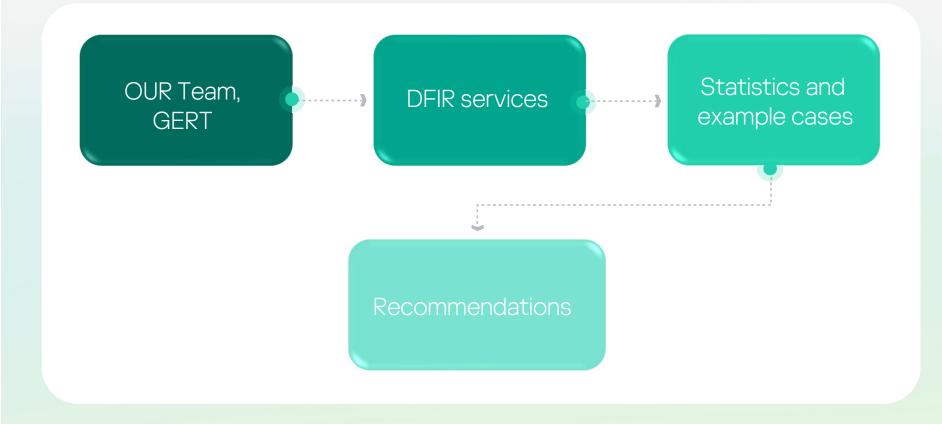


Roadmap 2































We speak English, Arabic, German, Italian, Russian, Spanish and French languages

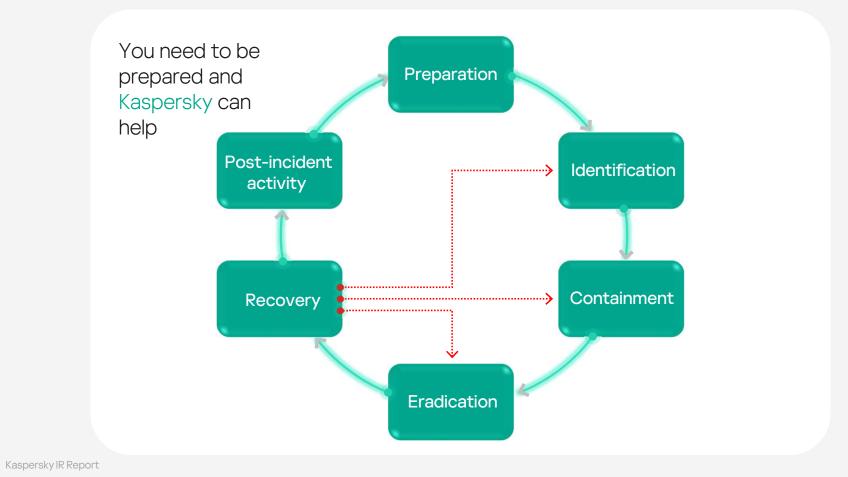


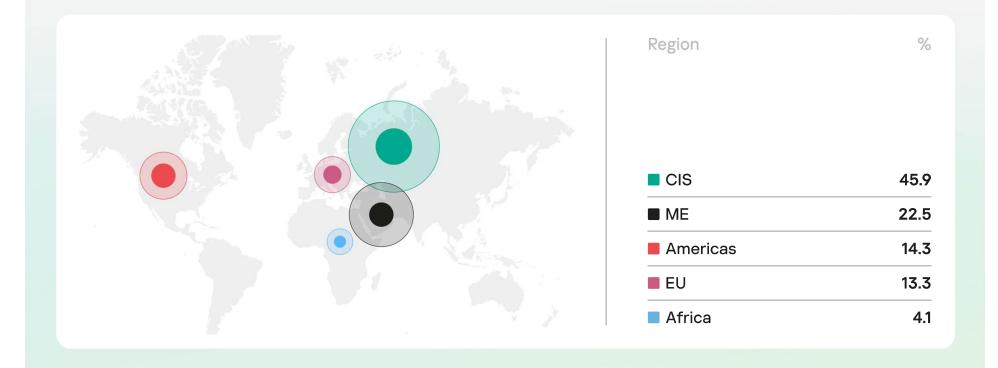


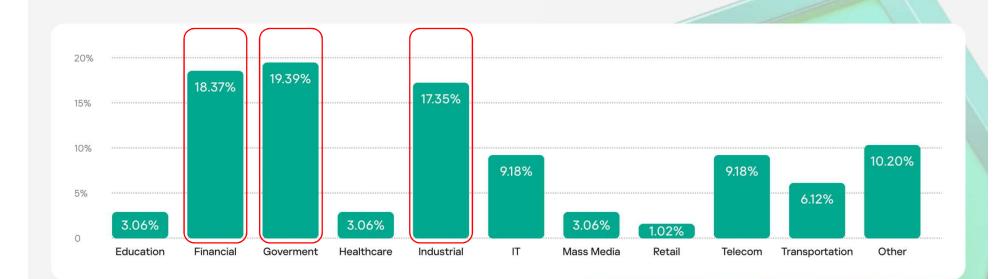
Read full report at:

https://securelist.com/kaspersky-incident-response-report-2022/109680/

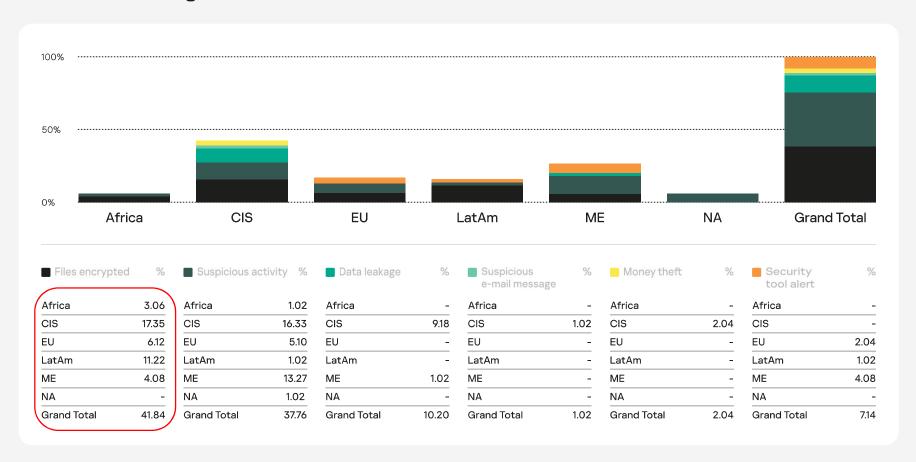
Incident Response Service



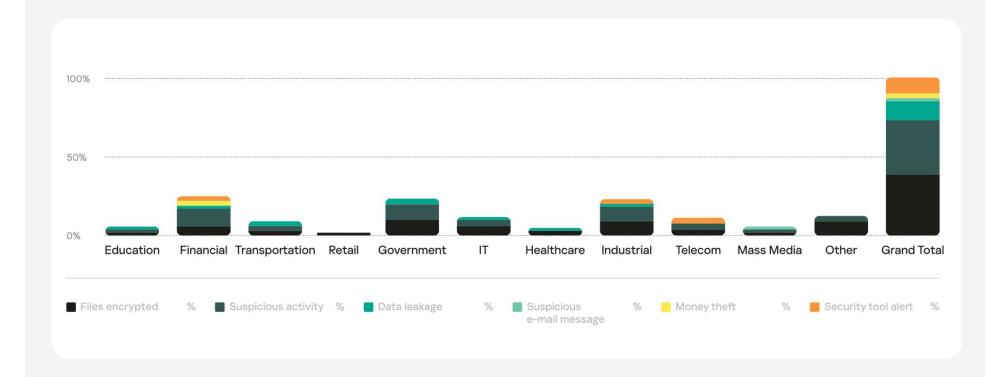




2022 Reasons VS Regions



2022 Reasons VS Industries



Sample case _ Ransomware Everywhere (**Hive**)

REDLINE/Racoon stealer activity including privileged accounts credentials:

- Atlassian
- Corporative Email
- Corporate services

RDP – Initial access vector (Based on TA)

RDP

ACCESS

27/10 RDP Access on behalf of privileged domain account.

Pack.exe downloaded and executed.

04/11 Screen connect + LogMeIn installed

05/11 both payloads (Windows and Linux) arrive to system.



05/11/2022 Ransomware was deployed in the MS Windows infrastructure using a GPO + PSExec

17/11/2022 A new wave of ransomware spread directed to Linux systems (ESXi). SSH access.

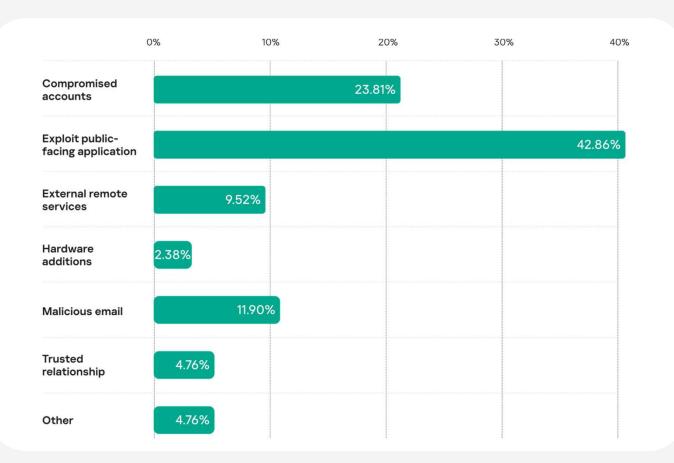
Oct 2022

SERVER A

Nov 2022

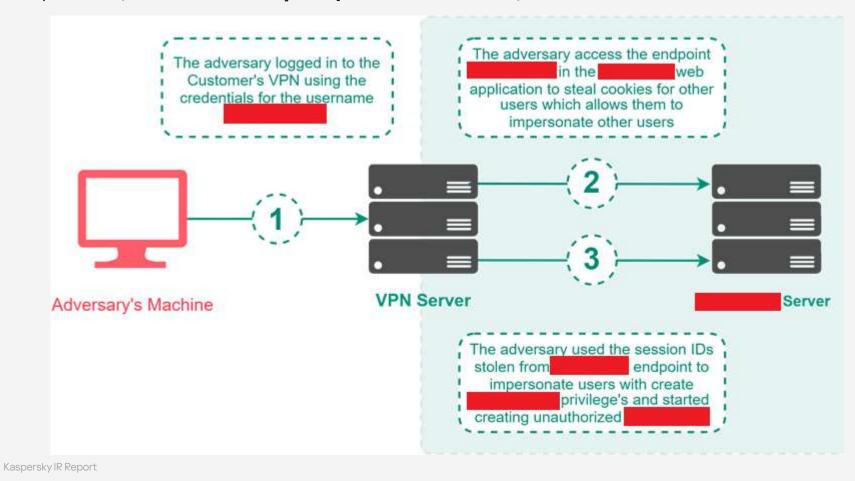
Kaspersky IR Report

DC ***

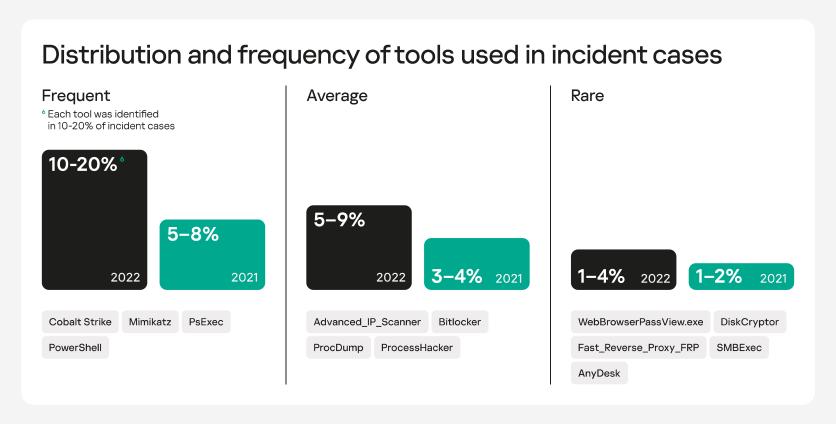


	2019 Place	%	2020 Place	%	2021 Place	%	2022 Place	%
Exploit Public Facing Apps	1	37%	2	31.5%	1	53.6%	1	42.9%
Compromised accounts	3	13%	1	31.6%	2	17.9%	2	23.8%
Malicious e-mail	2	30%	3	23.7%	3	14.3%	3	11.9%

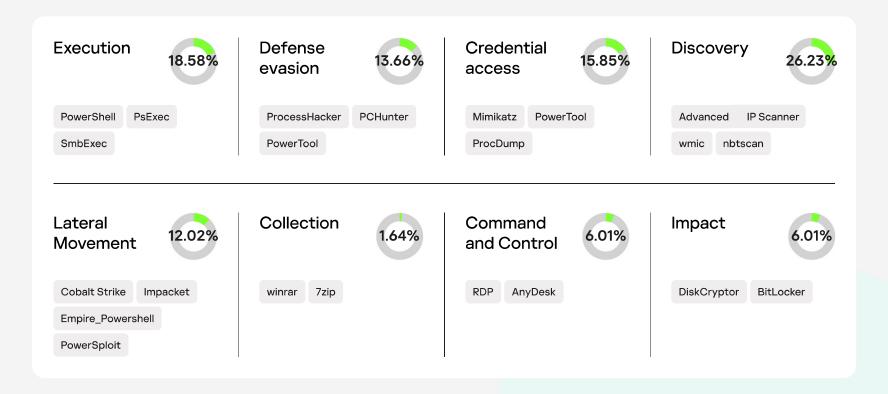
Sample case (Insider with valid/compromised accounts)



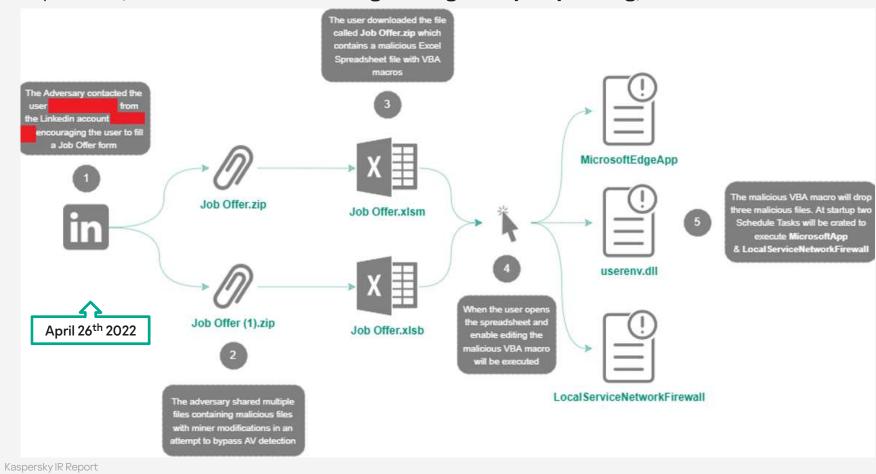
Tools Used in Attacks



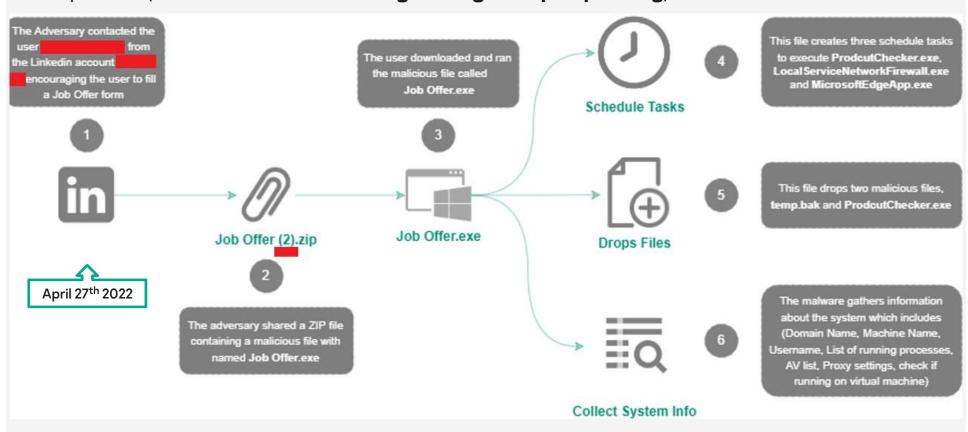
Tools Used in Attacks



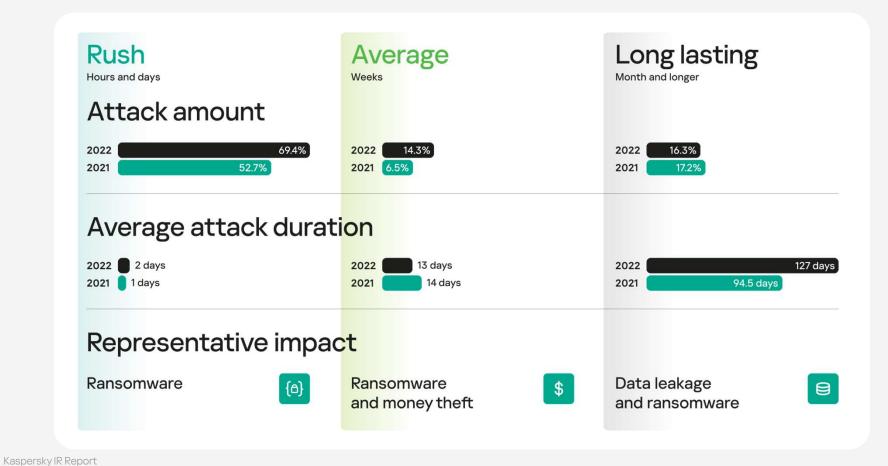
Sample case (PowerShell after social engineering and Spearphishing)

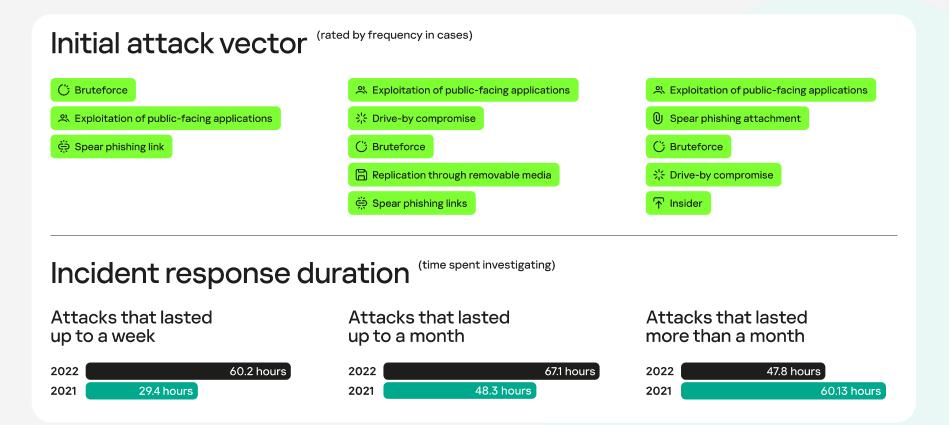


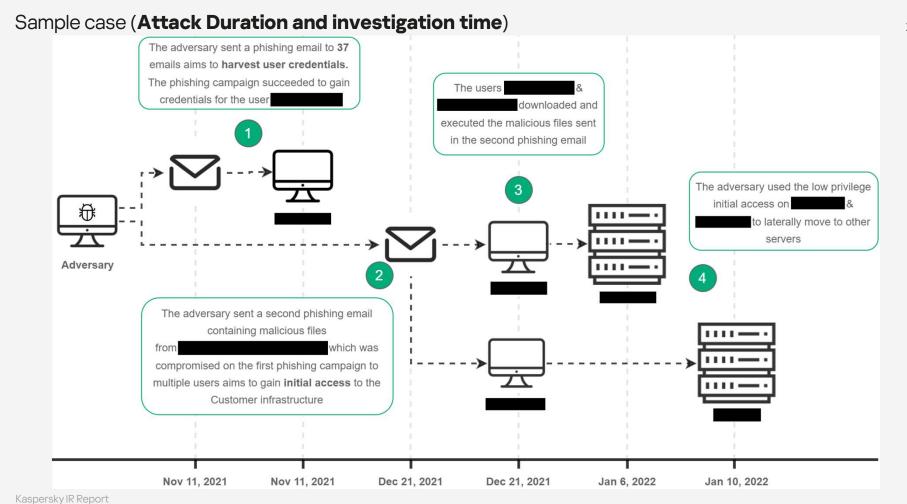
Sample case (PowerShell after social engineering and Spearphishing)



Attack Duration 18



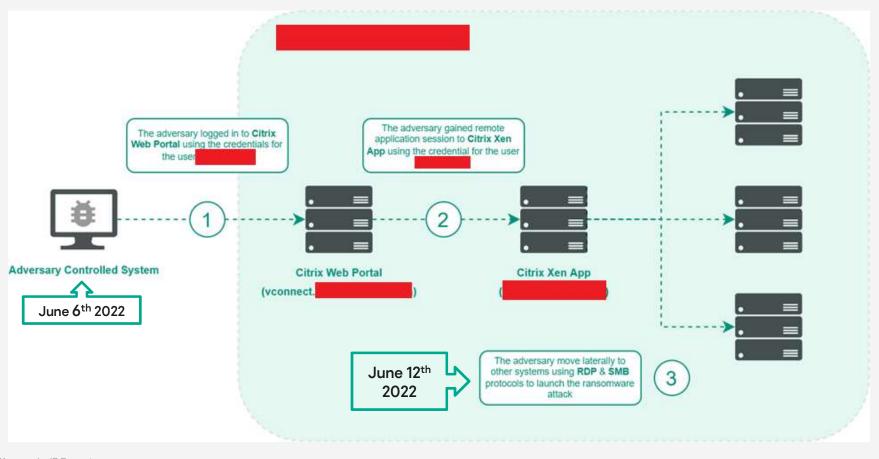




Attack	duration	

Initial attack vector	Hours	Days	Weeks	Months	Years	Grand total
Compromised accounts	9.52%	2.38%	4.76%	7.14%	0.00%	23.81%
Exploitation of public-facing applications	4.76%	14.29%	9.52%	11.90%	2.38%	42.86%
External remote services	2.38%	4.76%	2.38%	0.00%	0.00%	9.52%
Malicious email	2.38%	2.38%	2.38%	4.76%	0.00%	11.90%
Trusted relationships	0.00%	2.38%	0.00%	2.38%	0.00%	4.76%
Hardware additions	2.38%	0.00%	0.00%	0.00%	0.00%	2.38%
Other	2.38%	2.38%	0.00%	0.00%	0.00%	4.76%
Grand total	23.81%	28.57%	19.05%	26.19%	2.38%	100.00%

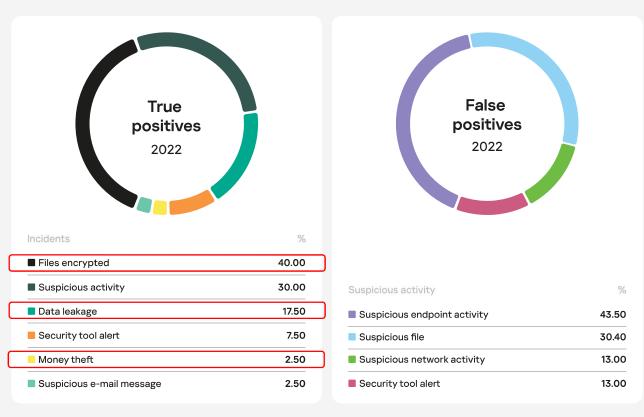
Sample case (**Ransomware**)

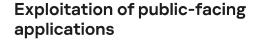


Exploits in Incidents



23.5% of all incident response requests were for false alarms







Compromised accounts

2022 23.8% 2021 17.9%

Malicious email

2022 11.9% 2021 14.3%

Recommendations

- Implement a robust password policy and multifactor authentication
- Remove management ports from public access
- Establish a zero-tolerance policy for patch management or compensation measures for public-facing applications
- Ensure that employees maintain a high level of security awareness



Recommendations (Attack Tools and Detection)

2022 6.0%

2021

9.7%

Mimikatz

2022

2021 9.7%

Cobalt Strike

PowerShell

2022

4.4%

2021

8.6%

PsExec

2022

10.4% 10.8%

2021

Other

2022

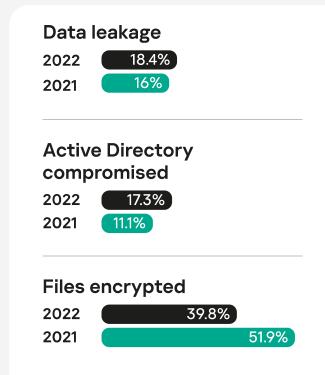
15.3%

2021

0.9%

Recommendations

- Implement rules for detection of pervasive tools used by adversaries
- Employ a security toolstack with EDR-like telemetry
- Constantly test reaction times of security operations with offensive exercises
- Eliminate usage of similar tools by internal teams (IT)



Recommendations

- Back up your data
- Work with an Incident Response
 Retainer partner to address
 incidents with fast SLA
- Implement strict security programs for applications with PII
- Continuously train your incident response team to maintain their expertise and stay up to speed with the changing threat landscape



Questions

Ayman Shaaban DFIR Manager, GERT

kaspersky

