



**REPUBLIC OF ALBANIA
NATIONAL AUTHORITY FOR ELECTRONIC CERTIFICATION AND
CYBER SECURITY
DIRECTORATE OF CYBER SECURITY ANALYSIS**

**NoName057 Group
DDoS Attacks in Albania**

**Version: 1.0
Date: 30/11/2023**

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NoName057 (16) Group

Initial details : March 2022

Target : Ukraine and NATO countries

Sectors : Foreign Affairs, Transportation, Government, Critical Infrastructure, Finance

On September 22, 2023, there was a "DDoS" category attack targeting several Albanian infrastructure websites. This attack was claimed by the **Russian Group NoName057(16)**.

The pages that were attacked were:

- www.parlament.al,
- www.durresport.al,
- www.tirana.al,
- www.raiffeissen.al,
- www.uba.com.al,
- www.hekurudha.al.

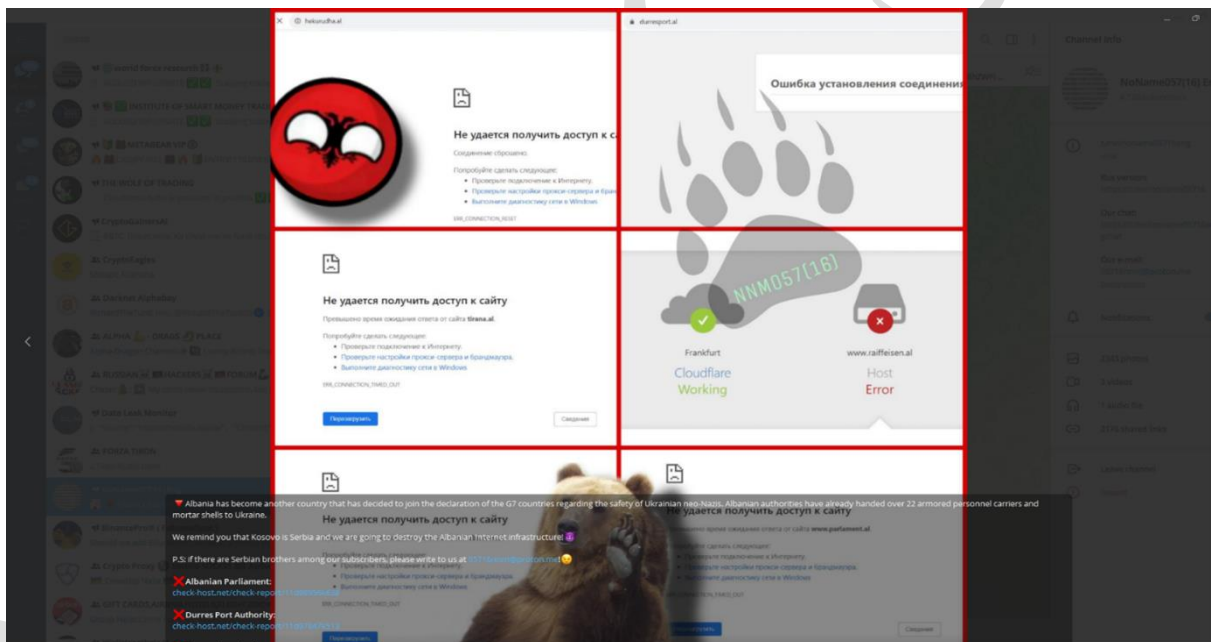


Figure 1: Announcement of the group NoName057 on the Telegram Platform

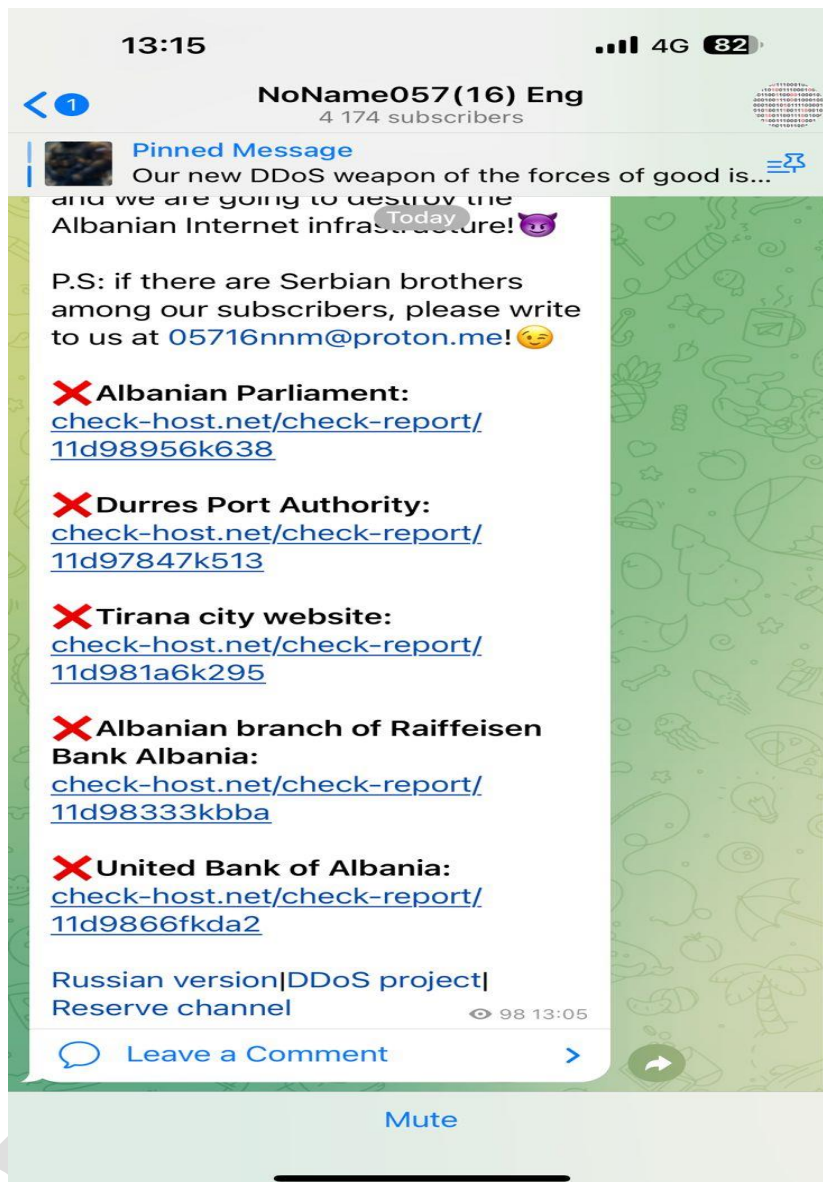


Figure 2: Second Announcement on Telegram, websites targeted by Russian Hackers.

NoName057(16) is a pro-Russian hacktivist group that has conducted a campaign of DDoS attacks against Ukraine and NATO organizations since the early days of the war in Ukraine. The group has targeted government organizations and critical infrastructure and has been responsible for disrupting services across the entire financial sector in Denmark. It was also reported that on January 11, NoName057(16) targeted the websites of candidates for the 2023 Czech presidential elections.

The motivations of the group are primarily focused on websites that are crucial for countries critical of the Russian invasion of Ukraine. The initial attacks were concentrated on Ukrainian websites, but later shifted towards NATO as well.



Figure 3: Map of Countries targeted by NoName057(16)

Actors Details

NoName057(16), also known as **NoName05716**, **05716nmm**, or **Nnm05716**, is a pro-Russian hacker group that has conducted a campaign of DDoS attacks in Ukraine and NATO countries since the early days of the Ukraine war. The group has targeted government organizations and critical infrastructure in various countries. In December 2022, the group was responsible for disrupting the official website of the Polish government. As emphasized by the Polish government, the incident was a response to the Republic of Poland officially recognizing Russia as a state sponsor of terrorism in mid-December 2022. The group is also responsible for disruptions in Denmark's financial sector. Additionally, it was reported that on January 11, NoName057(16) attacked the websites of candidates in the 2023 Czech presidential elections. The group operates through Telegram channels, a toolkit supporting multiple operating systems, and GitHub.

Details

Origin	Motive	Targeted Regions	Targeted Industries
Russia	Hacktivism and Destruction	Ukraine and NATO	Foreign Affairs, Transportation, Government, Critical Infrastructure, Financial

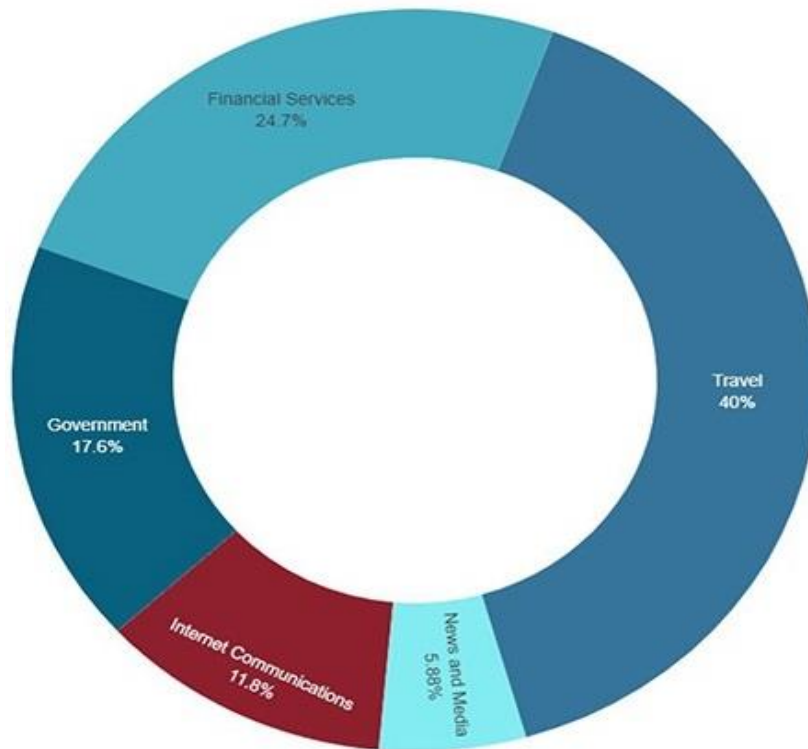


Figure 4: Targeted Sectors by NoName057(16)

Researchers at SOCRadar have observed that the group operates a total of 5 Telegram channels:

- NoName057(16) – used for issuing their statements (mostly through screenshots of their DDoS attacks) in Russian.
- NoName057(16) Eng – contains the same posts as the main channel, translated into English.
- NoName057(16) – a chat channel which members use for communication.
- NoName057(16) _reserve – the group's backup channel.
- DDosia Project – a communication channel they created for the Dosia tool they use.

From May 8, 2023, to June 26, 2023, the enhanced DDoSia tool targeted a series of countries, including: **Lithuania, Ukraine, Poland, Italy, the Czech Republic, Denmark, Latvia, France, the United Kingdom and Switzerland.**

The group is attacking Ukraine and NATO member states, and it is anticipated that they will expand their attacks to include countries that support Ukraine during the ongoing conflict between Ukraine and Russia.

Observing the group's statements in January, it is noted that more than a quarter of the attacks targeted the Czech Republic, and no further reasons for the attacks are given beyond "Russophobia." Reviewing the statements in February, nearly half of the attacks (42.5%) targeted Ukraine and Sweden, and the group also targets several sectors of the victim states such as:

- Public Administration
- Transportation and Storage

- Finance and Insurance
- National Security and Foreign Affairs
- Telecommunications
- Courier and Express Delivery Services
- Municipal Services
- Commercial Banking

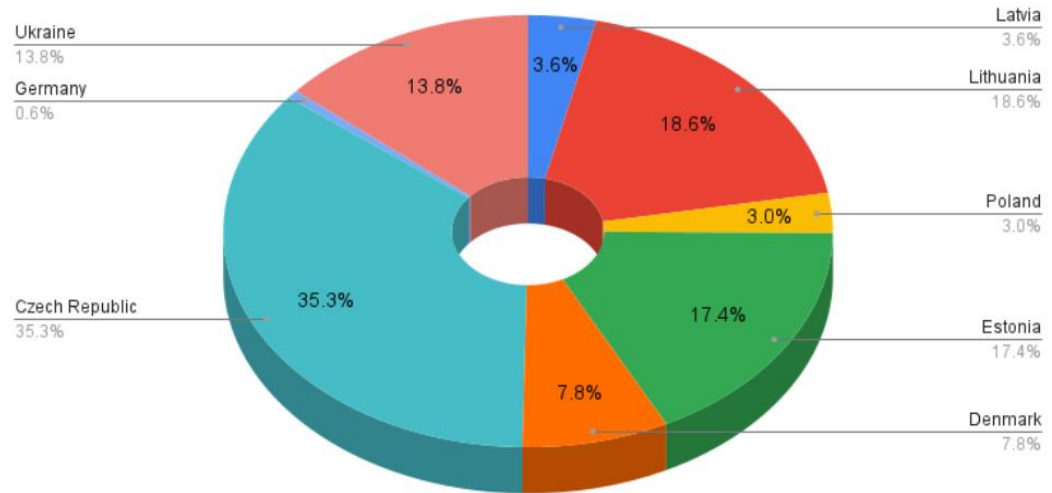


Figure 5: Distribution by percentage of the group's attacks during January from targeted countries (Source: SOCRadar)

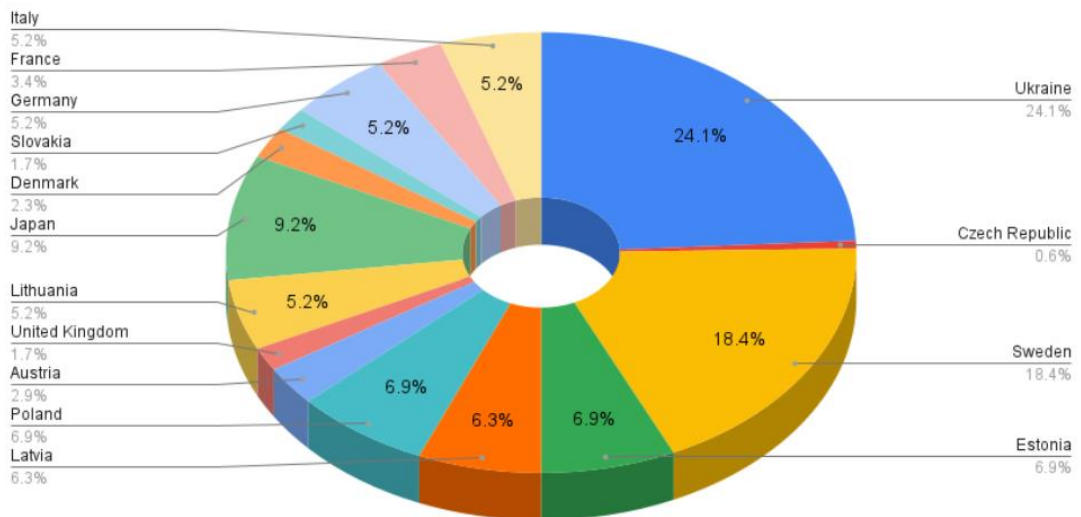


Figure 6: Distribution by percentage of attacks during the month of February based on targeted countries (Source: SOCRadar)

In the latest attacks, **NoName057(16)** has targeted the financial sector, primarily focused on Ukrainian and Polish financial institutions.

The Ukrainian Financial Institutions targeted include:

- Joint Stock Company “Bank Credit Dnepr,”
- State Savings Bank of Ukraine “Oshchadbank,”
- Joint Stock Company TASCOMBANK,

- Bank JSC “UNIVERSAL BANK,”
- Pravex-Bank,
- MTB Bank,
- Piraeus Bank,
- Bank JSB “CLEARING HOUSE,”
- IndustrialBank,
- Ukrsibbank BNP Paribas Group,
- Credit Agricole Bank.

In Poland, the targeted financial institution include:

- PKO Bank Polski,
- Bank Pekao,
- Plus Bank,
- Raiffeisen Bank,
- Polish Development Fund (PFR) Ventures, and another Polish Development Fund Group, PFR Towarzystwo Funduszy Inwestycyjnych has been targeted by NoName057(16).

The attack methods employed by the *NoName057(16)* group.

The primary attack method of the group is Distributed Denial of Service (DDoS). To carry out a DDoS attack, botnets are required. So far, the hacker group has used the "*Redline Stealer botnet Bobik*" a "*Remote Access Trojan (RAT)*" to conduct its DDoS attacks. This botnet allows the group to remotely control infected devices and coordinate them to flood targets with unwanted traffic, effectively disrupting their online services.

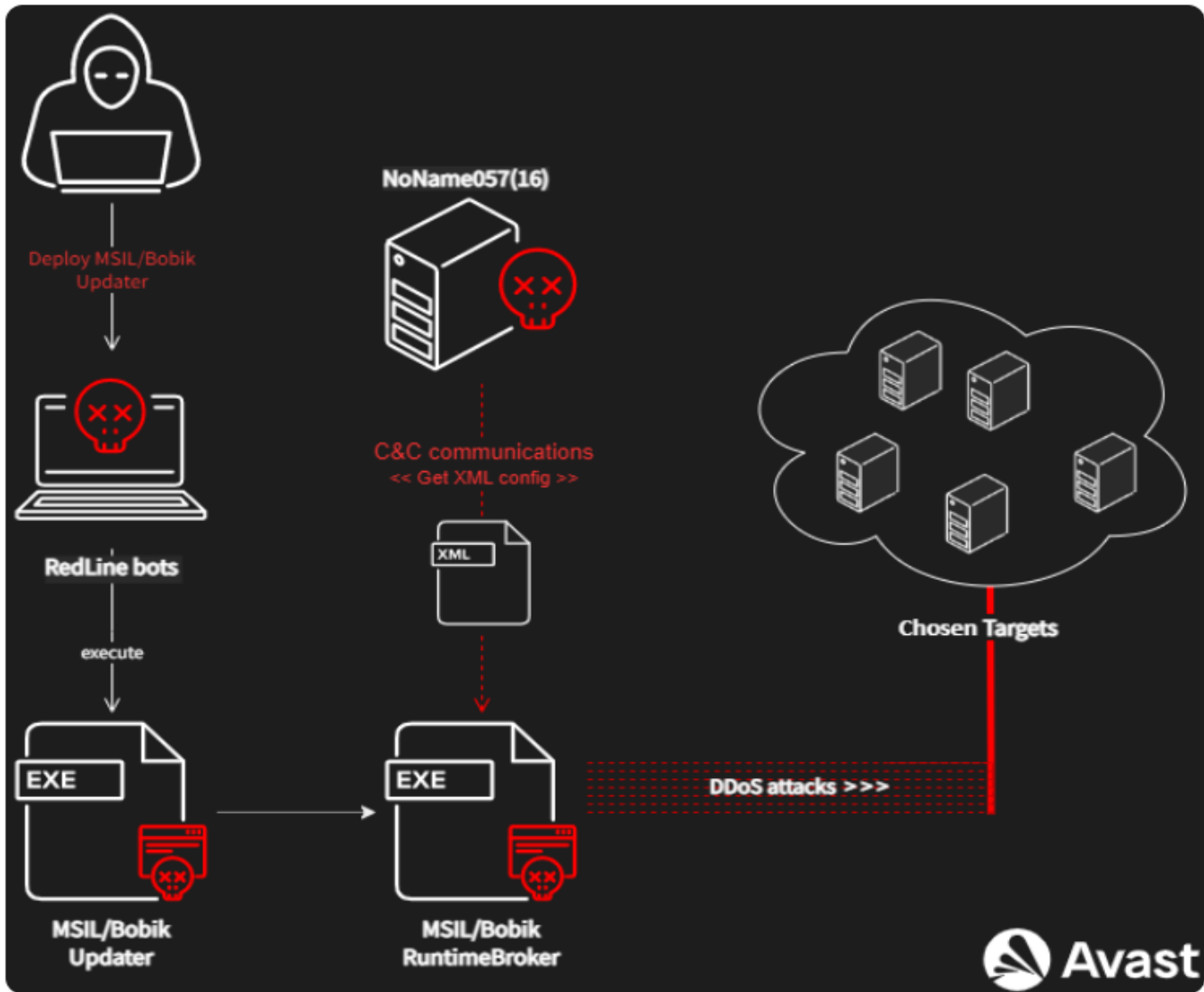


Figure 7: Deployment Process of Bobik Used by NoName057(16) (Burimi:Avast)

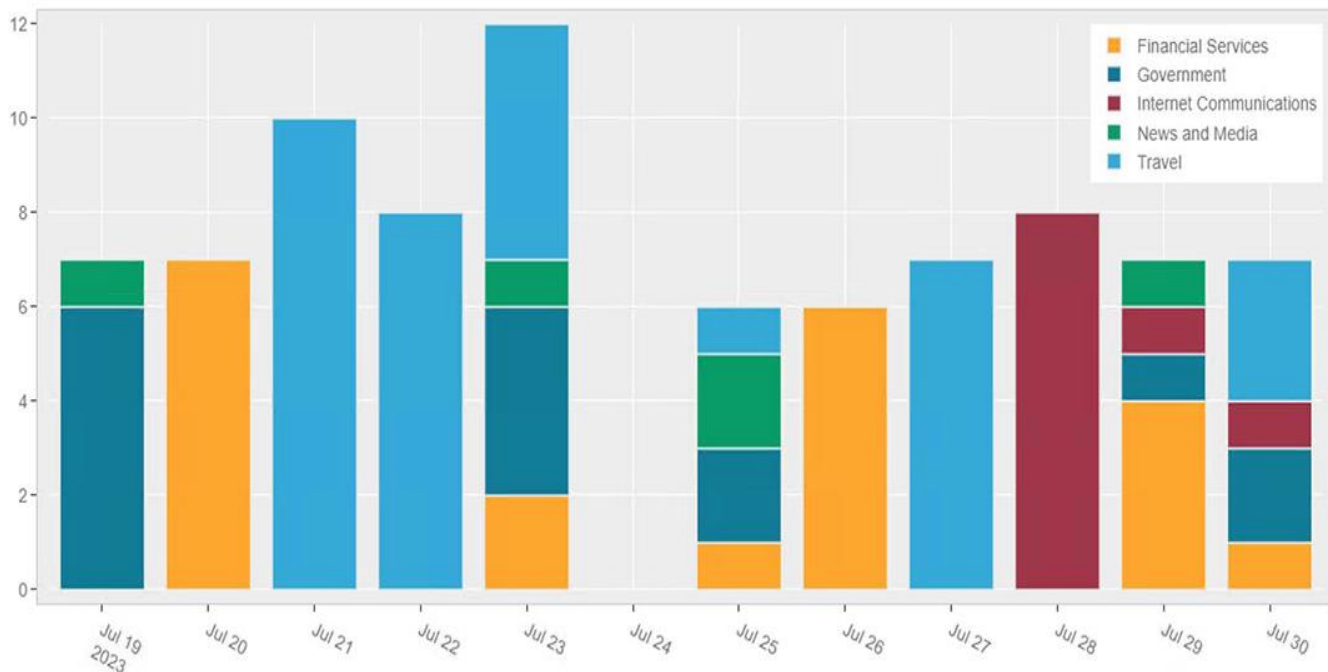


Figure 8: Targeted Sectors in July 2023

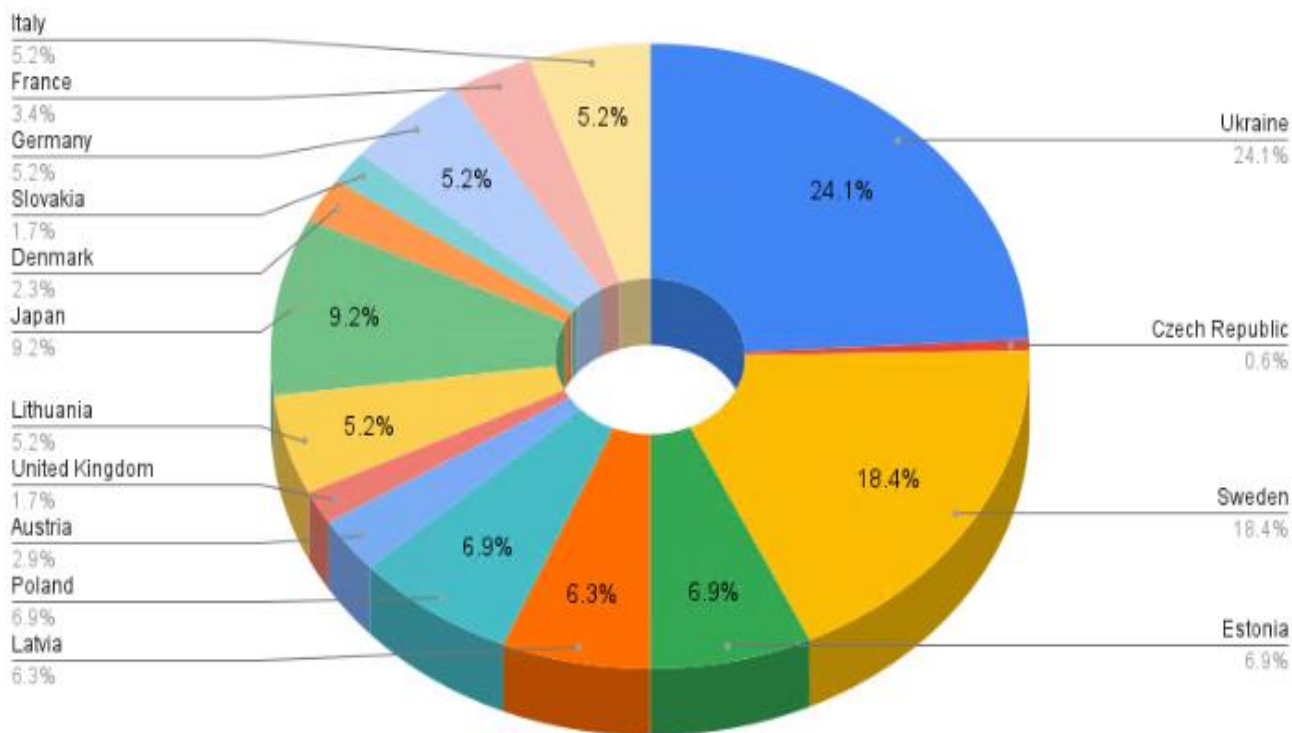


Figure 9: Targeted States in July 2023

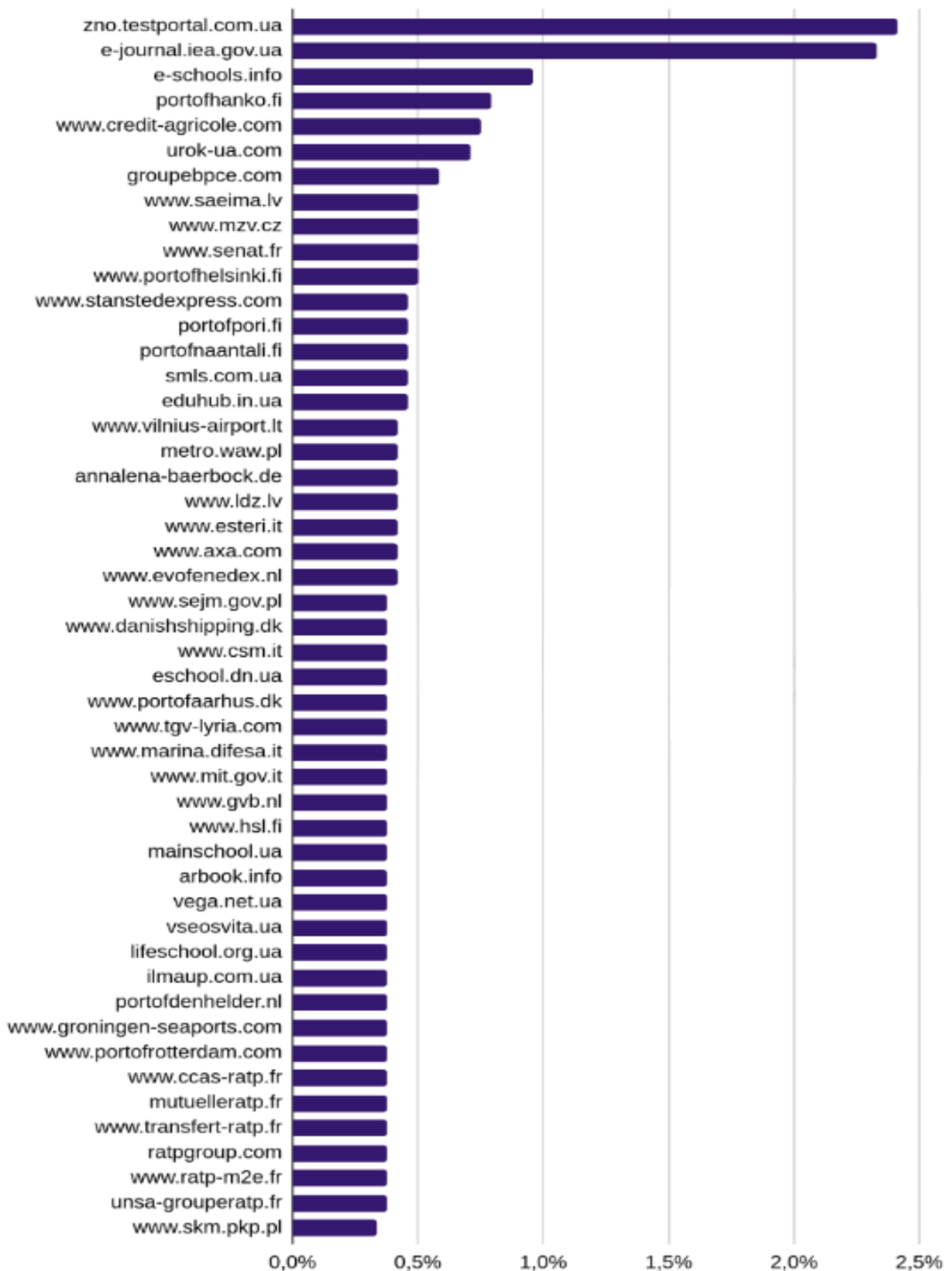


Figure 10: 50 Most Attacked Websites by NoName057(16)

Referencing and acting based on the Tactics, Techniques, and Procedures (TTPs) of MITRE ATT&CK and the Indicators of Compromise (IoCs) of the malicious Russian group NoName057.

TA0011 Command and Control	TA0003 Persistence	TA0004 Privilege Escalation	TA0007 Discovery
TA0040 Impact	T1499 Endpoint Denial of Service	T1498 Network Denial of Service	T1049 System Network Connections Discovery
T1016 System Network Configuration Discovery	T1547 Boot or Logon Autostart Execution	T1071 Application Layer Protocol	

Figure 11: Techniques, Tactics and Procedures used by NoName057(16)

Date 22/09/2023: Through excellent collaboration with the Electronic and Postal Communications Authority (AKEP) and Internet Service Providers (ISPs), as well as all affected infrastructures, it is observed that the attack has been eliminated by implementing the necessary anti-DDoS filters, and 95% of the requests were not successful.

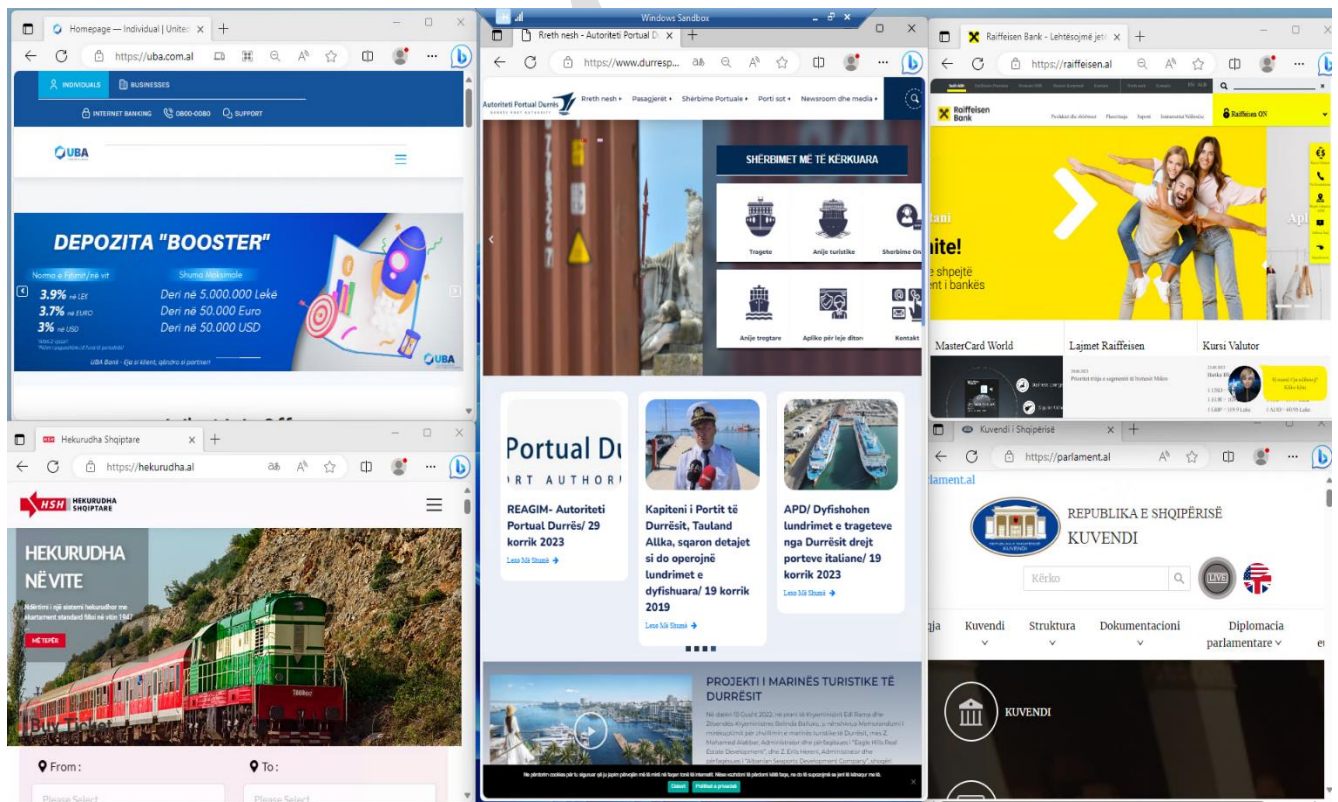


Figure 12: Fixed issues

Indicators of Compromise (IOCs)

Type	Indicators of Compromise
IPv4	94.140.114.239
IPv4	23.216.147.64

IPv4	20.99.184.37
IPv4	192.229.211.108
IPv4	114.114.114.114
IPv4	2.57.122.82
IPv4	2.57.122.243
IPv4	109.107.181.130
IPv4	77.91.122.69
IPv4	31.13.195.87
FileHash-SHA256	fae9b6df2987b25d52a95d3e2572ea578f3599be88920c64fd2de09d1703890a
FileHash-SHA256	f0fe30d33eeb8bb73f7d3ff4844ae632e3ed6a5f55f46ebc8b008c2f274f23e6
FileHash-SHA256	ee003e90d86ad027df9a10ba1d5cd34b0d806d8a31200bffb472b3911e8a5934
FileHash-SHA256	ca60e1a24868136bc2ee27c7bf33e6605ea6bac297ef9c25cefed1902914dabf
FileHash-SHA256	c29f1c31ce2cb55e94274081e1db7a9b85d258bdd2d049259c1af33b2e5a5fc8
FileHash-SHA256	c1d24c5bbd80066a936e703805a8617deb96e86272ba71bcf540b574b1caadd
FileHash-SHA256	bbfebd38766c187f7e3903c4782804b7242673e7f72a40b1763896c73a17b630
FileHash-SHA256	a3b6b719ce886b1b47b5e1d94d5d017c6bd58d3732ee3d43e0557b6395a87401
FileHash-SHA256	9c95ab10c67c5ac8980a77eb838a30f168a6b9dc627489cd32041d02ef4e67f3
FileHash-SHA256	9a1f1c491274cf5e1ecce2f77c1273aafc43440c9a27ec17d63fa21a89e91715
FileHash-SHA256	99f0b2acceff85843ea62935ac4bfefbd72eb2d5989a5440d52112b1d4d0f7b24
FileHash-SHA256	8eb708fb8f044596b841b47c2d75f6c02f878f5685b75008084c70752b961d15
FileHash-SHA256	8e1769763253594e32f2ade0f1c7bd139205275054c9f5e57fef8142c75441f
FileHash-SHA256	848b47c55da850343ef365a367da5387673219f69ac6a0fa98a23527c886a350
FileHash-SHA256	7e12ec75f0f2324464d473128ae04d447d497c2da46c1ae699d8163080817d38
FileHash-SHA256	7bc0a27df5b8420ca23081fb973bb68729bab7b6229513c81019f7be76deb8e1
FileHash-SHA256	761075da6b30bb2bcbb5727420e86895b79f7f6f5cebdf90ec6ca85feb78e926
FileHash-SHA256	74ceb6eb99a71221a6c2e5408eac4a05878279a73021d97ab9dc87a0b13e8165
FileHash-SHA256	726c2c2b35cb1adbe59039193030f23e552a28226ecf0b175ec5eba9dbcd336e
FileHash-SHA256	66662654fddfabac6024e9026ec7a90109eb52ff710a0e24e02b004bc4e53cde
FileHash-SHA256	659ea2a2b93c8a51f66368aab6b8744aaa59894e147b236b9279d7f4a5e28d77
FileHash-SHA256	458844d1edad3253667e6eea0dc735a748e87ff784cbf12c80f05c15e96ec3d9
FileHash-SHA256	306b1ec94edc35a6de3bff359ed4c3eb397624a259622e517ee6cca5ec67ecb1
FileHash-SHA256	30200109a37b650d69ac118a0ed36010a6b857043e41a160496b51d12924528e
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FileHash-SHA256	269504171aacb87e66f51cb6dc6353b371bde963aad8a406281862ed18b540ca
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FileHash-SHA1	f4cd37128057701661f5b50d85a0d01f011f648f
FileHash-SHA1	dcf39d59cc58ee98f331871c7416a3cb4cda3271
FileHash-SHA1	bc5843dd36d4a8e2e500b217052379b33d26c768
FileHash-SHA1	9c4533416484b1449fa2052fb65ecbb1a9e68602
FileHash-SHA1	93a9f9ddc75ac2b8a0f5ec56a4e4194ecbe7bde4

FileHash-SHA1	56c3f841aa0459e8eb93df55eb6f7d5e3e4437a9
FileHash-SHA1	4f193dfeb7e71699ed9c38893dd7bdad6306ee11
FileHash-SHA1	4d02003d0030ed34d786f96e90d7131daebb45f5
FileHash-SHA1	3a6af84d1cd133c603eb66f15e082995ea03ca8f
FileHash-SHA1	2fc23bd2d7307a9dc3c10848342bc24ff45159d2
FileHash-SHA1	1a2803c5804ca9d68f6b59546493db6f95680d61
FileHash-SHA1	05c8b4534ac412240972bc807da48ac6e8a8ab4f
FileHash-SHA1	94d7653ff2f4348ff38ff80098682242ece6c407
FileHash-SHA1	e786c3a60e591dec8f4c15571dbb536a44f861c5
FileHash-SHA1	c86ae9efcd838d7e0e6d5845908f7d09aa2c09f5
FileHash-SHA1	e78ac830ddc7105290af4c1610482a41771d753f
FileHash-SHA1	09a3b689a5077bd89331acd157ebe621c8714a89
FileHash-SHA1	8f0b4a8c8829a9a944b8417e1609812b2a0ebbbd
FileHash-SHA1	717a034becc125e88dbc85de13e8d650bee907ea
FileHash-SHA1	ef7b0c626f55e0b13fb1dcf8f6601068b75dc205
FileHash-SHA1	b63ce73842e7662f3d48c5b6f60a47e7e2437a11
FileHash-SHA1	5880d25a8fbe14fe7e20d2751c2b963c85c7d8aa
FileHash-SHA1	78248539792bfad732c57c4eec814531642e72a0
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FileHash-MD5	e6239ebafc69b135007413ac8f78b26e
FileHash-MD5	d4d180a05ecd3189628183793db2a8a6
FileHash-MD5	c7ea77da6e9c68fa54bbb11c1b12818b
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FileHash-SHA256	0000039c1449f55a0825b566a4bdf728b398022c5af6cffb5786d1c0e7fdd1b2

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FileHash-SHA256	000002a2558f34a0ebba13e90b7396af19d09d33268ae3aae7092fe81209278f
FileHash-SHA256	0000028f80066ad99544cc7a79caa649ee72eca2711b1b1128df61ffd13b0657
FileHash-SHA256	0000025ebd4ecf2fb52e8cbd8d4c72f2fb070c33e8ad24a1f12f74f30ac03119
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FileHash-SHA256	00000048b1c9e60c14a6619f0292dea96df7f10c11cfa9ae28693219c0ae844b
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FileHash-SHA1	d45fbc0e01ddd64b18bd2f5f171f41ca3bcb88c0
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FileHash-SHA1	a6186d98e4579f6802b4e4bee551833da2f3f302
FileHash-SHA1	8082df2822e1c4432eac87e51a5e70349f986f0c
FileHash-SHA1	776c5c5f005b0dc899586caa44815bfe48ceaf1d
FileHash-SHA1	5997ff10da5ce10ac28be2fa2941dcc3929d63c
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FileHash-SHA1	4bd827294f0ad2826d0c929563e621fe3b20997e
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FileHash-SHA1	0a6d717d33329bbc794ac3d608d197e276654228
FileHash-MD5	de498cf7be31ded3dd436f4623d1572f
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FileHash-MD5	cc17c4e2805306984a614f5dcb3915e7
FileHash-MD5	b457518a80a0ce3c3c9558ec2e73602c
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FileHash-MD5	7265719c94c5ffbcdbb5f71228d8ca68
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FileHash-MD5	6421ff7c627288d69609a7c404de03de
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Domain	tom56gaz6poh13f28[.]myftp.org
Domain	zig35m48zur14nel40[.]myftp.org
Domain	05716nnm@proton[.]me
Domain	dddosia
Domain	[.]github.io
URL	hxxps://t[.]me/noname05716
URL	hxxps://t[.]me/nn05716chat
URL	hxxps://github[.]com/dddosia
URL	hxxps://github[.]com/kintechi341

Recommendations

Some of the measures recommended for infrastructures to prevent their systems and networks from cyberattacks:

AKCESK recommends that infrastructures implement the following best practices to reduce the risk of attacks from these malicious actors.

- ✚ Ensure that the antivirus and anti-malware application is activated and that signature definitions are regularly and timely updated. Well-maintained antivirus software can prevent the use of commonly deployed cyberattack tools, which are distributed via spear-phishing.
- ✚ If your organization is using certain types of applications and devices vulnerable to known common vulnerabilities and exposures (CVEs), ensure that these applications are updated to the latest patch.
- ✚ Monitor host-based indicators, including *webshells* on your network.
- ✚ Maintain and test an incident response plan.
- ✚ Proper configuration of network devices facing the internet
- ✚ Don't expose management interfaces to the web.
- ✚ Disabling unused or unnecessary network ports and protocols.
- ✚ Deactivation of network services and devices that are no longer in use.
- ✚ Adopting the “Zero-Trust” principle and architecture.
- ✚ Blocking IOCs of the aforementioned attackers.

Recommendations that can work as a precaution against DDoS:

- Detection: If you're identifying a lot of incoming requests in your webserver logs, or full bandwidth, this could indicate an attack that's trying to block your web service. Understand your critical assets, identify the services you are exposed to online and the vulnerabilities of those services.

- Implementation of DDOS attack mitigation solutions/services for critical infrastructure.
- Isolation of incoming traffic only for the Albanian state, set limits/second or "lower the threshold" in case of DDoS attack.
- Check the number of downloads from a single IP address.
- Apply **captcha systems** to public forms without authentication.
- Make sure users know in advance how they can report incidents.
- Educate employees and stakeholders on DDOS attacks and mitigation strategies.
- Application of proxy servers to redirect traffic. Use a proxy service to block any attempts to navigate to websites that have been identified as containing malware or part of phishing campaigns.
- Implement Network DDoS Protection, Application DDoS Protection, Website DDoS Protection filters.
- Continuous monitoring of logs on your critical systems.

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