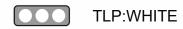


THREAT BULLETINS

UPDATE - Joint Cybersecurity Advisory: Destructive Malware Targeting Organizations in Ukraine





Apr 29, 2022

On April 28, 2022, an update to the Joint Cybersecurity Advisory (CSA), <u>AA22-057A</u>, by the Cybersecurity and Infrastructure Security Agency (CISA) and the Federal Bureau of Investigation (FBI) was released to include additional Indicators of Compromise (IOCs) for WhisperGate and technical details for HermeticWiper, IsaacWiper, HermeticWizard, and CaddyWiper destructive malware, all of which have been deployed against Ukraine since January 2022.

Additionally, specific malware analysis reports (MAR) are provided within the report for the various malware groups below:

- HermeticWiper
- IsaacWiper and HermeticWizard
- CaddyWiper

On January 15, 2022, the Microsoft Threat Intelligence Center (MSTIC) disclosed that malware, known as WhisperGate, was being used to target organizations in Ukraine. According to Microsoft, WhisperGate is intended to be destructive and is designed to render targeted devices inoperable.

On February 23, 2022, several cybersecurity researchers disclosed that malware known as HermeticWiper was being used against organizations in Ukraine. According to SentinelLabs, the malware targets Windows devices, manipulating the master boot record, which results in subsequent boot failure.

On February 26, 2022, the United States Cybersecurity and Infrastructure Security Agency (CISA) and the Federal Bureau of Investigation (FBI) released a joint cybersecurity advisory (CSA), AA22-057A, discussing the destructive malware deployed by threat actors against Ukraine organizations to destroy computer systems and render them inoperable prior to Russia invading Ukraine.

Destructive malware can present a direct threat to an organization's daily operations, impacting the availability of critical assets and data. Further disruptive cyberattacks against organizations in Ukraine are likely to occur and may unintentionally spill over to organizations in other countries. Organizations should increase vigilance and evaluate their capabilities encompassing planning, preparation, detection, and response for such an event.

Health-ISAC is releasing this intelligence report for your increased geopolitical and security awareness. This joint Cybersecurity Advisory (CSA) provides information on WhisperGate and HermeticWiper malware as well as open-source indicators of compromise (IOCs) for organizations to detect and prevent the malware. Additionally, this joint CSA provides recommended guidance and considerations for organizations to address as part of network architecture, security baseline, continuous monitoring, and incident response practices.

Indicators of Compromise have been entered into Health-ISAC's automated sharing platform for those members ingesting automated threat indicators. For posterity, the full PDF report is attached to this alert, and can also be accessed here.

Threat actors have deployed destructive malware, including both WhisperGate and HermeticWiper, against organizations in Ukraine to destroy computer systems and render them inoperable. Listed below are high-level summaries of campaigns employing the malware. CISA recommends organizations review the resources listed below for more in-depth analysis and see the Mitigation section for best practices on handling destructive malware.

On January 15, 2022, Microsoft announced the identification of a sophisticated malware operation targeting multiple organizations in Ukraine. The malware, known as WhisperGate, has two stages that corrupts a system's master boot record, displays a fake ransomware note, and encrypts files based on certain file extensions. Although a ransomware message is displayed during the attack, Microsoft highlighted that the targeted data is destroyed, and is not recoverable even if a ransom is paid.

For additional information on Microsoft's blog regarding destructive malware targeting Ukrainian organizations, please see the report here. On February 23, 2022, cybersecurity researchers disclosed that malware known as HermeticWiper was being used against organizations in Ukraine. According to SentinelLabs, the malware targets Windows devices, manipulating the master boot record and resulting in subsequent boot failure. HermeticWiper was discovered to have similarities to the earlier WhisperGate attacks against Ukraine in which the wiper was disguised as ransomware, according to Broadcom.

UPDATE: Additional IOCs Associated with WhisperGate

The additional IOCs associated with WhisperGate contain malicious binaries, droppers, and macros linked to WhisperGate cyber actors activity. The binaries are predominantly .Net and are obfuscated. Obfuscation varies; some of the binaries contain multiple layers of obfuscation. Analysis identified multiple uses of string reversal, character replacement, base64 encoding, and packing. Additionally, the malicious binaries contain multiple defenses including VM checks, sandbox detection and evasion, and anti-debugging techniques. Finally, the sleep command was used in varying lengths via PowerShell to obfuscate execution on a victim's network.

All Microsoft .doc files contain a malicious macro that is base64 encoded. Upon enabling the macro, a PowerShell script runs a sleep command and then downloads a file from an external site. The script connects to the external website via HTTP to download an executable. Upon download, the executable is saved to C:\Users\Public\Documents\ filepath on the victim host.

An identified zip file was found to contain the Microsoft Word file macro_t1smud.doc. Once the macro is enabled, a bash script runs a sleep command and the script connects to htxxps://the.earth.li/~sgtatham/putty/latest/w32/putty.exe. This binary is likely the legitimate Putty Secure Shell binary. Upon download the file is saved to C:\Users\Public\Documents\ file path.

<u>CISA</u>, <u>Microsoft</u>, <u>Sentinel One</u>, <u>CISA</u>, <u>CISA</u>, <u>us-cert</u>, <u>us-cert</u>, <u>us-cert</u>, <u>CISA</u>, CISA, CISA

Recommendations Best Practices for Handling Destructive Malware

As previously noted above, destructive malware can present a direct threat to an organization's daily operations, impacting the availability of critical assets and data. Organizations should increase vigilance and evaluate their capabilities, encompassing planning, preparation, detection, and response, for such an event. This section is focused on the threat of malware using enterprise-scale distributed propagation methods and provides recommended guidance and considerations for an organization to address as part of their network architecture, security baseline, continuous monitoring, and incident response practices.

CISA and the FBI urge all organizations to implement the following recommendations to increase their cyber resilience against this threat.

Potential Distribution Vectors

Destructive malware may use popular communication tools to spread, including worms sent through email and instant messages, Trojan horses dropped from websites, and virus-infected files downloaded from peer-to-peer connections. Malware seeks to exploit existing vulnerabilities on systems for quiet and easy access.

The malware has the capability to target a large scope of systems and can execute across multiple systems throughout a network. As a result, it is important for organizations to assess their environment for atypical channels for malware delivery and/or propagation throughout their systems. Systems to assess include:

Enterprise applications – particularly those that have the capability to directly interface with and impact multiple hosts and endpoints. Common examples include:

- Patch management systems
- Asset management systems
- Remote assistance software (typically used by the corporate help desk)
- Antivirus (AV) software
- Systems assigned to system and network administrative personnel
- Centralized backup servers
- Centralized file shares

While not only applicable to malware, threat actors could compromise additional resources to impact the availability of critical data and applications. Common examples include:

Centralized storage devices

Potential risk – direct access to partitions and data warehouses.

Network devices

Potential risk – capability to inject false routes within the routing table, delete specific routes from the routing table, remove/modify, configuration attributes, or destroy firmware or system binaries—which could isolate or degrade availability of critical network resources.

Best Practices and Planning Strategies

Common strategies can be followed to strengthen an organization's resilience against destructive malware. Targeted assessment and enforcement of best practices should be employed for enterprise components susceptible to destructive malware.

Communication Flow

- Ensure proper network segmentation.
- Ensure that network-based access control lists (ACLs) are configured to permit server-to-host and host-to-host connectivity via the minimum scope of ports and protocols and that directional flows for connectivity are represented appropriately.
 - Communications flow paths should be fully defined, documented, and authorized.
- Increase awareness of systems that can be used as a gateway to pivot (lateral movement) or directly connect to additional endpoints throughout the enterprise.
 - Ensure that these systems are contained within restrictive Virtual Local Area Networks (VLANs), with additional segmentation and network access controls.
- Ensure that centralized network and storage devices' management interfaces reside on restrictive VLANs.
 - Layered access control, and
 - Device-level access control enforcement restricting access from only pre-defined VLANs and trusted IP ranges.

Access Control

- For enterprise systems that can directly interface with multiple endpoints:
 - o Require multifactor authentication for interactive logons.
 - Ensure that authorized users are mapped to a specific subset of enterprise personnel.
 - If possible, the "Everyone," "Domain Users," or the "Authenticated Users" groups should not be

- permitted the capability to directly access or authenticate to these systems.
- Ensure that unique domain accounts are used and documented for each enterprise application service.
 - Context of permissions assigned to these accounts should be fully documented and configured based upon the concept of least privilege.
 - Provides an enterprise with the capability to track and monitor specific actions correlating to an application's assigned service account.
- If possible, do not grant a service account with local or interactive logon permissions.
 - Service accounts should be explicitly denied permissions to access network shares and critical data locations.
- Accounts that are used to authenticate to centralized enterprise application servers or devices should not contain elevated permissions on downstream systems and resources throughout the enterprise.
- Continuously review centralized file share ACLs and assigned permissions.
 - Restrict Write/Modify/Full Control permissions when possible.

Monitoring

- Audit and review security logs for anomalous references to enterprise-level administrative (privileged) and service accounts.
 - Failed logon attempts
 - File share access
 - Interactive logons via a remote session
- Review network flow data for signs of anomalous activity, including:
 - Connections using ports that do not correlate to the standard communications flow associated with an application
 - Activity correlating to port scanning or enumeration
 - Repeated connections using ports that can be used for command and control purposes.
- Ensure that network devices log and audit all configuration changes

 Continually review network device configurations and rule sets to ensure that communications flows are restricted to the authorized subset of rules.

File Distribution

- When deploying patches or AV signatures throughout an enterprise, stage the distributions to include a specific grouping of systems (staggered over a pre-defined period).
 - This action can minimize the overall impact in the event that an enterprise patch management or AV system is leveraged as a distribution vector for a malicious payload.
- Monitor and assess the integrity of patches and AV signatures that are distributed throughout the enterprise.
 - Ensure updates are received only from trusted sources
 - Perform file and data integrity checks
 - Monitor and audit as related to the data that is distributed from an enterprise application.

System and Application Hardening

- Ensure robust vulnerability management and patching practices are in place.
 - CISA maintains a living catalog of known exploited vulnerabilities that carry significant risk to federal agencies as well as public and private sectors entities. In addition to thoroughly testing and implementing vendor patches in a timely—and, if possible, automated— manner, organizations should ensure patching of the vulnerabilities CISA includes in this catalog.
- Ensure that the underlying operating system (OS) and dependencies (e.g., Internet Information Services [IIS], Apache, Structured Query Language [SQL]) supporting an application are configured and hardened based upon industrystandard best practice recommendations. Implement application-level security controls based on best practice guidance provided by the vendor. Common recommendations include:
 - Use role-based access control

- Prevent end-user capabilities to bypass applicationlevel security controls
 - For example, do not allow users to disable AV on local workstations.
- Remove, or disable unnecessary or unused features or packages
- Implement robust application logging and auditing.

Recovery and Reconstitution Planning

A business impact analysis (BIA) is a key component of contingency planning and preparation. The overall output of a BIA will provide an organization with two key components (as related to critical mission/business operations):

- Characterization and classification of system components, and
- Interdependencies.

Based upon the identification of an organization's mission critical assets (and their associated interdependencies), in the event that an organization is impacted by destructive malware, recovery and reconstitution efforts should be considered.

To plan for this scenario, an organization should address the availability and accessibility for the following resources (and should include the scope of these items within incident response exercises and scenarios):

- Comprehensive inventory of all mission critical systems and applications:
 - Versioning information
 - System/application dependencies
 - System partitioning/storage configuration and connectivity
 - Asset owners/points of contact

- Contact information for all essential personnel within the organization
- Secure communications channel for recovery teams
- Contact information for external organizational-dependent resources:
 - Communication providers
 - Vendors (hardware/software)
 - Outreach partners/external stakeholders
- Service contract numbers for engaging vendor support
- Organizational procurement points of contact
- Optical disc image (ISO)/image files for baseline restoration of critical systems and applications:
 - o OS installation media
 - Service packs/patches
 - Firmware
 - Application software installation packages.
- Licensing/activation keys for OS and dependent applications,
- Enterprise network topology and architecture diagrams,
- System and application documentation,
- · Hard copies of operational checklists and playbooks,
- System and application configuration backup files,
- Data backup files (full/differential),
- System and application security baseline and hardening checklists/guidelines, and
- System and application integrity test and acceptance checklists.

Incident Response

Victims of a destructive malware attacks should immediately focus on containment to reduce the scope of affected systems. Strategies for containment include:

- Determining a vector common to all systems experiencing anomalous behavior (or having been rendered unavailable) from which a malicious payload could have been delivered:
 - Centralized enterprise application,
 - Centralized file share (for which the identified systems were mapped or had access),
 - Privileged user account common to the identified systems,

- Network segment or boundary, and
- Common Domain Name System (DNS) server for name resolution.
- Based upon the determination of a likely distribution vector, additional mitigation controls can be enforced to further minimize impact:
 - Implement network-based ACLs to deny the identified application(s) the capability to directly communicate with additional systems,
 - Provides an immediate capability to isolate and sandbox specific systems or resources.
- Implement null network routes for specific IP addresses (or IP ranges) from which the payload may be distributed,
 - An organization's internal DNS can also be leveraged for this task, as a null pointer record could be added within a DNS zone for an identified server or application.
 - Readily disable access for suspected user or service account(s),
 - For suspect file shares (which may be hosting the infection vector), remove access or disable the share path from being accessed by additional systems, and
 - Be prepared to, if necessary, reset all passwords and tickets within directories (e.g., changing golden/silver tickets).

Sources

CISA AA22-057A: Destructive Malware Targeting Organizations in Ukraine

See Attached

Threat Indicator(s)

Domain(s):

Lxkdjr[.]com Nxoaa[.]com

SHA1:

7c77b1c72a2228936e4989de2dfab95bfbbbc737 b6793fc62b27ee3cce24e9e63e3108a777f71904 9496494756ab4276cf4e4aeb4988e781f0db031a e7917df9feabfedae47d8b905136d52cb5cb7f37 5ab518686fcd3879dd8c02d74b97caa333ea51ab f71f0289d99aa1334e7e74b68320cbabbd37fbc1 8fbc7565af01b4a53c72fede3678f4aeba40c5f4 4a434c738e402242ecca92182312f04ce336ff86 71daf7af9480743f9e20254946521d6b648b0fe8 ba9a811915c3134bfde4414b051a8e6d7949080c 0eccc0aa674fd9fc27023c70067e630fd5d21cd6 88750f0e1f488656ef0aeb3c40a5785d6c72eb3f e68dc7a106dab7186fc3ff3f7c70ab280b89d17d cd8ef5a2543a2535416655f861c574c63e9008ea 3bbb84206f0c81f7fd57148f913db448a8172e92 9b9374a5e376492184a368fcc6723a7012132eae 59b03cfb7f2d672f66eb6d027244cb1d9f39f30a bddb6994656659d098d6040dc895e90877fb1266 6e11c3e119499f11b83787cc4bb5f2751bd90219 ac672a07c62d48c0a7f98554038913770efaef11 fdc6bf0a4154d79115ddfac02134580ac4685222 88e5bf24bd0f01778217c4fcdb37b76929c2d32b 09650cb7a5ed0f43cf67985d03182ca608591a7c 1e3497ac435936be06ba665a4acd06b850cf56b4 76152dc6243ae29d8315f24f6e9449d620f672cd 2ecbb11218f3a24a6c1f33ea7027ab714fad2c3f 572acb2baea77c5ba8e9fe668fd81a817e695d73 b19d5f0d8696271aff5af616b91a4cdc73981934 50df153f513b3be09e474b23553b3610625fbb41 ca00849b308d48daaea7d86e0d7c7af580a2e856 9e96114159d458597ed2fdc8603a97c9cd2c1e90 27a6e76209de03e55136dd72533f3c81d3e715e4 c4f8d6354ef3ee4e437aa7312df0121446d3a71f 6c216522d2a1211399fb08567fcdec1d341340e3 f24c3237a1612888c8b5526e557a963f3b73e984 db370ee79d9b4bd44e07f425d7b06beffc8bdded 37f54f121bcae65b4b3dd680694a11c5a5dfc406 f9b6fff55fef34fc49432c8338eb3e9c0c44286e 981319f00b654d0142430082f2e636ef69a377d9 d599f16e60a916f38f201f1a4e6d73cb92822502 2e113050a81bbd0774db7e86fad4abd44e5b6ec2 24f71409bde9d01e3519236e66f3452236302e46 3bb75935fc79205dffccb6102a19f0b96300ab70 4c2a0f44b176ba83347062df1d56919a25445568 034c0d73b21cf17c25c086d19a6ef3bb8a06bab7 bd5116865bcf066758f817ba9385cc7d001ecad9 fa8a373e837d7be2fce0bfe073a6fdeaefc56ca1 5096ca0de8b6ca27dcdcf5790a2cb99566f03e04 647ebdca2ef6b74b17bb126df19bf0ed88341650

d92e315f3c290a7e71950480f074af5b59e8bd3d 1f731bef9777cd4531de39b98a881d83506bb5d9 8a93bfd9e70611547a420971662d113b6b3c6234 c96fc59fbe8495dbb50e5ba73b53496614ef8a8a d2d475d2df5b0ec1e97ea45e499f55e45d2aac17 13ca079770f6f9bdddfea5f9d829889dc1fbc4ed 965e4bae8d753efc695c3b1705f43ea7333a1688 b589574d1ca3438929b8051329552d8e62a7a128 d3ff54b679922ff9296bfb1b4c379d361f44afd9 e0770b79e372f2cab86ae2ec33b5160708059eee c99c982d1515ade3da81268e79f5e5f7d550aabd ba6f3e474174bcb97c365b4d6365c71ca294aa16 1d543a67ea0fcbc5cdc3d698af0d285356d2001b c4740eec9528e1a205326c8a7b7e8d44c8a5b6b1 052825569c880212e1e39898d387ef50238aaf35 d6594fda649e3e4f15ea35e8ed29ac5c8c14760a e5828387cd6f596932d6caebfd76de1df5ba9ee2 ac618c4ece55eca2b067bedd2ce963b8ada30b40 98ab3ae46358a66c480810d1e4f24ef730e4dc7e cdcccb2a011cd22f49d7a96ffb06df3fe334f960 4fabb94902244f60fd2359c61c1c79434095a2ba 69e4efc8000a473d2b2c0067f317b22664453205 424f7a756f72f1da9012859bf86ad7651bafa937 cdf858add61db5c44503f78cda67915ddb0f77d6 1125b2c3c91491aa71e0536bb9a8a1b86ff8f641 d8d875f31c4d7c40cfd6483d6b250943d4f5e437 88c76d31b046227d82f94db87697b25e482eb398 d2a697fc1b61888c49a48ce094e400b62a71201d 90fa56e79765d27d35706d028d32dc5be7efb623 b5e3e65cd6b09b17d4819a1379dde7db3e33813b d51214461fc694a218a01591c72fe89af0353bc1 988f07a4094a4a93b76a165ea9f7e251bbbf340f c4ebbfcb3dc47a1260a0af9b3eb9b125f48d22cc f5c769d2a27877e56cc0c540490b26c7c0ff25dd fa62e7df0cc1ece81ba2228cc22be01214cab2ab 6c64e1f2ba11ecff5e899f880d14da42acf3f699 f831bb0148a8f9d34f914d9560be062c821a7d83 10bc94cdefb8ed8d305d087ca868b8fe963c69d4 95cf3c261178388c850a777ffe981bbeb287afcb aa124ef17e870e6cd291cb371cde52ca4ffc94d2 f7ab3996edf81551fdd867fdd28a616491445c38 00d6c66ab2fd1810628d13980cc73275884933b1 86bd95db7b514ea0185dba7876fa612fae42b715 e53c3b7726cb36b3e898d48ad0f25dbd032e8a8b f7cf30c68989c4a3852397f59fda5d8d1f67f396

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Alert ID ea81a81a

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Tags HermeticWiper, WhisperGate, Russian APT, CISA Advisory, CISA Alert, FBI Alert, FBI-LIR, CISA, Russia, FBI, Ukraine, Russian

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