



8Base Ransomware

Executive Summary

A recent attack on a U.S.-based medical facility in October 2023 highlights the potential threat of the ransomware gang, 8Base, to the Healthcare and Public Health (HPH) sector. Active since March 2022, 8Base became highly active in the summer of 2023, focusing their indiscriminate targeting on multiple sectors primarily across the United States. This surge in operational activity included the group's engagement in double extortion tactics as an affiliate of Ransomware-as-a-Service (RaaS) groups against mostly small- to medium-sized companies. While similarities exist between 8Base and other ransomware gangs, the group's identity, methods, and motivations remain largely unknown. What follows is an overview of the group, possible connections to other threat actors, an analysis of their ransomware attacks, their target industries and victim countries, impacts to the HPH sector, MITRE ATT&CK techniques, indicators of compromise, and recommended defenses and mitigations against the group.

Overview

8Base is not a ransomware operation, but a data-extortion cybercrime operation. They quickly become a notorious actor on the cyber threat landscape due to the significant number of victims claimed on their data leak site. While operating largely under the radar for the past year, 8Base resurfaced and was attributed to a massive spike in activity in May and June 2023. Notably, 8Base, alongside ClOp and LockBit, were responsible for 48% of all recorded cyberattacks in July 2023 alone. On their leak site, the ransomware gang describes themselves as "...honest and simple pentesters. We offer companies the most loyal conditions for the return of their data." They claim to only target companies that have neglected the privacy and importance of the data of their employees and customers. Despite their aggressive portfolio of victims, the origins of the group and the identities of the operators remain a mystery. Cybersecurity researchers state that the speed and efficiency of the group's current operations does not indicate the start of a new group, but rather signifies the continuation of a well-established, mature organization.

| 8Base at a Glance | | |
|----------------------|---|--|
| Name(s) | 8Base, EightBase, 8Base Ransomware | |
| Threat Type | Ransomware | |
| Inteactype | Double extortion | |
| | Phishing e-mails | |
| Distribution Methods | Exploit kits | |
| | Drive-by downloads | |
| Ransomware Strains | Multiple ransomware strains, including a variant known as Phobos. | |
| | Small- to medium-sized businesses (SMBs) across various sectors, | |
| Target Sectors | including professional, scientific, technical, manufacturing, | |
| | construction, and healthcare. | |
| | Mostly the United States, Brazil, and the United Kingdom, but also | |
| Target Countries | China, India, and Australia, among others. Notably, no ex-Soviet or | |
| | Commonwealth of Independent States (CIS) countries have been | |
| | targeted. | |







Figure 1: 8Base Tor Site (Source: SentinelOne) and 8Base Telegram Channel (Source: Telegram)

Associations and Affiliates

Some aspects of 8Base's current operations resemble previous ransomware attacks, specifically incidents pertaining to the threat actors RansomHouse and Phobos. Like 8Base, it is unknown whether RansomHouse is a ransomware group or a data-extortion cybercrime operation. This enigmatic and alleged group is known for buying already-leaked data, partnering with data leak sites, and extorting companies for money. Based on 8Base's leak site and public accounts (including a Telegram and a non-defunct Twitter handle), along with the group's communications, cybersecurity researchers posit that the group's syntax is like that of RansomHouse.

The first similarity was identified by cybersecurity researchers during a ransom note comparison project utilizing Natural Language Processing model Doc2Vec. Doc2Vec is an unsupervised machine learning algorithm that converts documents to vectors and can be used to identify similarities in documents. During this analysis, the ransom notes of 8Base had a 99% match with the RansomHouse ransom note. Interestingly, a second ransom note of 8Base also matched that of the threat group, Phobos.

The second similarity pertained to both group's respective leak sites. The verbiage is copied word for word from RansomHouse's welcome page to 8Base's welcome page. This was the case for their Terms of Service and FAQ pages as well. Despite the similarity between the two, it is unknown whether 8Base is an offshoot of RansomHouse or merely a copycat. Like 8Base, RansomHouse is known for using a wide variety of ransomware that is available on the dark web and does not have its own signature ransomware as a basis for comparison. When comparing the two threat actor groups, there are two major differences. The first is that RansomHouse advertises its partnerships and is openly recruiting for partnerships, whereas 8Base does not. The second difference is that despite the groups' leak sites containing identical language, the layout, design and structure of both differ.



Figure 2: An 8Base ransom note (left) compared to a RansomHouse ransom note (right). (Source: VMWare)

When searching for a sample of ransomware used by 8Base, a Phobos sample using a ".8base" file extension on encrypted files was recovered by cybersecurity researchers. Comparison of Phobos to the 8Base sample revealed that 8Base was using Phobos ransomware version 2.9.1 with SmokeLoader for initial obfuscation on ingress, unpacking, and loading of the ransomware. With Phobos ransomware being available as a Ransomware-as-a-Service (RaaS), this is not a surprise. Actors can customize parts to their needs, as seen in the 8Base ransom note. Although their ransom notes were similar, key differences included Jabber instructions and "phobos" in the top and bottom corners of the Phobos ransomware, while 8Base has "cartilage" in the top corner, a purple background, and no Jabber instructions.

| p p Comparison p </th <th></th> <th></th> | | |
|--|--|--|
| | castilage | phakos |
| <section-header> All propried have been encrypted due to a society problem with year PC. Any per first weither and support first weithera and support first weither and support f</section-header> | Â | All your files have been encrypted! |
| Write bis Do in the title of your message 38660A87-3483 You have to pay for decryption n Bicoris. The pice depends on how fast you write to us. After payment we will send you the tool that will decrypt alyour rises. Free decryption as guarantee Before paying you can send us to to 16 ifs for free decryption. The total see of files must be lass than 44b (non archived), and files should not cortain valuable information. (databases, hackpas, large excel sheets, etc.) How to obtain filtcoirs Interst/Dotabaces, social will be totics is to coll for sites on the register, dkk 'Buy blocks'', and select the seler by payment method and prece. Interst/Dotabaces, hackpas, large excel sheets, etc.) Interst/Dotabaces, social will be totics is to coll for sites on the primers guide here: Interst/Dotabaces, and will be totics is to coll for sites will be totics is a localizeto in the totic on the primers guide here: Interst/Dotabaces, on the primers guide here: Interst/Dotabaces, and will be totics is to primers guide here: Interst/Dotabaces, and will be totics is to coll for sites will be payment with a bage of the payment with a bage | All your files have been encrypted! All your files have been encrypted due to a security problem with your PC. If you want to restore them, write us to the e-mail support@ressdata.pro Or write us to the Tox: 78E21CFF7Ad85F713CLS0AFF2F74E62d30BEF77238F4B0A73E5E3251EAD56427BF9F7A1A074 | All your files have han encryption due to a sourchip produces with your PC. If you wont to reduce than, white is to its the e null politicities:HESE_Bail.com When Ha to its the to its for our message: 3466422 eX861 To care of an encourse of a Version with the set to this encourse of a source |
| Free decryption as guarantee Before paying you can send us up to 3 fles for free decryption. The total size of fles must be less than 44bb (non archived), and fles should not contain valable information. How to totaln Bitcoins The easiest way to by photors is LocaBitcons site. You have to register, dxk 'Buy bitcons', and select the seler by payment method and proce. Hum/Home Contrady Cont | Write table Tb in the title of your message: 366BABB7-3483 You have to pay for decryption in Bicoins. The price depends on how fast you write to us. After payment we will send you the tool that will decrypt all your files. | How to obtain Blooks The context way to bey Macrine & Ausdiffactor also. You have to register, ddk "bey Macrine", and redet the order by payment method and pole. |
| How to obtain filtroins | Free decryption as guarantee Before paying you can send us up to 3 files for free decryption. The total size of files must be less than 4Hb (non archived), and files should not contain valuable information. (databases,backups, large excel sheets, etc.) | ne por co fini distri picto i se prismo ad legence piate inter- ling://messathikumathics/instructores.ethica/instructore/ Baller del tradiciona functione: • Instruct da pictore/ (Diggi de de legence pictores) en anter a second. |
| Attention On not remain encrypted files. Do not tremain encrypted files with the help of third parties may cause increased price (they add their fee to our) or you can become a victim of a scam. | How to obtain Bitcoins The easiest way to buy bitcoins is LocaBitcoins site. You have to register, cick 'Buy bitcoins', and select the seller by payment method and price. https://coabitcoins.com/but_bitcoins . https://coabitcoins.com/but_bitcoins . http://www.coabitcoins.com/but_bitcoins . http://www.coabitcoins.com/but_bitcoins . <a href="http://www.coabitcoins.com/but_bitcoins.com/but</td> <td></td> | |
| | Attention! • Do not rename encrypted files. • • Do not they your data using third party software, t may cause permanent data loss. • • Do not third parties with the help of third parties may cause increased price (they add their fee to our) or you can become a victim of a scam. | Handhoff Ho not resource encouped files. Ho not resource encouped files. Ho not by the decayst part and as any label party software. E may care pertainward data tess. Ho notypite of your files with the help of their parties may care encounced parts (they safe fire to any) aryou can become a vector of a scane. |

Figure 3: 8Base (left) compared to Phobos (right) ransom notes (Source: VMWare)

Even though 8Base added their own branding customization by appending ".8base" to their encrypted files, the

[TLP:CLEAR, ID#202311011500, Page 3 of 11]

U.S. Department of Health and Human Services Health Sector Cybersecurity Coordination Center (HC3) <u>www.HHS.GOV/HC3</u>





format of the entire appended portion was the same as Phobos, which included an ID section, an email address, and the file extension.

C:\\$Recycle.Bin\S-1-5-18\desktop.ini.id[584D2235-3483].[support@rexsdata.pro].8base

C:\\$SysReset\Logs\diagwrn.xml.ID-4FEB5D93.[decryptyourfiles@firemail.cc].phobos

Figure 4: An 8Base file extension (top) compared to a Phobos file extension (bottom). (Source: VMWare)

Technical Details

8Base ransomware payloads will enumerate all available local drives, encrypting standard data file extensions in a rapid and efficient manner using AES256 in CBC mode. Any attached share or drive volume will be subject to the encryption process. Once encrypted, files will have the .8base extension appended to them, at times accompanied by the victim ID and attacker email address.

Local firewall rules will be modified with the following command, issued by the ransomware: netsh advfirewall set currentprofile state off.

The above command allows the threat actor to evade Windows Defender's Advanced Firewall capabilities. The ransomware will attempt to remove Volume Shadow Copies (VSS) via the following commands: vssadmin.exe delete shadows /all /quiet wmic shadowcopy delete.

Payloads have been observed attempting either one or both of these methods: WMIC and VSSADMIN. In addition, BCDEDIT.EXE is used to modify the infected host's startup policy, disabling recovery mode and related features via the following: bcdedit /set {default} bootstatuspolicy ignoreallfailures.

Persistence is achieved via entries in the Windows Startup folder and in the registry. For example, a copy of the ransom payload will be written to: %AppData%\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\

This is in addition to writing copies of itself to %AppData%\Local\ and other locations deemed necessary by the threat actors. 8Base ransom notes are written to affected folders as both text and .HTA files.

Target Countries and Industries

According to the group's attacks, 8Base mostly targets SMB companies based in the United States, Brazil, and the United Kingdom. Other affected countries include Australia, Germany, Canada, and China, amongst others. Notably, no ex-Soviet or CIS countries have been targeted. While no known correlation to Russia or other Russian-speaking RaaS groups or affiliates exists, this geographic exclusionary pattern is a hallmark for many Russian-speaking threat actors.

When looking at the companies attacked by the group, most of them are SMB companies that operate under the professional services industry, such as accounting, law and legal services, business services, etc. Apart from professional services, companies operating in the fields of manufacturing, construction, finance and insurance, and healthcare industries also seem to be affected to a great extent.





Figure 5: Affected country distribution from 8Base ransomware. (Source: SOCRadar)

Impact to Healthcare and Public Health Sector

The leak site associated with this ransomware group contains posts that can be traced back to March 2022, indicating that the group has potentially been active for at least a year without publicly disclosing its victims. It is worth noting that the group's Telegram channel was only created in May 2023, suggesting that they may have recently started to publicly disclose their victims. Since their first known activity back in March 2022, the group remained relatively quiet, with few notable attacks. However, in June 2023, the ransomware operation saw a sharp increase in activity, targeting many companies in various industries, including the HPH sector.

MITRE ATT&CK Techniques

ffice of

Information Security

ecuring One HHS

Several cybersecurity researchers have annotated specific MITRE ATT&CK techniques.

| MITRE ATT&CK TTPs of 8Base Ransomware (Source: SOCRadar) | | |
|--|--|--|
| Basannaisaanaa | Active Scanning (T1595) | |
| Reconnaissance | Phishing for Information (T1598) | |
| Posouroo Dovolonmont | Acquire Infrastructure (T1583) | |
| Resource Development | Develop Capabilities (T1587) | |
| Initial Access | Phishing: Spearphishing Attachment (T1566.001) | |
| | Scheduled Task/Job (T1053) | |
| Execution | Command and Scripting Interpreter (T1059) | |
| | Shared Modules (T1129) | |
| | Scheduled Task/Job (T1053) | |
| Persistence | Boot or Logon Autostart Execution (T1547) | |
| | Registry Run Keys/Startup Folder (T1547.001) | |
| | Scheduled Task/Job (T1053) | |
| Privilege Escalation | Boot or Logon Autostart Execution (T1547) | |
| | Registry Run Keys/Startup Folder (T1547.001) | |
| Defense Evasion | Masquerading (T1036) | |

[TLP:CLEAR, ID#202311011500, Page 5 of 11]

Health Sector Cybersecurity Coordination Center (HC3) <u>www.HHS.GOV/HC3</u>





| | File Deletion (T1070.004) |
|---------------------|--|
| | Modify Registry (T1112) |
| | Indirect Command Execution (T1202) |
| | File and Directory Permissions Modifications (T1222) |
| | Virtualization/Sandbox Evasion (T1497) |
| | Impair Defenses (T1562) |
| | Disable or Modify Tools (T1562.001) |
| | Disable or Modify System Firewall (T1562.004) |
| | Hide Artifacts (T1564) |
| | Hidden Files and Directories (T1564.001) |
| Cradantial Access | OS Credential Dumping (T1003) |
| Credential Access | Input Capture (T1056) |
| | Process Discovery (T1057) |
| | System Information Discovery (T1082) |
| Discovery | File and Directory Discovery (T1083) |
| | Virtualization/Sandbox Evasion (T1497) |
| | Security Software Discovery (T1518.001) |
| Lateral Movement | Taint Shared Content (T1080) |
| | Data from Local System (T1005) |
| Collection | Input Capture (T1056) |
| Collection | Data Staged (T1074) |
| | Archive Collected Data (T1560) |
| Command and Control | Application Layer Protocol (T1071) |
| | Web Protocols (T1071.001) |
| Exfiltration | Exfiltration Over C2 Channel (T1041) |
| Impact | Data Destruction (T1485) |
| impact | Inhibit System Recovery (T1490) |

| MITRE ATT&CK TTPs of 8Base Ransomware (Source: VMWare) | | |
|--|--|---|
| Tactic | Technique | Description |
| TA00003 Persistence | T1547.001 Registry Run Keys / Startup Folder | Adds the following: %AppData%\Local\{malware} %ProgramData%\Microsoft\Windows\Start Menu\Programs\Startup\{malware} %AppData%\Roaming\Microsoft\Start Menu\Programs\Startup\{malware} |
| TA0007 Discovery | T1135 Network Share Discovery | Uses WNetEnumResource() to crawl network resources |
| TA0004 Privilege Escalation | T1134.001 Token Impersonation/Theft | Uses DuplicateToken() to adjusts token privileges |
| TA0005 Defense Evasion | T1562.001 Disable or Modify Tools | Terminates a long list of processes, which are a mix of commonly used applications (example: MS Office applications) and security software. |
| TA0005 Defense Evasion | T1027.002 Obfuscated File or Information: Software Packing | SmokeLoader unpacks and loads Phobos to memory |

[TLP:CLEAR, ID#202311011500, Page 6 of 11]





| TA0040 Impact | T1490 Inhibit System Recovery | Runs: wmic shadowcopy delete wbadmin delete catalog -quiet vssadmin delete shadows /all /quiet bcdedit /set {default} recoveryenabled no bcdedit /set {default} bootstatuspolicy ignoreallfailures |
|---------------|------------------------------------|---|
| TA0040 Impact | T1486 Data Encrypted for Impact | Uses AES to Encrypt Files |

| MITRE ATT&CK TTPs of 8Base Ransomware (Source: Avertium) | | | | | | |
|--|---|----------------------|--------------------|-----------------|--|--|
| Persistence | Discovery | Privilege Escalation | Defense Evasion | Impact | | |
| T1547.001: Registry | T1135: Network | T1134.001: Token | T1562.001: Disable | T1490: Inhibit | | |
| Run Keys/Startup | Share Discovery | Impersonation/Theft | or Modify Tools | System Recovery | | |
| Folder | Folder | | | | | |
| | | | T1027.002: | T1486: Data | | |
| | Obfuscated File or Encrypted for Impact | | | | | |
| | Information: Software | | | | | |
| | | | Packing | | | |

Indicators of Compromise (IOC)

| 8Base IOCs (Source: SOCRadar) | |
|-------------------------------|--|
| IOC Type | IOC |
| URL | hxxp[:]//dexblog45[.]xyz/statweb255/ |
| URL | hxxp[:]//sentrex219[.]xyz/777/mtx5sfN.exe |
| URL | hxxp[:]//sentrex219[.]xyz/777/skx2auB.exe |
| IP | 45.131.66[.]120 |
| IP | 45.89.125[.]136 |
| FileName | 8A26.exe |
| FileName | 8B7F.exe |
| Hash | 9769C181ECEF69544BBB2F974B8C0E10 |
| Hash | 5D0F447F4CCC89D7D79C0565372195240CDFA25F |
| Hash | E142F4E8EB3FB4323FB377138F53DB66E3E6EC9E82930F4B23DD91A5F7BD45D0 |

| 8Base IOCs (Source: VMWare) | | |
|---|-------|-----------------------|
| Indicator | Туре | Context |
| 518544e56e8ccee401ffa1b0a01a10ce23e49ec21ec441c6c7c3951b01c1b19c | SHA- | 8Base Ransomware |
| | 256 | (Phobos variant) |
| | SHA- | 8Base ransom note |
| 2001 4200301 4010406D3D366D1D03D34301 3DD0401 31343200202301 034134D0 | 256 | (RansomHouse variant) |
| 20110555501220005002458868844056 | MDE | 8Base ransom note |
| 20110FF350A2290C3992A5BB0BB44050 | ND5 | (RansomHouse variant) |
| | | 8Base ransom note |
| SD2BU88A397E9C7E9AD13UE178F883FEEBD9088B | SHA-T | (RansomHouse variant) |
| | | 8Base ransomware |
| 614214666p31p43231p3771361330p6656666366233014p230031a317p04300 | 256 | (Phobos variant) |
| 5d0f447f4ccc89d7d79c0565372195240cdfa25f | | 8Base ransomware |
| | | (Phobos variant) |
| 9769c181ecef69544bbb2f974b8c0e10 | MD5 | 8Base ransomware |
| | | |

[TLP:CLEAR, ID#202311011500, Page 7 of 11]

U.S. Department of Health and Human Services Health Sector Cybersecurity Coordination Center (HC3) www.HHS.GOV/HC3





| | | (Phobos variant) |
|--|----------------|--------------------------------------|
| C68D588E14551E889988E4DEC86942581D2882442815914688C28316E6E14464 | | 8Base ransomware |
| 000000000000000000000000000000000000000 | 256 | (Phobos variant) |
| 518544E56E8CCEE401FFA1B0A01A10CE23E49EC21EC441C6C7C3951B01C1B19C | SHA- 256 | 8Base ransomware (Phobos variant) |
| AFDDEC37CDC1D196A1136E2252E925C0DCFE587963069D78775E0F174AE9CFE3 | SHA- 256 | 8Base ransomware (Phobos variant) |
| | Data | 8Base ransomware |
| wlaexfpxrs[.]org | POST to | referred domain (Phobos |
| | URL | variant) |
| | Data | |
| admhexlogs25[.]xvz | GET | 8Base ransomware |
| | request | referred domain |
| | to URL | |
| | Data | 8Baso ransomwaro |
| admlogs25[.]xyz | request | referred domain |
| | to URL | |
| | Data | |
| edmler@[]hr.z | GET | 8Base ransomware |
| aumogzį.jxyz | request | referred domain |
| | to URL | |
| | Data | |
| dnm777[.]xvz | GET | 8Base ransomware referred domain |
| | request | |
| | LO URL Data | |
| serverlogs37[]xvz | POST to | 8Base ransomware |
| | URL | referred domain |
| | File | 8Base ransomware |
| 9f1a.exe | Name | dropped file |
| deff ava | File | 8Base ransomware |
| | Name | dropped file |
| 3c1e exe | File | 8Base ransomware |
| | Name | dropped file |
| | Data | 0.5 |
| dexblog[.]xyz | GEI | 8Base ransomware |
| | to LIRI | reieneu uomain |
| | Data | |
| | GET | 8Base ransomware |
| DIOgStat355[.]XYZ | request | referred domain |
| | to URL | |
| | Data | |
| blogstatserv25[.]xvz | GET | 8Base ransomware |
| | request | reterred domain |
| | to URL | |

| | 8Base IOCs (Source: Avertium) | |
|---------|--|--|
| SHA-256 | 518544e56e8ccee401ffa1b0a01a10ce23e49ec21ec441c6c7c3951b01c1b19c | |
| | 5BA74A5693F4810A8EB9B9EEB1D69D943CF5BBC46F319A32802C23C7654194B0 | |
| | e142f4e8eb3fb4323fb377138f53db66e3e6ec9e82930f4b23dd91a5f7bd45d0 | |
| | 5d0f447f4ccc89d7d79c0565372195240cdfa25f | |

[TLP:CLEAR, ID#202311011500, Page 8 of 11]

U.S. Department of Health and Human Services Health Sector Cybersecurity Coordination Center (HC3) www.HHS.GOV/HC3





| | C6BD5B8E14551EB899BBE4DECB6942581D28B2A42B159146BBC28316E6E14A64 |
|-----------|--|
| | 518544E56E8CCEE401FFA1B0A01A10CE23E49EC21EC441C6C7C3951B01C1B19C |
| | AFDDEC37CDC1D196A1136E2252E925C0DCFE587963069D78775E0F174AE9CFE3 |
| MDE | 20110FF550A2290C5992A5BB6BB44056 |
| MDS | 9769c181ecef69544bbb2f974b8c0e10 |
| | wlaexfpxrs[.]org |
| | admhexlogs25[.]xyz |
| | admlogs25[.]xyz |
| | admlog2[.]xyz |
| URLs | dnm777[.]xyz |
| | serverlogs37[.]xyz |
| | dexblog[.]xyz |
| | blogstat355[.]xyz |
| | blogstatserv25[.]xyz |
| File Name | 3c1e.exe |
| | d6ff.exe |
| | 9f1a.exe |

Defense and Mitigations

Detecting 8Base ransomware requires a combination of technical and operational measures designed to identify and flag suspicious activity on the network. This allows the organization to take appropriate action, and to prevent or mitigate the impact of the ransomware attack. It is important to take a multi-layered approach, which includes the following steps:

- 1. Use anti-malware software or other security tools capable of detecting and blocking known ransomware variants. These tools may use signatures, heuristics, or machine learning algorithms to identify and block suspicious files or activities.
- 2. Monitor network traffic and look for indicators of compromise, such as unusual network traffic patterns or communication with known command-and-control servers.
- **3.** Conduct regular security audits and assessments to identify network and system vulnerabilities, and to ensure that all security controls are in place and functioning properly.
- **4.** Educate and train employees on cybersecurity best practices, including identifying and reporting suspicious emails or other threats.
- 5. Implement a robust backup and recovery plan to ensure that the organization has a copy of its data and can restore it in case of an attack.

Some best practices for protecting against 8Base and mitigating the impact of a successful attack include:

- Educate employees: Employees should be educated on the risks of ransomware, and on how to identify and avoid phishing emails, malicious attachments, and other threats. They should be encouraged to report suspicious emails or attachments, and to avoid opening them, or clicking on links or buttons in them.
- Implement strong passwords: Organizations should implement strong, unique passwords for all user accounts, and should regularly update and rotate these passwords. Passwords should be at least eight characters long and should include a combination of uppercase and lowercase letters, numbers, and special characters.





- Enable multi-factor authentication: Organizations should enable multi-factor authentication (MFA) for all user accounts, to provide an additional layer of security. This can be done using mobile apps like Google Authenticator or Microsoft Authenticator, or by using physical tokens or smart cards.
- **Update and patch systems:** Organizations should regularly update and patch their systems to fix any known vulnerabilities and to prevent attackers from exploiting them. This includes updating the operating system, applications, and firmware on all devices, and disabling any unnecessary or unused services or protocols.
- Implement backup and disaster recovery: Organizations should implement regular backup and disaster recovery (BDR) processes to ensure that they can recover from ransomware attacks or other disasters. This includes creating regular backups of all data and systems, and storing these backups in a secure, offsite location. The backups should be tested regularly to ensure that they are working, and that they can be restored quickly and easily.

The Way Forward

8Base may be new to the cyber threat landscape, but in its short existence, it has proven to be a formidable adversary. Any disruption to an organization's operations can lead to severe consequences, especially to the HPH sector. Whether it is affiliated to or an off-shoot of other threat actors, 8Base's focus on data exfiltration instead of file encryption highlights the need to prioritize cyber security best practices, and prevent unauthorized access to an organization's systems and networks. The value of HPH data, in particular, signals that the healthcare industry will remain a viable target to this threat actor. In addition to the aforementioned defense and mitigation strategies, HC3 recommends that HPH organizations utilize resources from <u>CISA Stop Ransomware</u>, <u>HHS 405(d)</u>, and the <u>H-ISAC</u> to proactively and reactively aid healthcare organizations with cybersecurity awareness and guidance. The probability of cyber threat actors targeting any industry remains high, but especially so for the Healthcare and Public Health sector. Prioritizing security by maintaining awareness of the threat landscape, assessing their current situation, and providing staff with the tools and resources necessary to prevent a cyberattack remain the best ways forward for healthcare organizations.

Relevant HHS Reports

HC3: Analyst Note - Healthcare Sector DDoS Guide (February 13, 2023)

References

"8Base claims to have stolen patient data and employee info from Kansas Medical Center." DataBreaches.net July 11, 2023. <u>https://www.databreaches.net/8base-claims-to-have-stolen-patient-data-and-employee-info-from-kansas-medical-center/</u>

"8Base Ransomware: In-Depth Analysis, Detection, and Mitigation." SentinelOne. Accessed October 23, 2023. <u>https://www.sentinelone.com/anthology/8base/</u>

Abraham, Jorg. "8Base Ransomware Surge; SmugX Targeting European Governments, Russian-Linked DDoS Warning." EclecticIQ. July 5, 2023. <u>https://blog.eclecticiq.com/8base-ransomware-surge-smugx-targeting-european-governments</u>





"Dark Web Profile: 8Base Ransomware." SOCRadar. July 27, 2023. <u>https://socradar.io/dark-web-profile-8base-ransomware/</u>

"The Double Extortion Group, 8Base." Avertium. August 1, 2023. https://explore.avertium.com/resource/the-double-extortion-group-8base

Medium User: Intidhar. "Threat Actors Series: 8Base." Medium. July 2, 2023. https://medium.com/@intidhar/threat-actors-series-8base-4425e5640e62

Khaitan, Ashish. "8Base Ransomware Group Conducts Arbitrary Cyber Attacks, Enlists 7 New Organizations as Victims." The Cyber Express. July 13, 2023. <u>https://thecyberexpress.com/8base-ransomware-group-cyber-attack-series/</u>

Lakshmanan, Ravie. "8Base Ransomware Spikes in Activity, Threatens U.S. and Brazilian Businesses." The Hacker News. June 28, 2023. <u>https://thehackernews.com/2023/06/8base-ransomware-spikes-in-activity.html</u>

"Oregon Sports Medicine allegedly hit by 8Base threat actors." DataBreaches.net. August 8, 2023. <u>https://www.databreaches.net/oregon-sports-medicine-allegedly-hit-by-8base-threat-actors/</u>

Osborne, Charlie. "Ransomware attacks broke records in July, mainly driven by this one group." ZDNet. August 23, 2023. <u>https://www.zdnet.com/article/ransomware-attacks-broke-records-in-july-mainly-driven-by-this-one-group/</u>

Riley, Duncan. "Canadian dental service pays ransom in 8base ransomware attack." Silicon Angle. August 13, 2023. <u>https://siliconangle.com/2023/08/13/canadian-dental-service-pays-ransom-8base-ransomware-attack/</u>

Snyder, Deborah and Fae Carlisle, Dana Behling, Bria Beathley. "8Base Ransomware: A Heavy Hitting Player." VMWare. June 28, 2023. <u>https://blogs.vmware.com/security/2023/06/8base-ransomware-a-heavy-hitting-player.html</u>

Telegram User: 8Base. Telegram. Accessed October 23, 2023. https://t.me/eightbase

Toulas, Bill. "8Base ransomware gang escalates double extortion attacks in June." BleepingComputer. June 28, 2023. <u>https://www.bleepingcomputer.com/news/security/8base-ransomware-gang-escalates-double-extortion-attacks-in-june/</u>

X User: @8BASEHOME. Twitter. Accessed October 23, 2023. https://twitter.com/8BASEHOME

Contact Information

If you have any additional questions, we encourage you to contact us at <u>HC3@hhs.gov</u>.

We want to know how satisfied you are with the resources HC3 provides. Your answers will be anonymous, and we will use the responses to improve all future updates, features, and distributions. Share Your Feedback