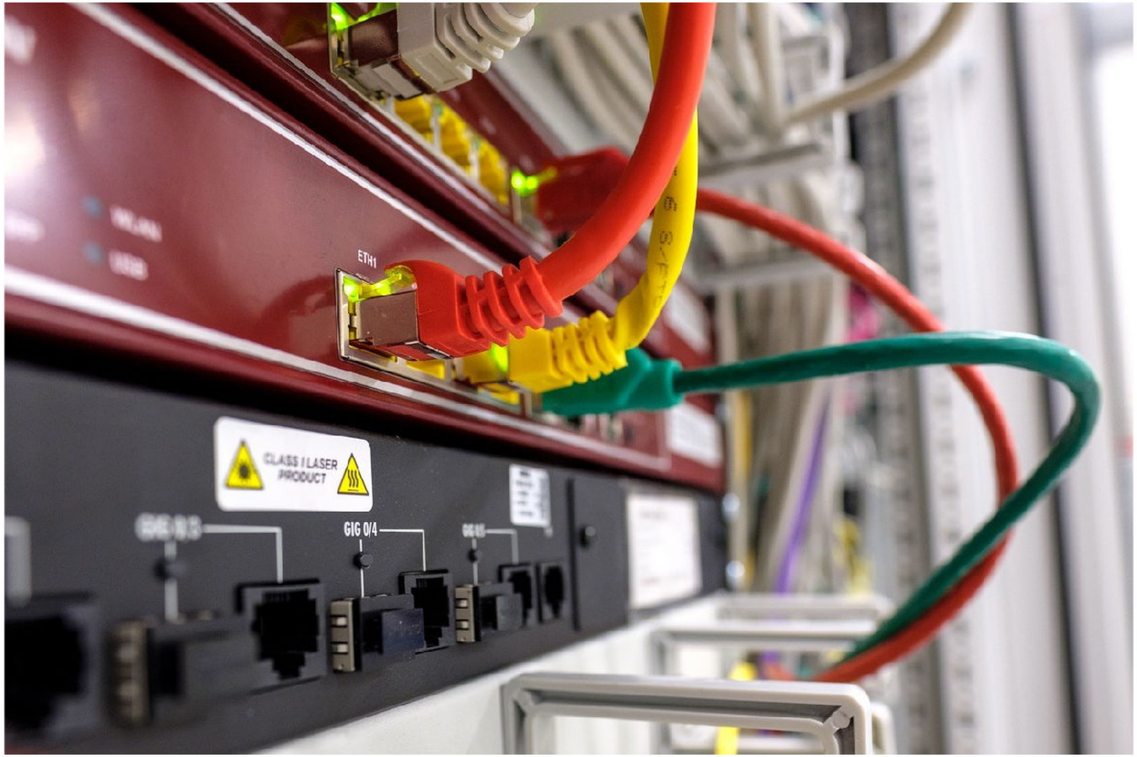
60% more cases

Security in Real Life

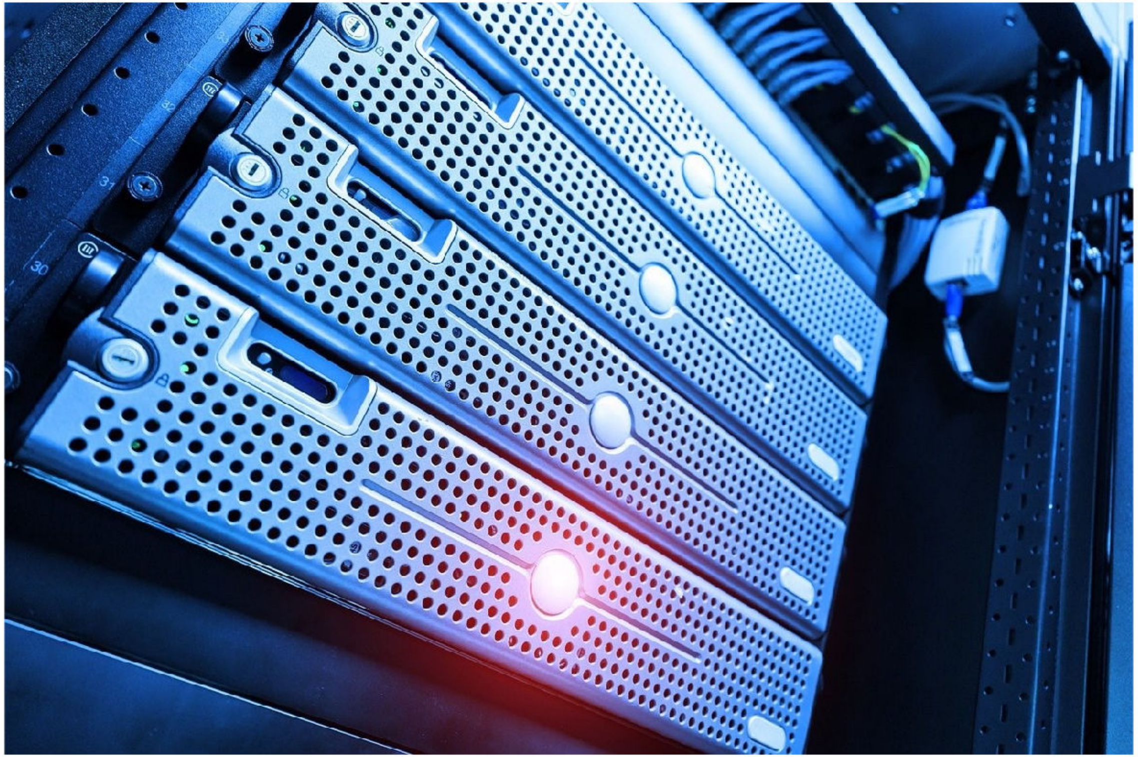
Security in Real Life

The Personal Story

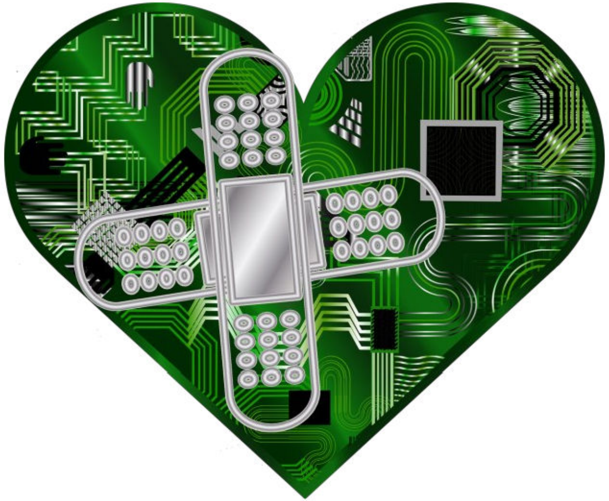
A «box» in a rack



A «box» in a rack



A «box» in a rack



A «box» in a rack

The Market Story

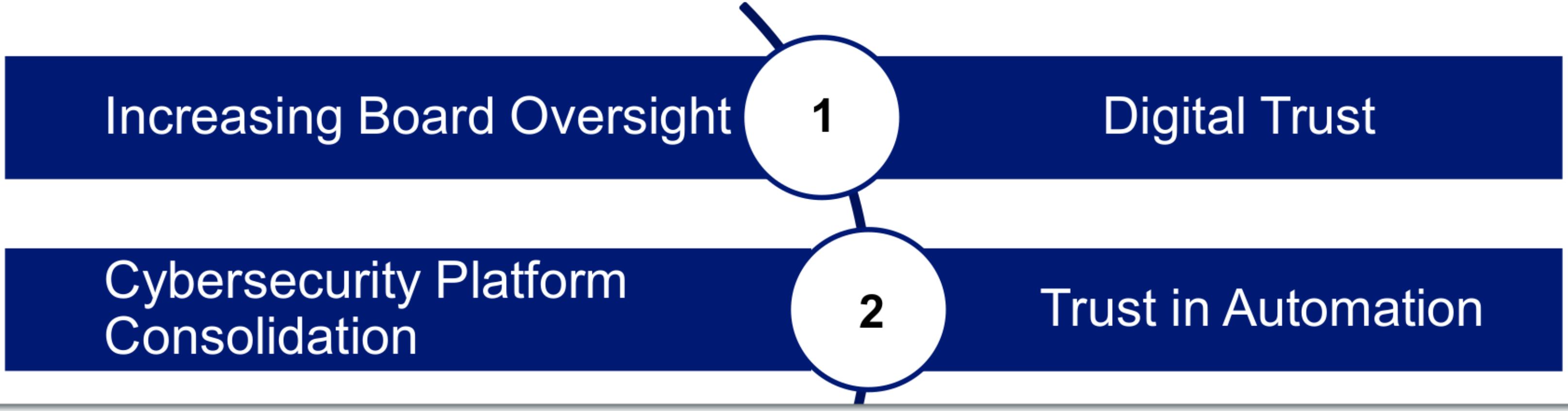
My top 3 security trends in 2023

Increasing Board Oversight

1

Digital Trust

My top 3 security trends in 2023



Increasing Board Oversight

1

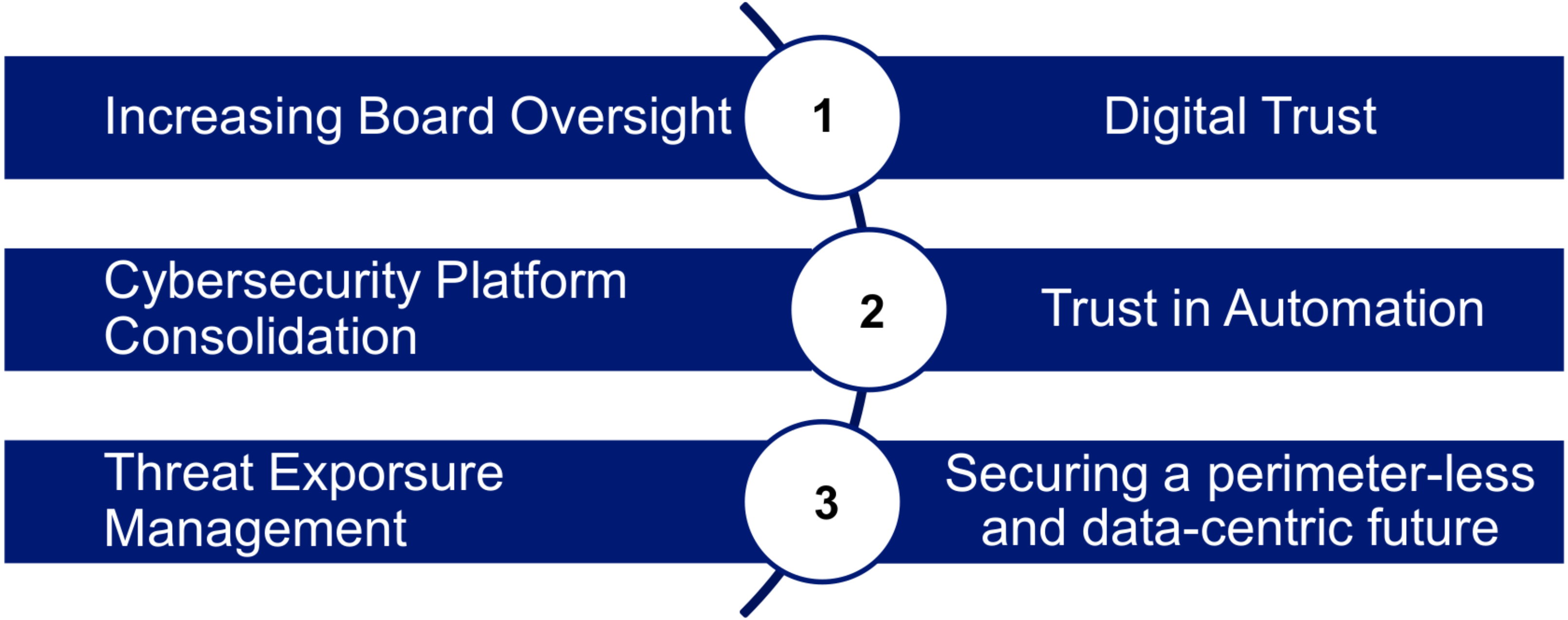
Digital Trust

Cybersecurity Platform Consolidation

2

Trust in Automation

My top 3 security trends in 2023



Increasing Board Oversight	1	Digital Trust
Cybersecurity Platform Consolidation	2	Trust in Automation
Threat Exporsure Management	3	Securing a perimeter-less and data-centric future

Gartner

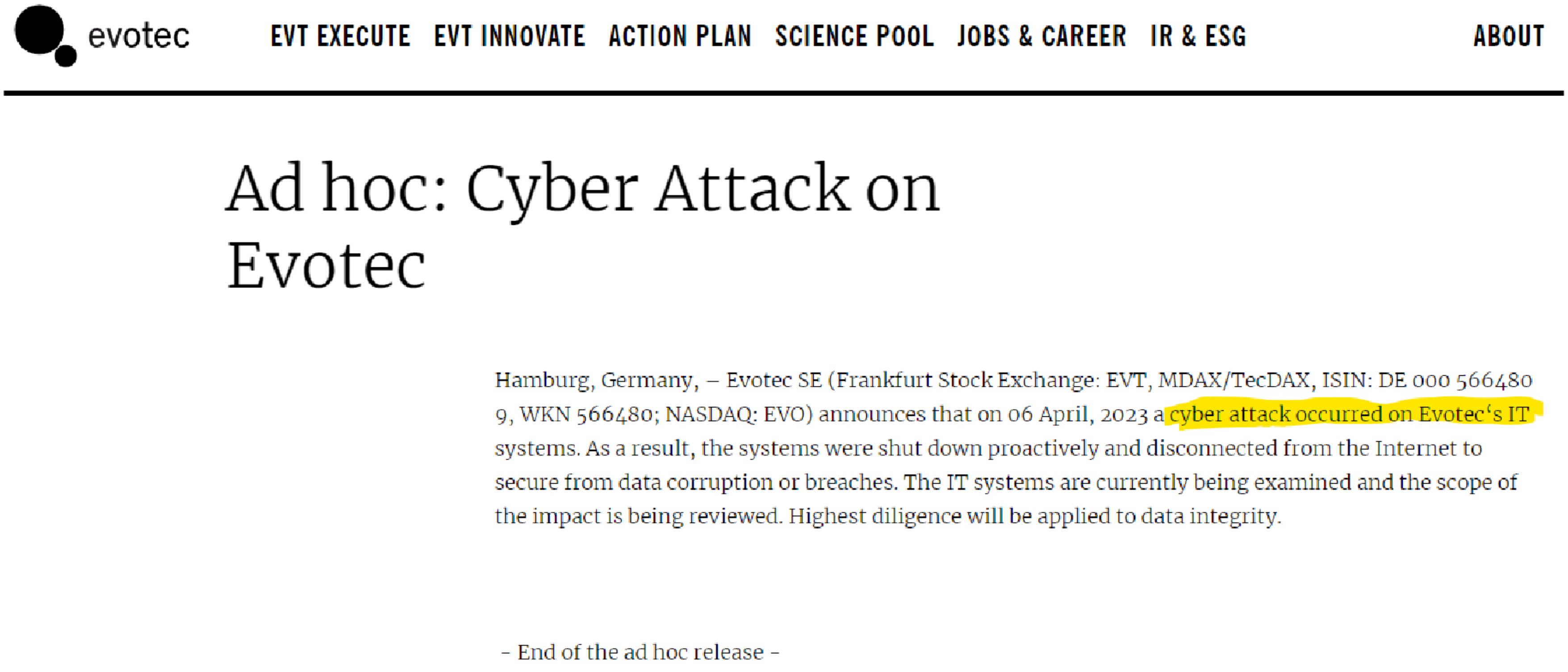
https://www.gartner.com/en/articles/top-strategic-cybersecurity-trends-for-2023

KPMG

https://kpmg.com/xx/en/home/insights/2023/02/cybersecurity-considerations-2023.html

Client Story One

Reality Check



Ad hoc: Cyber Attack on Evotec

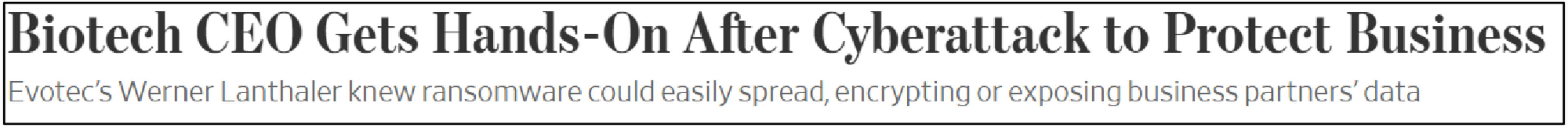
Hamburg, Germany, – Evotec SE (Frankfurt Stock Exchange: EVT, MDAX/TecDAX, ISIN: DE 000 566480 9, WKN 566480; NASDAQ: EVO) announces that on 06 April, 2023 a cyber attack occurred on Evotec‘s IT systems. As a result, the systems were shut down proactively and disconnected from the Internet to secure from data corruption or breaches. The IT systems are currently being examined and the scope of the impact is being reviewed. Highest diligence will be applied to data integrity.

– End of the ad hoc release –

Reality Check

evotec

(Xetra:EVT; NASDAQ:EVO)



Biotech CEO Gets Hands-On After Cyberattack to Protect Business

Evotec's Werner Lanthaler knew ransomware could easily spread, encrypting or exposing business partners' data

[The CEO] ***took an uncommonly active, public role*** in the cyber response at Evotec.

[The CEO] ***is convinced that his openness helped keep the business afloat***. “You can’t give any guarantee when you are back to productivity, so the loyalty of our partners was immediately on our mind,” he said.

1 Increasing Board Oversight

1 Digital Trust

Reality Check

evotec

(Xetra:EVT; NASDAQ:EVO)

Biotech CEO Gets Hands-On After Cyberattack to Protect Business

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Werner Lanthaler (CEO) ***knew ransomware could*** easily spread, ***encrypting or exposing business partners'*** **data**. “It was maybe a 20-second discussion,” *he said. “Shutting down* was the only way to really protect our business model in the long run.”

1 Increasing Board Oversight

1 Digital Trust

Reality Check

NTT

evotec

(Xetra:EVT; NASDAQ:EVO)

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3 Threat Exporsure Management

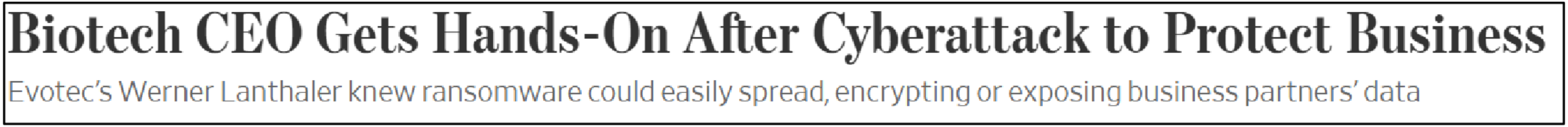
3 Securing a perimeter-less and data-centric future

Reality Check

NTT

evotec

(Xetra:EVT; NASDAQ:EVO)



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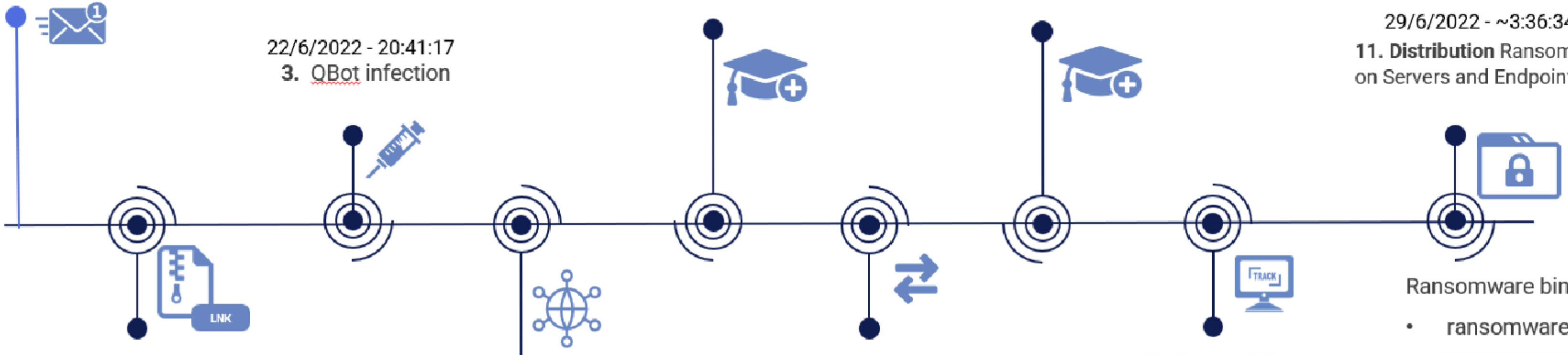
"he [Lanthaler] believes companies could ***recognize threats earlier if they shared their internet traffic monitoring*** indicators. "If you're working with a company on a protein degradation topic, why not also collaborate with them on cybersecurity?"

2 Cybersecurity Platform Consolidation

2 Trust in Automation

Client Story Two

The timeline of mischief – anonym client



22/6/2022 - 17:52:25
1. Entry (impersonation E-Mail)

2. Unpacking
-> Shortcut
22/6/2022 - 20:40:00

22/6/2022 - 20:41:17
3. QBot infection

4. Reconnaissance
22/6/2022 - 20:59

24/6/2022 - 14:22:06
5. Privilege
Escalation

6. Lateral
Movement
24/6/2022 - 14:22:24

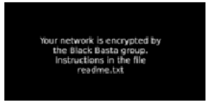
27/6/2022 - 18:06:38
7. Credential dump
(Domain-Controller)

8. SystemBC
28/6/2022 - 18:31:18

29/6/2022 - ~3:36:34
11. Distribution Ransomware
on Servers and Endpoints:

Ransomware binary:

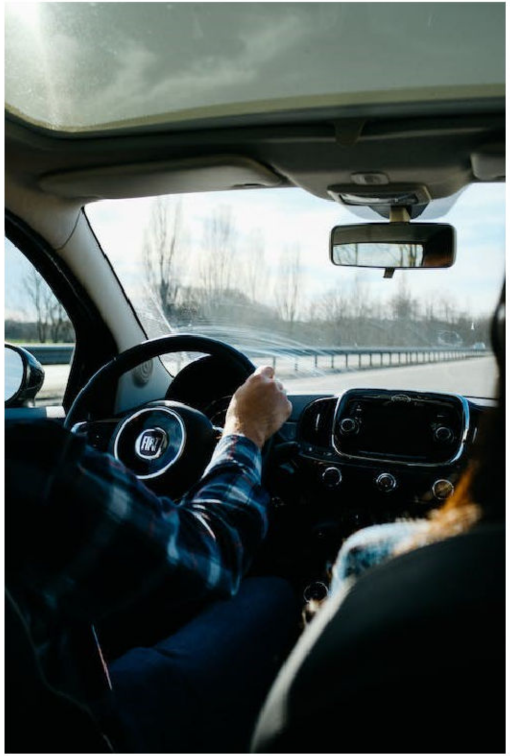
- ransomware.exe



Your network is encrypted by
the Black Basta group.
Instructions in the file
readme.txt

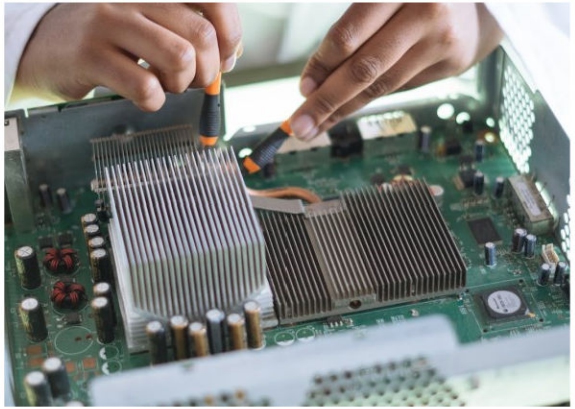
Data exfiltration

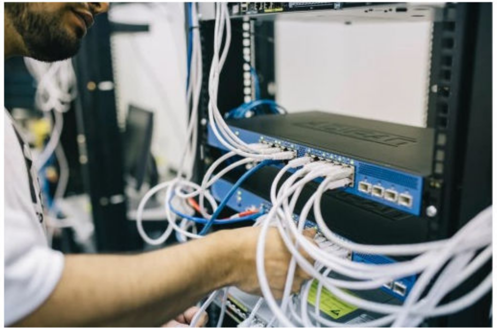
In the life of our DFIR team



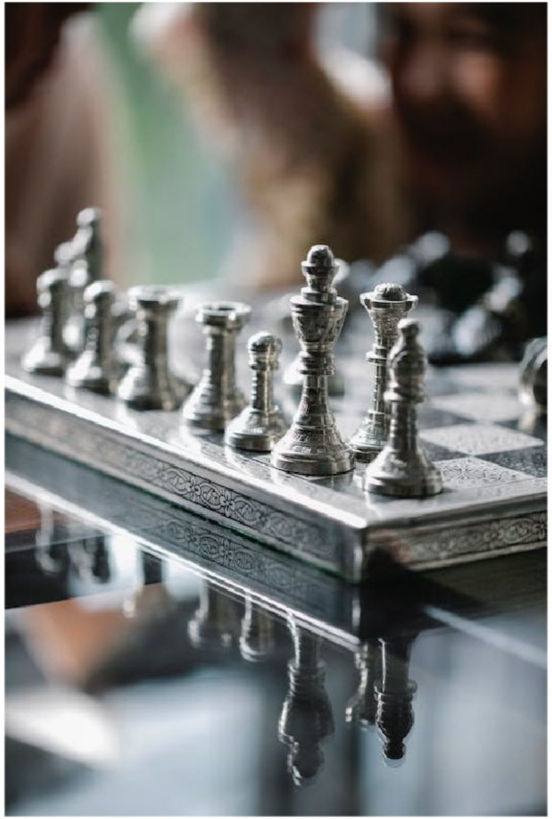
The firefighters are coming

Actions – Heavy Lifting





Lessons learned



The moral of the story

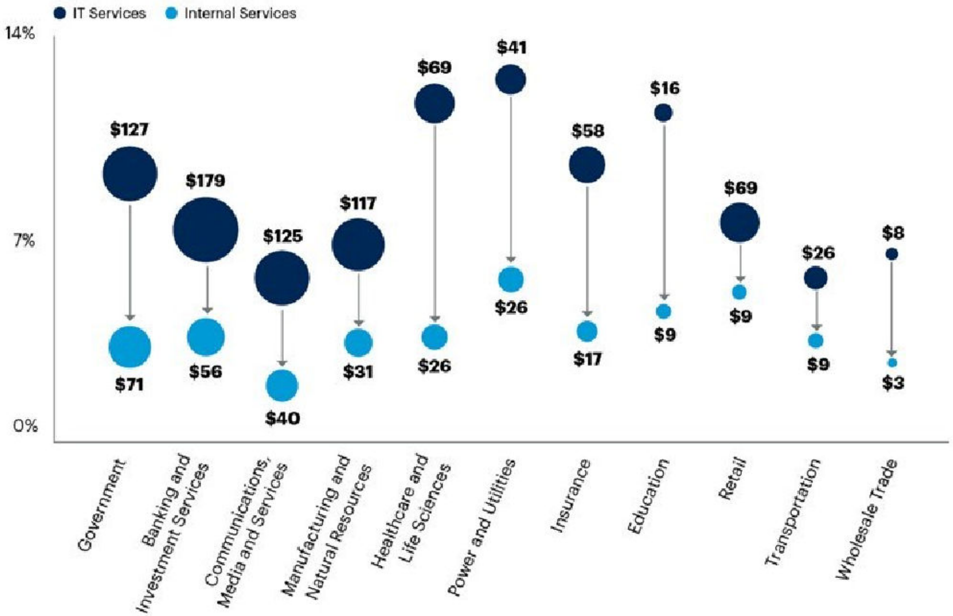
Security investments: With leverage?

	Manufacturing (n=76)		Retail (n=89)		Healthcare (n=75)		Education (n=52)		Banking (n=101)		Insurance (n=96)		Energy (n=85)		Utilities (n=65)	
Firewall and VPN appliances	79%	75%	74%	65%	80%	67%	73%	75%	71%	70%	69%	71%	81%	75%	71%	75%
UTM appliances	82%	71%	63%	58%	80%	75%	69%	75%	69%	67%	75%	75%	82%	75%	83%	75%
Content filtering and anti-spam appliances														67%	68%	72%
Network monitoring and access control														69%	60%	60%
MFA														72%	66%	74%
Intrusion prevention systems														73%	68%	75%
Application security														71%	60%	63%
Fraud prevention and transactional security														66%	65%	75%
Messaging security	82%	71%	70%	66%	69%	71%	79%	69%	67%	67%	70%	68%	75%	67%	71%	71%
Web security	82%	74%	65%	64%	79%	68%	73%	71%	71%	64%	71%	61%	68%	66%	60%	65%
Security intelligence and management	80%	72%	66%	65%	72%	64%	73%	67%	62%	63%	71%	74%	74%	66%	72%	66%
Data protection/security	79%	78%	74%	66%	77%	73%	73%	65%	68%	66%	63%	64%	71%	66%	63%	69%
Endpoint security platforms	79%	70%	58%	67%	72%	69%	65%	60%	68%	60%	69%	68%	69%	79%	68%	63%
IAM	79%	67%	58%	65%	75%	76%	77%	67%	73%	60%	72%	65%	72%	80%	66%	65%
Network security	79%	71%	64%	64%	79%	69%	85%	73%	70%	55%	72%	63%	80%	71%	69%	66%
Server security	74%	72%	71%	67%	77%	69%	75%	73%	70%	61%	68%	64%	73%	76%	63%	75%

Firewalls, VPN & Application Security

Is it a wise use of their money?

Service Spending Versus Internal Spending
Billions of Dollars



Source: Gartner

Note: Bubble size represents spending.

Source: Gartner Forecast Analysis: IT Spending, Worldwide, 3Q 2022, Dec 2022

3
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Leverage Services

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NTT

Securing our connected future

Robert Rolle | NTT Security Division