CYBER INCIDENTS RESPONSE OPERATIONAL CENTRE OF THE STATE CYBER PROTECTION CENTRE OF THE STATE SERVICE OF SPECIAL COMMUNICATION AND INFORMATION PROTECTION OF UKRAINE

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## REPORT

## ON VULNERABILITY DETECTION AND CYBER INCIDENTS/ CYBER ATTACKS RESPONSE SYSTEM

## VULNERABILITY DETECTION AND <br> - CYBER INCIDENTS/CYBER ATTACKS RESPONSE SYSTEM

is a set of software and software-hardware tools that ensure round-the-clock monitoring, analysis and transferring of telemetric information about cyber incidents and cyber attacks which occurred or are currently occurring at cyber protection objects and may have negative impact on their sustainable functioning.


## SUBSYSTEM OF

## CYBER INCIDENTS RESPONSE OPERATIONAL CENTRE

## is a central component of the Vulnerability Detection and Cyber Incidents/Cyber Attacks

Response System and provides:

- centralized management of all subsystems of the Vulnerability Detection and Cyber Incidents/Cyber Attacks Response System;
- centralized collection and accumulation of information about network information security events;
- real-time monitoring and processing of cyber threats and cyber incidents.

The Subsystem of Cyber Incidents Response Operational Centre detects malicious activity, as well as system and network anomalies at cyber protection objects by analysing the data, which is received from network devices (active sensors, firewalls, vulnerability scanners), workstations and servers, authorization systems, internal and external cyber threats data sources.

# MONITORING STATISTICS 

detected

received by means of monitoring, analysis and transferring of telemetric information about cyber
incidents and cyber attacks

times more cyber incidents were registered (comparing to the same time period during 2021).


the chart displays top 10 IP addresses (in percent ratio), which were identified as active scanning sources for the reporting period

| src | src country | AS NUMBER | AS NAME | \% |
| :---: | :---: | :---: | :---: | :---: |
| 45.93.16.71 | Germany | AS23470 | ReliableSite | 0,40 |
| 206.189.5.99 | Netherlands | AS14061 | DIGITALOCEAN-ASN | 0,38 |
| 89.248.165.199 | Netherlands | AS202425 | IP Volume inc | 0,32 |
| 72.167.32.184 | United States | AS398101 | GoDaddy | 0,31 |
| 185.156.73.91 | russian federation | AS44446 | 000 Sibirlnvest | 0,30 |
| 97.74.81.123 | Singapore | AS26496 | GoDaddy | 0,29 |
| 60.161.81.116 | China | AS4134 | Chinanet | 0,26 |
| 93.174.93.227 | Netherlands | AS202425 | IP Volume inc | 0,23 |
| 146.88.240.4 | United States | AS20052 | NETSCOUT Arbor | 0,22 |
| 45.143.200.114 | russian federation | AS212283 | Roza Holidays Eood | 0,21 |

## 87389

unique suspicious files were automatically detected during the reporting period
by the Subsystems of the
Vulnerability Detection and Cyber Incidents/Cyber Attacks Response System

## Timechart of malware distribution activity



Malware distribution activity by source


■ network

- endp oint
alerts from the Endpoint Detection and Response Subsystem on the level of user and server workstations about detecting malicious activity on them
network events from the Telemetry Collection Subsystem, that identify malware distribution by HTTP, SMTP, POP3, IMAP protocols


## By malware files extentions



By associated software, used as a malware distribution channel


## By malware files signatures



presented charts display statistical information for the reporting period, obtained by analysing IS events, which were triggered by intrusion attempts of all priorities targeted on the networks of cyber protection objects and the realization of cyber threats with the aim of detecting software vulnerabilities, finding misconfigurations of services and active network devices

Qualitative rating by CVSS Base Score
according to the approach of comparing CVSS Base Scores (1-10) to a qualitative rating scale, described in CVSSv3.1 specification


|  |  |  | 2021-26855 |  | 2021-40539 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2022-22954 |  |  | 2021-40438 |
| 2021-40444 | 2022-26134 | 2021-26084 | 2022-26138 | 2021-21985 | 2021-22005 |

# GEOGRAPHY OF <br> DETECTIONS 

OF CRITICAL INFORMATION SECURITY EVENTS *

## 个26\% <br> by such amount of $\%$ the number of critical IS events were detected, that originate from russian IP addresses <br> (comparing to the same time period during 2021)

## CONTACTS

Cyber Incidents Response Operational Centre

State Cyber Protection Centre
State Service of Special Communication and Information Protection of Ukraine

