

#### Web Security Trends and Insights 2023-2024

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### Web Security Insights **2023**



#### **Global Cybersecurity Shortage**

Cybersecurity budgets have been reduced
 compared to earlier years, yet critical security concerns remain the top priority



Rapid vulnerability use and diverse threat actors challenge global organizations.



Increase of number and volume of Distributed Denial of Service (DDoS) attacks



Current AI tools used for attacks provide mainly higher volume of attacks (not sophistication)



## Web Security Insights

Global security shortage, combined with the financial situation led some companies to compromise their security.



#### **DDoS Attacks are on the Rise**

Although lacking in sophistication, duration and volume increase constantly





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Top Countries			
Country	Hits	Passed	Blocks
🚍 Indonesia	218,551,958	3	218,551,955
United States	93,726,347	116,578	87,931,292
📥 Russia	59,322,149	24,283	58,563,860
💽 Brazil	55,911,982	11,280	54,392,292
India	46,987,721	15,534	45,890,981
- Colombia	46,469,012	3,990	45,995,822
dermany	39,511,544	17,874	39,353,714
🔛 China	38,109,297	10,383	36,940,998
Mexico	32,761,442	5,078	32,585,109
E Thailand	32,091,153	2,441	31,030,086
France	31,977,888	1,944	31,968,565
Vietnam	30,268,622	10,910	28,512,998
Bangladesh	26,529,862	1	26,529,861
📥 Ecuador	21,783,095	8,107	21,535,288
🚍 Singapore	21,763,141	5,038	20,503,282

Ton Countries



# Al in the Cyber Industry

Al is not fully utilized for attacks, this will change in the foreseeable future 

#### Web Attacks Against Israel Insights 2023



The war between Israel and Hamas has seen an ongoing series of cyberattacks waged against various Israeli institutions.

2

Hackers have ongoing access to significant and reliable source of financing for their activities.

3

Inconsistent in both timing and volume of attacks as well as lacking sophistication



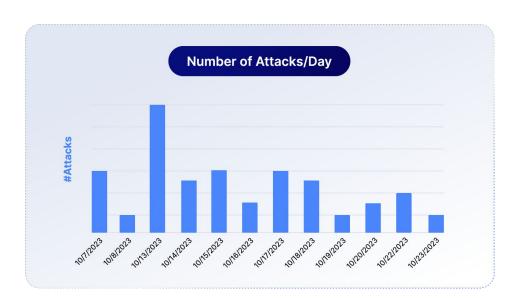
Hackers have made it even easier than usual to identify and correlate their activities

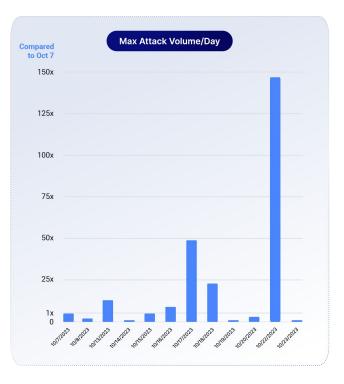


All of these facts combined means that defending against their attacks has been straightforward.



#### Web Attacks Since Oct. 7th





#### What can we expect in 2024?

Continuous, Ever Increasing Challenge

- The capacity of recruit talents in the organization is getting weaker
- Growing sophisticated cyber attacks
- Adoption of new digital technology like AI
- Old legacy technology can't take the new attacks
- Regulatory changes
- Geopolitical attacks for example on hospital to create more chaos
- Need to change from reactive to proactive
- Moving to a unified platform of cyber defense solutions to deal with increasing complexity



#### Got Questions? We've Got Answers.

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#### More Insights for 2023

- at the stage of the war, most of the attacks are aimed at harmMore than more attacks for espionage and information theft
- During this period we observed the use of techniques, tactics and procedures which were used frequently n other events in the world, such as the Ukraine-Russia war. About: Use of apostates and Wiper-type abusers
- A prominent attack outline is seen in a wide spraying activity in this outline, an attempt was made exploit known vulnerabilities and human error in applying configuration settings
   Misconfiguration, such as the use of weak passwords and the lack of enforcement to lock an account After setting a threshold for failed authentication attempts.
- Extensive use of distributed denial of service (DDoS) attacks at the application level (7Layer) (and at the media level as well as in website defacement (Defacement).
- Many attempts to penetrate various properties in the area in order to obtain a hold and realize leaked information and/or data deletion (Wiper).
- Phishing attacks through social engineering, both in emails and messages
  - SMS to increase reliability. Sometimes an element of sending personal information of the recipient is even added,
  - for him to activate the link or the link. It is true that this is a striking method of attack in the routine, but
  - During the war, a significant increase in this type of campaign was observed.
  - Attacking mobile applications (smartphone applications) or infrastructures of these applications,
  - 6 Through the publication of impersonating applications, exploiting security gaps in the application infrastructure, and more.
  - Assaults of organizations belonging to the MSP sector which constitute an essential supply chain
  - to many organizations in the economy. In this category you can find web hosting and hosting companies as well as companies
  - Integration and provision of ICT services.



### Web Security Insights **2023**



As the fighting drags on, the boldness and <u>creativity</u> of the attackers increases



Target organizations that serve many organizations -



Distributed Denial of Service (DDoS) attacks -



The existence redundancy



Using GeoLocation to prevent access by attackers from abroad

#### <u>כלי תקיפה ושיטות בשימוש תוקפים</u>

- שימוש בשיטות תקיפה מבוססות כלים המותקנים ביעד התקיפה כחלק ממערכת ההפעלה או 8.LOLBAS (Living Off The Land Binaries, Scripts and Libraries) היישומים (גועיט ביעד התקיפה ביעד התקיפה ביעד התקיפה ביעד החפעלה או
- הנגשת בלי תקיפה לשימוש גורמים ללא ידע טבני. לדוגמה, הנגשת אתר הכולל Script לתקיפת
  מניעת שירות (DDoS) באשר על התוקף רק להזין את כתובת יעד התקיפה.
- ניצול שירותים לשיתוף קבצים לטובת הפעלת כלי תקיפה או שימוש ביוזר לגיטימי לצורך גישה ראשונית לרשת הארגון, תוך מעקף אמצעי האבטחה וכן כערוץ להדלפת מידע. שירותים כגון Microsoft OneDrive, Google Drive, Dropbox, Discord Servers.
- שימוש בכלי קוד-פתוח (Open Source) שהוסבו על-ידי התוקפים, דוגמת DCOMpotato,
  שימוש בכלי קוד-פתוח (Open Source) שהוסבו על-ידי התוקפים, דוגמת יוגמת יוגמת,
- 5. שימוש בתשתיות Proxy ו-VPN חינמיות ומסחריות, או לחילופין עמדות קצה שהותקפו על מנת לשמש ב-Proxy ייעודי, לטובת עקיפת הגבלות כגון שימוש ב-GeoLocation למניעת גישה מחו"ל.
- ניצול לרעה של פונקציונליות לגיטימיות של מערך הדוא"ל הארגוני, לאחר השתלטות על תיבת
  דואר של אחד ממשתמשי הארגון. לדוגמה, הגדרת חוקי Outlook/OWA/Office365 לשליחת
  העתק דוא"ל לתוקף ומחיקת ההודעה שנשלחה.
  - <sup>11</sup>. שימוש ב-Reverse Shell לשם יצירת קשר עם שרת הניהול (C&C) והדלפת מידע.

#### Cyberwarfare 2023 - Key Takeaways

- Initial war phase lacked coordinated cyber attacks with the launch date; the significant surge happened six days later.
- The hackers repeatedly attacked various targets using the same group of IP addresses, making the connections between the attacks obvious.
- Terrorist-affiliated groups showed preparation with increased hostile activities before October 7, but the lack of immediate or organized escalation at the war's onset raises doubts about their coordinated cyberoffensive planning.