



## America's Cyber Defense Agency

NATIONAL COORDINATOR FOR CRITICAL INFRASTRUCTURE SECURITY AND RESILIENCE

### CYBERSECURITY ADVISORY

# #StopRansomware: CL0P Ransomware Gang Exploits CVE-2023-34362 MOVEit Vulnerability

**Release Date:** June 07, 2023

**Alert Code:** AA23-158A

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#### ACTIONS TO TAKE TODAY TO MITIGATE CYBER THREATS FROM CL0P RANSOMWARE:

1. Take an inventory of assets and data, identifying authorized and unauthorized devices and software.
2. Grant admin privileges and access only when necessary, establishing a software allow list that only executes legitimate applications.
3. Monitor network ports, protocols, and services, activating security configurations on network infrastructure devices such as firewalls and routers
4. Regularly patch and update software and applications to their latest versions, and conduct regular vulnerability assessments.

**Updated June 16, 2023**

This CSA is being re-released to remove old Fortra GoAnywhere Campaign IP addresses and to add new IP addresses. See the update below.

**End of Update**

## 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://stopransomware.gov) to see all #StopRansomware advisories and to learn more about other ransomware threats and no-cost resources.


The Federal Bureau of Investigation (FBI) and the Cybersecurity and Infrastructure Security Agency (CISA) are releasing this joint CSA to disseminate known CL0P ransomware IOCs and TTPs identified through FBI investigations as recently as June 2023.

According to open source information, beginning on May 27, 2023, CL0P Ransomware Gang, also known as TA505, began exploiting a previously unknown SQL injection vulnerability (CVE-2023-34362 <<https://nvd.nist.gov/vuln/detail/cve-2023-34362>>) in Progress Software's managed file transfer (MFT) solution known as MOVEit Transfer. Internet-facing MOVEit Transfer web applications were infected with a web shell named LEMURLOOT, which was then used to steal data from underlying MOVEit Transfer databases. In similar spates of activity, TA505 conducted zero-day-exploit-driven campaigns against Accellion File Transfer Appliance (FTA) devices in 2020 and 2021, and Fortra/Linoma GoAnywhere MFT servers in early 2023.

FBI and CISA encourage organizations to implement the recommendations in the Mitigations section of this CSA to reduce the likelihood and impact of CL0P ransomware and other ransomware incidents.

Download the PDF version, STIX and JSON file for this report:

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 **AA23-158A PDF** <[/sites/default/files/2023-07/aa23-158a-stopransomware-cl0p-ransomware-gang-exploits-moveit-vulnerability\\_8.pdf](/sites/default/files/2023-07/aa23-158a-stopransomware-cl0p-ransomware-gang-exploits-moveit-vulnerability_8.pdf)>  
(PDF, 740.97 KB)

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 **AA23-158A STIX XML** <[/sites/default/files/2023-06/16109762.stix\\_.xml](/sites/default/files/2023-06/16109762.stix_.xml)>  
(XML, 165.28 KB)

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 **AA23-158A JSON** <[/sites/default/files/2023-06/aa23-158a%20stopransomware%20cl0p%20ransomware%20gang%20exploits%20cve-2023-34362%20moveit%20vulnerability.stix\\_.json](/sites/default/files/2023-06/aa23-158a%20stopransomware%20cl0p%20ransomware%20gang%20exploits%20cve-2023-34362%20moveit%20vulnerability.stix_.json)>  
(JSON, 93.33 KB)

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## TECHNICAL DETAILS

**Note:** This advisory uses the MITRE ATT&CK® for Enterprise framework, version 13. See [MITRE ATT&CK for Enterprise](https://attack.mitre.org/versions/v12/matrices/enterprise/) <<https://attack.mitre.org/versions/v12/matrices/enterprise/>> for all referenced tactics and techniques.

Appearing in February 2019, and evolving from the CryptoMix ransomware variant, CL0P was leveraged as a Ransomware as a Service (RaaS) in large-scale spear-phishing campaigns that used a verified and digitally signed binary to bypass system defenses. CL0P was previously known for its use of the ‘double extortion’ tactic of stealing and encrypting victim data, refusing to restore victim access and publishing exfiltrated data on Tor via the CL0P^\_-LEAKS website. In 2019, TA505 actors leveraged CL0P ransomware as the final payload of a phishing campaign involving a macro-enabled document that used a Get2 malware dropper for downloading SDBot and FlawedGrace. In recent campaigns beginning 2021, CL0P preferred to rely mostly on data exfiltration over encryption.

Beyond CL0P ransomware, TA505 is known for frequently changing malware and driving global trends in criminal malware distribution. Considered to be one of the largest phishing and malspam distributors worldwide, TA505 is estimated to have compromised more than 3,000 U.S.-based organizations and 8,000 global organizations.

TA505 has operated:

- A RaaS and has acted as an affiliate of other RaaS operations,

- As an initial access broker (IAB), selling access to compromised corporate networks,
- As a customer of other IABs,
- And as a large botnet operator specializing in financial fraud and phishing attacks.

In a campaign from 2020 to 2021, TA505 used several zero-day exploits to install a web shell named DEWMODE on internet-facing Accellion FTA servers. Similarly, the recent exploitation of MOVEit Transfer, a SQL injection vulnerability was used to install the web shell, which enabled TA505 to execute operating system commands on the infected server and steal data.

In late January 2023, the CL0P ransomware group launched a campaign using a zero-day vulnerability, now catalogued as [CVE-2023-0669](https://nvd.nist.gov/vuln/detail/cve-2023-0669) [\[https://nvd.nist.gov/vuln/detail/cve-2023-0669\]](https://nvd.nist.gov/vuln/detail/cve-2023-0669), to target the GoAnywhere MFT platform. The group claimed to have exfiltrated data from the GoAnywhere MFT platform that impacted approximately 130 victims over the course of 10 days. Lateral movement into the victim networks from the GoAnywhere MFT was not identified, suggesting the breach was limited to the GoAnywhere platform itself. Over the next several weeks, as the exfiltrated data was parsed by the group, ransom notes were sent to upper-level executives of the victim companies, likely identified through open source research. The ransom notes threatened to publish the stolen files on the CL0P data leak site if victims did not pay the ransom amount.

**Figure 1: CL0P Ransom Note**

*Hello, this is the CL0P hacker group. As you may know, we recently carried out a hack, which was reported in the news on site [redacted].*

*We want to inform you that we have stolen important information from your GoAnywhere MFT resource and have attached a full list of files as evidence.*

*We deliberately did not disclose your organization and wanted to negotiate with you and your leadership first. If you ignore us, we will sell your information on the black market and publish it on our blog, which receives 30-50 thousand unique visitors per day. You can read about us on [redacted] by searching for CL0P hacker group.*

*You can contact us using the following contact information:x*

*unlock@rsv-box[.]com*

*and*

*unlock@support-mult[.]com*

CL0P's toolkit contains several malware types to collect information, including the following:

- **FlawedAmmyy** [\[https://attack.mitre.org/versions/v13/software/s0381/\]](https://attack.mitre.org/versions/v13/software/s0381/) / **FlawedGrace** [\[https://attack.mitre.org/software/s0383/\]](https://attack.mitre.org/software/s0383/) remote access trojan (RAT) collects information and attempts to communicate with the Command and Control (C2) server to enable the download of additional malware components [\[T1071 https://attack.mitre.org/versions/v13/techniques/t1071/\]](https://attack.mitre.org/versions/v13/techniques/t1071/), [\[T1105 https://attack.mitre.org/versions/v13/techniques/t1105/\]](https://attack.mitre.org/versions/v13/techniques/t1105/).
- **SDBot** [\[https://attack.mitre.org/versions/v13/software/s0461/\]](https://attack.mitre.org/versions/v13/software/s0461/) RAT propagates the infection, exploiting vulnerabilities and dropping copies of itself in removable drives and network shares [\[T1105 https://attack.mitre.org/versions/v13/techniques/t1105/\]](https://attack.mitre.org/versions/v13/techniques/t1105/). It is also capable of propagating when shared through peer-to-peer (P2P) networks. SDBot is used as a backdoor [\[T1059.001 https://attack.mitre.org/versions/v13/techniques/t1059/001/\]](https://attack.mitre.org/versions/v13/techniques/t1059/001/) to enable other commands and functions to be executed in the compromised computer. This malware uses application shimming for persistence and to avoid detection [\[T1546.011 https://attack.mitre.org/versions/v13/techniques/t1546/011/\]](https://attack.mitre.org/versions/v13/techniques/t1546/011/).

- **Truebot** is a first-stage downloader module that can collect system information and take screenshots [T1113 <<https://attack.mitre.org/versions/v13/techniques/t1113/>>], developed and attributed to the Silence <<https://attack.mitre.org/groups/g0091/>> hacking group. After connecting to the C2 infrastructure, Truebot can be instructed to load shell code [T1055 <<https://attack.mitre.org/versions/v13/techniques/t1055/>>] or DLLs [T1574.002 <<https://attack.mitre.org/versions/v13/techniques/t1574/002/>>], download additional modules [T1129 <<https://attack.mitre.org/versions/v13/techniques/t1129/>>], run them, or delete itself [T1070 <<https://attack.mitre.org/versions/v13/techniques/t1070/>>]. In the case of TA505, Truebot has been used to download FlawedGrace or Cobalt Strike beacons.
- **Cobalt Strike** <<https://attack.mitre.org/versions/v13/software/s0154/>> is used to expand network access after gaining access to the Active Directory (AD) server [T1018 <<https://attack.mitre.org/versions/v13/techniques/t1018/>>].
- **DEWMODE** is a web shell written in PHP designed to target Accellion FTA devices and interact with the underlying MySQL database and is used to steal data from the compromised device [1505.003 <<https://attack.mitre.org/versions/v13/techniques/t1505/003/>>].
- **LEMURLOOT** is a web shell written in C# designed to target the MOVEit Transfer platform. The web shell authenticates incoming http requests via a hard-coded password and can run commands that will download files from the MOVEit Transfer system, extract its Azure system settings, retrieve detailed record information, create, insert, or delete a particular user. When responding to the request, the web shell returns data in a gzip compressed format.

## CVE-2023-34362 MOVEIT TRANSFER VULNERABILITY

MOVEit is typically used to manage an organization's file transfer operations and has a web application that supports MySQL, Microsoft SQL Server, and Azure SQL database engines. In May 2023, the CL0P ransomware group exploited a SQL injection zero-day vulnerability CVE-2023-34362 <<https://nvd.nist.gov/vuln/detail/cve-2023-34362>> to install a web shell named LEMURLOOT on MOVEit Transfer web applications [T1190 <<https://attack.mitre.org/versions/v13/techniques/t1190/>>] [1 <<https://www.mandiant.com/resources/blog/zero-day-moveit-data-theft>>]. Lemurloot was used as a method of persistence, information gathering and data stealing in CVE-2023-34362. The webshell imports multiple libraries including "MOVEit.DMZ.ClassLib," "MOVEit.DMZ.Application.Files," and "MOVEit.DMZ.Application.Users" to interact with MOVEit managed file transfer software. The web shell was initially observed with the name **human2.aspx** in an effort to masquerade as the legitimate **human.aspx** file present as part of MOVEit Transfer software. Upon installation, the web shell creates a random 36 character password to be used for authentication. The web shell interacts with its operators by awaiting HTTP requests containing a header field named X-siLock-Comment, which must have a value assigned equal to the password established upon the installation of the web shell. After authenticating with the web shell, operators pass commands to the web shell that can:

- Retrieve Microsoft Azure system settings, Azure Blob Storage, Azure Blob Storage account, Azure Blob key, and Azure Blob Container using the following query:
  - **"select f.id, f.institid, f.folderid, filesize, f.Name as Name, u.LoginName as uploader, fr.FolderPath , fr.name as fname from folders fr, files f left join users u on f.UploadUsername = u.Username where f.FolderID = fr.ID" (Figure 2).**
- **Enumerate the underlying SQL database.**
- Store a string sent by the operator and then retrieve a file with a name matching the string from the MOVEit Transfer system.
- Create a new administrator privileged account with a randomly generated username and LoginName and RealName values set to "Health Check Service."
- Delete an account with LoginName and RealName values set to 'Health Check Service.'

**Figure 2 – Lemurloot webshell code that interacts with Azure**

Progress Software announced the discovery of [CVE-2023-34362](https://nvd.nist.gov/vuln/detail/cve-2023-34362) [MOVEit Transfer](https://nvd.nist.gov/vuln/detail/cve-2023-34362) vulnerability and issued guidance on known affected versions, software upgrades, and patching. Based on evidence of active exploitation, CISA added this vulnerability to the [Known Exploited Vulnerabilities \(KEVs\) Catalog](https://www.cisa.gov/known-exploited-vulnerabilities-catalog) [on June 2, 2023](https://www.cisa.gov/known-exploited-vulnerabilities-catalog). This MOVEit Transfer critical vulnerability exploit impacts the following versions of the software [2 <https://community.progress.com/s/article/moveit-transfer-critical-vulnerability-31may2023>]:

- MOVEit Transfer 2023.0.0
- MOVEit Transfer 2022.1.x
- MOVEit Transfer 2022.0.x
- MOVEit Transfer 2021.1.x
- MOVEit Transfer 2021.0.x
- MOVEit Transfer 2020.1.x
- MOVEit Transfer 2020.0.x

Due to the speed and ease TA505 has exploited this vulnerability, and based on their past campaigns, FBI and CISA expect to see widespread exploitation of unpatched software services in both private and public networks. For IOCs related to the MOVEit campaign, see table 2.

## DETECTION METHODS

Below, are open source deployable YARA rules that may be used to detect malicious activity of the MOVEit Transfer Zero Day Vulnerability. For more information, visit [GitHub](https://github.com/ahmetpayaslioglu/yararules/blob/main/moveit_transfer_critical_vulnerability.yara) [https://github.com/ahmetpayaslioglu/yararules/blob/main/moveit\\_transfer\\_critical\\_vulnerability.yara](https://github.com/ahmetpayaslioglu/yararules/blob/main/moveit_transfer_critical_vulnerability.yara) or the resource section of this CSA. [1 <https://www.mandiant.com/resources/blog/zero-day-moveit-data-theft>] [3 <https://www.huntress.com/blog/moveit-transfer-critical-vulnerability-rapid-response>]:

```

rule CISA_10450442_01 : LEMURLOOT webshell communicates_with_c2 remote_access
{
  meta:
    Author = "CISA Code & Media Analysis"
    Incident = "10450442"
    Date = "2023-06-07"
    Last_Modified = "20230609_1200"
    Actor = "n/a"
    Family = "LEMURLOOT"
    Capabilities = "communicates-with-c2"
    Malware_Type = "webshell"
    Tool_Type = "remote-access"
    Description = "Detects ASPX webshell samples"
    SHA256_1 = "3a977446ed70b02864ef8cfa3135d8b134c93ef868a4cc0aa5d3c2a74545725b"
  strings:
    $s1 = { 4d 4f 56 45 69 74 2e 44 4d 5a }
    $s2 = { 25 40 20 50 61 67 65 20 4c 61 6e 67 75 61 67 65 3d }
    $s3 = { 4d 79 53 51 4c }
    $s4 = { 41 7a 75 72 65 }
    $s5 = { 58 2d 73 69 4c 6f 63 6b 2d }
  condition:
    all of them
}

```

```

rule M_Webshell_LEMURLOOT_DLL_1 {
  meta:
    disclaimer = "This rule is meant for hunting and is not tested to run in a production environment"
    description = "Detects the compiled DLLs generated from human2.aspx LEMURLOOT payloads."
    sample = "c58c2c2ea608c83fad9326055a8271d47d8246dc9cb401e420c0971c67e19cbf"
    date = "2023/06/01"
    version = "1"
  strings:
    $net = "ASP.NET"
    $human = "Create_ASP_human2_aspx"
    $s1 = "X-siLock-Comment" wide
    $s2 = "X-siLock-Step3" wide
    $s3 = "X-siLock-Step2" wide
    $s4 = "Health Check Service" wide
    $s5 = "attachment; filename={0}" wide
  condition:
    uint16(0) == 0x5A4D and uint32(uint32(0x3C)) == 0x00004550 and
    filesize < 15KB and
    $net and
    (
      ($human and 2 of ($s*)) or
      (3 of ($s*))
    )
}

```

```

rule M_Webshell_LEMURLOOT_1 {
  meta:
    disclaimer = "This rule is meant for hunting and is not tested to run in a
production environment"
    description = "Detects the LEMURLOOT ASP.NET scripts"
    md5 = "b69e23cd45c8ac71652737ef44e15a34"
    sample = "cf23ea0d63b4c4c348865cefd70c35727ea8c82ba86d56635e488d816e60ea45x"
    date = "2023/06/01"
    version = "1"

  strings:
    $head = "<%@ Page"
    $s1 = "X-siLock-Comment"
    $s2 = "X-siLock-Step"
    $s3 = "Health Check Service"
    $s4 = /pass, \"[a-z0-9]{8}~[a-z0-9]{4}/
    $s5 = "attachment;filename={0}"

  condition:
    filesize > 5KB and filesize < 10KB and
    (
      ($head in (0..50) and 2 of ($s*)) or
      (3 of ($s*))
    )
}

```

```

rule MOVEit_Transfer_exploit_webshell_aspx {

    meta:

        date = "2023-06-01"
        description = "Detects indicators of compromise in MOVEit Transfer exploitation."
        author = "Ahmet Payaslioglu - Binalyze DFIR Lab"
        hash1 = "44d8e68c7c4e04ed3adacb5a88450552"
        hash2 = "a85299f78ab5dd05e7f0f11ecea165ea"
        reference1 =
"https://www.reddit.com/r/msp/comments/13xjsly/tracking_emerging_moveit_transfer_critical/"
        reference2 = "https://www.bleepingcomputer.com/news/security/new-moveit-transfer-
zero-day-mass-exploited-in-data-theft-attacks/"
        reference3 =
"https://gist.github.com/JohnHammond/44ce8556f798b7f6a7574148b679c643"
        verdict = "dangerous"
        mitre = "T1505.003"
        platform = "windows"
        search_context = "filesystem"

    strings:
        $a1 = "MOVEit.DMZ"
        $a2 = "Request.Headers[\"X-siLock-Comment\"]"
        $a3 = "Delete FROM users WHERE RealName='Health Check Service'"
        $a4 = "set[\"Username\"]"
        $a5 = "INSERT INTO users (Username, LoginName, InstID, Permission, RealName"
        $a6 = "Encryption.OpenFileForDecryption(dataFilePath,
siGlobs.FileSystemFactory.Create())"
        $a7 = "Response.StatusCode = 404;"

    condition:

        filesize < 10KB
        and all of them
}

```

```

rule MOVEit_Transfer_exploit_webshell_dll {

    meta:

        date = "2023-06-01"
        description = "Detects indicators of compromise in MOVEit Transfer exploitation."
        author = "Djordje Lukic - Binalyze DFIR Lab"
        hash1 = "7d7349e51a9bdcdd8b5daeeefe6772b5"
        hash2 = "2387be2afe2250c20d4e7a8c185be8d9"
        reference1 =
"https://www.reddit.com/r/msp/comments/13xjsly/tracking_emerging_moveit_transfer_critical/"
        reference2 = "https://www.bleepingcomputer.com/news/security/new-moveit-transfer-
zero-day-mass-exploited-in-data-theft-attacks/"
        reference3 =
"https://gist.github.com/JohnHammond/44ce8556f798b7f6a7574148b679c643"

```



```

    verdict = "dangerous"
    mitre = "T1505.003"
    platform = "windows"
    search_context = "filesystem"

    strings:
        $a1 = "human2.aspx" wide
        $a2 = "Delete FROM users WHERE RealName='Health Check Service'" wide
        $a3 = "X-siLock-Comment" wide
    condition:
        uint16(0) == 0x5A4D and filesize < 20KB
        and all of them
}

```

If a victim rebuilds the web server but leaves the database intact, the CLOP user accounts will still exist and can be used for persistent access to the system.

Victims can use the following SQL query to audit for active administrative accounts, and should validate that only intended accounts are present.

```

SELECT * FROM [<database name>].[dbo].[users] WHERE Permission=30 AND
Status='active' and Deleted='0'

```

## MOVEit Campaign Indicators of Compromise

| Files                         | Hash   |
|-------------------------------|--|
| LEMURLOOT                     |  |
| Web Shell                     | 0b3220b11698b1436d1d866ac07cc90018e59884e91a8cb71ef8924309f  |
| e.g. <code>human2.aspx</code> | 0ea05169d111415903a1098110c34cddb390c23016cd4e179dd9ef507104 |
|                               | 110e301d3b5019177728010202c8096824829c0b11bb0dc0bff55547ead1 |
|                               | 1826268249e1ea58275328102a5a8d158d36b4fd312009e4a2526f0bfbc  |
|                               | 2413b5d0750c23b07999ec33a5b4930be224b661aaf290a0118db803f31  |
|                               | 2ccf7e42afd3f6bf845865c74b2e01e2046e541bb633d037b05bd1cdb29  |
|                               | 348e435196dd795e1ec31169bd111c7ec964e5a6ab525a562b17f10de0ab |
|                               | 387cee566aedbafa8c114ed1c6b98d8b9b65e9f178cf2f6ae2f5ac441082 |
|                               | 38e69f4a6d2e81f28ed2dc6df0daf31e73ea365bd2cfc90ebc31441404cc |
|                               | 3a977446ed70b02864ef8cfa3135d8b134c93ef868a4cc0aa5d3c2a7454  |
|                               | 3ab73ea9aebf271e5f3ed701286701d0be688bf7ad4fb276cb4fbe35c8af |
|                               | 3c0dbda8a5500367c22ca224919bfc87d725d890756222c8066933286    |
|                               | 4359aead416b1b2df8ad9e53c497806403a2253b7e13c03317fc08ad3b0  |
|                               | 48367d94ccb4411f15d7ef9c455c92125f3ad812f2363c4d2e949ce1b615 |
|                               | 58ccfb603cdc4d305fddd52b84ad3f58ff554f1af4d7ef164007cb843897 |
|                               | 5b566de1aa4b2f79f579cdac6283b33e98fdc8c1cfa6211a787f8156848d |
|                               | 6015fed13c5510bbb89b0a5302c8b95a5b811982ff6de9930725c4620c   |
|                               | 702421bcee1785d93271d311f0203da34cc936317e299575b065039      |
|                               | 769f77aace5eed4717c7d3142989b53bd5bac9297a6e11b2c588c3989b0  |
|                               | 7c39499dd3b0b283b242f7b7996205a9b3cf8bd5c943ef6766992204d    |
|                               | 93137272f3654d56b9ce63bec2e40dd816c82fb6bad9985bed477f17995  |
|                               | 98a30c7251cf622bd4abce92ab527c3f233b817a57519c2dd2bf8e3d3cc  |
|                               | 9d1723777de67bc7e11678db800d2a32de3bcd6c40a629cd165e3f7bbac  |

Give Feedback

| Files | Hash  |
|-------|---|
|       | 9e89d9f045664996067a05610ea2b0ad4f7f502f73d84321fb07861348f   |
|       | a1269294254e958e0e58fc0fe887ebbc4201d5c266557f09c3f37542bdf   |
|       | a8f6c1ccba662a908ef7b0cb3cc59c2d1c9e2cbbbe1866937da81c4c616e6 |
|       | b1c299a9fe6076f370178de7b808f36135df16c4e438ef6453a39565ff2e  |
|       | b5ef11d04604c9145e4fe1bedae52f2c2345703d52115a5bf11ea56d7fb6  |
|       | b9a0baf82feb08e42fa6ca53e9ec379e79fbe8362a7dac6150eb39c2d33   |
|       | bdd4fa8e97e5e6eaaac8d6178f1cf4c324b9c59fc276fd6b368e811b327c  |
|       | c56bcb513248885673645ff1df44d3661a75cfacdce485535da898aa9ba   |
|       | c77438e8657518221613fbce451c664a75f05beea2184a3ae67f30ea71d3  |
|       | cec425b3383890b63f5022054c396f6d510fae436041add935cd6ce420    |
|       | cf23ea0d63b4c4c348865cefd70c35727ea8c82ba86d56635e488d816e    |
|       | d477ec94e522b8d741f46b2c00291da05c72d21c359244ccb1c211c12b63  |
|       | d49cf23d83b2743c573ba383bf6f3c28da41ac5f745cde41ef8cd134452f  |
|       | daaa102d82550f97642887514093c98ccd51735e025995c2cc14718330a   |
|       | e8012a15b6f6b404a33f293205b602ece486d01337b8b3ec331cd99ccac   |
|       | ea433739fb708f5d25c937925e499c8d2228bf245653ee89a6f3d26a5f    |
|       | ed0c3e75b7ac2587a5892ca951707b4e0dd9c8b18aaf8590c24720d73a    |
|       | f0d85b65b9f6942c75271209138ab24a73da29a06bc6cc4faeddcbb8      |
|       | fe5f8388ccea7c548d587d1e2843921c038a9f4ddad3cb03f3aa8a4       |

Give Feedback

GoAnywhere Campaign Indicators of Compromise

| Files                      | Hash   | Description |
|----------------------------|--|-------------|
| larabqFa.exe<br>Qboxdv.dll | 0e3a14638456f4451fe8d76f<br>dc04e591fba942c2f16da3185<br>7ca66293a58a4c3 | Truebot     |

| Files   | Hash   | Description  |
|---|--|--|
| %TMP%\7ZipSfx.000\Zoom.exe                        | 1285aa7e6ee729be808c46c069e30a9ee9ce34287151076ba81a0bea0508ff7e | Spawns a PowerShell subprocess which executes a malicious DLL file                             |
| %TMP%\7ZipSfx.000\ANetDiag.dll                    | 2c8d58f439c708c28ac4ad4a0e9f93046cf076fc6e5ab1088e8943c0909acbc4 | Obfuscated malware which also uses long sleeps and debug detection to evade analysis           |
| AVICaptures.dll                                   | a8569c78af187d603eecd5faec860458919349eef51091893b705f466340ecd  | Truebot  |
| kpdphhajHbFerUr.exe<br>gamft.dll                  | c042ad2947caf4449295a51f9d640d722b5a6ec6957523ebf68cddb87ef3545c | Truebot  |
| dnSujahur.exe<br>Pxaz.dll                         | c9b874d54c18e895face055eeb6faa2da7965a336d70303d0bd6047bec27a29d | Truebot  |
| 7ZSfxMod_x86.exe<br>ZoomInstaller.exe<br>Zoom.exe | d5bbcaa0c3eeea17f12a5cc3dbcaffff423d00562acb694561841bcfe984a3b7 | Fake Zoom installer - Truebot  |
| update.jsp  | eb9f5cbe71f9658d38fb4a7aa101ad40534c4c93ee73ef5f6886d89159b0e2c2 | Java Server Pages (JSP) web shell with some base64 obfuscation                                 |
| %TMP%\<folder>\extracted_at_0xe5c8f00.exe         | f2f08e4f108aaffaad3d11bad24abdd625a77e0ee9674c4541b562c78415765  | Employs sandbox detection and string obfuscation - appears to be a collection of C# hack tools |
| UhfdkUSwkFKedUU.exe<br>gamft.dll                  | ff8c8c8bfba5f2ba2f8003255949678df209dbff95e16f2f3c338cfa0fd1b885 | Truebot  |

| Email Address             | Description              |
|---------------------------|--------------------------|
| unlock@rsv-box[.]com      | CL0P communication email |
| unlock@support-mult[.]com | CL0P communication email |
| rey14000707@gmail[.]com   | Login/Download           |
| gagnondani225@gmail[.]com | Email                    |

## Malicious Domain

http://hiperfdhaus[.]com

http://jirostrogud[.]com

http://qweastradoc[.]com

http://qweastradoc[.]com/gate.php

http://connectzoomdownload[.]com/download/ZoomInstaller.exe

https://connectzoomdownload[.]com/download/ZoomInstaller.exe

http://zoom[.]voyage/download/Zoom.exe

http://guerdofest[.]com/gate.php

| Certificate Name          | Status  | Date Valid               | Thumbprint   | Serial Number  |
|---------------------------|---|--------------------------|--|--|
| Savas Investments PTY LTD | Valid Issuer:<br>Sectigo Public Code Signing CA R36 | 10/7/2022 -<br>10/7/2023 | 8DCCF6AD21<br>A58226521<br><br>E36D7E5DBA<br>D133331C181 | 00-82-D2-24-<br>32-3E-FA-65-<br>06-0B-64-1F-<br>51-FA-DF-EF-<br>02 |

## MOVEit Campaign Infrastructure

### IP Addresses

May/June 2023

104.194.222[.]107

146.0.77[.]141

146.0.77[.]155

146.0.77[.]183

148.113.152[.]144

162.244.34[.]26

## MOVEit Campaign Infrastructure

### IP Addresses

May/June 2023

162.244.35[.]6

179.60.150[.]143

185.104.194[.]156

185.104.194[.]24

185.104.194[.]40

185.117.88[.]17

185.162.128[.]75

185.174.100[.]215

185.174.100[.]250

185.181.229[.]240

185.181.229[.]73

185.183.32[.]122

185.185.50[.]172

188.241.58[.]244

193.169.245[.]79

194.33.40[.]103

194.33.40[.]104

194.33.40[.]164

198.12.76[.]214

198.27.75[.]110

206.221.182[.]106

209.127.116[.]122

## MOVEit Campaign Infrastructure

### IP Addresses

May/June 2023

209.127.4[.]22

209.222.103[.]170

45.227.253[.]133

45.227.253[.]147

45.227.253[.]50

45.227.253[.]6

45.227.253[.]82

45.56.165[.]248

5.149.248[.]68

5.149.250[.]74

5.149.250[.]92

5.188.86[.]114

5.188.86[.]250

5.188.87[.]194

5.188.87[.]226

5.188.87[.]27

5.252.23[.]116

5.252.25[.]88

5.34.180[.]205

62.112.11[.]57

62.182.82[.]19

62.182.85[.]234

Give Feedback

## MOVEit Campaign Infrastructure

### IP Addresses

May/June 2023

66.85.26[.]215

66.85.26[.]234

66.85.26[.]248

79.141.160[.]78

79.141.160[.]83

84.234.96[.]104

84.234.96[.]31

89.39.104[.]118

89.39.105[.]108

91.202.4[.]76

91.222.174[.]95

91.229.76[.]187

93.190.142[.]131

**Updated June 16, 2023**

## Fortra GoAnywhere

### High Confidence and Temporal

### IP Addresses

January/June

92.118.36[.]249

5.34.180[.]48

185.33.86[.]225

Give Feedback



## Fortra GoAnywhere

### High Confidence and Temporal

#### IP Addresses

January/June

148.113.159[.]213

15.235.13[.]184

82.117.252[.]141

185.80.52[.]230

91.222.174[.]68

5.34.178[.]31

185.104.194[.]134

5.34.178[.]28

185.81.113[.]156

5.34.178[.]30

77.83.197[.]66

193.42.38[.]196

209.222.98[.]25

106.75.139[.]199

79.141.166[.]119

185.117.88[.]2

79.141.160[.]78

185.33.87[.]126

82.117.252[.]142

15.235.83[.]73

81.56.49[.]148

Give Feedback

## Fortra GoAnywhere

### High Confidence and Temporal

#### IP Addresses

January/June

96.44.181[.]131

192.42.116[.]191

213.121.182[.]84

104.200.72[.]149

152.57.231[.]216

142.44.212[.]178

54.39.133[.]41

76.117.196[.]3

24.3.132[.]168

166.70.47[.]90

208.115.199[.]25

216.144.248[.]20

173.254.236[.]131

3.101.53[.]11

54.184.187[.]134

100.21.161[.]34

44.206.3[.]111

75.101.131[.]237

20.47.120[.]195

198.137.247[.]10

**End of Update**

Give Feedback

# MITRE ATT&CK TECHNIQUES

See tables below for referenced CL0P tactics and techniques used in this advisory.

Table 1. ATT&CK Techniques for Enterprise: Initial Access

| Initial Access                    |  |  |
|-----------------------------------|--|--|
| Technique Title                   | ID   | Use  |
| Exploit Public-Facing Application | T1190<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1190/">https://attack.mitre.org/versions/v13/techniques/t1190/</a> > | CL0P ransomware group exploited the zero-day vulnerability CVE-2023-34362 affecting MOVEit Transfer software; begins with a SQL injection to infiltrate the MOVEit Transfer web application. |
| Phishing                          | T1566<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1566/">https://attack.mitre.org/versions/v13/techniques/t1566/</a> > | CL0P actors send a large volume of spear-phishing emails to employees of an organization to gain initial access.   |

Table 2. ATT&CK Techniques for Enterprise: Execution

| Execution                                     |  |  |
|---|--|--|
| Technique Title                               | ID   | Use  |
| Command and Scripting Interpreter: PowerShell | T1059.001<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1059/001/">https://attack.mitre.org/versions/v13/techniques/t1059/001/</a> > | CL0P actors use SDBot as a backdoor to enable other commands and functions to be executed in the compromised computer. |
| Command and Scripting Interpreter             | T1059.003<br>< <a href="https://attack.mitre.org/techniques/t1059/003/">https://attack.mitre.org/techniques/t1059/003/</a> >                           | CL0P actors use TinyMet, a small open-source Meterpreter stager to establish a reverse shell to their C2 server.       |
| Shared Modules                                | T1129<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1129/">https://attack.mitre.org/versions/v13/techniques/t1129/</a> >             | CL0P actors use Truebot to download additional modules.  |

Table 3. ATT&CK Techniques for Enterprise: Persistence

| Persistence |  |  |
|-------------|--|--|
|-------------|--|--|

| Persistence  |  |   |
|--|--|---|
| Technique Title                                    | ID   | Use   |
| Server Software Component:<br>Web Shell            | T1505.003<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1505/003/">https://attack.mitre.org/versions/v13/techniques/t1505/003/</a> > | DEWMODE is a web shell designed to interact with a MySQL database, and is used to exfiltrate data from the compromised network. |
| Event Triggered Execution:<br>Application Shimming | T1546.011<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1546/011/">https://attack.mitre.org/versions/v13/techniques/t1546/011/</a> > | CL0P actors use SDBot malware for application shimming for persistence and to avoid detection.                                  |

**Table 4. ATT&CK Techniques for Enterprise: Privilege Escalation**

| Privilege Escalation                  |  |   |
|---------------------------------------|--|---|
| Technique Title                       | ID   | Use   |
| Exploitation for Privilege Escalation | T1068<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1068/">https://attack.mitre.org/versions/v13/techniques/t1068/</a> > | CL0P actors were gaining access to MOVEit Transfer databases prior to escalating privileges within compromised network. |

**Table 5. ATT&CK Techniques for Enterprise: Defense Evasion**

| Defense Evasion                         |  |  |
|---|--|--|
| Technique Title                         | ID   | Use  |
| Process Injection                       | T1055<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1055/">https://attack.mitre.org/versions/v13/techniques/t1055/</a> >             | CL0P actors use Truebot to load shell code.                    |
| Indicator Removal                       | T1070<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1070/">https://attack.mitre.org/versions/v13/techniques/t1070/</a> >             | CL0P actors delete traces of Truebot malware after it is used. |
| Hijack Execution Flow: DLL Side-Loading | T1574.002<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1574/002/">https://attack.mitre.org/versions/v13/techniques/t1574/002/</a> > | CL0P actors use Truebot to side load DLLs.                     |

**Table 6. ATT&CK Techniques for Enterprise: Discovery**

| Discovery |  |  |
|-----------|--|--|
|-----------|--|--|

| Discovery               |  |   |
|-------------------------|--|---|
| Technique Title         | ID   | Use   |
| Remote System Discovery | T1018<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1018/">https://attack.mitre.org/versions/v13/techniques/t1018/</a> > | CL0P actors use Cobalt Strike to expand network access after gaining access to the Active Directory (AD) servers. |

**Table 7. ATT&CK Techniques for Enterprise: Lateral Movement**

| Lateral Movement                                |  |   |
|---|--|---|
| Technique Title                                 | ID   | Use   |
| Remote Services: SMB/Windows Admin Shares       | T1021.002<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1021/002/">https://attack.mitre.org/versions/v13/techniques/t1021/002/</a> > | CL0P actors have been observed attempting to compromise the AD server using Server Message Block (SMB) vulnerabilities with follow-on Cobalt Strike activity. |
| Remote Service Session Hijacking: RDP Hijacking | T1563.002<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1563/002/">https://attack.mitre.org/versions/v13/techniques/t1563/002/</a> > | CL0P ransomware actors have been observed using Remote Desktop Protocol (RDP) to interact with compromised systems after initial access.                      |

**Table 8. ATT&CK Techniques for Enterprise: Collection**

| Collection      |  |  |
|-----------------|--|--|
| Technique Title | ID   | Use  |
| Screen Capture  | T1113<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1113/">https://attack.mitre.org/versions/v13/techniques/t1113/</a> > | CL0P actors use Truebot to take screenshots in effort to collect sensitive data. |

**Table 9. ATT&CK Techniques for Enterprise: Command and Control**

| Command and Control |    |     |
|---------------------|----|-----|
| Technique Title     | ID | Use |

| Command and Control        |  |  |
|----------------------------|--|--|
| Application Layer Protocol | T1071<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1071/">https://attack.mitre.org/versions/v13/techniques/t1071/</a> > | CL0P actors use FlawedAmmyy remote access trojan (RAT) to communicate with the Command and Control (C2).   |
| Ingress Tool Transfer      | T1105<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1105/">https://attack.mitre.org/versions/v13/techniques/t1105/</a> > | CL0P actors are assessed to use FlawedAmmyy remote access trojan (RAT) to the download of additional malware components.<br><br>CL0P actors use SDBot to drop copies of itself in removable drives and network shares. |

**Table 10. ATT&CK Techniques for Enterprise: Exfiltration**

| Exfiltration                 |  |  |
|------------------------------|--|--|
| Technique Title              | ID   | Use  |
| Exfiltration Over C2 Channel | T1041<br>< <a href="https://attack.mitre.org/versions/v13/techniques/t1041/">https://attack.mitre.org/versions/v13/techniques/t1041/</a> > | CL0P actors exfiltrate data for C2 channels. |

## MITIGATIONS

The authoring agencies recommend organizations implement the mitigations below to improve their organization's security posture in response to threat actors' activity. 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 and TTPs. 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 to reduce the risk of compromise by CL0P ransomware.

- **Reduce threat of malicious actors** using remote access tools by:
  - **Auditing remote access tools** on your network to identify currently used and/or authorized software.
  - **Reviewing logs for execution of remote access software** to detect abnormal use of programs running as a portable executable [CPG 2.T </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
  - **Using security software** to detect instances of remote access software only being loaded in memory.
  - **Requiring authorized remote access solutions** only be used from within your network over approved remote access solutions, such as virtual private networks (VPNs) or virtual desktop interfaces (VDIs).
  - **Blocking both inbound and outbound connections** on common remote access software ports and protocols at the network perimeter.
- **Implement 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.
- **Strictly limit the use of RDP and other remote desktop services.** If RDP is necessary, rigorously apply best practices, for example [CPG 2.W </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>]:
  - Audit the network for systems using RDP.
  - Close unused RDP ports.
  - Enforce account lockouts after a specified number of attempts.
  - Apply phishing-resistant multifactor authentication (MFA) </sites/default/files/publications/fact-sheet-implementing-phishing-resistant-mfa-508c.pdf>.
  - Log RDP login attempts.
- **Disable command-line and scripting** activities and permissions [CPG 2.N </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Restrict the use of PowerShell**, using Group Policy, and only grant to specific users on a case-by-case basis. Typically, only those users or administrators who manage the network or Windows operating systems (OSs) should be permitted to use PowerShell [CPG 2.E </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Update Windows PowerShell or PowerShell Core** to the latest version and uninstall all earlier PowerShell versions. Logs from Windows PowerShell prior to version 5.0 are either non-existent or do not record enough detail to aid in enterprise monitoring and incident response activities [CPG 1.E, 2.S, 2.T </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Review domain controllers, servers, workstations, and active directories** for new and/or unrecognized accounts [CPG 4.C </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Audit user accounts with administrative privileges** and configure access controls according to the principle of least privilege [CPG 2.E </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Reduce the threat of credential compromise** via the following:
  - **Place domain admin accounts in the protected users' group** to prevent caching of password hashes locally.
  - Refrain from storing plaintext credentials in scripts.
- **Implement time-based access for accounts** set at the admin level and higher [CPG 2.A, 2.E </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].

In addition, the authoring authorities of this CSA recommend network defenders apply the following mitigations to limit potential adversarial use of common system and network discovery techniques and to reduce the impact and risk of compromise by ransomware or data extortion actors:

- **Implement a recovery plan** to maintain and retain multiple copies of sensitive or proprietary data and servers in a physically separate, segmented, and secure location (i.e., hard drive, storage device, the cloud).
- **Maintain offline backups of data** and regularly maintain backup and restoration (daily or weekly at minimum). By instituting this practice, an organization limits the severity of disruption to its business practices [CPG 2.R </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Require all accounts** with password logins (e.g., service account, admin accounts, and domain admin accounts) **to comply** with [National Institute for Standards and Technology \(NIST\) standards](https://pages.nist.gov/800-63-3/) </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf> for developing and managing password policies.
  - Use longer passwords consisting of at least eight characters and no more than 64 characters in length [CPG 2.B </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
  - Store passwords in hashed format using industry-recognized password managers.
  - Add password user “salts” to shared login credentials.
  - Avoid reusing passwords [CPG 2.C </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
  - Implement multiple failed login attempt account lockouts [CPG 2.G </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
  - Disable password “hints.”
  - Refrain from requiring password changes more frequently than once per year.  
**Note:** NIST guidance suggests favoring longer passwords instead of requiring regular and frequent password resets. Frequent password resets are more likely to result in users developing password “patterns” cyber criminals can easily decipher.
  - Require administrator credentials to install software.
- **Require multifactor authentication** for all services to the extent possible, particularly for webmail, virtual private networks, and accounts that access critical systems [CPG 2.H </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Keep all operating systems, software, and firmware up to date.** Timely patching is one of the most efficient and cost-effective steps an organization can take to minimize its exposure to cybersecurity threats. Prioritize patching [known exploited vulnerabilities](https://www.cisa.gov/known-exploited-vulnerabilities-catalog) </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf> in internet-facing systems [CPG 1.E </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Segment networks** to prevent the spread of ransomware. Network segmentation can help prevent the spread of ransomware by controlling traffic flows between—and access to—various subnetworks and by restricting adversary lateral movement [CPG 2.F </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Identify, detect, and investigate abnormal activity and potential traversal of the indicated ransomware with a networking monitoring tool.** To aid in detecting the ransomware, implement a tool that logs and reports all network traffic, including lateral movement activity on a network. Endpoint detection and response (EDR) tools are particularly useful for detecting lateral connections as they have insight into common and uncommon network connections for each host [CPG 3.A </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Install, regularly update, and enable real time detection for antivirus software** on all hosts.
- **Disable unused ports** [CPG 2.V </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Consider adding an email banner to emails** received from outside your organization [CPG 2.M </sites/default/files/2023-03/cisa\_cpg\_report\_v1.0.1\_final.pdf>].
- **Disable hyperlinks** in received emails.



- **Ensure all backup data is encrypted, immutable** (i.e., ensure backup data cannot be altered or deleted), and covers the entire organization's data infrastructure [CPG 2.K, 2.L, 2.R <[sites/default/files/2023-03/cisa\\_cpg\\_report\\_v1.0.1\\_final.pdf](https://www.cisa.gov/sites/default/files/2023-03/cisa_cpg_report_v1.0.1_final.pdf)>].

## VALIDATE SECURITY CONTROLS

In addition to applying mitigations, FBI and CISA recommend 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. The authoring authorities of this CSA recommend 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 table 2).
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.

## 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 mitigate a ransomware attack: [CISA-Multi-State Information Sharing and Analysis Center \(MS-ISAC\) Joint Ransomware Guide](https://www.cisa.gov/stopransomware/ransomware-guide) <<https://www.cisa.gov/stopransomware/ransomware-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>>.

## REFERENCE

- [1] [Zero-Day Vulnerability in MOVEit Transfer Exploited for Data Theft](https://www.mandiant.com/resources/blog/zero-day-moveit-data-theft) | Mandiant <<https://www.mandiant.com/resources/blog/zero-day-moveit-data-theft>>
- [2] [MOVEit Transfer Critical Vulnerability \(May 2023\) - Progress Community](https://community.progress.com/s/article/moveit-transfer-critical-vulnerability-31may2023) <<https://community.progress.com/s/article/moveit-transfer-critical-vulnerability-31may2023>>
- [3] [MOVEit Transfer Critical Vulnerability CVE-2023-34362 Rapid Response](https://www.huntress.com/blog/moveit-transfer-critical-vulnerability-rapid-response) (huntress.com) <<https://www.huntress.com/blog/moveit-transfer-critical-vulnerability-rapid-response>>

## REPORTING

The FBI is seeking any information that can be shared, to include boundary logs showing communication to and from foreign IP addresses, a sample ransom note, communications with CL0P group actors, Bitcoin wallet information, decryptor files, and/or a benign sample of an encrypted file. The FBI and CISA do not encourage paying ransom as payment does not guarantee victim files will be recovered. Furthermore, payment may also embolden adversaries to target additional organizations, encourage other criminal actors to engage in the distribution of ransomware, and/or fund illicit activities. Regardless of whether you or your organization have decided to pay the ransom, the FBI and CISA urge you to promptly report ransomware incidents to a [local FBI Field Office](https://www.fbi.gov/contact-us/field-offices) <<https://www.fbi.gov/contact-us/field-offices>>, report the incident to the FBI Internet Crime Complaint Center (IC3) at [ic3.gov](https://www.ic3.gov/) <<https://www.ic3.gov/>>, or CISA at [cisa.gov/report](https://www.cisa.gov/report) <<https://www.cisa.gov/report>>.

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### Tags

**Co-Sealers and Partners:** Federal Bureau of Investigation

**MITRE ATT&CK TTP:** Collection (TA0009), Command and Control (TA0011), Defense Evasion (TA0005), Discovery (TA0007), Execution (TA0002), Exfiltration (TA0010), Initial Access (TA0001), Lateral Movement (TA0008), Persistence (TA0003), Privilege Escalation (TA0004)

**Topics:** Cyber Threats and Advisories, Malware, Phishing, and Ransomware



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JUL 22, 2025 ■ CYBERSECURITY ADVISORY | AA25-203A

[#StopRansomware: Interlock](#)  
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