



### **NAVIGATING THE DIGITAL FRONTIER:**

Cyber Threats in the Israeli-Palestinian War



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### Introduction

In this report, we provide data on over **200,000 attack vectors** detected by the <u>ThreatMon Advanced Intelligence Platform</u> during the Cyber War in Israel and Palestine between **5th October and 13th October 2023.** This information is from the Threat Feed feature within the ThreatMon Advanced Intelligence Platform. Our Cyber Threat Intelligence Analysts at ThreatMon have carried out extensive analysis processes to present this data to you.

The conflict between Israel and Palestine continues to affect the regional and global agenda for years. However, rather than just the military and political dimensions of the conflict, cyber warfare has played an increasing role in recent years. This report aims to examine the cyber warfare dimension beyond the Israeli-Palestinian conflict and to reveal a less visible but highly influential aspect of this conflict.

By examining the cyber warfare capabilities and strategies of Israel and Palestine, this report aims to analyse how cyber warfare between these two sides began, how it has evolved and possible future trends.

It will also address the political, military and economic consequences of cyber warfare and how it is perceived around the world. The Israeli-Palestinian conflict is a complex issue that affects not only the two sides, but also the region and international relations. The rising role of cyber warfare in this conflict further complicates it and complicates the search for a solution.

Therefore, we hope that this report will shed light on this important issue and be a useful resource for all parties involved.



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### **Groups and Parties in Cyber Conflict**

The Israeli-Palestinian conflict has become a battlefield that has attracted the attention of not only military and political actors, but also the cyber world. Within this cyber war, there are a number of cyber groups and supporters who support both sides of the conflict or prefer to remain neutral.

**Pro-Israel Groups and Supporters:** Cyber groups that support Israel are known as Pro-Israel groups and are on the Israeli side of the conflict. These groups strengthen Israel's cyber defence strategies and engage in various cyber activities to protect the interests of the Israeli government.

Some pro-Israel groups and supporters include well-known names such as "GlorySec", "Indian Cyber Force", "UCC Team", "Garuna Ops", "SilentOne", and "IT ARMY of Ukraine".

Pro Palestine Groups and Supporters: Pro Palestine groups are cyber actors that support Palestine and advocate for the Palestinian side in the conflict with Israel. These groups defend Palestinian cyber security and Palestinian interests by conducting various cyber operations. Pro-Palestinian groups' cyber attacks against Israel usually target various sectors. These attacks can cover a range of different sectors, from the Israeli government and military infrastructure to financial institutions, the energy sector and healthcare. Government departments and critical infrastructure are one of the most frequently targeted areas for cyber espionage and DDoS attacks. Such attacks can negatively impact Israel's public services and military operations. In addition, critical infrastructure such as financial institutions and the energy sector are also frequent targets. By attacking these sectors, pro-Palestinian groups seek to create a digital impact against Israel and convey their political messages.

Pro-Palestinian groups include "KillNet", "Anonymous Sudan", "UserSec", "Anonymous Russia", "Ghosts of Palestine", "Team Azrael Angel of Death", "Dark Strom Team", "Pakistani Leet Hackers", and many others.

**Neutral Groups:** Neutral groups are cyber actors who prefer to remain independent from the conflict. These groups are usually concerned with the consequences of cyber warfare and do not support or attack the parties to the conflict, such as "ThreatSec", "Cyber Army Of Russia", and "DUNIA MAYA TEAM".

These cyber groups play different roles in the cyber dimension of the Israeli-Palestinian conflict. Their activities and influence have a significant impact on the development and outcomes of the conflict.



### **Pro-Israel Groups and Supporters**

GonjeshkeDarande	Indian Cyber Force
Team UCC Operations	SilentOne
Garuna Ops	Kerala Cyber Xtractors
AnonyMiss	Gaza Parking Lot Crew
Termux Israel	Silencer of Evil
Israel Cyber Defence	It Army of Ukraine
Cyber Club ( Support )	Anonymous Israel
Team NWH Security	Anonymous India
Dark Cyber Warrior	GlorySec
Kerala Cyber Thunders	Indian Darknet Association

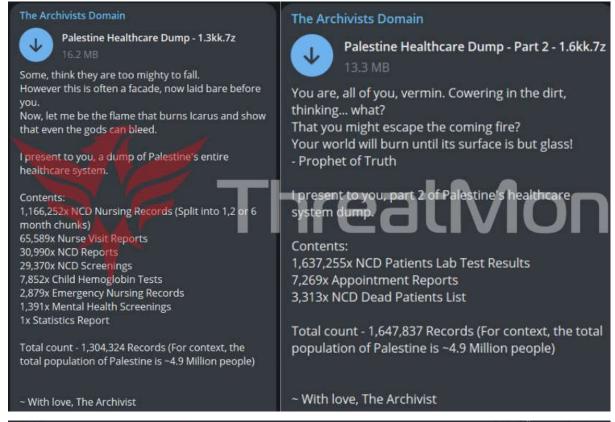
ThreatMon Cyber Threat Intelligence Team detected a total of 20 pro-Israel groups. In this process, every action taken by threat actors is actively monitored by us 24/7.

RansomedVC, one of the Ransomware groups actively monitored 24/7 through ThreatMon Advanced Ransomware Monitoring, announced its support for Israel on its website and social media platforms and announced that it will purchase access information for Palestine and Gaza. RansomedVC is a ransomware group that emerged in 2023 and began its attacks by announcing its partnership with Stormous, another ransomware group. The group is known for targeting organisations in Middle Eastern countries more, but it should not be overlooked in its attacks on organisations in other countries.



#### **Examples of Attacks by Pro-Israel Groups and Supporters**

1) In the activity detected by our team via Telegram, it was determined that the Palestinian health sector was targeted. It was determined that a total of 1,647,837 records, patient laboratory test results, appointment reports and dead patients etc. list were shared from 2 Part containing 16.2MB and 13.3MB files.





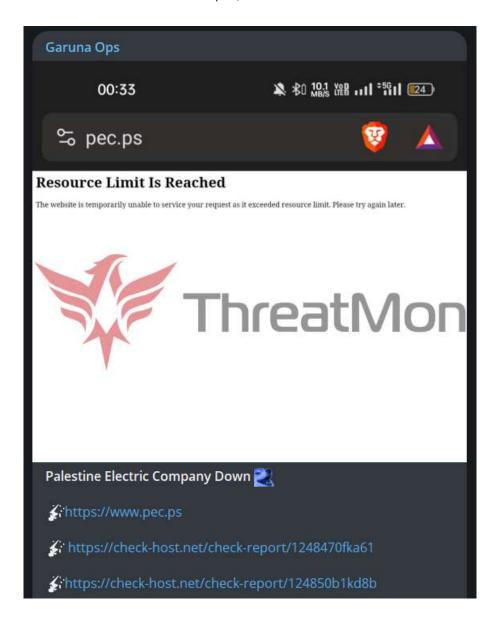


2) The activity detected by our team on Telegram claimed that more than 200 network devices, including schools and hospitals in Palestine, were hacked and messages were left by a threat actor named "Indian Cyber Force".



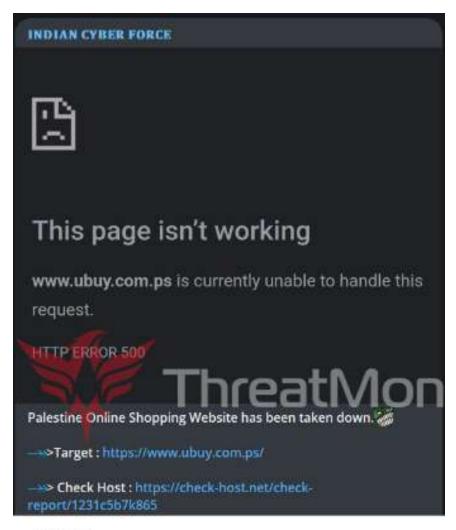


3) In the activity detected by our team on Telegram, the Palestinian electricity company Palestine Electric was targeted. As a result of a DDoS attack carried out by a threat actor named "Garuna Ops", the websites could not be accessed.





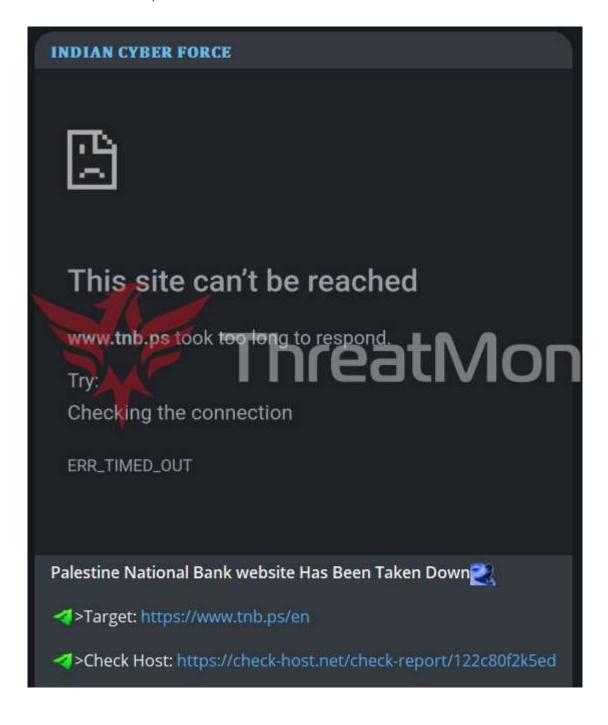
4) In the activity detected by our team on Telegram, the international e-commerce company "ubuy" was targeted. It was unavailable for a while as a result of a DDoS attack by a threat actor called Indian Cyber Force.



Our
Website is
C- L-MING
SOON
Meanwhile feel free to explore our global presence in 190+ countries.

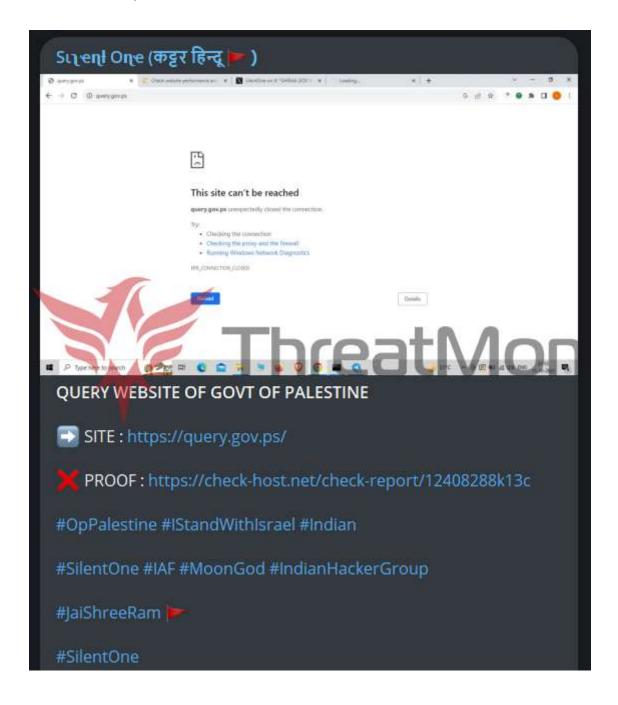


5) In the activity detected by our team on Telegram, targeted National Bank, the second largest bank in Palestine, which provides comprehensive financial services for the corporate, retail, investment and microfinance sectors. As a result of the DDoS attack, the bank's website became unusable for a while.



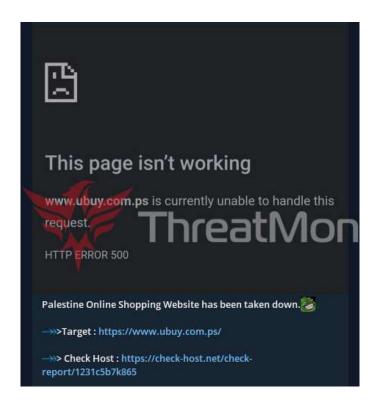


6) In the activity detected by our team in Telegram, Palestinian Government was targeted by the threat actor "SilentOne". As a result of the DDoS attack on the official websites, access to the websites was restricted.





7) In the activity detected by our team in Telegram, the threat actor named "INDIAN CYBER FORCE" targeted the Palestinian e-commerce site. As a result of the DDoS attack on the website, the site became unusable for a while.

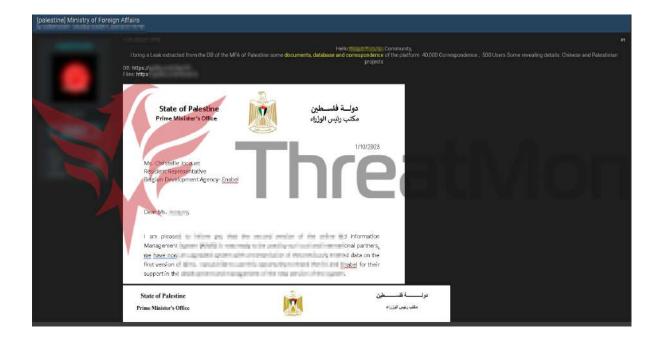


8) A threat actor named "Two2", identified by our team in a Dark web forum, has leaked user data of the Palestinian Ministry of Higher Education Scientific Research and the Ministry of Interior National Security. The leaked data includes URL, Username/Mail, Password information.

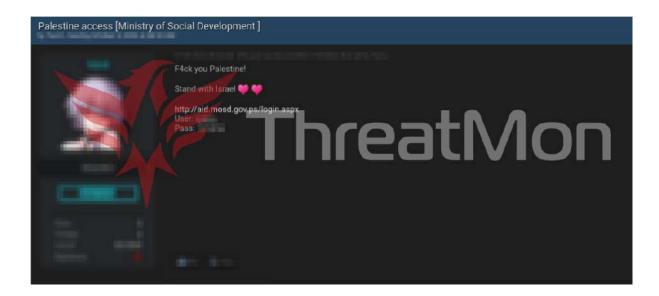




9) A threat actor named "Two2", detected by our team, leaked Palestinian Ministry of Higher Education Scientific Research and Ministry of Interior National Security user data, according to the post shared on the dark web forum. The leaked data includes URL, Username/Mail, Password information.



10) A threat actor named "Two2", identified by our team, posted on a dark web forum and announced that he had access to the user account of the Palestinian Ministry of Social Development. The threat actor publicly leaked the access. The relevant leak data consists of URL, username/email, password content.





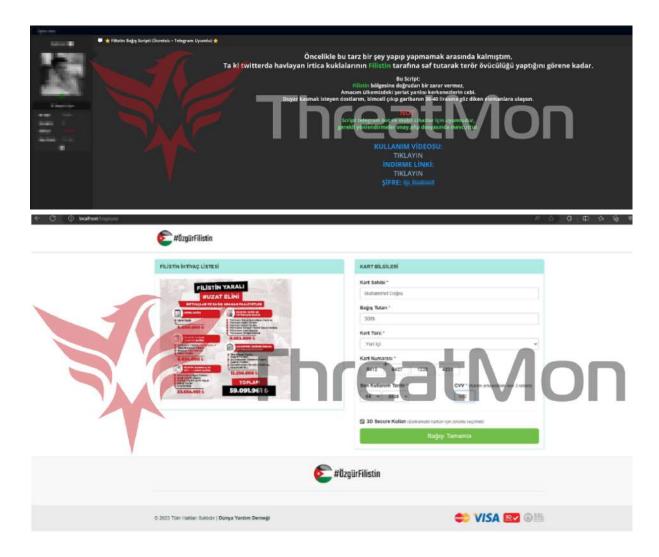
11) In the post shared by the threat actor named "eVeeVendetta" on the dark web forum, he claimed that Palestine is a radio network vulnerable to CVE-2023-42119.

CVE-2023-42119: It is an out-of-bounds read bug found in Exim within the SMTP service. An attacker could use this in combination with other vulnerabilities to execute arbitrary code in the context of the service account.





12) In the post shared by the threat actor named "batnet" detected by our team in the dark web forum, he announced that he wrote a Palestinian donation script and shared this script publicly. The script is claimed to be compatible with telegram bot and mobile devices.





13) The Indian threat actor "Dark Cyber Warrior", which our team identified on Telegram, invited non-Muslim hackers to attack Palestine. They left the message "We will enter like a storm, Pakistan should be ready to attack".



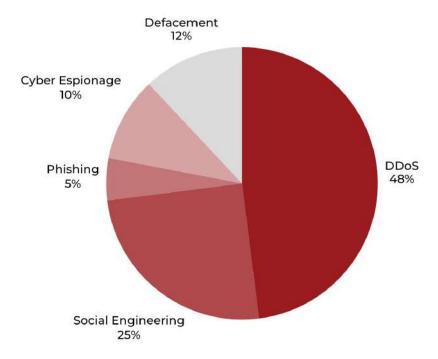


14) In the activity detected by our team in Telegram, Paltel Group, operating as a telecommunications company in Palestine, was targeted. As a result of the DDoS attack by the threat actor named "INDIAN CYBER FORCE", access to websites was restricted.





### Attack Tactics and Techniques Used by Pro-Israel Groups and Their Supporters



- DDoS Attacks (%48): Pro-Israel groups frequently use Distributed Denial of Service (DDoS) attacks against Israeli online services. These attacks involve sending massive traffic to make targeted websites temporarily inaccessible.
- Social Engineering and Ransomware (%25): Pro-Israel groups use social engineering tactics to achieve their goals. They may also use ransomware to harm their targets or steal information.
- Web Site Defacement (%12): Groups supporting Israel can use page modification tactics to convey their political messages by changing targeted websites.
- Cyber Espionage and Information Gathering (%10): Pro-Israeli groups could carry out cyber espionage to gather sensitive data from specific individuals or organizations.
- Phishing Attacks (%5): In certain instances, Pro-Israel organisations might resort to phishing attacks as a means to procure sensitive information from targeted groups or individuals. These statistics demonstrate the breakdown of methods employed by Pro-Israel groups in their cyber attacks.

These tactics and techniques reflect the diversity of cyber operations of groups supporting Israel when the attack tactics and techniques used are analysed.



### Pro-Palestinian Groups and Supporters

KillNet	Anonymous Sudan
Anonymous Russia	UserSec
Ghost of Palestine	Team Azrael Angel of Death
Pakistani Leet Hackers	DarkStrom Team
Sylhet Gang - SG	Team_insane_Pakistan
Garnesia Team	Hacktivism Indonesia
Blackshieldcrew MY	Gb Anon 17
Ghost Clan Malaysia	Anonymous Morocco
Mysterious Team Bangladesh	Ganosec Team
Ghost Clan	Moroccan Black Cyber Army
Eagle Cyber Crew	Muslim Cyber Army
Kerala Cyber Xtractors	YourAnon T13x
SynixCyberCrime MY	Team Herox
Panoc Team	4 Exploitation
Moroccan Defenders Group	Team R70
The White Crew	Stucx Team
TYG Team	Hizbullah Cyb3r Team
StarsX Team	Electronics Tigers Unit
1915 Team	WeedSec
Storm-1133	Dragonforce Malaysia
Cyb3r Drag0nz	End Sodoma
Khalifah Cyber Crew	Teng Korak Cyber Crew



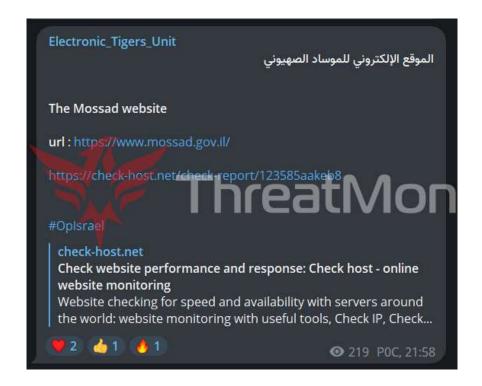
Skynet	ACEH About Hacked World
DevilAttacks	Boom Security
./TeaParty	./CsCrew
JATIM RedStorm Xploit	ASKAR DDOS
Anonghost	Yemen Legions Team
Arab Anonymous Team	Russian Tools
Islamic Cyber Team   Indonesia	Bangladesh Civilian Force
KEP Team	Pakistan Cyber Hunter
Jateng Cyber Team	Systemadminbd Official ( BCF )
AnonHamz	Anonymous 070
Kingman World Official	Black Security Team
Islamic Hacker Army	Malaysia Cyber Defacer
Team Anon Force	SiegedSec
VulzSec	Cyber Error Team
CyberActivism	GhostSec
Anonymous Indonesia	Khan Cyber Army

As ThreatMon Cyber Threat Intelligence team, we have detected a total of 76 pro-Palestinian groups. In this process, every action taken by threat actors is actively monitored by us 24/7.



#### **Examples of Attacks by Pro-Palestinian Groups and Supporters**

1) In the activity detected by our team on Telegram, the threat actor named "Electronic\_Tigers\_Unit" disabled the official website of the Mossad for a while with a DDoS attack.





2) In the activity detected by our team on Telegram, the threat actor named "Systemadminbd Official" targeted the Israel Meteorological Service. As a result of the DDoS attack carried out by the threat actor, access to the websites could not be provided for a while.



3) In the activity on Telegram detected by our team, the threat actor named "ACEH ABOUT HACKED WORLD" targeted the Israeli Ministry of Finance. As a result of a DDoS attack on their website, it became unusable for a while.





4) The activity detected by our team on Telegram, targeted the Israeli Army Radio Broadcast, Ministry of Foreign Affairs, News Sites, Israel Nuclear Research, Ben Gurion Airport. As a result of a DDoS attack carried out by a threat actor named "YourAnonT13x", the websites could not be accessed.

#### **GHOSTS of Palestine**

Israeli Sites Attacked

Ministry of Foreign Affairs Israeli Army Radio Broadcasting Breaking News Online Newspaper Infrastructure News Website i24

Israel Nuclear Research Website Ben Gurion Airport Website

אתרים שתקפנו את ישראל משרד החוץ של משרד החוץ שידורי הרדיו של הצבא הישראלי חדשות חדשות עיתון מקוון תשתיות חדשות אתר i24 ישראל למחקר גרעיני אתר נמל התעופה בן גוריון

المواقع التي هاجمناها إسرائيل وزارة الخارجية إذاعة الجيش الإسرائيلي أخبار عاجلة صحيفة إلكترونية أخبار البنية التحتية موقع 124 موقع الأبحاث النووية الإسرائيلية

## Threativio

وزارت امور خارجه اسرائیل رادیو ارتش اسرائیلپخش اخبار فوری زیرساخت های روزنامه آنلاین وبسایت خبری i24 اسرائیل وبسایت تحقیقات هسته ای وبسایت فرودگاهی بن گوریون

Sitios que atacamos Ministerio de Asuntos Exteriores de Israel Ejército israelí Radiodifusión Noticias de última hora Periódico en línea Sitio web de noticias de infraestructura Sitio web de investigación nuclear de i24 Israel Sitio web del aeropuerto Ben Gurion

By Operation Israel Hackers



5) In the activity on Telegram detected by our team, the threat actor named "YourAnonT13x" targeted the Diplomat Culinary, 103fm, Gefeno, Canaanite, The bouncer, bhol.co.il. As a result of a DDoS attack on their website, it became unusable for a while.





6) In the activity on Telegram detected by our team, the threat actor named "Sylhet Gang" targeted the Israeli Patent Search Portal and the Tel Aviv Medical Centre. As a result of a DDoS attack on their website, it became unusable for a while.





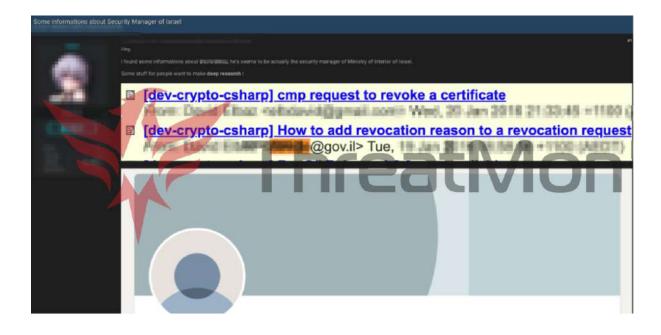


7) According to a post shared by a threat actor named "Odayy" detected in a dark web forum, it was observed that he leaked more than 200 Personal IP Addresses located in Israel.





8) According to the post shared by the threat actor named "xsod", which was detected in the dark web forum as a result of the scans made by our team, it is seen that he shared the Personal E-mail, Business E-mail, Skype account information of the Security Manager of the Israeli Ministry of Interior.





9) The threat group "Anonymous Sudan", about which we presented a detailed research report a few months ago and which was identified by our team, shared its cooperation with KillNet, one of the most well-known Russian hacktivist groups, with the message "Victory to the Palestinian Resistance!".



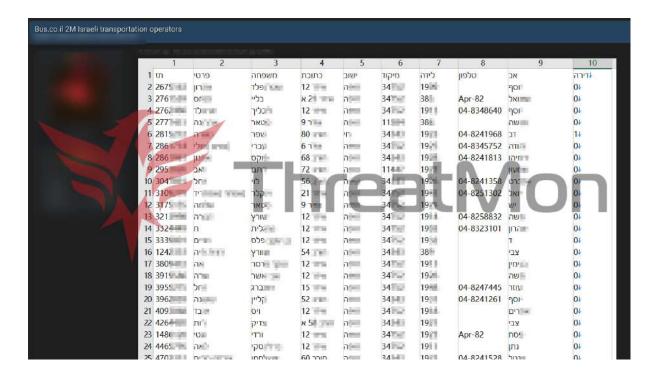


10) As a result of our scans in Telegram, the threat group named "Legion (Cyber Spetsnaz)", known for its cyber activities against NATO and government resources in Ukraine, launched DDoS attacks against major financial institutions in Israel in cooperation with the threat actor named "KILLNET".





11) According to a post shared by a threat actor named "RRR", identified by us on a dark web forum, he claimed to have leaked 2 Million registered databases belonging to the Israeli transport operator Bus[.]co[.]il.





12) It has been observed that the threat actor named "lol\_babasanfor", who was detected by us in a dark web forum, shared logs that he claimed to belong to Israel and the year 2023, according to the post he shared in support of Palestine with the message "Free Palestine" after the war started.



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https://accounts.google.com/: n@gmail.com:maywai
https://account.next.co.il/: 21516: 379
https://www.npmjs.com/:n 99:s 79
https://www.twitch.tv/:A 1:sl 25
https://www.matific.com/:n 1:2 89
https://login.live.com/login.srf: @gmail.com:m 31
http://online3.talpiot.ac.il/login/index.php:3 349: 62
http://projects.telem-hit.net/SnakesandLadders/wellcome.aspx:s man: 79
https://www.amazon.com/ap/signin:5_____16:_____16:_____34
https://wordpress.com/start/user: n:s 179
https://www.thinglink.com/register: @walla.co.il:
https://www.sefereshet.org.il/wsers:
https://www.amazon.com/ap/register: an:
https://pisga.tik-tak.co.il/webPro/hishtalmuyot/student/index.asp:UNKNOWN:
https://accounts.google.com/AddSession/identifier:
https://accounts.google.com/signin/v2/challenge/pwd:
https://www.epicgames.com/id/login: @gmail.com:
https://account.gov.il/sspr/public/newuser:UNKNOWN: 55
https://login.gov.il/nidp/idff/sso: 49: 9100
https://ps.btl.gov.il/:UNKNOWN:J.J.J.
https://my.account.sony.com/central/signin/:UNKNOWN: 3030
https://www.harel-group.co.il/Pages/default.aspx/:UNKNOWN: 10
https://lgn.edu.gov.il/nidp/wsfed/ep: 3
https://www.amazon.com/ap/signin: @gmail.com: 12020
https://apps2.education.gov.il/EduLogin/setpassword.aspx: @gmail.com: 2020
https://accounts.google.com/: 1980
http://yesodotarts.tikshuv.org/: "ЧЎЧћЧџ
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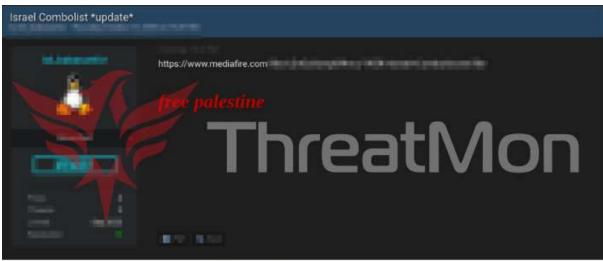
13) According to the post shared by the threat actor named "Ddarknotevil", which was detected in the dark web forum in the scans made by our team, it was revealed that he claimed to have hacked Wobi, an Israeli insurance company, and captured its database. According to the threat actor's claim, the database contains columns such as Names, Emails, Hashes, Addresses, Gender, Phone Numbers, Date of Birth. The total data file size appears to be 13 GB.



•



14) According to the claim of the threat actor named "lol\_babasanfor" detected in the dark web forum in the scans made by our team, 145K Israel combolist was leaked. When the leaked file is examined, there is a 5.09 MB file in .TXT format. The file contains e-mail and password data.



173730	10.CO.IC.033003
145759	id@nana.co.il:y
145760	eizmann.ac.il:
145761	huji.ac.il:314
145762	on@mail.huji.a
145763	ana.co.il:5202
145764	90.co.il:a0542
145765	nana.co.il:era
145766	:hever@weizmann
145767	.co.il:halocel
145768	a.co.il:120dk9
145769	chnion.ac.il:s
145770	look.co.il:69a
145771	utlook.co.ilin
145772	r@outlook.co.i
145773	r@outlook.co.il eatVon
145774	utlook.co.il:h
145775	outlook.co.il:
145776	utlook.co.il:m
145777	@outlook.co.il
145778	utlook.co.il:1
145779	@outlook.co.il
145780	tlook.co.il:as
145781	utlook.co.il:m
145782	@outlook.co.il
145783	outlook.co.il:
145784	itlook.co.il:ds====
145785	itlook.co.il:am
145786	look.co.il:yis

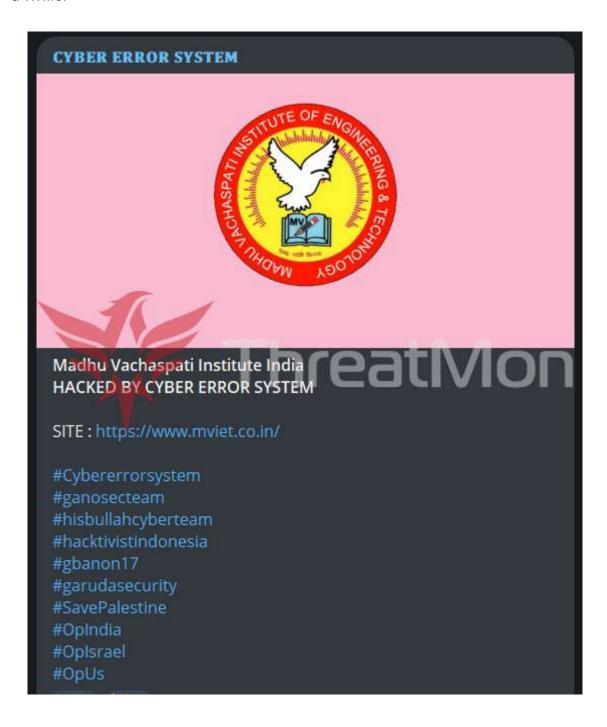


15) In the activity detected by our team in Telegram, the threat actor named "Cyber Error System" announced that India is helping Israel to attack Palestine in the cyber world and that they will fight them to the end for Palestine.



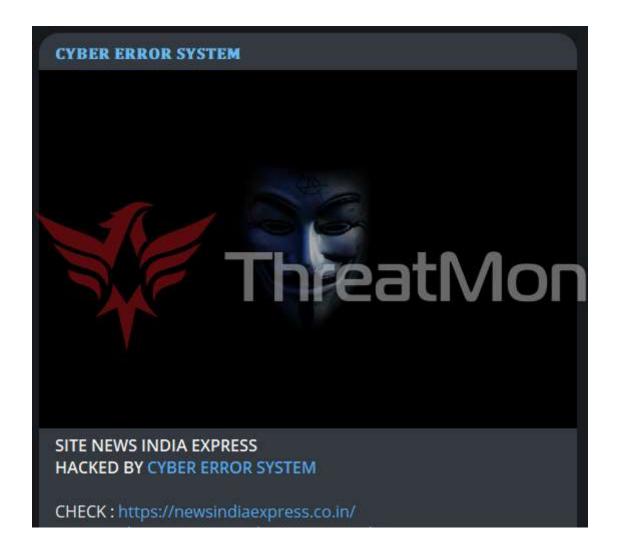


16) In the activity on Telegram detected by our team, the threat actor named "Cyber Error System" targeted the Madhu Vachaspati Institute of Engineering and Technology. As a result of a DDoS attack on their website, it became unusable for a while.





17) In the activity on Telegram detected by our team, the threat actor named "Cyber Error System" targeted websites. As a result of a DDoS attack on their websites, it became unusable for a while.





18) In the activity on Telegram detected by our team, the threat actor named "Ghosts of Palestine" claimed that they would target NATO countries (except Türkiye) and India for supporting Israel and remaining passive on Palestine/Gaza.



## #Update:

Nato member countries will be face an cyber attack by us for supporting Israel and being silent about Palestine/Gaza.

Turkey excluded.

Asian Country - India will be attacked soon.

If they support Zionism you better secure your site because we are coming.



19) On 12 October 2023, a threat actor named "Snowy" was detected posting data on a dark web forum with the statement "I present the first in my Israel leak series, leaking everything I have collected about Israel over the years". The threat actor stated that he would publish everything from databases and combinations to government files and leaked documents. Then, without slowing down, he published 7.3K lines of combolist data.



A little later, in a second post, he announces that he has shared a 7K combolist file by saying "And this is the second one on the list".





The data leaks are followed by 5K combolists, and another 5K combolists, 2.3K combolists and finally 2K combolists, ending the combolist posts. It is seen that the next targeted leak content was on Israeli phone numbers. It is seen that he leaked a total of 570K phone number data.







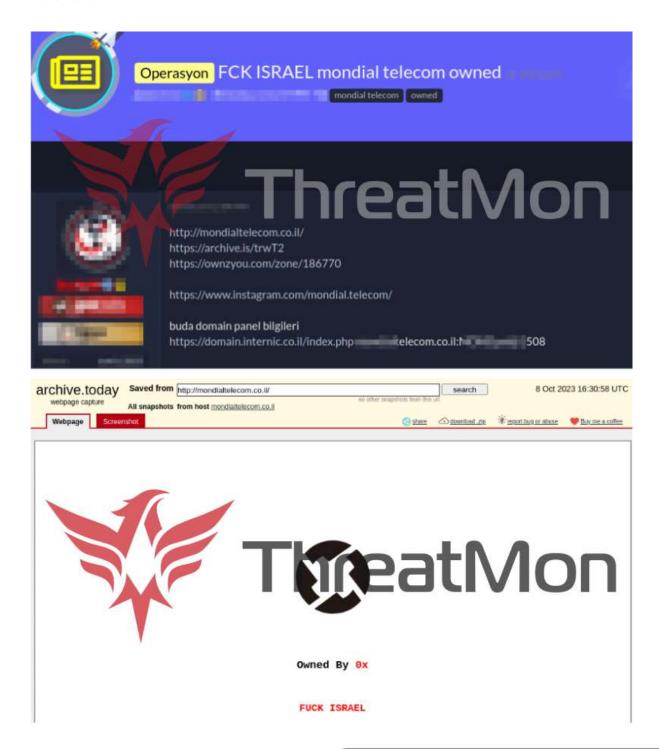
The last move of the threat actor was to leak the database of 420K Israeli Business. When the leaked file is examined, there is a file in .CSV format with a size of 86.63 MB. The database contains ID, Cat, Company Name, E-mail, Address, City, State, Postcode, Telephone Number, Fax Number, Sic Code, Sic Description, Web Addresses.







20) According to the post shared by the threat actor with the code name "0xv3v1L" in the dark web forum activity detected by our team, Mondial telecommunications company located in Israel was targeted. The threat actor unauthorisedly changed the appearance or content of the website with a deface attack. As a result of this attack, he posted a "zone log" on "archive.is" and "ownzyou" platforms as evidence. The threat actor leaked domain and user information in the forum.



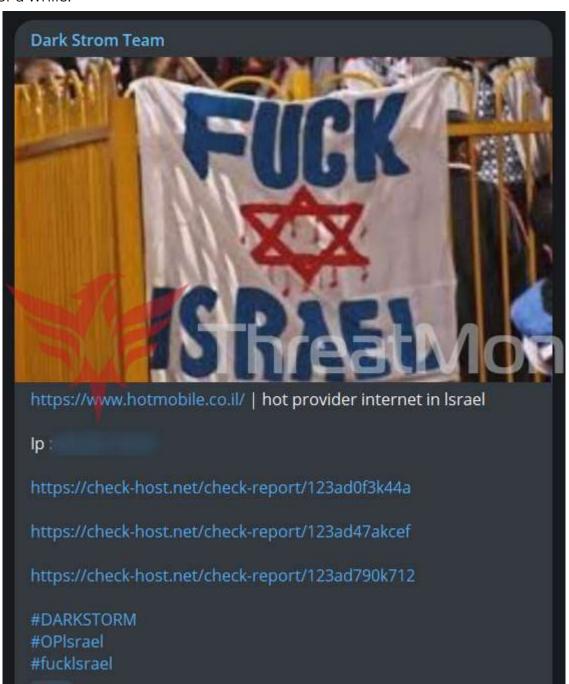


21) In the activity detected by our team in Telegram, Israel's first online website, "Walla!", a part of the Teletel Communications Ltd. company, was targeted. Communications" was targeted. When the .rar's shared by the "Mujahideen\_2023" group were analysed, it was found that sensitive information of the employees of Walla!.

01/05/1998	@walla.com	5231
23/09/1998	<u> </u>	5445
04/06/1998	@walla.com	5066
15/02/1988		5432
02/12/1996	@walla.com	5065
09/11/1997		5589
14/05/1997		5497
29/09/1997		5239
14/10/1998		5272
30/09/1998		5098
07/11/1997		5064
05/09/1997		5044
17/03/1998		5327
16/05/1998		5033
13/04/1997	@walla.com	5435
02/10/1997	@walla.com	5026
24/04/1997		
14/09/1997		5423
10/09/1997	@gmail.com	5092
22/02/1997		5487
23/03/1997		5448
08/03/1997	@gmail.com	5256
01/05/1998	@gmail.com	5431
17/07/1997	@gmail.com	5452
16/08/1998	@walla.com	5494
12/07/1998		5491
02/01/1998	@gmail.com	5226
11/10/1997	@gmail.com	5862
08/09/1998		5254
05/03/1998	@gmail.com	5499
18/05/1997	@gmail.com	5092
05/01/1998	@walla.com	5428

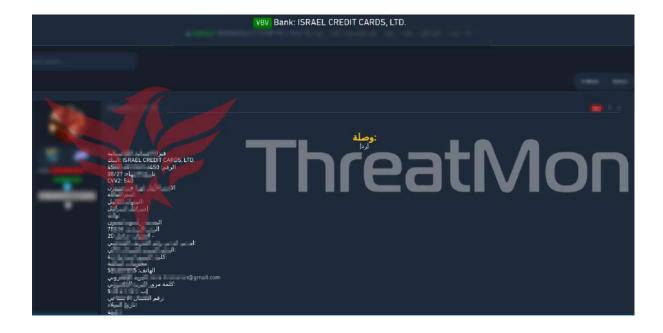


22) In the activity detected by our team in Telegram, Israel-based wireless telecommunications company "Hot Mobile" was targeted. As a result of the DDoS attack by the threat group called "Dark Strom Team", it could not be used for a while.



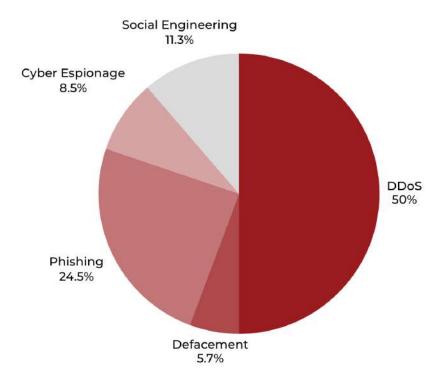


23) A threat actor named "naseemalz", identified by our team on a dark web forum, appears to have leaked all bank account information data of an Israeli Credit Card user. The leaked data includes bank, number, expiry date, cvv2, name, city, address, telefon, e-mail, IP, etc.





# Attack Tactics and Techniques Used by Pro-Palestinian Groups and Supporters



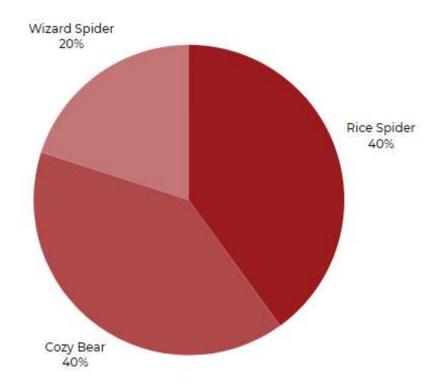
- DDoS Attacks (%50): Pro-Palestinian groups use DDoS attacks as the most common and effective cyber attack tactic against Israel. This tactic involves sending massive traffic to make Israel's online services temporarily inaccessible.
- **Phishing Attacks (%24.5):** The second tactic used by pro-Palestinian groups is phishing attacks. These attacks involve deceiving targeted individuals in order to gain access to sensitive information or harm their targets.
- Socail Engineering (%11.3): Social engineering tactics are another method of attack used by pro-Palestinian groups. These tactics include social manipulation techniques to achieve their goals.
- Cyber Espionage and Information Gathering (%8.5): Pro-Palestinian groups can
  use a variety of techniques to gather sensitive information and harm their
  targets, using cyber espionage activities used against Israel.
- Web Site Defacement (%5.7): The last tactic is changing the targeted websites. This tactic can be used to convey political messages or as a symbolic act.



These statistics show the cyber-attack tactics and techniques used by pro-Palestinian groups against Israel. As can be seen, DDoS attack techniques are used intensively. In addition, it is clear that cyber espionage is targeted with the knowledge gained through phishing and social engineering attacks. These tactics reflect the groups' efforts to be effective in the digital arena in the conflict with Israel.



#### Threat Actor Groups Active in CyberWar



As a result of the studies conducted on more than 200,000 attack vectors centred on Israel and Palestine through the Threat Feed area of the ThreatMon Advanced Threat Intelligence platform, three different threat actors were traced, as indicated in the graph above.

All of these attacks of APT Groups were detected on Israel. The reason for this is that the electricity and internet infrastructure of Palestine has been cut since the day the war started. Therefore, the attack could not be realised.

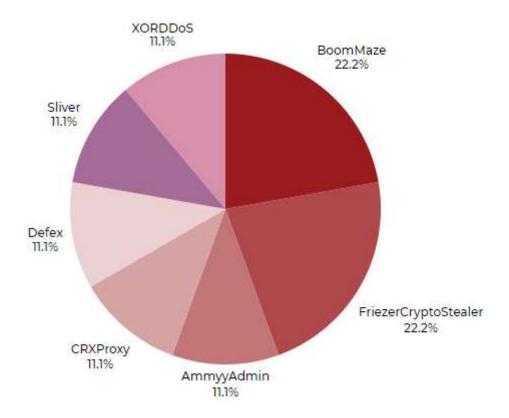
When we proceed through the graph above, there are 3 APT groups whose attacks are actively detected. All of these APT groups are Russia-based APTs.

The important factor here is that the increase in the attacks of APT groups politically is that Russia supports Palestine and therefore is against Israel.

As a result of all these attacks, the purpose of APT groups has been observed as cyber espionage and information leakage through Israel-based systems. As ThreatMon, we predict that with the prolongation of the war, APT attacks will increase and the cyber war environment will become more chaotic.



### Malware Active in the Cyber War



As a result of the studies conducted on more than 200,000 attack vectors centred on Israel and Palestine through the Threat Feed area owned by the ThreatMon Advanced Threat Intelligence platform, as indicated in the graph above, traces of malware distributed by many different threat actors were found.

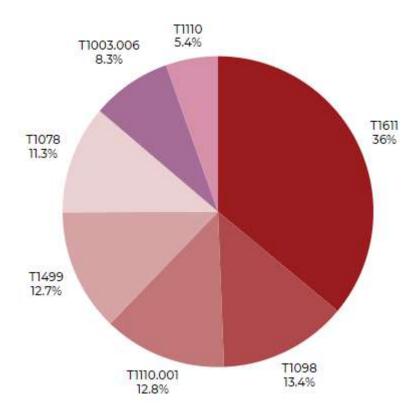
Here, the malware that play an active role in the cyber warfare environment are shown on the graph.

At the end of the research and analysis processes on these malware, it was observed that most of them are malware designed to work connected to Botnet networks. The important point here is that although the types of malware traced in the cyber warfare environment are different, their objectives are the same.

These detected malware are especially malware with information leakage and ransomware capabilities.



### Techniques of Attacks Taking an Active Role in Cyber War



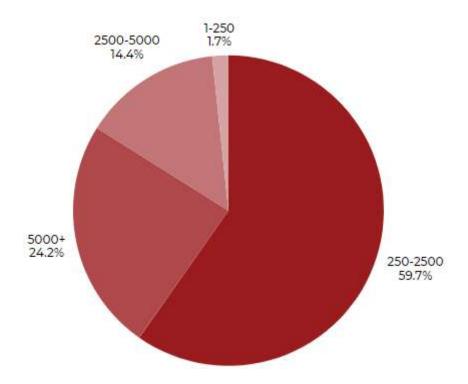
When the techniques of all of these attacks detected by ThreatMon are analysed, the most important and most common techniques in the cyber warfare environment are indicated in the graph in accordance with MITRE ATT&CK standards.

When the "T1611" technique, which has the highest share on the attacks when proceeding through the graph, is examined, the technique with the name "Escape to Host" is given in the graph with a share of 36%.

In addition, this technique is followed by "Account Manipulation", "Brute Force" and "Endpoint Denial of Service" techniques. When it is inferred from this, T1611, which has the largest share in attacks, aims to access the system from Docker containers on servers. "Account Manipulation" and "Brute Force" aim to access systems on users. And finally, "Endpoint Denial of Service" attacks, which are preferred by the most threat actors and are a relatively easy attack technique, are among the attacks detected especially in the attacks on Israel.



### Size of Firms Actively Targeted in the Cyber War



Based on all these attacks detected by ThreatMon and through the extended information obtained through the attacks, the size of these companies are listed on this graph, as well as the attacks on Israel-based companies in the cyber war environment of the war between Israel and Palestine.

Through the data given on the graph, as ThreatMon, our inference is that the size of the companies targeted in the attacks consists of companies with values between 250 and 2500 employees with the largest share. These companies, which can be considered as Small-Medium scale, are composed of companies with more than 5000 employees, which we can characterise as Large. These companies are the second-sized companies targeted in attacks. The rest of the list consists of Medium-Large sized companies and Small sized companies with the smallest share.

Here, considering that the digital assets of the companies targeted in the attacks are developing and growing companies, the size of the targets can be measured statistically through these graphs on the cyber warfare environment.



#### What Awaits Us in the Future in the Israel-Palestine War?

It is a fact that in this war environment, which started on October 6, 2023 and continues from past to present, the war between Ukraine and Russia is not limited to military operations only, but also moves to cyber war environments.

However, currently, in the cyber war environment between Israel and Palestine, there are 76 threat actors supporting Palestine and 20 threat actors supporting Israel. These threat actors are the number of threat actors who have publicly declared their support and are actively attacking the institutions and organisations they target.

In addition, malware belonging to APT groups, which have not publicly declared their support but are known to carry out attacks on both Palestine-based and Israel-based systems, have also been observed. These APT activities are malware distributed by threat actors that specifically target the telecommunications industry.

Since October 6, 2023, the most common attack type on Israel-based systems has been malware distributed via e-mail addresses. It has been observed by ThreatMon that this increase is a 30% increase compared to last week. Methods frequently used by threat actors, such as Ransomware activities and Botnet activities, continue without an increase for either side in this cyber war environment.

In the future, in this war environment, when countries and their leaders declare their political support in the adapted and expected scenarios of the cyber war between Ukraine and Russia for the Middle East and the Palestine-Israel war, the attacks of the threat actors in those countries will increase, regardless of the size of the opposing party. An increase is expected in attacks, especially in the Infrastructures, Citizenship Systems, Telecommunications, Logistics, and Healthcare sectors.



#### Conclusion

This report has been prepared to examine the cyber warfare dimension of the long-standing conflict between Israel and Palestine. The Israeli-Palestinian conflict is not limited to its military and political dimensions, it has increasingly come under the influence of cyber warfare.

The cyber war between Israel and Palestine reflects a complex situation in which both sides continue the conflict in the digital sphere using their cyber capabilities. Both parties are openly supported by threat actors and are carrying out cyber attacks. These attacks are particularly focused on critical infrastructure sectors and pose a major threat to sustainable social life.

The political, military and economic consequences of cyber war threaten not only Israel and Palestine, but also companies in various sectors serving the region. Such attacks make conflict resolution difficult and create new security threats.

In the future, cyber warfare is expected to become even more sophisticated. Cyber attacks, especially those similar to the Ukraine-Russia war, may increase in the Middle East and especially in the context of the Israeli-Palestinian conflict. Cyber attacks may increase further in areas such as infrastructures, citizenship systems, telecommunications, logistics and healthcare sectors.

In addition, detailed analyses of the cyber warfare environment through the statistical data given above are shared in the report.

By scaling these analyses with your own company, you can work on strengthening your security systems by considering the Israeli-Palestinian war scenarios in the cyber war environment.

It is hoped that this report will shed light on this important issue and be a useful resource for all companies in the relevant region.

Whenever you have any questions or requests for additional information, do not hesitate to contact us. We will be happy to assist you.



## **Indicator of Compromise List**

As ThreatMon, we care about your security in this cyber war environment. By providing the necessary integration of the list to the security products through the SHA-256 Hash values in the IoC list below, 200 IoC data carefully selected from Israel and Palestine based data sources from 6 October 2023 to today are listed below in this period between Israel and Palestine, where various threat actors show activity on a global scale.

Important Notice: The hash values listed here in SHA-256 format are not guaranteed to be used as an attack vector in an attack or malware in the cyber war between Palestine and Israel. These hash values are the hash values of files containing malware activity seen in Israel and Palestine since 6 October 2023.

IoC Type	IoC Value
SHA-256	016a20e198d889b9b65fc938f4285ac0ad728a38a5afc9b6659cedc1b4a759ed
SHA-256	0ff134057a8b2e31b148fedfdd185f5b1a512149499a8c5c0915cf10b10a613e
SHA-256	2dd1fe89eef0ba99f4b72dcdb4a5b874708121480e916e4c88d2dbb8398bef1b
SHA-256	815dcdf0078108bd5afa21c1428d392b423a68e6935676c49102c6f0bea99d6d
SHA-256	f887e04ce6c43da608cfcb45e51398305bb3912ee9d88ac7569c917e245d404a
SHA-256	0e31f55a21fcf8762ab4238c99c923a1995996c5d2375bedeb15ef466514f30b
SHA-256	5d92914acdfb551c237866cc4cce6c80aeeeb695e52beecd2613694302c62271
SHA-256	ea8205f225d51e85214845bdff800740a231e15754384511f7a9a93317469180
SHA-256	2ae03f2efcabdb54a38c92ad77cbc9575709f9d76bb7877a02457eca82b3f48e
SHA-256	eefc50ff827c1785a740258d0f18bd87a758a80b6f898c1582f15ff8a0382306
SHA-256	d77fbaa35585f25de3f492e4e3d0bfa6f0f73b053fd6a64058766fef75eca04e
SHA-256	ad441253f8ebe56e6c216d5a95c9107407c911080c57deb9a9aad8973d36a13a
SHA-256	0f898ab1619220fedc066e5ca65fde3ea6740f0ce68d2ba93220688940bb1b7f
SHA-256	2522e04f7abcd7c32d2c73aa0e66d97d0d121e86aefc7e715dd013e8e27a73f3
SHA-256	18df68d1581c11130c139fa52abb74dfd098a9af698a250645d6a4a65efcbf2d



SHA-256         b7c296942c605bea21b5dfa843190e8619286a4b6ea432d872246bae9b346000           SHA-256         9e766f6ac15d73deb5829eb2d5cedd3ac180a5a97fdf19024f55ab01322bf1d3           SHA-256         3d01520d6f211ef408c4fb4bc80ea617da938608b4c8706f7958448e5d7a08bf           SHA-256         607ea1c8b3d09ad76a7f364c21f4b91fe8832ad19fa1efa40e3e6c3881048e71           SHA-256         fd7499214abaa13bf56d006ab7de78eb8d6adf17926c24ace024d067049bc81d           SHA-256         9b1c965430289c82edff635e1b7650abddf9753e6ebe5e66f13770a766375f2e           SHA-256         5e8ddd10a4d9e33d8b2072264a2c0cdb6d7d2502b59710ac70577cab7980764e           SHA-256         83fe6929f55fc4112d73b3fb35bf50d90bf5c1c5bb9a5cf47dd0f1ad140ee630           SHA-256         953cf938a09ddd4db5fcb6ee3439abca6ef47740a8c0f4b062cb8e2bb23be0c3           SHA-256         1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580           SHA-256         f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06           SHA-256         bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2           SHA-256         61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebb0ff3531488160878           SHA-256         73674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e           SHA-256         8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-256<		
SHA-256         3d01520d6f211ef408c4fb4bc80ea617da938608b4c8706f7958448e5d7a08bf           SHA-256         607ea1c8b3d09ad76a7f364c21f4b91fe8832ad19fa1efa40e3e6c3881048e71           SHA-256         fd7499214abaa13bf56d006ab7de78eb8d6adf17926c24ace024d067049bc81d           SHA-256         9b1c965430289c82edff635e1b7650abddf9753e6ebe5e66f13770a766375f2e           SHA-256         5e8ddd10a4d9e33d8b2072264a2c0cdb6d7d2502b59710ac70577cab7980764e           SHA-256         83fe6929f55fc4112d73b3fb35bf50d90bf5c1c5bb9a5cf47dd0f1ad140ee630           SHA-256         953cf938a09ddd4db5fcb6ee3439abca6ef47740a8c0f4b062cb8e2bb23be0c3           SHA-256         c1884df08a8753d9b5bf6e403534a5f2a19347da4bf0f016b2a3d792d79d2197           SHA-256         1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580           SHA-256         1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580           SHA-256         61c0810a23580cf492a6ba4f7854566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         435bdf328d682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d           SHA-256         470c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878           SHA-256         43674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e           SHA-256         80db92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-256	SHA-256	b7c296942c605bea21b5dfa843190e8619286a4b6ea432d872246bae9b346000
SHA-256         607ea1c8b3d09ad76a7f364c21f4b91fe8832ad19fa1efa40e3e6c3881048e71           SHA-256         fd7499214abaa13bf56d006ab7de78eb8d6adf17926c24ace024d067049bc81d           SHA-256         9b1c965430289c82edff635e1b7650abddf9753e6ebe5e66f13770a766375f2e           SHA-256         5e8ddd10a4d9e33d8b2072264a2c0cdb6d7d2502b59710ac70577cab7980764e           SHA-256         83fe6929f55fc4112d73b3fb35bf50d90bf5c1c5bb9a5cf47dd0f1ad140ee630           SHA-256         953cf938a09ddd4db5fcb6ee3439abca6ef47740a8c0f4b062cb8e2bb23be0c3           SHA-256         c1884df08a8753d9b5bf6e403534a5f2a19347da4bf0f016b2a3d792d79d2197           SHA-256         1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580           SHA-256         f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06           SHA-256         bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf777zcdd37511185c802cec2           SHA-256         61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a           SHA-256         7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbbff3531488160878           SHA-256         7d3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e           SHA-256         8d6b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-256         8d80b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-25	SHA-256	9e766f6ac15d73deb5829eb2d5cedd3ac180a5a97fdf19024f55ab01322bf1d3
SHA-256         fd7499214abaa13bf56d006ab7de78eb8d6adf17926c24ace024d067049bc81d           SHA-256         9b1c965430289c82edff635e1b7650abddf9753e6ebe5e66f13770a766375f2e           SHA-256         5e8ddd10a4d9e33d8b2072264a2c0cdb6d7d2502b59710ac70577cab7980764e           SHA-256         83fe6929f55fc4112d73b3fb35bf50d90bf5c1c5bb9a5cf47dd0f1ad140ee630           SHA-256         953cf938a09dddddb5fcb6ee3439abca6ef47740a8c0f4b062cb8e2bb23be0c3           SHA-256         c1884df08a8753d9b5bf6e403534a5f2a19347da4bf0f016b2a3d792d79d2197           SHA-256         1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580           SHA-256         f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06           SHA-256         bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2           SHA-256         61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a           SHA-256         7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878           SHA-256         63674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e           SHA-256         8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-256         8d362bccd3cb737772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e           SHA-256         d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7           SHA-256	SHA-256	3d01520d6f211ef408c4fb4bc80ea617da938608b4c8706f7958448e5d7a08bf
SHA-256         9b1c965430289c82edff635e1b7650abddf9753e6ebe5e66f13770a766375f2e           SHA-256         5e8ddd10a4d9e33d8b2072264a2c0cdb6d7d2502b59710ac70577cab7980764e           SHA-256         83fe6929f55fc4112d73b3fb35bf50d90bf5c1c5bb9a5cf47dd0f1ad140ee630           SHA-256         953cf938a09ddd4db5fcb6ee3439abca6ef47740a8c0f4b062cb8e2bb23be0c3           SHA-256         c1884df08a8753d9b5bf6e403534a5f2a19347da4bf0f016b2a3d792d79d2197           SHA-256         f545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580           SHA-256         f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06           SHA-256         bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2           SHA-256         61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a           SHA-256         7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878           SHA-256         f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e           SHA-256         8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-256         8d362bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e           SHA-256         d338d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7           SHA-256         b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34           SHA-256<	SHA-256	607ea1c8b3d09ad76a7f364c21f4b91fe8832ad19fa1efa40e3e6c3881048e71
SHA-256         5e8ddd10a4d9e33d8b2072264a2c0cdb6d7d2502b59710ac70577cab7980764e           SHA-256         83fe6929f55fc4112d73b3fb35bf50d90bf5c1c5bb9a5cf47dd0f1ad140ee630           SHA-256         953cf938a09ddd4db5fcb6ee3439abca6ef47740a8c0f4b062cb8e2bb23be0c3           SHA-256         c1884df08a8753d9b5bf6e403534a5f2a19347da4bf0f016b2a3d792d79d2197           SHA-256         1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580           SHA-256         f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06           SHA-256         bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2           SHA-256         61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         4a5bdf328dd682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d           SHA-256         415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a           SHA-256         7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878           SHA-256         f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e           SHA-256         e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec           SHA-256         8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-256         4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a           SHA-256         d938d80f5f97b1e50c496dca63d5f78ba48c369249464434159c3362c24d2e6d7           SHA-2	SHA-256	fd7499214abaa13bf56d006ab7de78eb8d6adf17926c24ace024d067049bc81d
SHA-256 83fe6929f55fc4112d73b3fb35bf50d90bf5c1c5bb9a5cf47dd0f1ad140ee630 SHA-256 953cf938a09ddd4db5fcb6ee3439abca6ef47740a8c0f4b062cb8e2bb23be0c3 SHA-256 c1884df08a8753d9b5bf6e403534a5f2a19347da4bf0f016b2a3d792d79d2197 SHA-256 1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580 SHA-256 f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06 SHA-256 bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2 SHA-256 61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1 SHA-256 415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a SHA-256 7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878 SHA-256 f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34	SHA-256	9b1c965430289c82edff635e1b7650abddf9753e6ebe5e66f13770a766375f2e
SHA-256         953cf938a09ddd4db5fcb6ee3439abca6ef47740a8c0f4b062cb8e2bb23be0c3           SHA-256         c1884df08a8753d9b5bf6e403534a5f2a19347da4bf0f016b2a3d792d79d2197           SHA-256         1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580           SHA-256         f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06           SHA-256         bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2           SHA-256         61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         4a5bdf328d682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d           SHA-256         415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a           SHA-256         7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878           SHA-256         f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e           SHA-256         e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec           SHA-256         8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-256         4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a           SHA-256         d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7           SHA-256         b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34           SHA-256         b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34           SHA-256	SHA-256	5e8ddd10a4d9e33d8b2072264a2c0cdb6d7d2502b59710ac70577cab7980764e
SHA-256 c1884df08a8753d9b5bf6e403534a5f2a19347da4bf0f016b2a3d792d79d2197 SHA-256 1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580 SHA-256 f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06 SHA-256 bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2 SHA-256 61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1 SHA-256 4a5bdf328d682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d SHA-256 415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a SHA-256 7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878 SHA-256 f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 d48711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34	SHA-256	83fe6929f55fc4112d73b3fb35bf50d90bf5c1c5bb9a5cf47dd0f1ad140ee630
SHA-256         1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580           SHA-256         f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06           SHA-256         bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2           SHA-256         61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         4a5bdf328d682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d           SHA-256         415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a           SHA-256         7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878           SHA-256         f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e           SHA-256         e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec           SHA-256         8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-256         4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a           SHA-256         d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7           SHA-256         b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34           SHA-256         b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34           SHA-256         b10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	953cf938a09ddd4db5fcb6ee3439abca6ef47740a8c0f4b062cb8e2bb23be0c3
SHA-256 f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06 SHA-256 bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2 SHA-256 61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1 SHA-256 4a5bdf328d682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d SHA-256 415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a SHA-256 7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878 SHA-256 f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	c1884df08a8753d9b5bf6e403534a5f2a19347da4bf0f016b2a3d792d79d2197
SHA-256         bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2           SHA-256         61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1           SHA-256         4a5bdf328d682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d           SHA-256         415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a           SHA-256         7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878           SHA-256         f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e           SHA-256         e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec           SHA-256         8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2           SHA-256         4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a           SHA-256         b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34           SHA-256         b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34           SHA-256         l0cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	1545ae8cd3c42a4bbe200387caad812e569ffc468c677c671391e69e7d373580
SHA-256 61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1 SHA-256 4a5bdf328d682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d SHA-256 415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a SHA-256 7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878 SHA-256 f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e SHA-256 e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	f8f03eb41c0b00aa6131804a787a6cc7a2a75c26539b5859f551dde077f8fc06
SHA-256 4a5bdf328d682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d SHA-256 415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a SHA-256 7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878 SHA-256 f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e SHA-256 e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	bbe4f4e1df9ab0edf1c599780f243c87fcaff76bf7772cdd37511185c802cec2
SHA-256 415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a SHA-256 7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878 SHA-256 f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e SHA-256 e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a SHA-256 d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	61c0810a23580cf492a6ba4f7654566108331e7a4134c968c2d6a05261b2d8a1
SHA-256 7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878 SHA-256 f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e SHA-256 e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a SHA-256 d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	4a5bdf328d682efaec55979b3e0723db5bb79775c7c133936c779e3bdc03201d
SHA-256 f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e SHA-256 e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a SHA-256 d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	415e04eb340f1b092288cbcc71295a2c95e864fc1bbfcd55d6e3f5aa67099b1a
SHA-256 e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a SHA-256 d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	7d7c9b407e4ecb92c554a8813625f9e27b85231348f0ebbb0ff3531488160878
SHA-256 8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2 SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a SHA-256 d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	f3674df3162514f00fa67bd242d5449a359e05df32d3a4316c7951399692836e
SHA-256 c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e SHA-256 4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a SHA-256 d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7 SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	e06a094d0bec6020536cdb92f0bd2171e48ca36b3f34b8ffd6da7f52f78436ec
SHA-256       4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a         SHA-256       d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7         SHA-256       b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34         SHA-256       10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	8d0b92e4458a052969add4f23b07e8c05d48bb0868bb650bc58c2cc074f559f2
SHA-256         d938d80f5f97b1e50c496dca63d5f78ba48c36924946434159c3362c24d2e6d7           SHA-256         b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34           SHA-256         10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	c83a62bccd3cb73772875dfedd41faf7b1f44118a39abc7e3f65faea8e7ad67e
SHA-256 b556d90b30f217d5ef20ebe3f15cce6382c4199e900b5ad2262a751909da1b34 SHA-256 10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7	SHA-256	4d8711055022ac708e1d36687f8884e507b583435cfabafa0d7032072c10373a
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SHA-256 fbe8af35d5259c0e9d1a85fc754504c62667cc9d3bcd581e9d36fcb641cb246f	SHA-256	10cf4817ef64c066405db6f601ae00d75935c56ed9d64115488bb429dffb83d7
	SHA-256	fbe8af35d5259c0e9d1a85fc754504c62667cc9d3bcd581e9d36fcb641cb246f



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SHA-256	27991f7872c075ae4a6eb5d24e739018570f8266c5d46f15661f02621441fdcc

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