ThreatMon

IN-DEPTH ANALYSIS ON

THE ROLES OF THREAT ACTORS AND ATTACKS IN THE UKRAINE-RUSSIA WAR

IT Army of UKRAINE

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Summary

The beginning of the Russia-Ukraine war dates back to Russia's annexation of Crimea in 2014. The political tension that erupted in 2021-2022 was the last straw and Russian forces took action on Putin's orders. Taking action on February 24, 2022, Russian forces launched a large-scale invasion of Ukraine. Russian President Vladimir Putin claims that this is not an invasion, but that Russia is protecting its geopolitical interests in the region, its citizens and its deployed soldiers.

This report is the 4rd Report in a series of investigations on threat actors playing an active role in the Ukraine-Russia war, based on the IT Army of Ukraine report shared by ThreatMon earlier.

Cyber Wars in The Ukraine-Russia War

In 2014, Russia annexed Crimea, leading to conflict in the Donbass region and the start of a cyber war between Ukraine and Russia. Since then, Ukraine has been a frequent target of Russian cyber attacks, including ransomware, DDoS, and data manipulation. These attacks have targeted critical sectors such as energy, finance, and communication.

One of the most notable cyber attacks on Ukraine occurred in 2015 when parts of the country experienced power cuts. The attack was allegedly carried out by the pro-Russian group Sandworm, which targeted the country's electricity grid. This cyber attack caused a worldwide debate on cybersecurity and served as a wake-up call for Ukraine to take stronger measures on cybersecurity.

Following the attack, Ukraine implemented several measures to enhance its cybersecurity capabilities. The country established a National Coordination Center for Cybersecurity and developed a national cybersecurity strategy. Additionally, the government introduced legislation to strengthen cybersecurity regulations and established partnerships with international organizations to share best practices and expertise.

Despite these efforts, Ukraine remains a target for cyber attacks from Russia. In 2017, the country was hit by another cyber attack, the NotPetya ransomware attack, which caused widespread disruption in Ukraine and other countries. The attack is believed to have been carried out by Russian hackers and caused billions of dollars in damage.

Ukraine's experience highlights the growing threat of cyber attacks and the need for countries to take cybersecurity seriously. As technology continues to advance, the risk of cyber attacks is only going to increase. Therefore, countries must continue to invest in cybersecurity measures to protect themselves from these threats.

Threat Actor Review: IT Army of Ukraine

Who is IT Army of Ukraine?

Two days after the Russian invasion, which started with Putin's announcement of a "special military intervention" on television on February 24, 2022, Ukraine's deputy prime minister and minister of digital transformation, Mykhailo Fedorov, announced the creation of a volunteer cyber army. Volunteers joining the group were divided into units to carry out DDoS attacks and the more experienced to perform complex cyber operations.

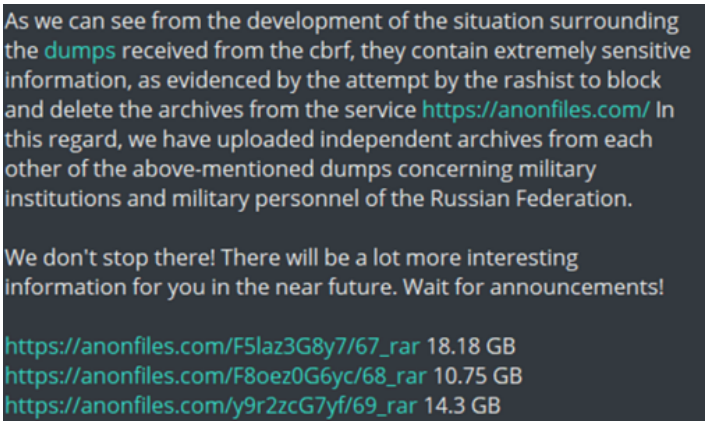
IT Army of Ukraine uses Twitter and Telegram channels to announce the attacks. A website has been created so that more volunteers can participate and the IT Army can install the tools it has developed, and the attacks and the consequences of their attacks are shared on Telegram channels.

Which Side They Supports?

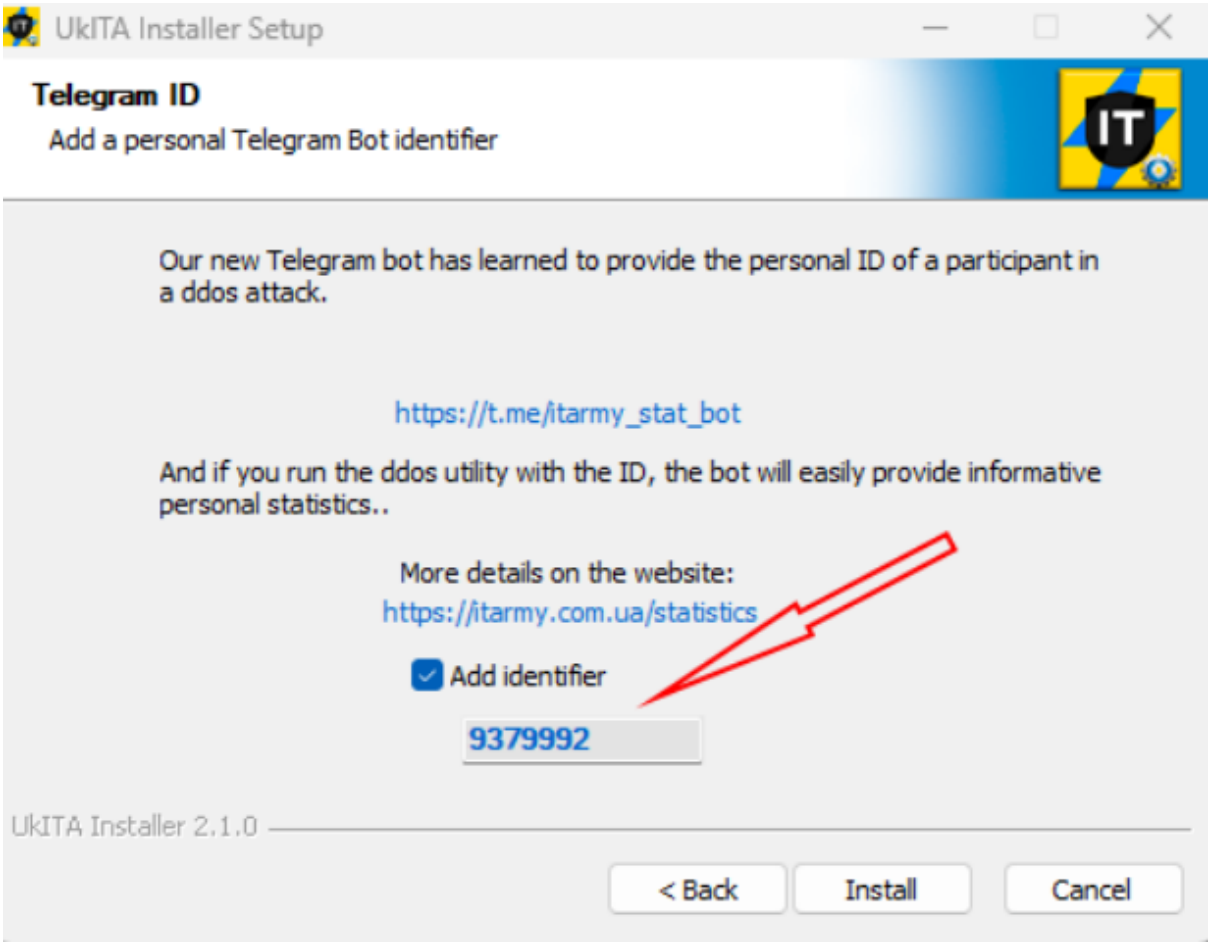
IT Army of Ukraine is a hacking group affiliated with Ukraine.

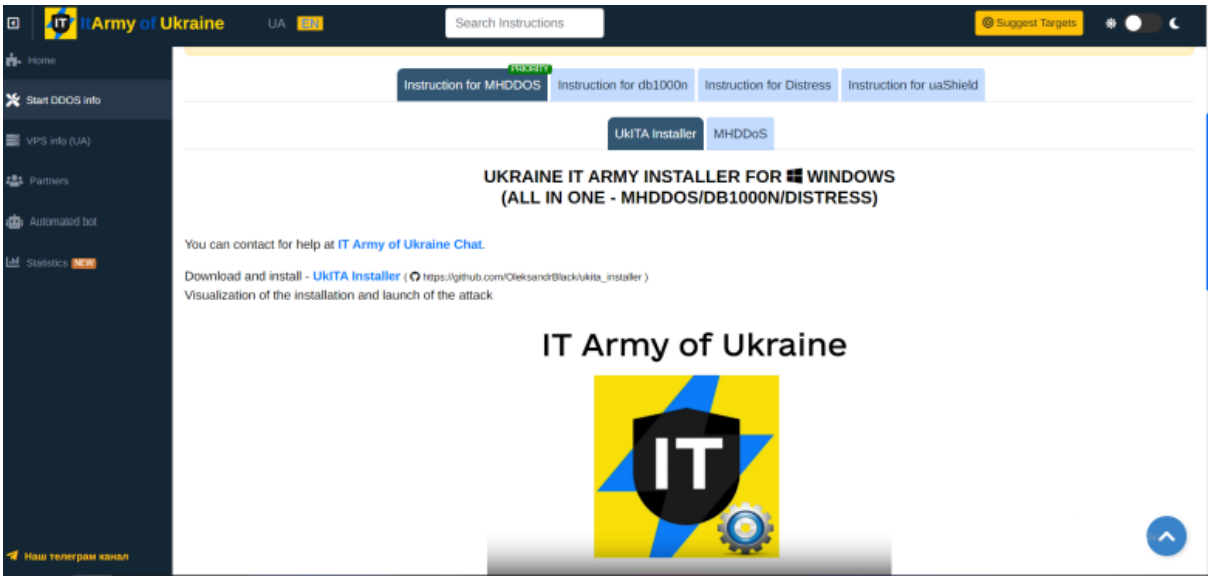
What Types of Attacks Does IT Army of Ukraine Execute?

IT Army of Ukraine carries out DDoS (Denial-of-Service) attacks on the websites and networks they specify. These DDoS attacks sometimes happen to make a website completely unusable, and sometimes it happens to temporarily stop or slow down some systems to harm Russia's economy. As a result of these attacks, confidential information of the attacked systems is also leaked, and they share them in the Telegram group.



They support these attacks with tools they wrote themselves or with open source proxies such as "Death By 1000 Needles" or "mhhddos_proxy".


UkITA Installer Setup
Telegram ID
Add a personal Telegram Bot identifier
Our new Telegram bot has learned to provide the personal ID of a participant in a ddos attack.
https://t.me/itarmy_stat_bot
And if you run the ddos utility with the ID, the bot will easily provide informative personal statistics..
More details on the website:
https://itarmy.com.ua/statistics
Add identifier
9379992
UkITA Installer 2.1.0
< Back
Install
Cancel


IT Army of Ukraine
UA
EN
Search Instructions
Suggest Targets
Home
Start DDOS info
VPS info (UA)
Partners
Automated bot
Statistics
Instruction for MHDDOS
Instruction for db1000n
Instruction for Distress
Instruction for uaShield
UkITA Installer
MHDDoS
UKRAINE IT ARMY INSTALLER FOR WINDOWS
(ALL IN ONE - MHDDOS/DB1000N/DISTRESS)
You can contact for help at IT Army of Ukraine Chat.
Download and install - UkITA Installer
Visualization of the installation and launch of the attack
IT Army of Ukraine
Наш телеграм канал

Which Sectors Is IT Army of Ukraine Targeting?

IT Army Of Ukraine has targeted almost all sectors in the last year. In total, it has carried out DDoS attacks by sharing over 9,100 individual IP addresses and URLs on the Telegram channel. In order from most to least:

- Government-run Websites (Courts, Ministry Of Foreign Affairs, Post Office, Russian Parliament, Beverage Delivery Service…)
- Bank, Payment Systems And Stock Market (Qiwi, Gazprom Bank, Central Bank, Paytrans, Alfa-bank, Moex, Sberbank…)
- Media (Mk.ru, Gazeta.ru, Aif.ru, Tass.ru…)
- Propaganda Websites
- Auction Sites (Rosltorg)
- Television Channels And Services (Okko.tv, Wink.ru)
- Video Conferencing Apps/sites
- Logistics (Ati.su, Datrans.ru, Dellin.ru)
- Audit And Accounting Services
- Sites Selling Military Equipment (Voentorg, 2gis)
- Websites Of Terrorist Groups Against Ukraine
- Ticket Reservation Sites (Booking Website)
- Websites Selling Unmanned Aerial Vehicles (Copter Drone Shops, Citilink.ru)
- University Websites
- Insurance Companies
- Holdings
- Courier Services (Express.dhl.ru, Boxberry.ru)
- Cinema And Tv Series Services
- Telecom And Communication Companies (Crelcom.ru)
- Internet Service Providers (Farline.net, Miranda-media, Dom.ru)
- Airlines
- Food Delivery Sites (Vkusvill.ru, Smokat.ru, Utkonos.ru)
- Electronic And E-commerce Sites (Wildberries.ru, Ozon.ru, Chipdip.ru)
- Veterinarians (Vetis)
- Petrol And Gas Trading Sites
- Freelance Platforms (Fl.ru, Advego.com)
- Job Sites (Superjob, Hh.ru, Zarplata.ru)
- Ddos Guards
- Automotive Industry (Drom.ru, Exist.ru, Autodoc.ru)
- Importer Companies (Dns-shop.ru)
- Search Engines

Many other industries have been the target of these attacks.

IT Army of Ukraine's Attacks

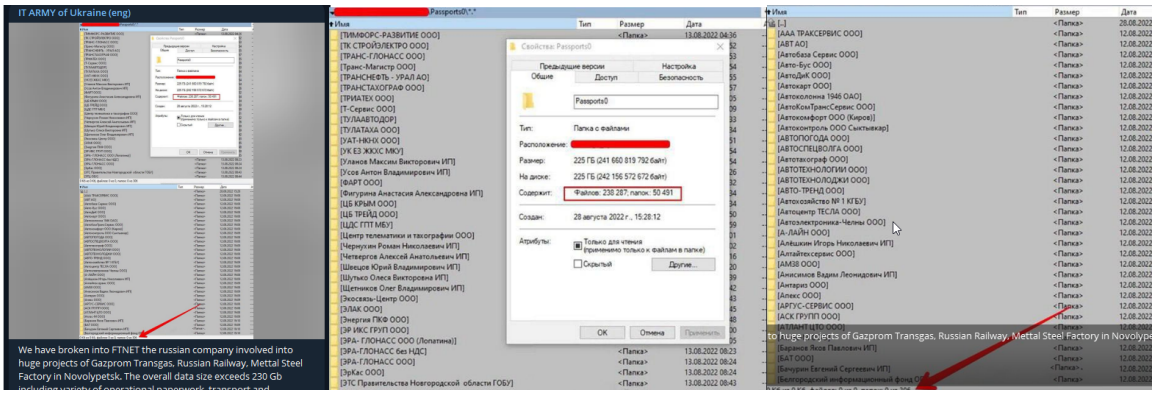
Here are some examples of cyber attacks involving IT Army of Ukraine directly or indirectly:

Example attacks

October 24, 2022

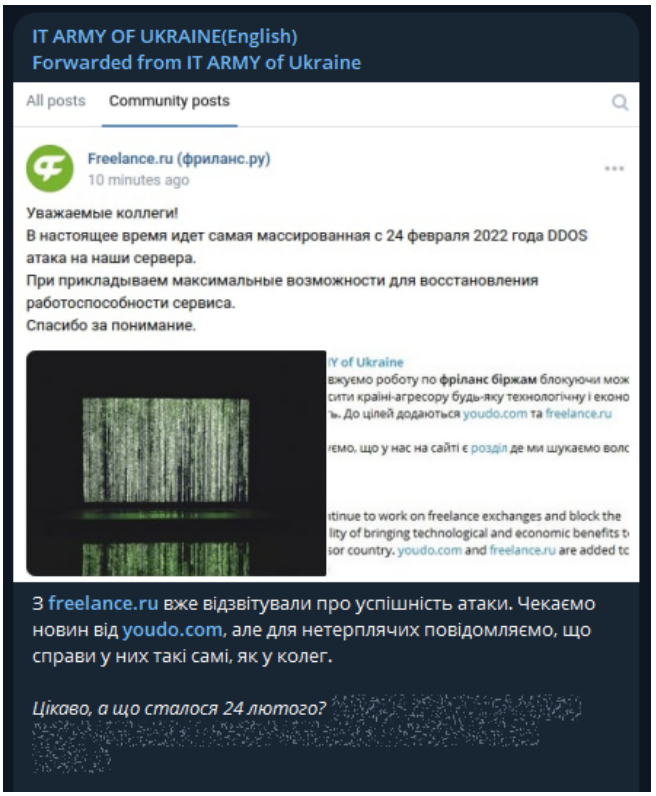
On October 24, 2022, the IT ARMY of Ukraine group accessed and extracted more than 230 Gb of large databases of its victims. This data included various operational documents, transportation and employee profiles.

Gazprom Transgaz, Russian Railways, Mettal Steel Plant in Novolypetsk, Russian company FTNET



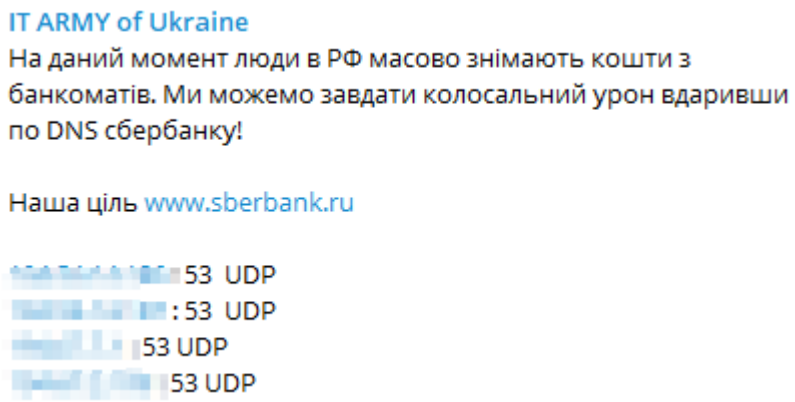
December 22, 2022

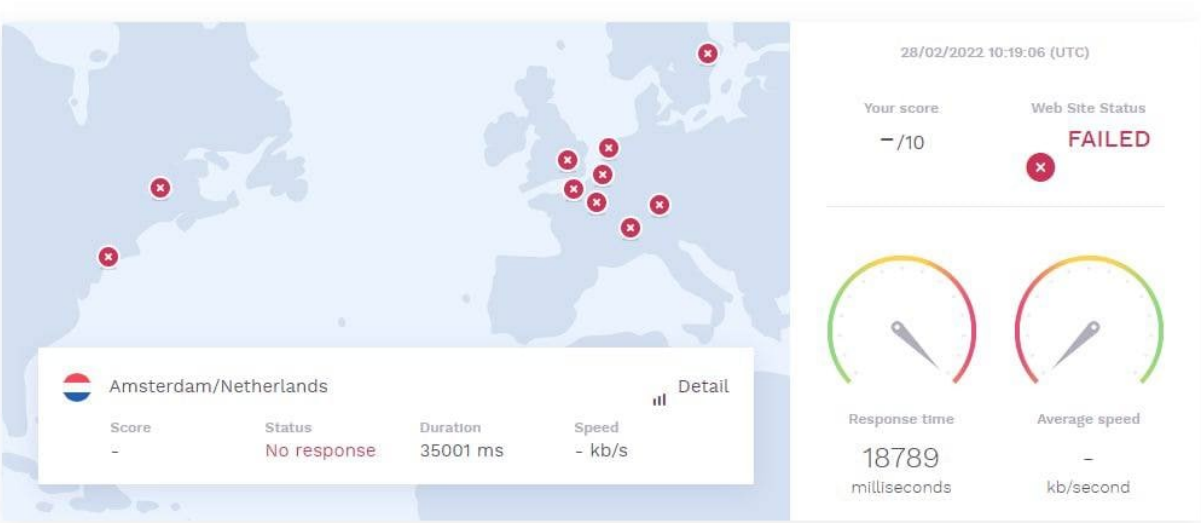
On December 22, 2022, the IT ARMY OF UKRAINE group was behind the attack on Russian-affiliated freelance.ru. With DDoS attacks, they forced the victim to remain offline for a certain period of time.



February 28, 2022

On February 28, 2022, Sberbank main domain and many ATMs became unusable due to DDOS attacks on Sberbank DNS servers.





January 16, 2023

January 16, 2023 After the attack on the Russian Regional Development Bank, they caused the fuel cards to not work at the gas stations.

IT ARMY OF UKRAINE(English)
Forwarded from IT ARMY of Ukraine

На многих заправках в Башкирии стало проблемой расплатиться картами

Причина может быть на стороне подсанкционного банка ВБРР - партнера «Роснефти».

(**10 января 2023 09:31** , ИА "Девон")
В Башкирии на автозаправках «Башнефти» (группа «Роснефть») с 9 января отмечены сбои при оплате безналичным способом. Страдают как обычные автовладельцы, так и организации. Например, водителей скорой помощи предупредили о возможных перебоях при оплате топливными картами и предложено в таких случаях платить наличными с сохранением чеков. Об этом сообщило издание UFA1.RU.

На горячей линии «Башнефти» сообщили, что проблема уже устранена на части АЗС, но на некоторых заправочных станциях всё еще могут наблюдаться сбои.

January 25, 2023

Owned by Russia on January 25, 2023 They targeted digital accounting firm Sbis.

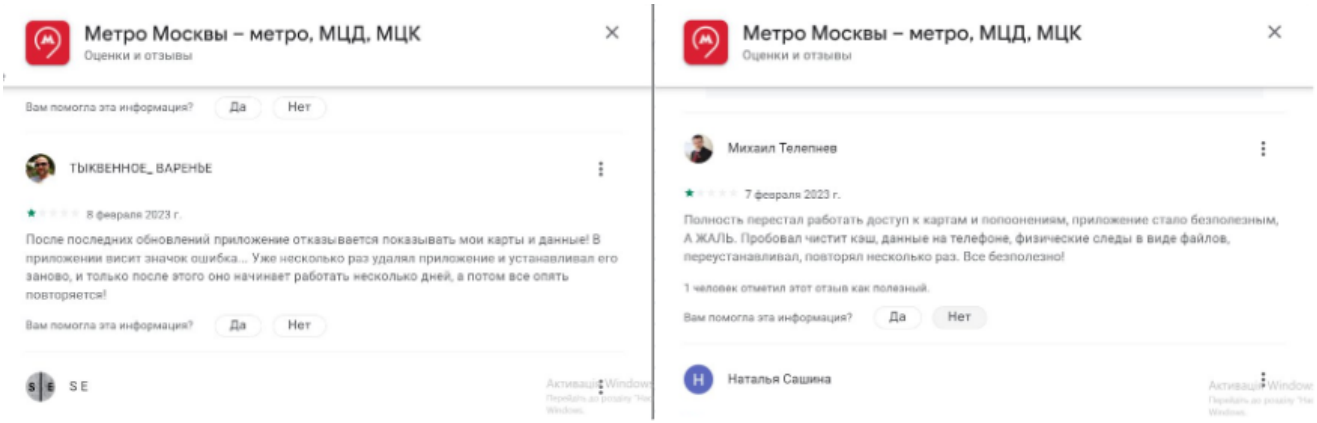
IT ARMY OF UKRAINE(English)
Forwarded from IT ARMY of Ukraine

Трощимо економічний сектор болотян далі! До поточних цілей додали офд сервіс від Сбис.

February 15, 2023

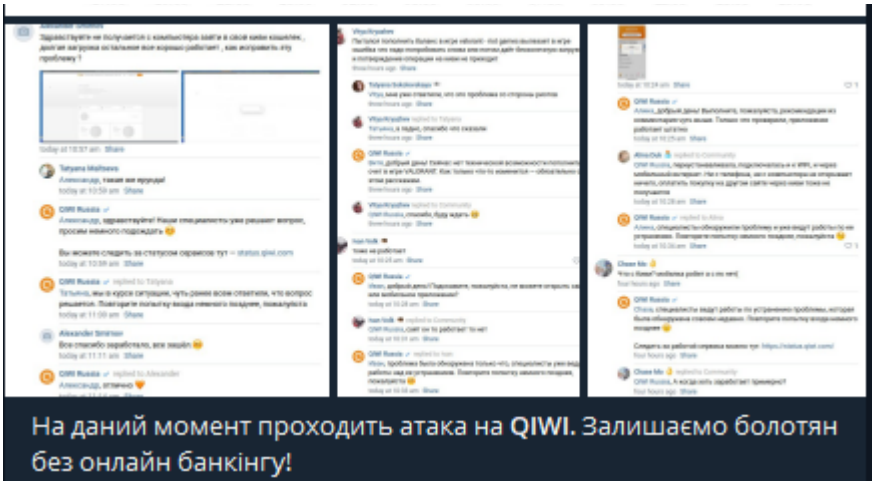
February 15, 2023 They gained access to the corporate network of PayTrans, an IT company that serves the payments of Moscow's normal and medium-capacity metro. It leaked source code for online payment mobile apps, application server for wire transfers, ORA2 and ORA1 for payment transactions, CCTV data.

```
Powering off VM:
Power off failed
[root@esxi:~] vim-cmd vmsvc/power.off 22
Powering off VM:
Power off failed
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/*
.fbb.sf                         vm_alpha_clone/
.fdc.sf                         vm_beta/
.jbc.sf                         vm_bk/
.locker/                        vm_confluence/
.pb2.sf                         vm_delta/
.pbc.sf                         vm_first_test/
.sbc.sf                         vm_for_test_new_apb/
.sdd.sf/                        vm_gamma/
.vh.sf                          vm_jira/
_iso/                           vm_minpromtorg/
vm_ASU_PBK/                     vm_mm_suv_kitchen_clone/
vm_AlpineLinux_docker/          vm_nvr/
vm_MM_autodownload_win2003r2ru/ vm_vipnet/
vm_Win2003_MM_certcenter/       vm_win2012_20191021/
vm_alpha/                       vm_winprog/
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_ASU_PBK/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_AlpineLinux_docker/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_MM_autodownload_win2003r2ru/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_Win2003_MM_certcenter/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_alpha/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_alpha_clone/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_beta/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_bk/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_delta/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_first_test/*
rm: can't remove '/vmfs/volumes/datastorage0/vm_first_test/vm_first_test-000001-sesparse.vmdk': Device or resource busy
rm: can't remove '/vmfs/volumes/datastorage0/vm_first_test/vm_first_test-28425a1d.vswp': Device or resource busy
rm: can't remove '/vmfs/volumes/datastorage0/vm_first_test/vm_first_test-flat.vmdk': Device or resource busy
rm: can't remove '/vmfs/volumes/datastorage0/vm_first_test/vm_first_test.vmx.lck': Device or resource busy
rm: can't remove '/vmfs/volumes/datastorage0/vm_first_test/vmx-vm_first_test-675437085-1.vswp': Device or resource busy
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_for_test_new_apb/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_gamma/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_jira/*
[root@esxi:~] rm -f /vmfs/volumes/datastorage0/vm_minpromtorg/*
rm: can't remove '/vmfs/volumes/datastorage0/vm_minpromtorg/vm_minpromtorg-ca46ddb4.vswp': Device or resource busy
rm: can't remove '/vmfs/volumes/datastorage0/vm_minpromtorg/vm_minpromtorg-flat.vmdk': Device or resource busy
rm: can't remove '/vmfs/volumes/datastorage0/vm_minpromtorg/vm_minpromtorg.vmx.lck': Device or resource busy
```



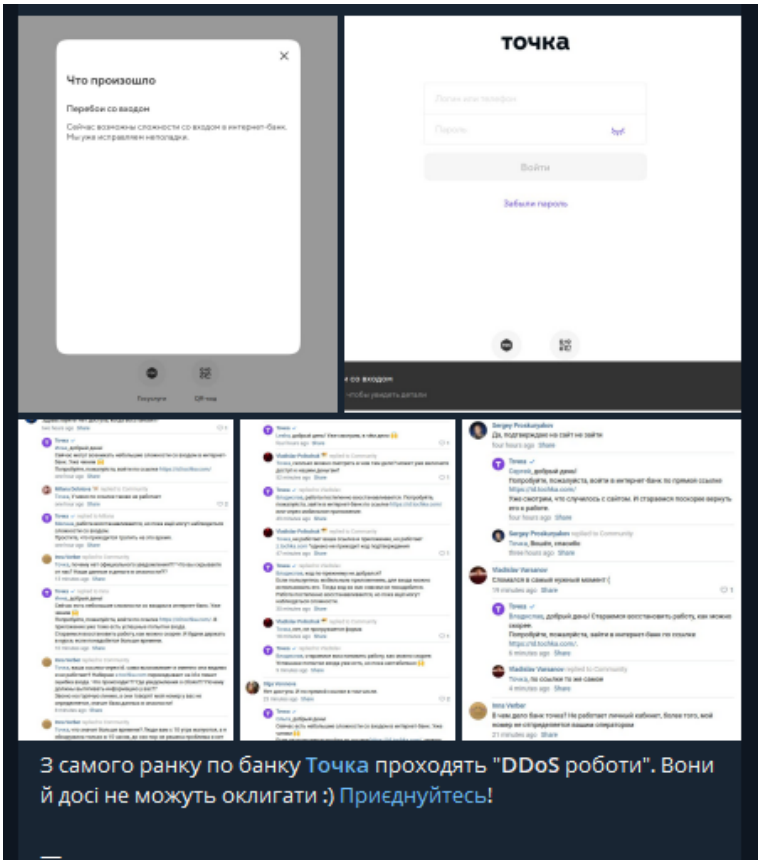
February 20, 2023

February 20, 2023 QIWI Bank, headquartered in Cyprus, suffered a cyber attack that damaged its reputation with its customers.



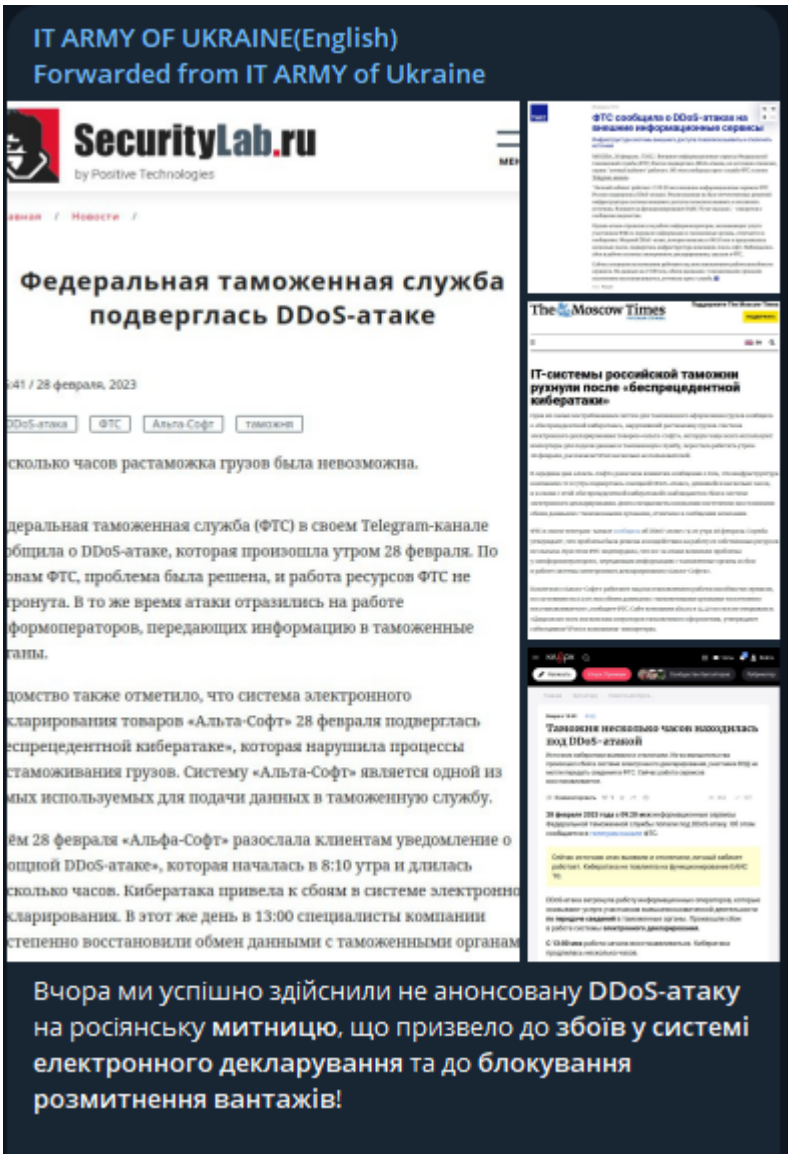
February 24, 2023

IT ARMY OF UKRAINE February 24, 2023 The Russian digital bank blocked its operations as a result of a DDoS attack against Tochka.



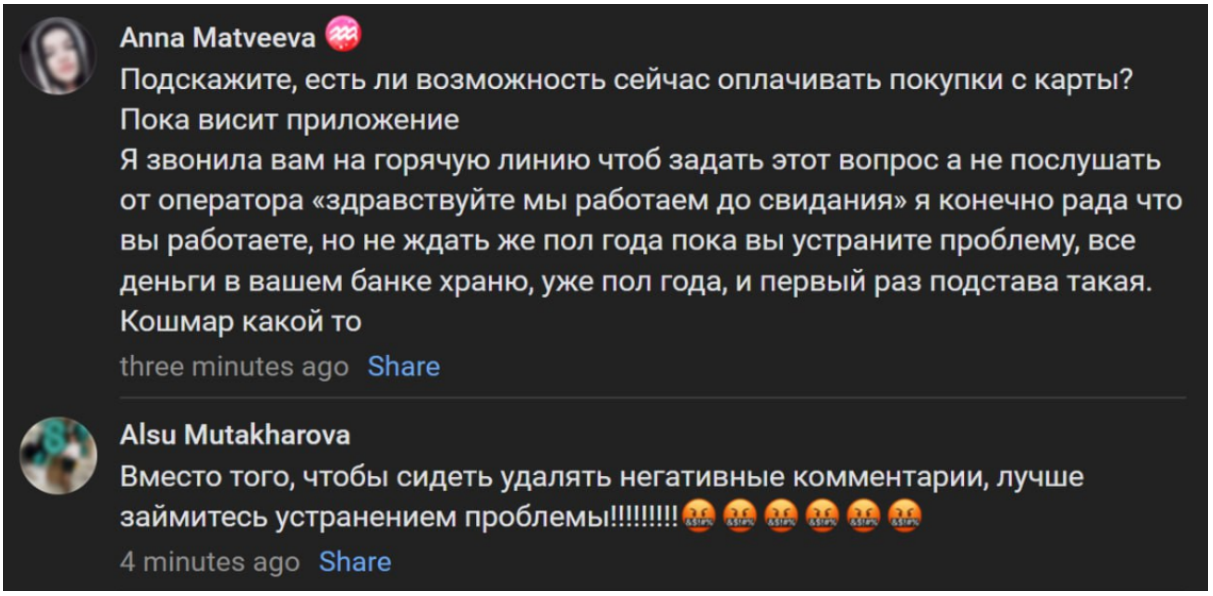
March 1, 2023

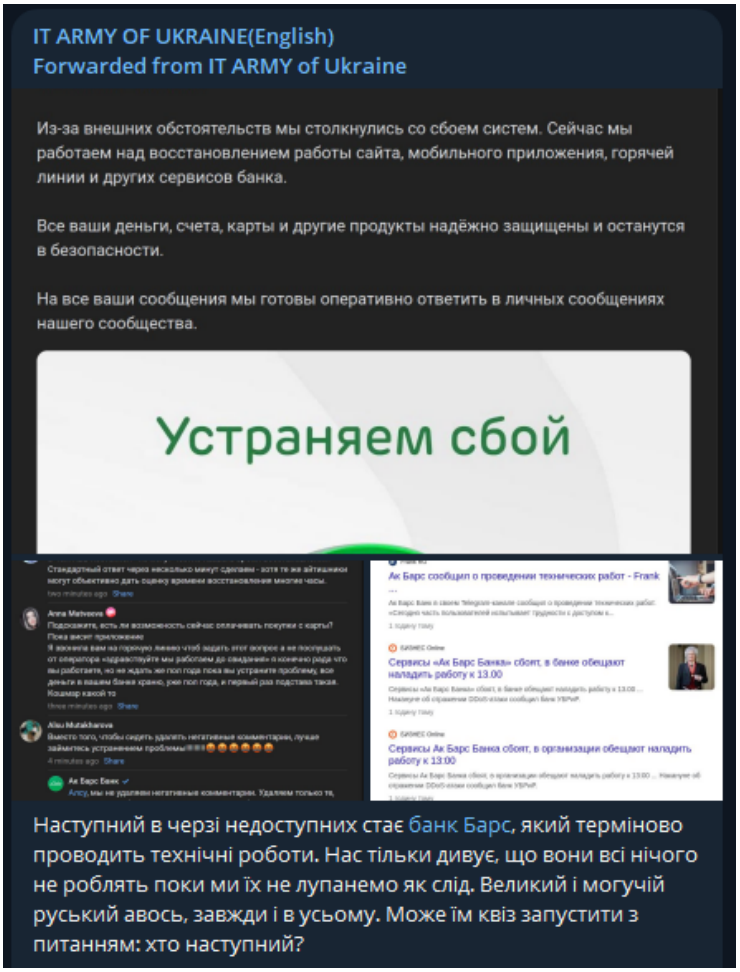
March 1, 2023 IT ARMY OF UKRAINE carried out a successful DDoS attack on Russian customs, leading to a system failure in the electronic declaration process and blocking the cargo customs clearance procedure.



March 15, 2023

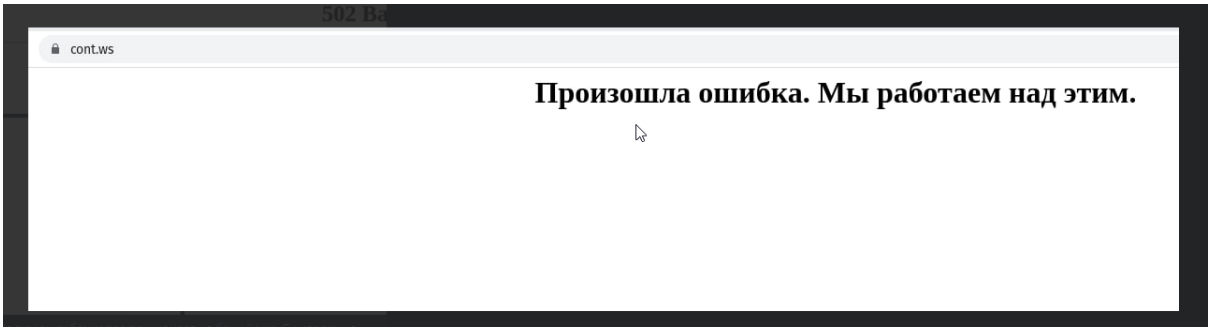
On March 15, 2023, the targeted Bank Bars fell victim to DDoS and lost many of its customers. So the IT ARMY OF UKRAINE group got what it wanted.

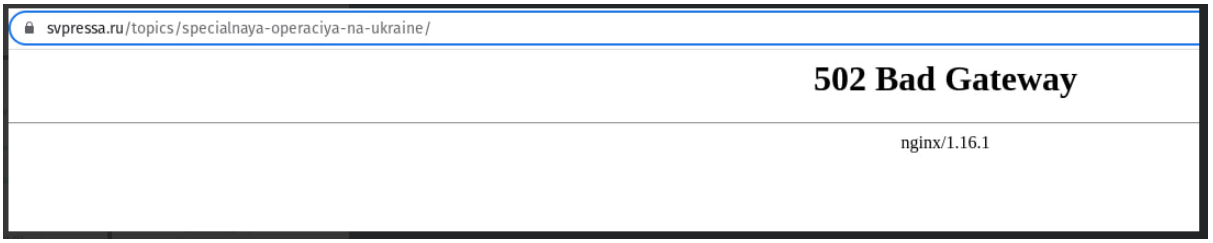


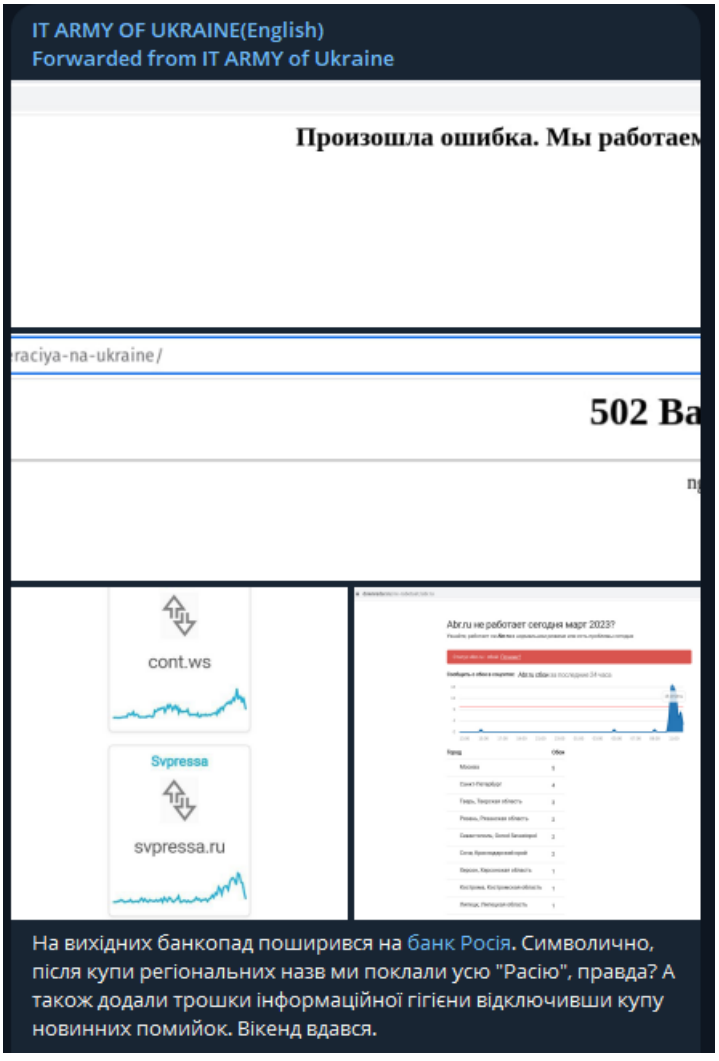


March 20, 2023

On March 20, 2023, the banking system "ABR Bank" fell victim to a DDoS attack that interrupted all its operations.

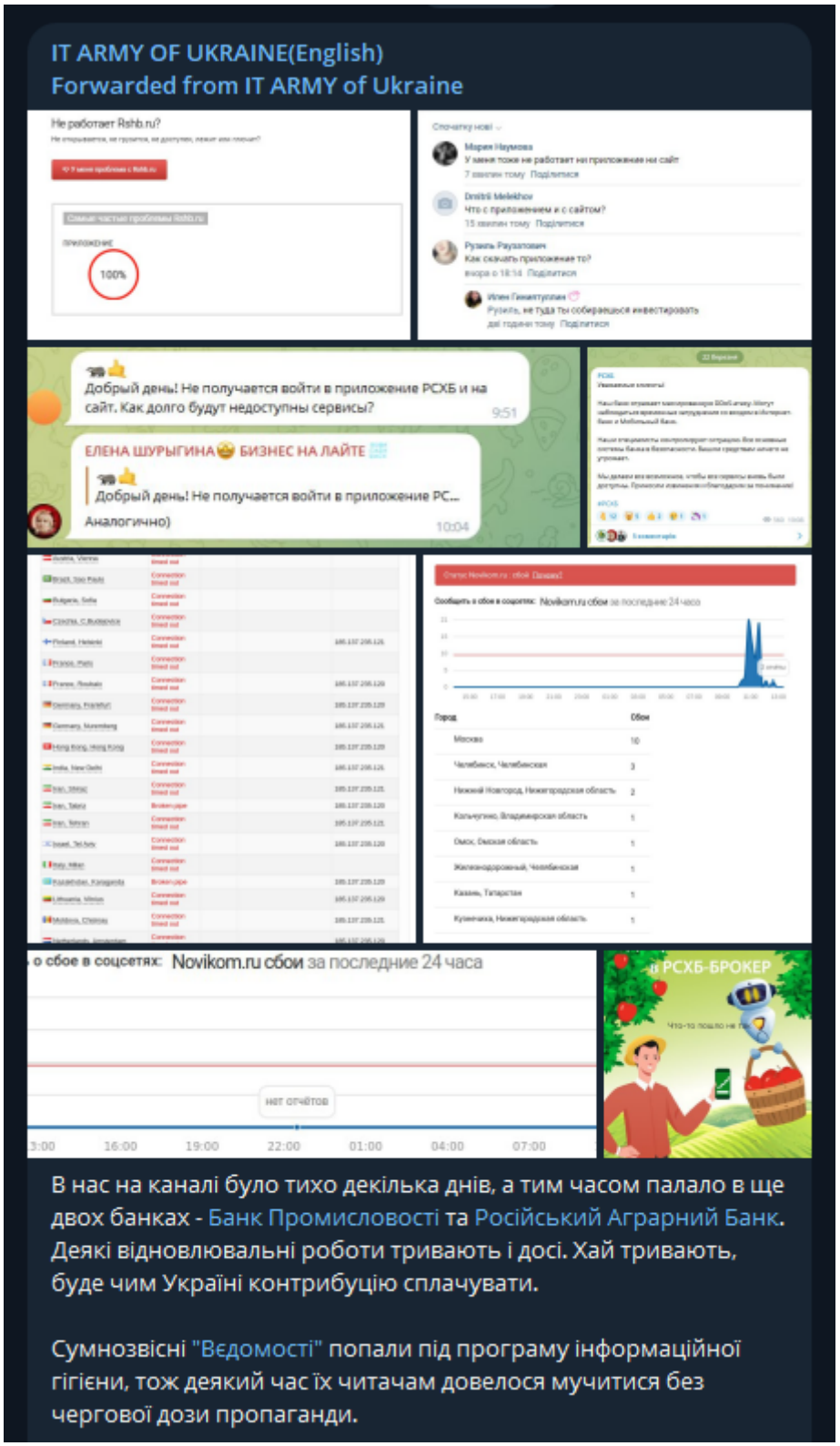






March 25, 2023

On March 25, 2023,IT ARMY has been silent for a few days, but during this period, they launched DDoS attacks on two important banks belonging to Russia, Novikom and Russian Agrarian Bank, rendering them unusable for a certain period of time.



IT Army of Ukraine's Attack TTPs

Tactics	Technique	Technique ID
Impact	Endpoint Denial of Service: Service Exhaustion Flood	T1499.002
Impact	Network Denial of Service: Direct Network Flood	T1498.001
Reconnaissance	Active Scanning: Scanning IP Block	T1595.001
Reconnaissance	Gather Victim Network Information: DNS	T1590.002
Reconnaissance	Gather Victim Network Information: IP Addresses	T1590.005
Collection	Data From Local System	T1005

IT Army of Ukraine's Attack IOCs

IOC	IOC Type
xn--80aafyzixh[.]xn--j1amh	Domain
www[.]zdg[.]md	Domain
www[.]usatoday[.]com/search/results?q=	Domain
www[.]ukrinform[.]ru	Domain
www[.]ted[.]com/search?q=	Domain
www[.]stily[.]ge	Domain
www[.]rondevo[.]com	Domain
www[.]psichopatas[.]lt	Domain
www[.]picuki[.]com	Domain
www[.]ostro[.]org	Domain
www[.]onlinedics[.]ru	Domain
www[.]mamywiekszego[.]pl	Domain
www[.]fbi[.]com	Domain
www[.]dynamomania[.]com	Domain
www[.]cia[.]gov/index[.]html	Domain
www[.]bigmir[.]net	Domain
www[.]alia[.]ge	Domain
www[.]abw[.]by	Domain
www[.]1variant[.]ru	Domain
war[.]lt	Domain
vug[.]pl/takeRussiaDown[.]html	Domain
vug[.]pl	Domain
vtemu[.]by	Domain
vlast[.]kz	Domain
v3[.]jrmk[.]net	Domain
ukrainiancharm[.]com	Domain
ukraine[.]is-great[.]org	Domain
ua[.]korrespondent[.]net	Domain
tv8[.]md	Domain
trendy-u[.]com	Domain
the-list[.]ams3[.]cdn[.]digitaloceanspaces[.]comtarahtino[.]notion[.]site/tarahtino	Domain

talkytimes[.]com	Domain
talkyminute[.]com	Domain
talkyhour[.]com	Domain
stoprussianweb[.]eu	Domain
stopputin[.]ddns[.]net	Domain
stop-russian-fake[.]news	Domain
stop-russia[.]synergize[.]co	Domain
stop-russia[.]rf[.]gd	Domain
stop-russia[.]great-site[.]net	Domain
stop--russian--desinformation-near-page[.]translate[.]goog	Domain
stiri[.]md	Domain
star[.]korupciya[.]com	Domain
slavaukraini[.]online	Domain
slavaukraini[.]000webhostapp[.]com	Domain
sbiblio[.]com	Domain
russianwarshipgofuckyourself[.]club	Domain
russia-must-be-stopped-6mpfu[.]ondigitalocean[.]app	Domain
ru[.]jooble[.]org	Domain
romancetale[.]com	Domain
ringside24[.]com	Domain
realist[.]online	Domain
raid[.]shell[.]enes[.]tech	Domain
r[.]search[.]yahoo[.]com	Domain
putler[.]whonnock[.]sk	Domain
putin-huilo[.]xyz	Domain
primetime[.]ge	Domain
pravdatutnews[.]com	Domain
point[.]md	Domain
play[.]tavr[.]media	Domain
pia[.]ge	Domain
peliskovi[.]cz	Domain
peimquizpol[.]xyz/	Domain
padaread[.]com	Domain

padabum[.]com	Domain
ovh1[.]vanagas[.]tech	Domain
osvita[.]name	Domain
omore[.]city	Domain
officiel-online[.]com	Domain
nowar[.]1plus[.]red	Domain
norussian[.]tk	Domain
news[.]bigmir[.]net	Domain
neagent[.]by	Domain
mwl[.]vdl[.]pl	Domain
megatv[.]ge	Domain
mbox[.]bigmir[.]net	Domain
mamywiekszego[.]pl	Domain
m[.]valentime[.]com	Domain
m[.]rondevo[.]com	Domain
m[.]orchidromance[.]com	Domain
m[.]loveswans[.]com	Domain
m[.]funchatt[.]com	Domain
m[.]derzhava-sveta[.]webnode[.]ru	Domain
m[.]amourfeel[.]com	Domain
m[.]amourfactory[.]com	Domain
m[.]999[.]md	Domain
livebeam[.]com	Domain
lady[.]tochka[.]net	Domain
kuzelovi[.]cz	Domain
kratkoe[.]com	Domain
korupciya[.]com	Domain
korrespondent[.]net	Domain
konspiracie[.]tresk[.]sk	Domain
knizhnik[.]org	Domain
kinowar[.]com	Domain
kaszaniok[.]github[.]io	Domain
kanalukraina[.]tv	Domain
joinposter[.]com	Domain
jebacruskich[.]page	Domain

ipfs[.]io	Domain
internetua[.]com	Domain
higherror[.]notion[.]site	Domain
help-ukraine-win[.]web[.]app	Domain
help-ukraine-win[.]s3[.]eu-west-1[.]amazonaws[.]com/index[.]html	Domain
help-ukraine-win[.]s3[.]eu-west-1[.]amazonaws[.]com	Domain
help-ukraine-win[.]firebaseapp[.]com	Domain
gonzo[.]shell[.]enes[.]tech	Domain
glavpost[.]com	Domain
github[.]com/chmod777anarchy	Domain
gazetaby[.]com	Domain
fuck-desinformation[.]netlify[.]app	Domain
freeanon[.]xyz	Domain
fraza[.]com	Domain
forum[.]ge	Domain
fortuna[.]ge	Domain
footballua[.]tv	Domain
football[.]by	Domain
fly[.]freecluster[.]eu	Domain
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edufuture[.]biz	Domain
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dev[.]by	Domain
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