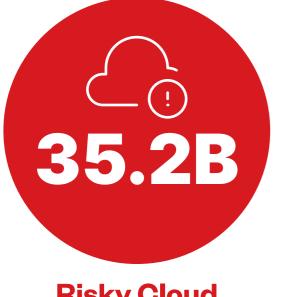


STEPPING AHEAD OF RISK TREND MICRO 2023 MIDYEAR CYBERSECURITY THREAT REPORT



Top Risk Events

detected via Trend Micro Attack Surface Risk Management (ASRM)



Risky Cloud Access

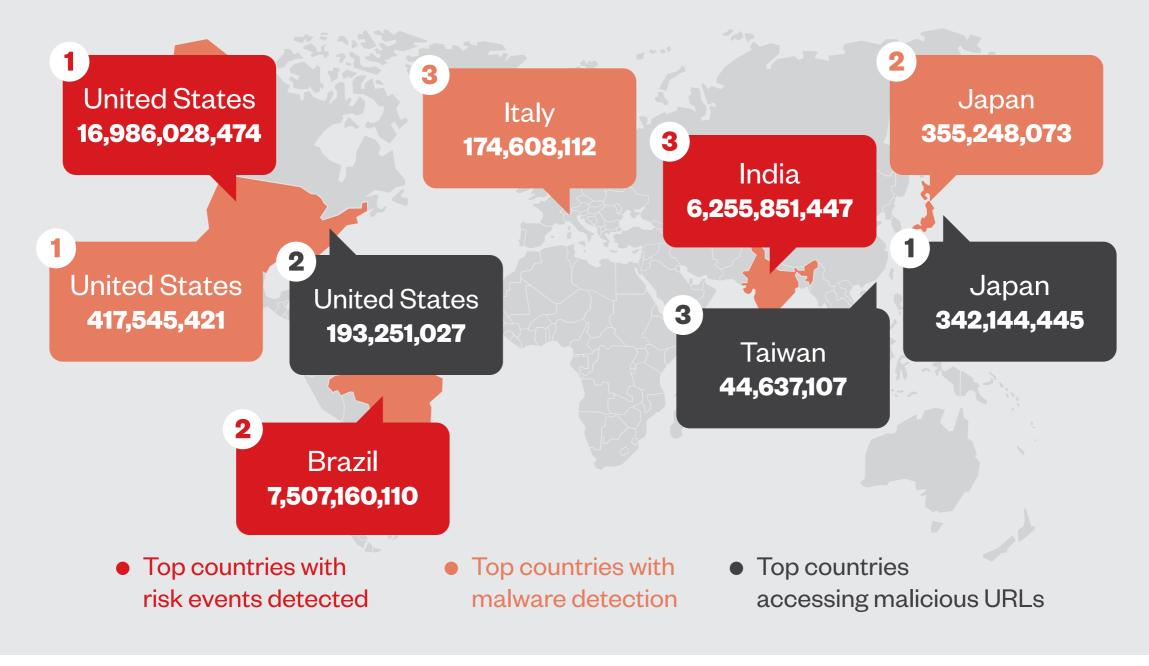


Access

The top two risk events detected via ASRM involve risky cloud applications and accessing risky websites.

Top 3 Countries

with risk events, malware detection, and malicious URL access



Top 5 Industries

affected by malware campaigns

In the first half of 2023, malware campaigns targeted government organizations the most with 145,912 detections.

HEALTHCARE

MANUFACTURING

144



GOVERNMENT

5_9K



The top CVE abused is specific to log4j-core. This data is based on combined data from Trend Cloud One™, Trend Micro Apex One™, Trend Micro™ Deep Security™ Software, and Trend Micro™

CVEs	Severity Rating	ID	Solutions
CVE- 2021- 44228	CVSS: 10.0 critical An attacker who can control log messages or log message parameters can execute arbitrary code.	1011242	Deep Security Software
CVE- 2018- 0833	CVSS: 5.3 medium Microsoft Server Message Block 2.0 and 3.0 client in specific Windows versions could allow a denial-of-service (DoS) vulnerability.	1008915	Trend Micro Apex One
CVE- 2022- 30522	CVSS: 7.5 high A vulnerable Apache HTTP Server 2.4.53 could allow excessively large memory allocations and trigger an abort.	1011466	Deep Security Software

101.4K

EDUCATION

TECHNOLOGY

Top Riskiest CVEs

exploited in the wild

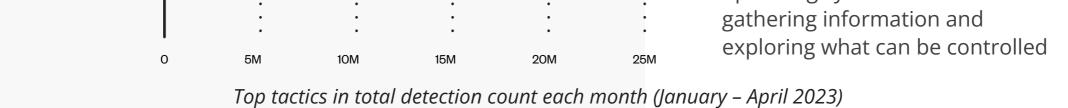
The top five riskiest CVEs exploited in the wild and detected by our ASRM telemetry show vulnerabilities in Windows operating systems.

CVEs	Severity Rating
CVE-2023- 28252	CVSS: 7.8 high Windows Common Log File System Driver Elevation of Privilege Vulnerability
CVE-2023- 24880	CVSS: 4.4 medium Windows SmartScreen Security Feature Bypass Vulnerability
CVE-2023- 21823	CVSS: 7.8 high Windows Graphics Component Remote Code Execution Vulnerability
CVE-2023- 23376	CVSS: 7.8 high Windows Common Log File System Driver Elevation of Privilege Vulnerability
CVE-2023- 21674	CVSS: 8.8 high Windows Advanced Local Procedure Call (ALPC) Elevation of Privilege Vulnerability

Top 5 Detected Tactics

found overall in endpoints, networks, and email

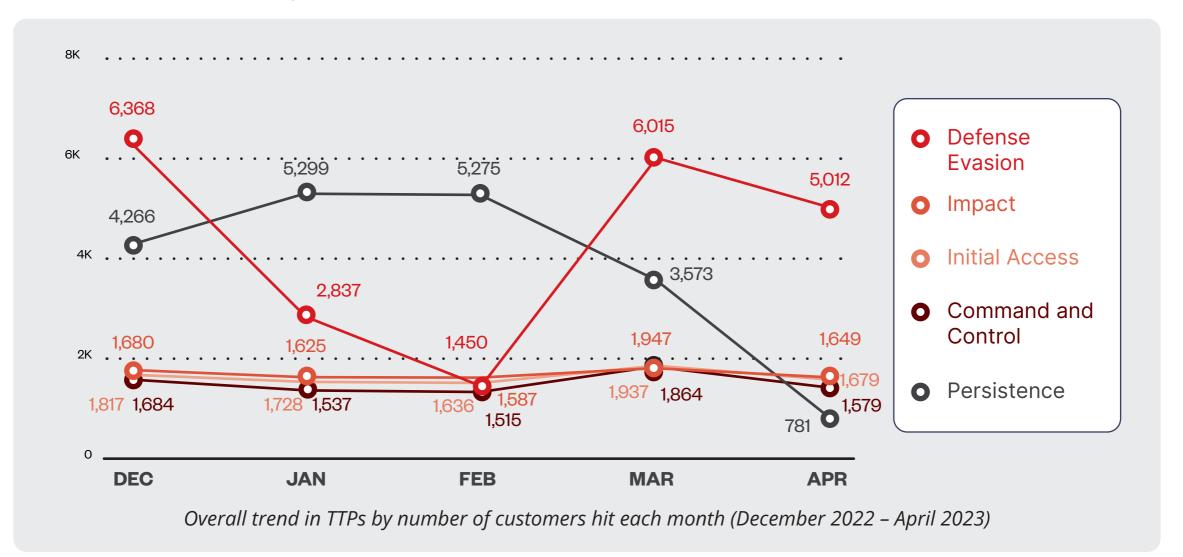
Initial Access (TA0001)	21,734,4	 Includes but is not limited to targeted spear phishing and exploiting weaknesses on public-facing web servers
Command and Control (TA0011)	17,948,196	Commonly includes attempts to mimic normal, expected traffic to avoid detection
Lateral Movement (TA0008)	14,554,508	Can involve the use of remote access tools or legitimate credentials with native network and operating system tools
Defense Evasion (TA0005)	7,618;962	 Uninstalls or disables security software, or obfuscates and encrypts data and scripts Involves abusing trusted processes to hide the presence of malware
Discovery (TA0007)	6,520,737	 Pertains to techniques to gain knowledge about the system and internal network Involves the use of native operating system tools for



Top Tracked Trends

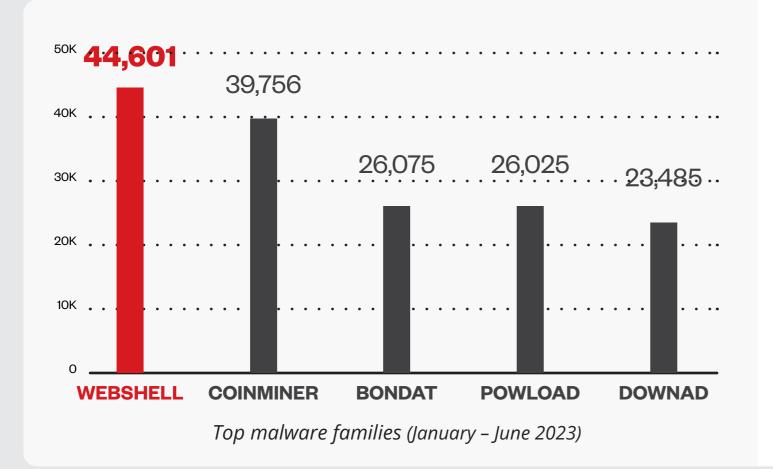
of detected tactics, techniques, and procedures (TTPs)

Detections from February to April show a shift in focus from Persistence to Defense Evasion and Impact tactics.



Top Malware Families

Three malware families maintained prolificacy in the first half of 2022 and 2023.



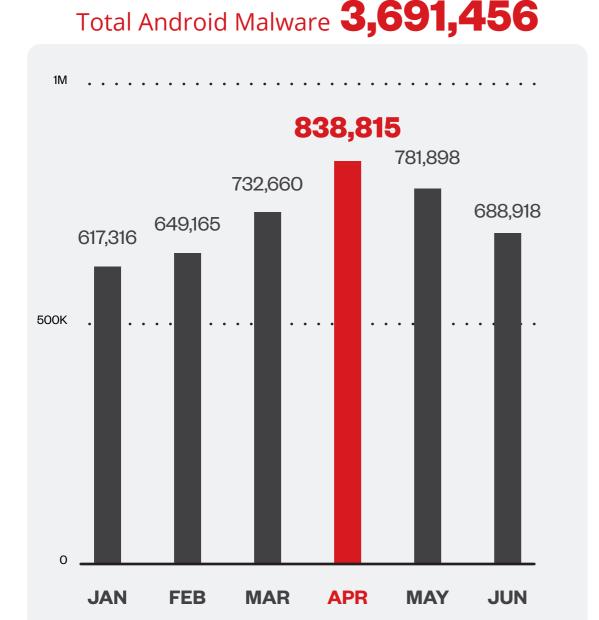
Webshell

- Had the most malware detections in the first half of 2022 and maintained this top spot in the first half of 2023.
- Exploits vulnerabilities in internet-facing web servers.

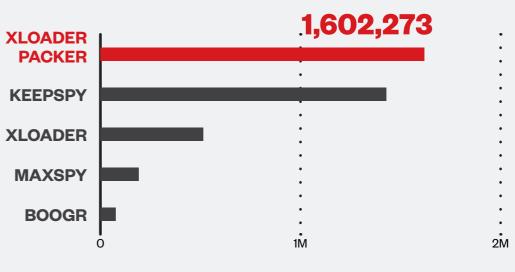
CoinMiner

 Was last reported as having exploited the Oracle WebLogic Server vulnerabilities (CVE-2020-14882)

Top 5 Android Malware Families



Top 5 Android Malware Families



Top 5 Android malware families (January – June 2023)

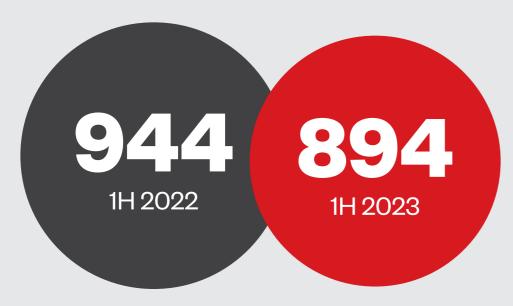
A new trojan malware family made it to the top five in the first half of 2023.

Boogr is a new trojan malware family first reported in May 2023. This piece of malware is capable of:

• Downloading malicious files

• Sending text messages

It was last reported as having exploited the Oracle



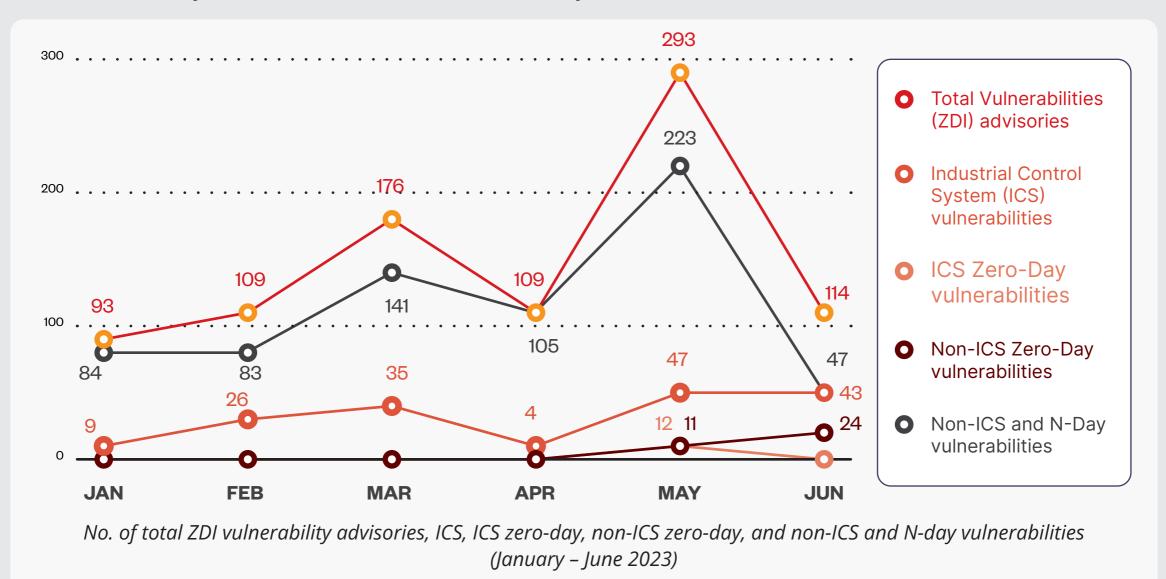
Vulnerabilities

There are 50 fewer zero-day vulnerability advisories in the first half of this year compared to last year.

No. of vulnerability advisories (1H 2022 vs. 1H 2023)

Vulnerability Advisories

There was an increase in zero-day exploit advisories and industrial control system (ICS) and N-day vulnerabilities from March to May 2023.



Top Recommendations to Lower Risk

$\left(\right)$	5
	ノ

Apply the latest patch or upgrade your operating system or application version.



Apply prevention rules from Trend Micro products to protect vulnerabilities from being exploited.



Optimize weak settings in your current environment.

\frown
/)

Avoid accessing reported risky applications or sanction them as necessary.



Disable or reset accounts with a strong password. Enable the Account Lockout Policy in your current environment.



Restrict user account usage on an affected device and verify and resolve high-risk events in the at-risk device.



Investigate the event using Trend Vision One[™] Workbench.



©2023 by Trend Micro, Incorporated. All rights reserved. Trend Micro, Trend Micro t-ball logo and Trend Vision One[™] Workbench are trademarks or registered trademarks of Trend Micro, Incorporated. All other company and/or product names may be trademarks or registered trademarks of their owners.

