



America's Cyber Defense Agency

NATIONAL COORDINATOR FOR CRITICAL INFRASTRUCTURE SECURITY AND RESILIENCE

CYBERSECURITY ADVISORY

#StopRansomware: ALPHV Blackcat

Last Revised: February 27, 2024

Alert Code: AA23-353A

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ACTIONS TO TAKE TODAY TO MITIGATE AGAINST THE THREAT OF RANSOMWARE:

- 1.** Routinely take inventory of assets and data to identify authorized and unauthorized devices and software.
- 2.** Prioritize remediation of known exploited vulnerabilities.
- 3.** Enable and enforce multifactor authentication with strong passwords.
- 4.** Close unused ports and remove applications not deemed necessary for day-to-day operations.

SUMMARY

Note: This joint Cybersecurity Advisory (CSA) is part of an ongoing #StopRansomware effort to publish advisories for network defenders that detail various ransomware variants and ransomware threat actors. These #StopRansomware advisories include recently and historically observed tactics, techniques, and procedures (TTPs) and indicators of compromise (IOCs) to help organizations protect against ransomware. Visit [stopransomware.gov](https://www.cisa.gov/stopransomware) <<https://www.cisa.gov/stopransomware>> to see all #StopRansomware advisories and to learn more about other ransomware threats and no-cost resources.

The Federal Bureau of Investigation (FBI), the Cybersecurity and Infrastructure Security Agency (CISA), and the Department of Health and Human Services (HHS) are releasing this joint CSA to disseminate known IOCs and TTPs associated with the ALPHV Blackcat ransomware as a service (RaaS) identified through FBI investigations as recently as February 2024.

This advisory provides updates to the FBI FLASH BlackCat/ALPHV Ransomware Indicators of Compromise released April 19, 2022, and to this advisory released December 19, 2023. ALPHV Blackcat actors have since employed improvised communication methods by creating victim-specific emails to notify of the initial compromise. Since mid-December 2023, of the nearly 70 leaked victims, the healthcare sector has been the most commonly victimized. This is likely in response to the ALPHV Blackcat administrator's post encouraging its affiliates to target hospitals after operational action against the group and its infrastructure in early December 2023.

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FBI, CISA, and HHS encourage critical infrastructure organizations to implement the recommendations in the Mitigations section of this CSA to reduce the likelihood and impact of ALPHV Blackcat ransomware and data extortion incidents.

In February 2023, ALPHV Blackcat administrators announced the ALPHV Blackcat Ransomware 2.0 Sphynx update, which was rewritten to provide additional features to affiliates, such as better defense evasion and additional tooling. This ALPHV Blackcat

update has the capability to encrypt both Windows and Linux devices, and VMWare instances. ALPHV Blackcat affiliates have extensive networks and experience with ransomware and data extortion operations.

Download the PDF version of this report:

 AA23-353A #StopRansomware: ALPHV Blackcat (Update)

</sites/default/files/2024-03/aa23-353a-stopransomware-alphv-blackcat-update_2.pdf>
(PDF, 578.24 KB)

For a downloadable copy of IOCs, see:

 AA23-353A STIX XML </sites/default/files/2024-02/aa23-353a.stix_.xml>

(XML, 46.14 KB)

 AA23-353A STIX JSON </sites/default/files/2024-02/aa23-353a-stopransomware-alphv-

blackcat.stix_.json>

(JSON, 32.93 KB)

TECHNICAL DETAILS

Note: This advisory uses the MITRE ATT&CK® for Enterprise <<https://attack.mitre.org/versions/v14/matrices/enterprise/>> framework, version 14. See the MITRE ATT&CK Tactics and Techniques section for a table of the threat actors' activity mapped to MITRE ATT&CK tactics and techniques. For assistance with mapping malicious cyber activity to the MITRE ATT&CK framework, see CISA and MITRE ATT&CK's [Best Practices for MITRE ATT&CK Mapping](#) <<https://www.cisa.gov/news-events/news/best-practices-mitre-attckr-mapping>> and CISA's [Decider Tool](#) <<https://github.com/cisagov/decider/>>.

ALPHV Blackcat affiliates use advanced social engineering techniques and open source research on a company to gain initial access. Actors pose as company IT and/or helpdesk staff and use phone calls or SMS messages [T1598]

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<<https://attack.mitre.org/versions/v14/techniques/t1598/>>] to obtain credentials from employees to access the target network [T1586 <<https://attack.mitre.org/versions/v14/techniques/t1586/>>]. ALPHV Blackcat affiliates use uniform resource locators (URLs) to live-chat with victims to convey demands and initiate processes to restore the victims' encrypted files.

After gaining access to a victim network, ALPHV Blackcat affiliates deploy remote access software such as AnyDesk, Mega sync, and Splashtop in preparation of data exfiltration.

ALPHV Blackcat affiliates create a user account, "aadmin," and use Kerberos token generation for domain access [T1558 <<https://attack.mitre.org/versions/v14/techniques/t1558/>>].

After gaining access to networks, they use legitimate remote access and tunneling tools, such as Plink and Ngrok [S0508 <<https://attack.mitre.org/versions/v14/software/s0508/>>]. ALPHV Blackcat affiliates claim to use Brute Ratel C4 [S1063

<<https://attack.mitre.org/versions/v14/software/s1063/>>] and Cobalt Strike [S1054

<<https://attack.mitre.org/versions/v14/software/s0154/>>] as beacons to command and control servers. ALPHV Blackcat affiliates use the open source adversary-in-the-middle attack [T1557 <<https://attack.mitre.org/versions/v14/techniques/t1557/>>] framework Evilginx2, which allows them to obtain multifactor authentication (MFA) credentials, login credentials, and session cookies. The actors also obtain passwords from the domain controller, local network, and deleted backup servers to move laterally throughout the network [T1555

<<https://attack.mitre.org/versions/v14/techniques/t1555/>>].

To evade detection, affiliates employ allowlisted applications such as Metasploit. Once installed on the domain controller, the logs are cleared on the exchange server. Then Mega.nz or Dropbox are used to move, exfiltrate, and/or download victim data. The ransomware is then deployed, and the ransom note is embedded as a file.txt. According to public reporting, affiliates have additionally used POORTRY and STONESTOP to terminate security processes.

Some ALPHV Blackcat affiliates exfiltrate data after gaining access and extort victims without deploying ransomware. After exfiltrating and/or encrypting data, ALPHV Blackcat affiliates communicate with victims via TOR [S0183

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<<https://attack.mitre.org/versions/v14/software/s0183/>>], Tox, email, or encrypted applications. The threat actors then delete victim data from the victim's system.

ALPHV Blackcat affiliates offer to provide unsolicited cyber remediation advice as an incentive for payment, offering to provide victims with “vulnerability reports” and “security recommendations” detailing how they penetrated the system and how to prevent future re-victimization upon receipt of ransom payment. The ALPHV Blackcat encryptor results in a file with the following naming convention: RECOVER-(seven-digit extension) FILES.txt.

“In order to recover your files you need to follow instructions below”

Sensitive Data

Sensitive data on your network was DOWNLOADED.

If you DON'T WANT your sensitive data to be PUBLISHED you have to act quickly.

Data includes:

- Complete network map including credentials for local and remote services.
- Private financial information including: clients data, bills, budgets, annual reports, bank statements.
- And more...

Samples are available on your User Panel.

CAUTION

DO NOT MODIFY ENCRYPTED FILES YOURSELF.

DO NOT USE THIRD PARTY SOFTWARE TO RESTORE YOUR DATA.

YOU MAY DAMAGE YOUR FILES, IT WILL RESULT IN PERMANENT DATA LOSS.

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What should I do next?

- 1) Download and install Tor Browser from: <https://torproject.org/>
- 2) Navigate to User Panel: (Includes victim specific onion and access key for communication)

Figure 1: Ransom Note Instruction

INDICATORS OF COMPROMISE (IOCs)

Table 1: MD5 Hashes

MD5	Description	File Name
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MD5	Description	File Name
944153fb9692634d6 c70899b83676575	ALPHV Windows Encryptor	
341d43d4d5c2e526c add88ae8da70c1c	Anti Virus Tools Killer	363.sys
34aac5719824e5f13 b80d6fe23cbfa07	CobaltStrike BEACON	LMtool.exe
eea9ab1f36394769d 65909f6ae81834b	CobaltStrike BEACON	Info.exe
379bf8c60b091974f 856f08475a03b04	ALPHV Linux Encryptor	him
ebca4398e949286cb 7f7f6c68c28e838	SimpleHelp Remote Management tool	first.exe
c04c386b945ccc046 27d1a885b500edf	Tunneler Tool	conhost.exe
824d0e31fd08220a2 5c06baee1044818	Anti Virus Tools Killer	ibmModule.dll
eea9ab1f36394769d 65909f6ae81834b	CobaltStrike BEACON	ConnectivityDiagnos. exe
944153fb9692634d6 c70899b83676575	ALPHV Windows Encryptor	703cCX9YchMV2.ex e
61804a029e9b1753d 58a6bf0274c25a6	MeshCentral Agent	WPEHOSTSVC64.exe

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MD5	Description	File Name
83deea3b61b6a734e 7e4a566dbb6bffa	ScreenConnect & attacker tools installer	deployService.exe
8738b8637a20fa65c 6e64d84d1cfe570	Suspected Proxy Tool	socks32.exe

Table 2: SHA256 Hashes

SHA256	Description
c64300cf8bacc4e42e74715edf3f8c 3287a780c9c0a38b0d9675d01e7e2 31f16	ALPHV Windows Encryptor
1f5e4e2c78451623cfbf32cf517a922 53b7abfe0243297c5ddf7dd1448e4 60d5	Anti Virus Tools Killer
3670dd4663adca40f168f3450fa9e7 e84bc1a612d78830004020b73bd40 fcd71	CobaltStrike BEACON
af28b78c64a9effe3de0e5ccc77852 7428953837948d913d64dbd0fa45 942021	CobaltStrike BEACON
bbfe7289de6ab1f374d0bcbeecf31ca d2333b0928ea883ca13b9e733b58e 27b1	ALPHV Linux Encryptor
5d1df950b238825a36fa6204d1a29 35a5fbfce2a5991a7fc69c74f476df6 7905	SimpleHelp Remote Management tool

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SHA256	Description
bd9edc3bf3d45e3cdf5236e8f8cd5 7a95ca3b41f61e4cd5c6c0404a8351 9058e	Tunneler Tool
732e24cb5d7ab558effc6dc88854f 756016352c923ff5155dcb2eece35c 19bc0	Anti Virus Tools Killer

Table 3: SHA1 Hashes

SHA1	Description
3dd0f674526f30729bcfd4271e6b7 eb0bb890c52	ALPHV Windows Encryptor
d6d442e8b3b0acf856ac86391e4a5 7bcb93c19ad	Anti Virus Tools Killer
6b52543e4097f7c39cc913d55c004 4fcf673f6fc	CobaltStrike BEACON
004ba0454feb2c4033ff0bdb2ff673 88af0c41b6	CobaltStrike BEACON
430bd437162d4c60227288fa6a82c de8a5f87100	SimpleHelp Remote Management tool
1376ac8b5a126bb163423948bd1c7f 861b4bfe32	Tunneler Tool
380f941f8047904607210add4c6da 2da8f8cd398	Anti Virus Tools Killer

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Table 4: Network Indicators

Indicator Type	Network Indicator	Description
Domain	resources.docusong[.]com	Command and Control Server
Domain	Fisa99.screenconnect[.]com	ScreenConnect Remote Access
IP Address	5.199.168.24	Command and Control Server
IP Address	91.92.254.193	SimpleHelp Remote Access
Domain	pcrendal[.]com	Command and Control Server
Domain	instance-qqemas-relay[.]screenconnect[.]com	ScreenConnect Remote Access
Domain	instance-rbjvws-relay.screenconnect[.]com	ScreenConnect Remote Access
IP Address	5.199.168[.]233	IP Address used by Threat Actor
IP Address	92.223.89[.]155	IP Address used by Threat Actor
IP Address	185.195.59[.]218	IP Address used by Threat Actor

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Indicator Type	Network Indicator	Description
IP Address	51.159.103[.]112	IP Address used by Threat Actor
IP Address	45.32.141[.]168	Command and Control Server
IP Address	45.77.0[.]92	Command and Control Server

MITRE ATT&CK TACTICS AND TECHNIQUES

See Table 5 through Table 7 for all referenced threat actor tactics and techniques in this advisory.

Table 5: ALPHV Blackcat/ALPHV Threat Actors ATT&CK Techniques - Reconnaissance

Technique Title	ID	Use
Phishing for Information	T1598 https://attack.mitre.org/versions/v14/techniques/t1598/	ALPHV Blackcat affiliates pose as company IT and/or helpdesk staff using phone calls or SMS messages to obtain credentials from employees to access the target network.

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Table 6: ALPHV Blackcat/ALPHV Threat Actors ATT&CK Techniques – Resource Development

Technique Title	ID	Use
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Technique Title	ID	Use
Compromise Accounts	T1586 https://attack.mitre.org/versions/v14/techniques/t1586/	ALPHV Blackcat affiliates use compromised accounts to gain access to victims' networks.

Table 7: ALPHV Blackcat/ALPHV Threat Actors ATT&CK Techniques – Credential Access

Technique Title	ID	Use
Obtain Credentials from Passwords Stores	T1555 https://attack.mitre.org/versions/v14/techniques/t1555/	ALPHV Blackcat affiliates obtain passwords from local networks, deleted servers, and domain controllers.
Steal or Force Kerberos Tickets	T1558 https://attack.mitre.org/versions/v14/techniques/t1558/	ALPHV Blackcat/ALPHV affiliates use Kerberos token generation for domain access.
Adversary-in-the-Middle	T1557 https://attack.mitre.org/versions/v14/techniques/t1557/	ALPHV Blackcat/ALPHV affiliates use the open-source framework Evilginx2 to obtain MFA credentials, login credentials, and session cookies for targeted networks.

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INCIDENT RESPONSE

If compromise is detected, organizations should:

- 1.** Quarantine or take offline potentially affected hosts.
- 2.** Reimage compromised hosts.
- 3.** Provision new account credentials.
- 4.** Collect and review artifacts such as running processes/services, unusual authentications, and recent network connections.
- 5.** Report the compromise or phishing incident to CISA via CISA's 24/7 Operations Center (report@cisa.gov or 1-844-Say-CISA). State, local, tribal, or territorial government entities can also report to MS-ISAC (SOC@cisecurity.org or 866-787-4722).
- 6.** To report spoofing or phishing attempts (or to report that you've been a victim), file a complaint with the FBI's [Internet Crime Complaint Center \(IC3 <https://www.ic3.gov/>\)](https://www.ic3.gov/), or contact your local [FBI Field Office <https://www.fbi.gov/contact-us/field-offices>](https://www.fbi.gov/contact-us/field-offices) to report an incident.

MITIGATIONS

These mitigations apply to all critical infrastructure organizations and network defenders. FBI, CISA, and HHS recommend that software manufacturers incorporate secure by design principles and tactics into their software development practices limiting the impact of ransomware techniques, thus, strengthening the security posture for their customers.

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For more information on secure by design, see CISA's [Secure by Design](https://www.cisa.gov/securebydesign) webpage and [joint guide](https://www.cisa.gov/resources-tools/resources/secure-by-design-and-default) <<https://www.cisa.gov/resources-tools/resources/secure-by-design-and-default>>.

FBI, CISA, and HHS recommend organizations implement the mitigations below to improve your organization's cybersecurity posture based on threat actor activity and to reduce the risk of compromise by ALPHV Blackcat threat actors. These mitigations align with the Cross-Sector Cybersecurity Performance Goals (CPGs) developed by CISA and the National Institute of Standards and Technology (NIST). The CPGs provide a minimum set of practices and protections that CISA and NIST recommend all organizations implement. CISA and NIST

based the CPGs on existing cybersecurity frameworks and guidance to protect against the most common and impactful threats, tactics, techniques, and procedures. Visit CISA's [Cross-Sector Cybersecurity Performance Goals](https://www.cisa.gov/cross-sector-cybersecurity-performance-goals) <<https://www.cisa.gov/cross-sector-cybersecurity-performance-goals>> for more information on the CPGs, including additional recommended baseline protections. Due to the threat ALPHV Blackcat's poses in the healthcare sector, healthcare organizations can look to the [Healthcare and Public Health \(HPH\) Sector Cybersecurity Performance Goals](https://hphcyber.hhs.gov/performance-goals.html) <<https://hphcyber.hhs.gov/performance-goals.html>> to implement cybersecurity protections against the most common threats, tactics, techniques, and procedures used against this sector.

- Secure remote access tools by:
 - **Implementing application controls** to manage and control execution of software, including allowlisting remote access programs. Application controls should prevent installation and execution of portable versions of unauthorized remote access and other software. A properly configured application allowlisting solution will block any unlisted application execution. Allowlisting is important because antivirus solutions may fail to detect the execution of malicious portable executables when the files use any combination of compression, encryption, or obfuscation.
 - Applying recommendations in CISA's joint [Guide to Securing Remote Access Software](#) </sites/default/files/2023-06/guide%20to%20securing%20remote%20access%20software_clean%20final_508c.pdf>.
- **Implementing FIDO/WebAuthn authentication or Public key Infrastructure (PKI)-based MFA** [[CPG 2.H](https://www.cisa.gov/resources-tools/resources/cpg-report) <<https://www.cisa.gov/resources-tools/resources/cpg-report>>][[HPH CPG – Multifactor Authentication](https://hphcyber.hhs.gov/performance-goals.html) <<https://hphcyber.hhs.gov/performance-goals.html>>]. These MFA implementations are resistant to phishing and not susceptible to push bombing or SIM swap attacks, which are techniques known be used by ALPHV Blackcat affiliates. See CISA's Fact Sheet [Implementing Phishing-Resistant MFA](https://www.cisa.gov/sites/default/files/publications/fact-sheet-implementing-phishing-resistant-mfa-508c.pdf) <<https://www.cisa.gov/sites/default/files/publications/fact-sheet-implementing-phishing-resistant-mfa-508c.pdf>> for more information.

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- **Identify, detect, and investigate abnormal activity and potential traversal of the indicated ransomware with a networking monitoring tool.** To aid in detecting ransomware, implement a tool that logs and reports all network traffic [CPG 5.1 <<https://www.cisa.gov/resources-tools/resources/cpg-report>>][[HPH CPG – Detect and Respond to Relevant Threats and Tactics, Techniques and Procedures](#) <<https://hphcyber.hhs.gov/performance-goals.html>>], including lateral movement activity on a network. Endpoint detection and response (EDR) tools are useful for detecting lateral connections as they have insight into common and uncommon network connections for each host.
- **Implement user training on social engineering and phishing attacks** [CPG 2.1 <<https://www.cisa.gov/resources-tools/resources/cpg-report>>][[HPH CPG – Basic Cybersecurity Training](#) <<https://hphcyber.hhs.gov/performance-goals.html>>]. Regularly educate users on identifying suspicious emails and links, not interacting with those suspicious items, and the importance of reporting instances of opening suspicious emails, links, attachments, or other potential lures.
- **Implement internal mail and messaging monitoring.** Monitoring internal mail and messaging traffic to identify suspicious activity is essential as users may be phished from outside the targeted network or without the knowledge of the organizational security team. Establish a baseline of normal network traffic and scrutinize any deviations.
- **Implement free security tools** to prevent cyber threat actors from redirecting users to malicious websites to steal their credentials. For more information see, CISA's [Free Cybersecurity Services and Tools](#) <<https://www.cisa.gov/resources-tools/resources/free-cybersecurity-services-and-tools>> webpage.
- **Install and maintain antivirus software.** Antivirus software recognizes malware and protects your computer against it. Installing antivirus software from a reputable vendor is an important step in preventing and detecting infections. Always visit vendor sites directly rather than clicking on advertisements or email links. Because attackers are continually creating new viruses and other forms of malicious code, it is important to keep your antivirus software up to date.

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VALIDATE SECURITY CONTROLS

In addition to applying mitigations, CISA recommends exercising, testing, and validating your organization's security program against the threat behaviors mapped to the MITRE ATT&CK for Enterprise framework in this advisory. CISA recommends testing your existing security controls inventory to assess how they perform against the ATT&CK techniques described in this advisory.

To get started:

- 1.** Select an ATT&CK technique described in this advisory (see Tables 1-3).
- 2.** Align your security technologies against the technique.
- 3.** Test your technologies against the technique.
- 4.** Analyze your detection and prevention technologies' performance.
- 5.** Repeat the process for all security technologies to obtain a set of comprehensive performance data.
- 6.** Tune your security program, including people, processes, and technologies, based on the data generated by this process.

CISA and FBI recommend continually testing your security program, at scale, in a production environment to ensure optimal performance against the MITRE ATT&CK techniques identified in this advisory.

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RESOURCES

- [Stopransomware.gov](https://www.cisa.gov/stopransomware) <<https://www.cisa.gov/stopransomware>> is a whole-of-government approach that gives one central location for ransomware resources and alerts.
- Resource to reduce the risk of a ransomware attack: [#StopRansomware Guide](https://www.cisa.gov/resources-tools/resources/stopransomware-guide) <<https://www.cisa.gov/resources-tools/resources/stopransomware-guide>>.
- No-cost cyber hygiene services: [Cyber Hygiene Services](https://www.cisa.gov/cyber-hygiene-services) <<https://www.cisa.gov/cyber-hygiene-services>> and [Ransomware Readiness Assessment](https://github.com/cisagov/cset/releases/tag/v10.3.0.0) <<https://github.com/cisagov/cset/releases/tag/v10.3.0.0>>.

- Health and Human Services [HPH Cybersecurity Gateway](https://hphcyber.hhs.gov) <<https://hphcyber.hhs.gov>> hosts the HPH CPGs and links to HHS cybersecurity resources.

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VERSION HISTORY

December 19, 2023: Initial version.

February 27, 2024: Update.

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Tags

Co-Sealers and Partners: Federal Bureau of Investigation, Federal Civilian Executive Branch Agencies

MITRE ATT&CK TTP: Credential Access (TA0006), Phishing for Information (T1598), Reconnaissance (TA0043), Resource Development (TA0042)

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