Analysis of the Internet 2.0 Cloaking Firewall Version: 15th of October 2023 Date:



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Document Control

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0.1	20 AUG 2023	Caleb House, Edward Farrell,	Originated
0.2	18 SEP 2023	Sick Codes, Oliver Judson	Technical QA and further research
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1.0	11 OCT 2023	Caleb House, Edward Farrell	Appendices B3-B6 added based on internal feedback. Report approved for public release.
1.1	1E OCT 2022	Edward Farrell	Minor update- broken URL. Added additional URL to illustrate how far behind patching is. Removed AWS/OPNSense observation from
1.1	15 OCT 2023	Edward Farrell	Azure related finding.

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Executive Summary

Internet 2.0 is a joint US and Australia cyber security organisation whose stated mission is to defend clients and partners from the most advanced threats. Internet 2.0's core products include the Internet 2.0 Cloaking Firewall, Malcore and 5th Column. In July of 2023 Internet 2.0 published an update to content relating to their Cloaking Firewall. The firewall has been a flagship of the organisations product suite and advertises itself as a unique, patented innovation within the cyber security ecosystem "through our state of the art Obfuscation 2.0 technology".¹

Mercury Information Security Services (Mercury) conducted independent analysis of the Internet 2.0 Cloaking Firewall to assess the products security claims, security controls and innovation, the findings of which are system detailed below. This assessment incorporated an analysis of backups generated by Mercury in concert with open-source information.

Key findings

Mercury's assessment of the Cloaking Firewall identified two separate products that appeared to be made up entirely of existing software solutions with limited configuration changes. The presence of default credentials, an unmaintainable application, alongside the absence of hardening guidance for consumers or documentation increased the overall risk profile. A more configurable, easy to use system with lower operational costs and risks could be achieved if consumers employ the technologies on which both products are based on.

Internet 2.0 provided a response to our vulnerability disclosure which was inconsistent with our observations of the systems and Internet 2.0s marketing. As the issue is unlikely to be remediated and our current observations with the vendors approach to vulnerability disclosure, Mercury has published its analysis.

Key observations include:

- 1. **Azure instance** Mercury's analysis of the Cloaking Firewall identified that the product in Azure is based largely on an unlicenced version of pfSense Plus, with no additional software, code or unique packages beyond changes to its web interface. Further to this a lack of updates applied over the past 2 years, the existing left over SSH keys, root passwords and information disclosure raised the systems overall risk profile. As patching and configuration is not possible in the current state, a number of these issues may prove challenging to remediate. 4 CVEs have been identified in this product.
- 2. **AWS Instance** The AWS instance appears to be an up to date and hardened instance of OPNSense. Having stated this, the absence of stated features such as machine learning as well as another Internet 2.0 product (Malcore) was observed. It may be possible to enumerate AWS instances through the products use of a static OpenVPN port.
- 3. **Patent Claim** During our analysis of the Azure instance of the Cloaking Firewall, no unique innovations, code, binaries or innovations were observed. The Internet 2.0 patent application has lapsed and may not be applicable.

Conclusion & recommendations

Whilst both offerings employ existing software solutions and perform firewall related functions, end users may wish to consider the intent of their use as well as greater support and value for money though the existing products on which both solutions are based.

¹ https://web.archive.org/web/20200916122330/https://www.internet2-0.com/



Cloaking Firewall (Azure instance)

Summary

The Internet 2.0 Cloaking Firewall has been advertised as a hardened system that "disappears your servers and cloud infrastructure from the internet. It no longer appears too [sic] aggressive, deep scanning bots or those running frequent mass port scans".² The product is advertised as a significantly hardened pfSense with additional security measures implemented. Mercury backed up the Azure instance of the firewall and conducted its analysis below.

Method of backing up the firewall

To back up the firewalls hard drive, Mercury instantiated a version in Azure from the following link: https://azuremarketplace.microsoft.com/en-us/marketplace/apps/internet20inc1635882446190.i20-cloaking-firewall-001?tab=overview

Mercury backed this system up employing the following steps:

- 1. Backup the entire VHD following Microsoft's advice.
- 2. Convert the VHD into a VMDK using the following command
 - a. qemu-img convert -f vpc -O vmdk source.vhd destination.vmdk
- 3. Instantiate a new virtual machine with the same hard drive size as the VHD
- 4. Replace the virtual machines VMDK with the VMDK generated in step 2
- 5. Launch the virtual machine.

This action took place on the 1st of August 2023 and again on the 7th of September to verify if credentials and other parameters were hardcoded or set as part of instantiation.

Analysis of hard drive artefacts

During our analysis of our backup, Mercury observed the following:

- 1. The Operating system is FreeBSD Version 12.2-STABLE. Mercury notes this OS is out of date and, in comparison with the dates with which content was generated, appears to have been built whist 3 months out of date.
- 2. pfSense version 21.05.2 is the primary application running on the Internet 2.0 Cloaking Firewall. This appears to be a version of pfSense Plus, however it is several versions behind. Other applications and software were identified and detailed in the Bill of materials below.
- 3. The version of Suricata installed is 6.0.4. This application is also several iterations behind and missing critical patches.
- 4. Historical files from development (Approved SSH key in developers home directory) were also observed.

Beyond images, CSS and HTML referencing Internet 2.0 or the individual artefacts stipulated above, no unique software, applications or proprietary material was identified on the hard drive. Several IP's appear to be automatically denied, however, these appear to come from a set of publicly available lists as well and do not contain any unique insights. The contents of the system are largely open-source packages and software that have been provided in the bill of materials below.

Analysis of the Internet 2.0 Cloaking Firewall

² https://azuremarketplace.microsoft.com/en-us/marketplace/apps/internet20inc1635882446190.i20-cloaking-firewall-001?tab=overview



Software Bill of Materials (high level)

As part of Mercury's analysis, the following Bill of Materials was generated from the installed packages via package management. During this generation we identified the following key components were observed to be out of date including:

FreeBSD Version: 12.2-STABLEpfSense Plus Version: 21.05.2

Suricata 6.0.4

Python Version: 3.8

While it is possible to update pfSense Plus using the command line interface or the web portal, this only updates pfSense Plus and not FreeBSD, Suricata or Python. A more expansive bill of materials has been provided in the appendices however an exhaustive assessment of risk against these items has not taken place.

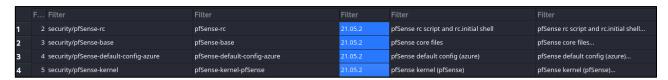


Figure: Identified pfSense files

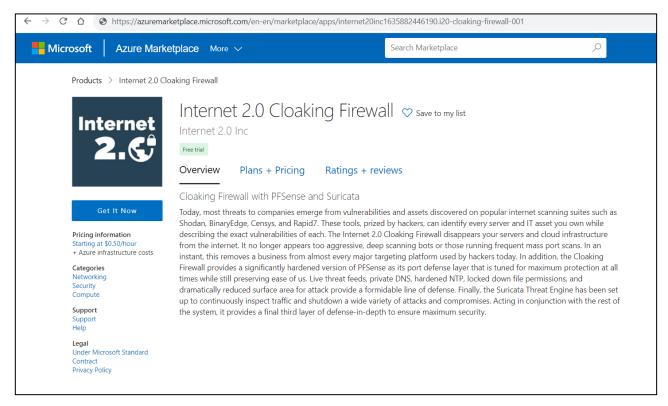


Figure: Marketplace offering as it appeared on the 7th of October 2023

Reinforcing the absence of patching has been the presence of the following artefacts in /root/.cache/pip/selfcheck/0a10f0265722f9a57bbf905d8bf4f3733fa9a7c3e4d8a80438e0686e illustrated below.

{"key":"/root/lib/azure-cli","last_check":"2021-12-08T00:14:25Z","pypi_version":"21.3.1"}



Vulnerabilities

Proprietary software being used without licence (CVE-2023-44051) CWE: CWE-1329

The Azure version of the Cloaking Firewall appears to be using pfSense Plus, which requires a licence. pfSense Plus is Netgate's commercial fork of the pfSense project. The version used in the Cloaking Firewall is out of date, and there does not appear to be any indication that the product is licenced or supported by the vendor. As the admin panel was inaccessible, Mercury has only been able to qualify this through its analysis of the file system. Our analysis has identified that:

- 1. The Netgate Device ID stored in /var/db/uniqueid is consistent across both instances acquired from Azure (ID is 61fc9a3274fa10b0aa3c). This is required for unique device enrolment. Mercury understands a unique key is meant to be generated on instantiation, based on a unique MAC address, this may suggest that the disk image has been cloned.
- 2. The log at /cf/conf/upgrade_log.txt provided an error of "unable to compare version of pfSense-repo" which indicates an error with patching. Our analysis of the help forums indicates that as a result of this message, the system can only be updated by getting the software licenced through the web console.

As pfSense Plus has not been updated since 2021 and does not appear to be maintainable without a software licence. This limits sustained support, enhancements, and updates for the product. Of note, several security patches were released and cannot be applied:

- https://docs.netgate.com/pfsense/en/latest/releases/22-01 2-6-0.html
- https://docs.netgate.com/pfsense/en/latest/releases/versions.html#x

As licencing the product requires a login which is not a default credential or available to the end user to access the admin interface, and factoring in the device ID issue, it is likely that in the normal course of operation of the system the Cloaking Firewall will not be maintainable by the end user.

Public vulnerabilities in Suricata (CVE-2023-44052)

CWE: CWE-1395

A vulnerable instance of In Suricata was observed on the Azure instances of the Cloaking Firewall. before version 6.0.13 of Suricata, a vulnerability is present that may allow an adversary who controls an external source of Lua rules may be able to execute Lua code. This is addressed in 6.0.13 by disabling Lua unless allow-rules are true in the security Lua configuration section (CVE-2023-35853)³.

Lua rules are disabled in the default state of the provided instance and do not pose an immediate risk. Should Lua rules be enabled this could be exploited as part of 3rd party attacks against supporting infrastructure.

SSH key left in place (CVE-2023-44049)

CWE: CWE-798

User Dan Ehrlich, who left Internet 2.0 in February of 2021 according to LinkedIn, has two authorised SSH keys present for the danehrlich and azureuser accounts. These keys have been in place for nearly 2 years. As the associated key is also used in a generic account, this key erodes positive assurance that unauthorised access has not taken place against any azure based instances of the system. Both keys have been illustrated below and were observed on both created systems.

³ https://nvd.nist.gov/vuln/detail/CVE-2023-35853



ssh-rsa

AAAAB3NzaClyc2EAAAADAQABAAABgQDHR51CNyqXShD9zJpElo73ZUQJ8ZDlvPjFg0BZd6f3X oD5q39gzxPEiiCSJgYyQ5yyDWiVM838a4dE0Q3C6Ys+dugjGk61pogphQ8kH/oBJtdKDsbksPSU6 4pQ1BAVFdlaDpe4vjukV4lJXN65xg5naA0BtTFUXkxfAl00afdkCD501byoJCDhdiTKeQA+wukPun YfsQcp+lyoVbPi06MlYNyP7G0rnMftRi9sdV6rzY8hLEn6xcbME2XTPltAXr+GjdBleGSTnRQnkMD8 vF3dDnsT5qW6HdLDUiJkz9hJ4JHm9UvDaAsh3UO9O5RCEgAet5NbXKT9B8jUSVTtW5bTeh7FO tNWrgzXJuFx7mR9ZsZFKq0sDocR4gq58GRkfE7lr5h7tylJu3CNfDQQkeaSZYXIV4qD7GmFx2iZu RzsglLr+AaXmn7YLETD8L1DRca17pphf8aAbHog/5fNm7QTPxQ66s9wPalUOklfWlo9QE1G6clL5B MV8D3iKw9MDZE=

Figure: output from /home/danehrlich/.ssh/publickeys (last modified 8th of December 2021)

ssh-rsa

AAAAB3NzaClyc2EAAAADAQABAAABgQD45FUqetjc5AXPx4+YKgGBlhfVzx4O7k9e7gHcTsb7ge Csw0k6Pchn65d/JmcJ97q5ZbwequSPZrWOehbnYp3xma56zeCt5FELrej5z7Sjr9bWFOM5q7OLZ pn75SiYjW3w609w0+cKeCaVedU68KHcOf4tt9wXBZYPCtWXrUcFhPKFY8bFhpqpLbltljXfxy2l0o iPDRJIErOlqaHNCDmeFVwC7dZWhSbgf74lAaiF0nFtTNgHxUjtlR8liH9DGyFtUxiFtO4 M0YoMR5S9Zap5r94e2SDjkHp6glvwaTJkoTAzWJOKOLAtJIlucCPA/bONFmOEk5Dby7m95GnBgQZWPiN0kMGElloQcdVWll38Eu4cz4BGyACE6lJG14DYtoK0iD erylebY7qJiQQ2ZZHKeMWUXA4Xfv8Y7MHBmI+IHcWoW7ooBo7Sxf0tc89etdE2Rny/e/wr+YkphLC0cEFDl4B5wkjvyPnZaUGeGrM5BirlG/2AtQY5h9VdipGWajs=danehrlich@ntwindows5.local

Figure: output from /home/azureuser/.ssh/publickeys. This key is also base64 encoded in the config.xml file (last modified on system creation, indicating key still in use)

Enabled root password account (CVE-2023-44050)

CWE: CWE-798

An administrator account and a root account which make up part of pfSense were observed to have had the default password (pfSense) changed to one chosen by Internet 2.0. were both observed as being active within the system and it appears that login is still enabled. These accounts and their /etc/shadow parameters have been detailed below and were consistent across 2x separate instances of the firewall extracted from Azure downloaded on separate months. The extract from each file has been illustrated below.

root:\$2y\$10\$O/JvoZLcvhTukFtQBIUP3epIIZcawF897JmRVAz94STUfOTkPSvzG:0:0::0:0:Charlie &:/root:/bin/sh

admin:\$2y\$10\$O/JvoZLcvhTukFtQBIUP3epIIZcawF897JmRVAz94STUfOTkPSvzG:0:0:0:0:System Administrator:/root:/etc/rc.initial

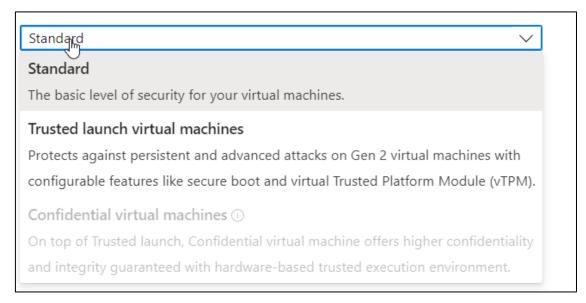
Figure: enabled root account and admin account. The password on both accounts is shared.



Other observations

Azure security controls cannot be implemented

When creating the system in Azure, it is not possible to select a security type above Standard, which impacts the risk profile for certain users.



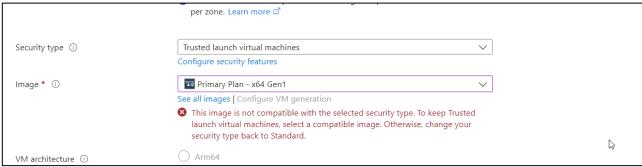


Figure: Azure security controls for trusted/confidential launch cannot be set

Expired/Default Certificates & Keys

Certificates on both the instantiated Azure systems appeared to be the same for the web interface and VPN server. These certificates were self-signed and expired. No documentation on replacing certificates was observed. Similarly, SSH keys were also default and not updated. As the private keys of both can be extracted, these could be used as part of phishing attacks under specific requirements. Awareness of their contents enabled enumeration of systems on the internet has been illustrated in OSINT analysis of public exposure.

IP address disclosure

The contents of /cf/conf/backup/backup.cache identified a login from IP address 203.220.177.89, using the administrator account during the month of January 2022. This IP address was observed throughout the downloaded instances. The IP address is located in Brisbane.

Version control

In the process of documenting the CVEs above, Mercury attempted to ascertain a unique version number of the product which was not available in the information available. As such, we have documented this as v2023 to support vulnerability identification.



Cloaking Firewall (AWS instance)

Summary

The Cloaking Firewall is advertised on AWS as a hardened repackaged version of the OPNSense Firewall. Internet 2.0 have advertised that:

- 1. This firewall presents an innovative and more cost-effective cybersecurity solution, as it eliminates the potential for an attack on your network in the first place.
- 2. As a highlight, Machine learning and Malcore analysis [are present] to process threats at the edge and deliver insights and alerts before any other security technology.
- 3. Cloaking technology to disappear from all internet-based scanners⁴.

Mercury backed up the AWS instance of the firewall and conducted its analysis below.

Method of backing up the firewall

Mercury backed up the AWS firewall with the following method:

- 1. Instantiate an AWS instance of the Internet 2.0 Cloaking Firewall
- 2. Take a volume snapshot of the firewall
- 3. Create an instance of OPNSense with 43GB
- 4. Restore the volume snapshot as a new drive and attach to OPNSense instance.
- 5. Back up /dev/nvd1p1 to ./i20_AWS.iso
- 6. download i20_AWS.iso

This process took place on the 8th of September 2023.

Software Bill of Materials (high level)

As part of Mercury's analysis, the following Bill of Materials was generated from the installed packages via package management. During this generation we identified the key components of OPNSense were present and, whilst some patches were missing, these did not present a security risk. It appears that the OPNSense instance was created during August of 2023 and configured throughout the month. A more expansive bill of materials has been provided in Appendix B6: Software Bill of Materials. Initial analysis suggests multiple packages in excess of what is required remain on the system however this will be the subject of future review.

⁴ https://aws.amazon.com/marketplace/pp/prodview-a6g5edkhv3kuo



Observations & configuration analysis

Positive observations

The root account appeared to be disabled and existing keys were removed. The system, which appears to have been published in the past 4 weeks, is largely up to date. However, several release increments (not relating to security vulnerabilities) were published during the time of analysis.

Information disclosure- origin IP addresses

The configuration logs identified a root login during August 2023 from the following IP addresses:

- 118.208.201.70- TPG Gold Coast IP address (see below)
- 1.146.104.143- Telstra IP address in Brisbane.
- 103.109.113.14- Sovereign Cloud Canberra

The address on the Gold Coast did have an exposed service as illustrated below.

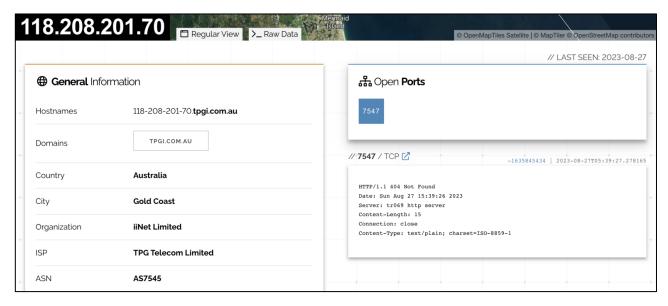


Figure: shodan output for 118.208.201.70

Default Keys & Certificates

The default OpenVPN certificates, SSH Keys and private keys for HTTPS are still in place. This does not present an immediate risk however these should be changed should a user employ the Cloaking Firewall.



Unique UDP port for OpenVPN

During our analysis Mercury identified the default OpenVPN UDP port at 12120. Compared to the usual port of 1194 for OpenVPN. This port is expected to be static across all new instances of the AWS Cloaking Firewall. The use of a static port that cannot be hidden amongst other OpenVPN servers may facilitate the identification of instances of the Cloaking Firewall, as well as enable the identification of end users should traffic be intercepted, and default keys reused to target end users. These rules have been illustrated below:

```
7e319788-bbc2-423b-b807-19d0becde859">
  <enabled>1</enabled>
  <name>PORT_WebGUI</name>
  <type>port</type>
  <proto/>
  <interface/>
  <counters>0</counters>
  <updatefreq/>
 <content>2000</content>
  <categories>8af11dc7-bb9e-470b-9f57-539bc157f7dc</categories>
  <description>WebGUI Port</description>
<name>PORT_CFW_RemoteAccess_VPN</name>
<type>port</type>
  <proto/>
  <interface/>
  <counters>0</counters>
  <updatefreq/>
 <content>12120</content>
<categories>8af11dc7-bb9e-470b-9f57-539bc157f7dc</categories>
  <description> loaking Firewall Remote Access VPN Port</description>
<alias uuid="bbaf28f5-4a4c-4480-9f12-d3d8a533096b">
 <enabled>1<name>PORT_LAN1_RemoteAccess_VPN</name>
  <type>port</type>
  o
  <interface/>
  <counters>0</counters>
  <updatefreq/>
  <content>12121</content>
 <categories>8af11dc7-bb9e-470b-9f57-539bc157f7dc</categories>
<description>Remote Access VPN Port for LAN1</description>
</alias>
```

Figure: Firewall rules

Analysis of other file artefacts

A number of other analysis activities took place, the evidence for which has been provided in Appendices B2 to B6. Key observations include:

- 1. Mercury did not observe any indication that Malcore or machine learning were present on the system. Of note, an API call to api.Malcore.io was not observed in the provided system similar to what is present in the Malcore client applications.
- 2. Bash History does not indicate any exhaustive configuration activities have taken place.
- 3. Initial analysis of the start-up scripts and cron jobs do not indicate any custom software or code that would indicate unique innovation are present.

These observations reinforce our deduction that the firewall appears to be a hardened instance of OPNSense.



General observations

Difference and Innovation

Within the Azure instance, the only substantiated difference between the Internet 2.0 Cloaking Firewall and pfSense as a standalone system has been the addition of Suricata, the process of which is detailed in the documentation provided by Netgate:

https://docs.netgate.com/pfSense/en/latest/packages/snort/index.html

As the AWS instance was based on the OPNSense instance provided in the same marketplace, a comparison against file changes identified that additional packages were installed on the Internet 2.0 Cloaking Firewall. No custom or unknown applications were present at the time of writing that would indicate new or innovative products in the AWS instance. Of note, the marketplace description of Internet 2.0s offering discusses the use of Malcore in its defensive posture, however, its presence was not observed during our analysis of the file system, the method for searching for this has been discussed in the Appendices below.

Figure: only variations observed were within the interface and licence agreement

Governance & Service Level Agreements

Internet 2.0 does not provide service level agreements or support options in comparable detail to the other offerings. Of note, pfSense & OPNSense advertise their support functions and pricing, and in the case of pfSense have prescribed service level agreements. Internet 2.0 does not provide any indication of support mechanisms beyond a contact email and a Jira ticketing system, or any indication of cost. Both products also offer ongoing patching which does not appear to be present with Internet 2.0's operating model.

Help manuals and secure configuration guidance

Guidance in securing and maintaining was absent compared to other offerings. pfSense Plus and OPNSense provide support documentation and guidance within their websites.

- 1. https://docs.netgate.com/pfSense/en/latest/solutions/azure-appliance/index.html
- 2. https://docs.opnsense.org/manual/how-tos/installaws.html



Patented technology

Internet 2.0 has continued to advertise as of the 7th of September 2023 that the Cloaking Firewall contains patented technology. No unique technology has been found in the drives analysed. This has been a critical component of the marketing materials, the video outlining the firewall and LinkedIn posts. An example of this is illustrated below:

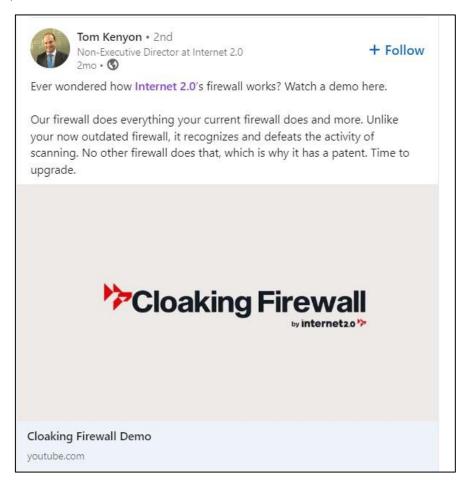


Figure: screenshot of LinkedIn post taken 5th of October 2023

Internet 2.0 filed a provisional patent application in June of 2021 which has since lapsed. Whilst we have not been able to access the patent details, the patent title is "Systems, methods and devices for secure communication" However as illustrated above, no innovative or unique software was observed during our analysis, with most of the systems and methods leveraging existing open-source software. Details on the patent application are available at the following URL:

http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021901725

The OPNSense version discusses the presence of cloaking technologies as well as the presence of Malcore and machine learning, none of which were observed during our analysis.



OSINT analysis of public exposure

Mercury sought to enumerate internet facing instances of the Internet 2.0 Cloaking Firewall. The firewall itself explicitly blocks known scanning engines and malicious sites. It is possible for the firewall to be identified by originating from a location not part of these lists. Mercury did identify instances of the system in the Chinese scanning engine zoomeye, as illustrated below.



Figure: public instance of Internet 2.0 Cloaking Firewall identified (since removed from the internet)



Figure: public instance of Internet 2.0 Cloaking Firewall identified (since removed from the internet)



Cost analysis (Azure)

Calculating the cost per hour on Azure vs the cost of instantiating a separate pfSense firewall, the following annualised costs and observations have been made (not including traffic costs). As illustrated below, Azures in built systems are financially more cost effective to achieve the same solution from a firewall and reporting standpoint, and as discussed above. Additionally, the support mechanisms within Azure and pfSense are far more detailed and provide prescriptive documentation represents value for money.

	Internet 2.0	pfSense+ on Azure	Azure firewall
Min Hourly Cost	50c/hour	8c/hour	39.5c/hour
Min Annualised cost	\$4380 a year	\$700 a year	\$3460.20 a year
Additional support costs	Unknown, assumed to be integrated.	\$399 (pro) to \$799 (Enterprise)	NIL, although additional paid likely to be needed.
Total annual cost	\$4380	\$700 to \$1499 depending on licencing.	\$3460.20
Support options	Via Jira ticketing system	Email/portal, or telephone for enterprise support	NIL- support likely to come from a system integrator.
SLA	SLAs not publicly available	24 to 4 hours engineering support depending on support option selected	Uptime SLA only. Support available from integrators.
Patching and systems maintenance	Cannot be maintained	Manual updates	Automatic updates



Cost analysis (AWS)

A cost analysis on AWS was slightly more comparable given the greater similarity between both products. Analysis of AWS Marketplace identified that between recommended versions, the OPNSense product is far more configurable and nearly half the price if an annual subscription is made.

	Internet 2.0	OPNSense on AWS
Estimated hourly cost	\$0.332/hr (including \$0.16 an hour for SW)	USD \$0.22/hr (including \$0.12 an hour for SW)
	Total pricing per instance for services hosted on	Total pricing per instance for services hosted on m4.large in US
	m5a.xlarge in US East (N. Virginia).	East (N. Virginia). (Source: AWS)
Estimated annual cost	\$3293.76	\$1844 Including savings from annualised purchase.
Support costs and options	Unknown	Support and professional services available here: https://shop.opnsense.com/product-categorie/support/
SLA	SLAs not publicly available	Support available during enteral European time.
Patching and systems maintenance	Manual updates	Manual updates



Vulnerability disclosure, vendor feedback and response

A vulnerability disclosure was released to the vendor on the 30th of September 2023 featuring our observations in the Azure & AWS instances of the system, however our release to the vendor did not include the executive summary, general observations made above or all our appendices that appear in this document. We have also made modifications following disclosure and expanded our analysis.

A follow up contact was made with the vendor on the 5th of October. The following response was received on the 5th of October:

Thanks for the email

The version you emailed us about was our 2021 beta. We thought it had been suspended for use.

Our AWS instance is the only commercially available for purchase cloaking firewall

Figure: email response from vendor 5th of October 2023

Noting the comment that this as a 2021 Beta, Mercury made following observations between the 5^{th} of October and 7^{th} of October 2023:

- 1. The white paper was updated on the 2nd of October since its original update on the 5th of October. This can be observed at the archived pages. The white paper itself is not available from July 2023, and cannot be used to qualify if the AWS instance was or was not the only commercially available instance:
 - a. 26th of September 2023 archive (white paper updated 5th of July 2023): https://web.archive.org/web/20230926144306/https://internet2-0.com/
 - b. 7th of October 2023 archive (white paper updated 2nd of October 2023): https://web.archive.org/web/20231007033710/https://internet2-0.com/
- 2. The Azure marketplace advertises that the Cloaking Firewall was formally released in February of 2022. This is inconsistent with the observation that this was a 2021 product and much less a beta release. This would also imply that the product was released on the marketplace with the known vulnerabilities released between the 28th of October and the 25th of January 2022, over which period 4 security advisories were released:
 - a. Microsoft publication Feb 2022: https://techcommunity.microsoft.com/t5/marketplace-blog-for-partners/azure-marketplace-new-offers-february-24-2022/ba-p/3032248
 - b. Security advisories published by Netgate, noting that 21.05.2 was released October 2021: https://docs.netgate.com/advisories/index.html



- 3. The Azure marketplace instance was still actively advertised on a separate URL on the Internet 2.0 website in August of 2022. https://web.archive.org/web/20220813010502/https://internet2-0.com/solutions/azure-cloaking-firewall/. The Internet 2.0 website links to the instance of the Cloaking Firewall on the Azure marketplace that was the subject of our analysis and is illustrated below. Its presence and active marketing in August 2022 as well as ongoing availability as of October 2023 is inconsistent with the comment that this was a beta version limited to 2021.
 - a. Original URL: https://azuremarketplace.microsoft.com/en-en/marketplace/apps/internet20inc1635882446190.i20-cloaking-firewall-001?tab=overview
 - b. Archived URL: https://web.archive.org/web/20231007033734/https://azuremarketplace.microsoft.com/en-en/marketplace/apps/internet20inc1635882446190.i20-cloaking-firewall-001
 - c. Supporting Media Release:
 https://web.archive.org/web/20230331031758/https://internet2-0.com/media-release-internet-2-0-partners-with-another-cloud-giant-to-offer-next-generation-firewall-services/
- 4. An employee of the company was still advertising the Cloaking Firewall as being available on Azure in October 2023, which is also inconsistent with the above statement.

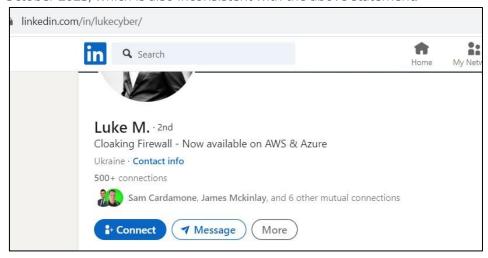


Figure: screenshot of vendor employee profile 5th of October 2023

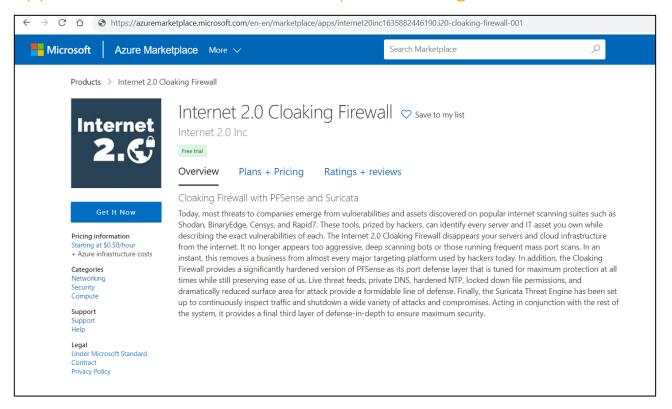
No contest as to our findings was made around the absence of Malcore, machine learning or the presence of a static port.

It is our assessment that the issue itself is unlikely to be remediated given its claimed state as a beta release, the inconsistencies we have observed and the close ended approach to vulnerability disclosure by the vendor. As a result, we have published these findings ahead of normal disclosure timeframes.



Appendix A: Technical details (Azure)

Appendix A1: Screenshot of marketplace offering



Marketplace offering as it appeared on the 7th of October 2023

Appendix A2: Software Bill of Materials

The following software packages were enumerated on the Azure instance of the Cloaking Firewall.

NAME	VERSION	ТҮРЕ
Babel	2.9.1	python
Jinja2	3.0.1	python
MarkupSafe	2.0.1	python
OpenVPN-Installer	1.0.0	dotnet
PyGithub	1.54	python
PyJWT	1.7.1	python
PyNaCl	1.4.0	python
PySocks	1.7.1	python
PyYAML	5.4.1	python
Pygments	2.7.2	python
WALinuxAgent	2.2.54.2	python
adal	1.2.7	python
aiohttp	3.7.4.post0	python
antlr4-python3-runtime	4.9	python
applicationinsights	0.11.10	python



NAME	VERSION	ТҮРЕ
argcomplete	1.12.3	python
async-timeout	3.0.1	python
attrs	21.2.0	python
azure-appconfiguration	1.1.1	python
azure-batch	11.0.0	python
azure-cli	2.29.2	python
azure-cli-core	2.29.2	python
azure-cli-telemetry	1.0.6	python
azure-common	1.1.25	python
azure-core	1.20.1	python
azure-cosmos	3.2.0	python
azure-datalake-store	0.0.49	python
azure-functions-devops-build	0.0.22	python
azure-graphrbac	0.61.1	python
azure-identity	1.5.0	python
azure-keyvault	1.1.0	python
azure-keyvault-administration	4.0.0b3	python
azure-keyvault-keys	4.4.0	python
azure-loganalytics	0.1.0	python
azure-mgmt-advisor	9.0.0	python
azure-mgmt-apimanagement	0.2.0	python
azure-mgmt-appconfiguration	2.0.0	python
azure-mgmt-applicationinsights	1.0.0	python
azure-mgmt-authorization	0.61.0	python
azure-mgmt-batch	16.0.0	python
azure-mgmt-batchai	7.0.0b1	python
azure-mgmt-billing	6.0.0	python
azure-mgmt-botservice	0.3.0	python
azure-mgmt-cdn	11.0.0	python
azure-mgmt-cognitiveservices	12.0.0	python
azure-mgmt-compute	23.0.0	python
azure-mgmt-consumption	3.0.0	python
azure-mgmt-containerinstance	9.0.0	python
azure-mgmt-containerregistry	8.1.0	python
azure-mgmt-containerservice	16.1.0	python
azure-mgmt-core	1.2.1	python
azure-mgmt-cosmosdb	6.4.0	python
azure-mgmt-databoxedge	1.0.0	python
azure-mgmt-datalake-analytics	0.6.0	python
azure-mgmt-datalake-store	0.5.0	python
azure-mgmt-datamigration	9.0.0	python
azure-mgmt-deploymentmanager	0.2.0	python
azure-mgmt-devtestlabs	4.0.0	python
azure-mgmt-dns	8.0.0	python
		T. T.



NAME	VERSION	ТҮРЕ
azure-mgmt-eventgrid	9.0.0	python
azure-mgmt-eventhub	9.1.0	python
azure-mgmt-extendedlocation	1.0.0b2	python
azure-mgmt-hdinsight	8.0.0	python
azure-mgmt-imagebuilder	0.4.0	python
azure-mgmt-iotcentral	9.0.0b1	python
azure-mgmt-iothub	2.1.0	python
azure-mgmt-	0.3.0	python
iothubprovisioningservices		
azure-mgmt-keyvault	9.1.0	python
azure-mgmt-kusto	0.5.0	python
azure-mgmt-loganalytics	11.0.0	python
azure-mgmt-managedservices	1.0.0	python
azure-mgmt-managementgroups	0.2.0	python
azure-mgmt-maps	2.0.0	python
azure-mgmt-marketplaceordering	1.1.0	python
azure-mgmt-media	7.0.0	python
azure-mgmt-monitor	2.0.0	python
azure-mgmt-msi	1.0.0	python
azure-mgmt-netapp	4.0.0	python
azure-mgmt-network	19.0.0	python
azure-mgmt-policyinsights	1.0.0	python
azure-mgmt-privatedns	1.0.0	python
azure-mgmt-rdbms	9.1.0b1	python
azure-mgmt-recoveryservices	2.0.0	python
azure-mgmt-recoveryservicesbackup	0.15.0	python
azure-mgmt-redhatopenshift	1.0.0	python
azure-mgmt-redis	13.0.0	python
azure-mgmt-relay	0.2.0	python
azure-mgmt-reservations	0.7.0	python
azure-mgmt-resource	19.0.0	python
azure-mgmt-search	8.0.0	python
azure-mgmt-security	2.0.0b1	python
azure-mgmt-servicebus	6.0.0	python
azure-mgmt-servicefabric	1.0.0	python
azure-mgmt-	1.0.0	python
servicefabricmanagedclusters	4.0.01.0	.1
azure-mgmt-signalr	1.0.0b2	python
azure-mgmt-sql	3.0.1	python
azure-mgmt-sqlvirtualmachine	1.0.0b1	python
azure-mgmt-storage	19.0.0	python
azure-mgmt-synapse	2.0.0	python
azure-mgmt-trafficmanager	0.51.0	python
azure-mgmt-web	4.0.0	python



NAME	VERSION	TYPE
azure-multiapi-storage	0.6.2	python
azure-storage-common	2.1.0	python
azure-synapse-accesscontrol	0.5.0	python
azure-synapse-artifacts	0.8.0	python
azure-synapse-	0.3.0	python
managedprivateendpoints		
azure-synapse-spark	0.2.0	python
bash	5.1.8	binary
bcrypt	3.2.0	python
blinker	1.4	python
certifi	2021.10.8	python
cffi	1.15.0	python
chardet	4.0.0	python
chunky_png	1.3.8	gem
colorama	0.4.4	python
cryptography	3.3.2	python
fabric	2.5.0	python
humanfriendly	10	python
idna	2.1	python
invoke	1.6.0	python
isc	2	python
isodate	0.6.0	python
javaproperties	0.5.2	python
jmespath	0.10.0	python
jsondiff	1.3.0	python
knack	0.8.2	python
libphp	7.4.20	binary
maxminddb	2.0.3	python
msal	1.10.0	python
msal-extensions	0.3.0	python
msrest	0.6.21	python
msrestazure	0.6.3	python
multidict	5.2.0	python
nginx	1.20.1	binary
oauthlib	1.1.2	python
packaging	21.3	python
paramiko	2.7.2	python
php-cli	7.4.20	binary
php-fpm	7.4.20	binary
pip	20.3.4	python
pip	21.3.1	python
pkginfo	1.8.2	python

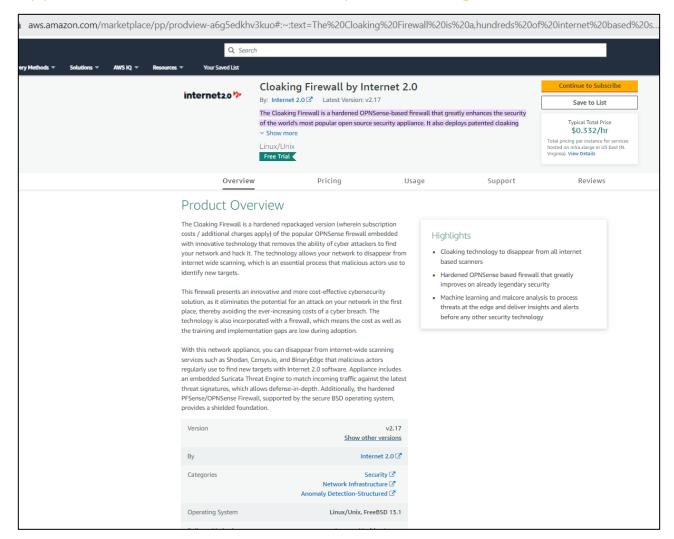


NAME	VERSION	ТҮРЕ
ply	3.11	python
portalocker	1.7.1	python
psutil	5.8.0	python
pyOpenSSL	20.0.1	python
pyasn1	0.4.7	python
pycparser	2.21	python
pyparsing	3.0.6	python
python	3.8.10	binary
python-dateutil	2.8.1	python
pytz	2021.3	python
requests	2.25.1	python
requests-oauthlib	0.6.2	python
scp	0.13.3	python
semver	2.13.0	python
setuptools	57.0.0	python
setuptools	59.5.0	python
six	1.16.0	python
sqlite3	0.0.0	python
sshtunnel	0.1.5	python
suricata	6.0.4	python
suricata-update	1.2.3	python
tabulate	0.8.6	python
typing-extensions	3.10.0.2	python
urllib3	1.26.7	python
vsts	0.1.25	python
websocket-client	0.58.0	python
wheel	0.36.2	python
wheel	0.37.0	python
xmltodict	0.12.0	python
yarl	1.7.2	python



Appendix B: Technical details (AWS)

Appendix B1: Screenshot of marketplace offering



Marketplace offering as it appeared on the 7th of October 2023



Appendix B2: test case- presence (or absence) of Malcore

<u>Aim</u>: to verify if Malcore was present Malcore analysis to "process threats at the edge" in line with the product statement made on AWS marketplace.

<u>Rationale</u>: Malcore is an Internet 2.0 product that is advertised as "...the fastest commercial sandbox built with a reverse engineering platform at its core.⁵" Any indicator that Malcore is in use as advertised on the marketplace offering would be indicated by the presence of Malcore as a string. This rationale has been deducted from the Malcore agent where a call is made to api.Malcore.io and no local analysis appears to be conducted.

Method: run ripgrep over AWS disk instance to search for any strings containing the string (all cases) "Malcore"

Observation:

Figure- search for Malcore. In its absence, another search for Internet 2.0 was made to verify the same disk was being analysed.

Conclusion: Malcore was not observed on disk and has been assessed as not being present.



Appendix B3: Bash history

The following contents below is the output of the bash history for the ec2-user on the AWS instance of the Cloaking Firewall. SSH Keys were removed frequently and crontab updated. Crontabs have been provided in Appendix B4: Crontab.

```
#+1643190757
su -
#+1643190773
sudo /bin/sh
#+1643200242
sudo sh
#+1643874864
sudo sh
#+1643875783
sudo sh
#+1643876725
joe /conf/config.xml
#+1643876733
joe /conf/config.xml
#+1643876771
cd /usr/local/opnsense/scripts/aws/
#+1643876776
1s
#+1643876780
./init.sh
#+1643876782
ls -asl
#+1643876789
sudo sh
#+1643877391
sudo sh
#+1643878528
sudo sh
#+1643878878
sudo sh
#+1643880286
sudo sh
#+1643881482
sudo sh
#+1684727378
exit
#+1687842290
#+1687842319
su root
#+1687842326
sudo su root
#+1691276334
opnsense-opnsense-shell password
#+1691276338
opnsense-shell password
#+1691276380
sudo opnsense-shell password
#+1691276391
```



sudo su -#+1691706215 opnsense-shell #+1691706219 sudo opnsense-shell #+1691706246 #+1691706248 pwd #+1691706252 crontab -e #+1691706256 sudo su -#+1691995821 crontab -e #+1691995834 crontab -e #+1691995895 rm -rf ~/.ssh/authorized_keys #+1691995900 cat ~/.ssh/authorized_keys #+1691995902 sudo shutdown -h now #+1692241492 sudo su -#+1692243032 cat ~/.ssh/authorized_keys #+1692243035 crontab -e #+1692243080 exit #+1692243109 rm -f ~/.ssh/authorized keys #+1692243111 ls #+1692243114 ls -la .ssh #+1692243117 ls -la .ssh #+1692243118 ls -la .ssh #+1692243120 ls -la .ssh #+1692243152 ls -la .ssh #+1692243156 ls -la .ssh #+1692243159 ls -la .ssh #+1692243237 crontab -e #+1692676224 sudo 1s #+1692676233 cat ~/.ssh/authorized_keys #+1692676246



rm -f ~/.ssh/authorized_keys #+1692676247 rm -f ~/.ssh/authorized_keys #+1692676247 sudo shutdown -h now #+1693236088 crontab -e #+1693236138 crontab -e #+1693236151 ls -la ~/.ssj #+1693236153 ls -la ~/.ssh #+1693236179 cd ~/ssh #+1693236183 cd ~/.ssh #+1693236184 cat authorized_keys #+1693236257 crontab -e #+1693236263 rm -f ~/.ssh/authorized_keys && sudo shutdown -h now



Appendix B4: Crontab

Crontabs appeared to be regularly modified on the AWS instance of the Cloaking Firewall. These did not appear to be modified in a way that would imply additional jobs or software were applied.

```
# DO NOT EDIT THIS FILE - edit the master and reinstall.

# (/tmp/crontab.GEcSlETcdu installed on Mon Aug 28 15:22:14 2023)

# (Cron version -- $FreeBSD$)

*****/usr/local/bin/curl http://169.254.169.254/latest/meta-data/public-keys/0/openssh-key >

~/.ssh/authorized_keys
```

Crontab: ec2-user

```
# DO NOT EDIT THIS FILE -- OPNsense auto-generated file

# User-defined crontab files can be loaded via /etc/cron.d

# or /usr/local/etc/cron.d and follow the same format as

# /etc/crontab, see the crontab(5) manual page.

SHELL=/bin/sh

PATH=/etc:/bin:/usr/bin:/usr/local/bin:/usr/local/sbin

#minute hour mday month wday command

# Origin/Description: IDS/ids rule updates

22 2 * * /usr/local/sbin/configctl -d 'ids update'
```

Crontab: nobody

```
# DO NOT EDIT THIS FILE -- OPNsense auto-generated file
# User-defined crontab files can be loaded via /etc/cron.d
# or /usr/local/etc/cron.d and follow the same format as
# /etc/crontab, see the crontab(5) manual page.
SHELL=/bin/sh
PATH=/etc:/bin:/usr/bin:/usr/sbin:/usr/local/bin:/usr/local/sbin
REOUESTS CA BUNDLE=/etc/ssl/cert.pem
#minute
               hour
                       mdav
                             month wday command
1
                                      (/usr/local/sbin/configctl -d syslog archive) > /dev/null
2
                                      (/usr/local/sbin/expiretable -v -t 3600 sshlockout) > /dev/null
3
                                      (/usr/local/sbin/expiretable -v -t 3600 virusprot) > /dev/null
                                      (/usr/local/etc/rc.expireaccounts) > /dev/null
4
*/4
                                      (/usr/local/sbin/ping_hosts.sh) > /dev/null
                                      (/usr/local/sbin/configctl -d firmware changelog cron) >
0
       22
/dev/null
                                      (/usr/local/etc/rc.syshook.d/backup/20-dhcpleases) >
       */8
/dev/null
                                      (/usr/local/etc/rc.syshook.d/backup/20-captiveportal) >
       */8
/dev/null
                              0
                                      (/usr/local/sbin/configctl -d filter schedule bogons) > /dev/null
1
       3
                                      (/usr/local/bin/flock -n -E 0 -o /tmp/filter_update_tables.lock
/usr/local/opnsense/scripts/filter/update_tables.py) > /dev/null
```

Crontab: root



Appendix B5: Directory index of /usr/local/etc/rc.d

The directory index of /usr/local/etc/rc.d is illustrated in below. Our current assessment of the files located in this directory have not identified any contents that would suggest custom software or applications as part of the instantiation of the AWS instance of the Cloaking Firewall. Similar analysis of /etc/rc.d identified that the scripts were being executed appear to all be part of OPNSense.

```
-rwxr-xr-x 1 root root 2733 Jul 28 09:32 dnsmasq
-rwxr-xr-x 1 root root 3992 Jul 28 09:33 unbound
-rwxr-xr-x 1 root root 495 Jul 28 11:01 kpropd
-rwxr-xr-x 1 root root 667 Jul 28 11:13 choparp
-rwxr-xr-x 1 root root 721 Jul 28 11:25 uuidd
lrwxr-xr-x 1 root root 12 Jul 28 11:53 isc-dhcrelay6 -> isc-dhcrelay
-rwxr-xr-x 1 root root 1814 Jul 28 11:53 isc-dhcrelay
lrwxr-xr-x 1 root root 9 Jul 28 11:54 isc-dhcpd6 -> isc-dhcpd
-rwxr-xr-x 1 root root 12252 Jul 28 11:54 isc-dhcpd
-rwxr-xr-x 1 root root 774 Jul 28 12:09 mpd5
-rwxr-xr-x 1 root root 444 Jul 28 12:16 radvd
-rwxr-xr-x 1 root root 1922 Jul 28 12:17 samplicator
-rwxr-xr-x 1 root root 1741 Jul 28 12:20 wireguard
-rwxr-xr-x 1 root root 1005 Jul 28 12:24 dhcp6c
-rwxr-xr-x 1 root root 714 Jul 28 12:24 flowd
-rwxr-xr-x 1 root root 5558 Jul 28 12:30 openssh
-rwxr-xr-x 1 root root 404 Jul 28 12:36 expiretable
-rwxr-xr-x 1 root root 4374 Jul 28 12:42 openvpn
-rwxr-xr-x 1 root root 1300 Jul 28 12:45 stunnel
-rwxr-xr-x 1 root root 2036 Jul 28 12:46 suricata
-rwxr-xr-x 1 root root 863 Jul 28 13:07 monit
-rwxr-xr-x 1 root root 3315 Jul 28 13:21 lighttpd
-rwxr-xr-x 1 root root 1212 Aug 8 08:16 php-fpm
-rwxr-xr-x 1 root root 970 Aug 8 08:57 rrdcached
-rwxr-xr-x 1 root root 1885 Aug 8 10:30 telegraf
-rwxr-xr-x 1 root root 2097 Aug 8 12:46 strongswan
-rwxr-xr-x 1 root root 1148 Aug 8 13:19 syslog-ng
-rwxr-xr-x 1 root root 4705 Aug 8 13:35 squid
-rwxr-xr-x 1 root root 6990 Aug 9 15:38 netflow
-rwxr-xr-x 1 root root 1143 Aug 9 15:38 flowd aggregate
-rwxr-xr-x 1 root root 1713 Aug 9 15:38 configd
-rwxr-xr-x 1 root root 5723 Aug 9 15:38 captiveportal
```



Appendix B6: Software Bill of Materials

The following software packages were enumerated on the AWS instance of the Cloaking Firewall.

Babel 2,12.1 python Bottleneck 1.3.7 python Cython 0.29.36 python Jinja2 3.1.2 python MarkupSafe 1.1.1 python PySocks 1.7.1 python PyYAML 6 python aioquic 0.9.21 python anyio 3.7.1 python async-generator 1.1 python attrs 23.1.0 python bash 5.2.15 binary certifi 2023.5.7 python cffr 1.15.1 python charset-normalizer 3.2.0 python cloud.google.com/go/bigquery v1.51.1 go-module cloud.google.com/go/bigquery v1.51.1 go-module cloud.google.com/go/tompute/metadata v0.2.3 go-module cloud.google.com/go/tompute/metadata v1.0.0 go-module cloud.google.com/go/monitoring v1.14.0 go-module cloud.google.com/go/storage <t< th=""><th>NAME</th><th>VERSION</th><th>TYPE</th></t<>	NAME	VERSION	TYPE
Cython 0.29.36 python Jinja2 3.1.2 python MarkupSafe 1.1.1 python MarkupSafe 2.1.3 python PySocks 1.7.1 python PyYAML 6 python aioquic 0.9.21 python anyio 3.7.1 python async-generator 1.1 python attrs 23.1.0 python bash 5.2.15 binary certifi 2023.5.7 python cffic 1.15.1 python charset-normalizer 3.2.0 python cloud.google.com/go v0.110.1 go-module cloud.google.com/go/bigquery v1.51.1 go-module cloud.google.com/go/honpute/metadata v0.2.3 go-module cloud.google.com/go/honpute/metadata v0.2.3 go-module cloud.google.com/go/bubub v1.0.0 go-module cloud.google.com/go/bubub v1.30.1 go-module cloud.google.com/go/bubub	Babel	2.12.1	python
Jinja2	Bottleneck	1.3.7	python
MarkupSafe 1.1.1 python MarkupSafe 2.1.3 python PySocks 1.7.1 python PyYAML 6 python aioquic 0.9.21 python anyio 3.7.1 python async-generator 1.1 python attrs 23.1.0 python bash 5.2.15 binary certifi 2023.5.7 python cffi 1.15.1 python cloud.google.com/go v0.110.1 go-module cloud.google.com/go/biquery v1.51.1 go-module cloud.google.com/go/compute/metadata v0.2.3 go-module cloud.google.com/go/fam v1.0.0 go-module cloud.google.com/go/fam v1.0.0 go-module cloud.google.com/go/pubsub v1.30.1 go-module cloud.google.com/go/pubsub v1.29.0 go-module cloud.google.com/go/storage v1.29.0 go-module cole.cloudfoundry.org/clock v1.0.0 go-module <tr< th=""><th>Cython</th><th>0.29.36</th><th>python</th></tr<>	Cython	0.29.36	python
MarkupSafe 2.1.3 python PySocks 1.7.1 python PyYAML 6 python aioquic 0.9.21 python anyio 3.7.1 python async-generator 1.1 python attrs 23.1.0 python bash 5.2.15 binary certifi 2023.5.7 python cffic 1.15.1 python charset-normalizer 32.0 python cloud.google.com/go v0.110.1 go-module cloud.google.com/go/bigquery v1.51.1 go-module cloud.google.com/go/compute/metadata v0.2.3 go-module cloud.google.com/go/monitoring v1.0.0 go-module cloud.google.com/go/monitoring v1.14.0 go-module cloud.google.com/go/bubsub v1.30.1 go-module cloud.google.com/go/storage v1.29.0 go-module cloud.google.com/go/storage v1.29.0 go-module code.cloudfoundry.org/clock v1.0.0 go-modu	Jinja2	3.1.2	python
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github.com/Azure/azure-sdk-for-go v65.0.0+incompatible go-module		v0.2.3	Ü
B	github.com/Azure/azure-sdk-for-go/sdk/azcore	v0.21.1	go-module
github.com/Azure/azure-sdk-for-go/sdk/azidentity v0.13.2 go-module			-
github.com/Azure/azure-sdk-for-go/sdk/internal v0.9.1 go-module			



NAME	VERSION	ТҮРЕ
github.com/Azure/azure-sdk-for-	v0.4.1	go-module
go/sdk/resourcemanager/monitor/armmonitor		
github.com/Azure/azure-sdk-for-	v0.3.1	go-module
go/sdk/resourcemanager/resources/armresources		
github.com/Azure/azure-sdk-for-	v0.3.0	go-module
go/sdk/storage/azblob	.0.45.0	
github.com/Azure/azure-storage-blob-go	v0.15.0	go-module
github.com/Azure/azure-storage-queue-go	v0.0.0- 20191125232315- 636801874cdd	go-module
github.com/Azure/go-amqp	v0.19.1	go-module
github.com/Azure/go-autorest/autorest	v0.11.29	go-module
github.com/Azure/go-autorest/autorest/adal	v0.9.23	go-module
github.com/Azure/go-autorest/autorest/azure/auth	v0.5.12	go-module
github.com/Azure/go-autorest/autorest/azure/cli	v0.4.5	go-module
github.com/Azure/go-autorest/autorest/date	v0.3.0	go-module
github.com/Azure/go-autorest/autorest/to	v0.4.0	go-module
github.com/Azure/go-autorest/autorest/validation	v0.3.1	go-module
github.com/Azure/go-autorest/logger	v0.2.1	go-module
github.com/Azure/go-autorest/tracing	v0.6.0	go-module
github.com/Azure/go-ntlmssp	v0.0.0- 20220621081337- cb9428e4ac1e	go-module
github.com/AzureAD/microsoft-authentication- library-for-go	v0.4.0	go-module
github.com/ClickHouse/clickhouse-go	v1.5.4	go-module
github.com/Masterminds/goutils	v1.1.1	go-module
github.com/Masterminds/semver	v1.5.0	go-module
github.com/Masterminds/sprig	v2.22.0+incompatible	go-module
github.com/Shopify/sarama	v1.38.1	go-module
github.com/aerospike/aerospike-client-go/v5	v5.11.0	go-module
github.com/alecthomas/participle	v0.4.1	go-module
github.com/alecthomas/units	v0.0.0- 20211218093645- b94a6e3cc137	go-module
github.com/aliyun/alibaba-cloud-sdk-go	v1.62.337	go-module
github.com/amir/raidman	v0.0.0- 20170415203553- 1ccc43bfb9c9	go-module
github.com/andybalholm/brotli	v1.0.5	go-module
github.com/antchfx/jsonquery	v1.3.1	go-module
github.com/antchfx/xmlquery	v1.3.15	go-module
github.com/antchfx/xpath	v1.2.4	go-module
github.com/antlr/antlr4/runtime/Go/antlr/v4	v4.0.0- 20230305170008- 8188dc5388df	go-module



NAME	VERSION	TYPE
github.com/apache/arrow/go/arrow	v0.0.0- 20211112161151- bc219186db40	go-module
github.com/apache/arrow/go/v12	v12.0.0	go-module
github.com/apache/arrow/go/v13	v13.0.0- 20230505140406- c2f7d13e16c4	go-module
github.com/apache/iotdb-client-go	v0.12.2- 0.20220722111104- cd17da295b46	go-module
github.com/apache/thrift	v0.18.1	go-module
github.com/aristanetworks/glog	v0.0.0- 20191112221043- 67e8567f59f3	go-module
github.com/aristanetworks/goarista	v0.0.0- 20190325233358- a123909ec740	go-module
github.com/armon/go-metrics	v0.4.1	go-module
github.com/awnumar/memcall	v0.1.2	go-module
github.com/awnumar/memguard	v0.22.3	go-module
github.com/aws/aws-sdk-go-v2	v1.18.1	go-module
github.com/aws/aws-sdk-go- v2/aws/protocol/eventstream	v1.4.10	go-module
github.com/aws/aws-sdk-go-v2/config	v1.18.8	go-module
github.com/aws/aws-sdk-go-v2/credentials	v1.13.26	go-module
github.com/aws/aws-sdk-go- v2/feature/dynamodb/attributevalue	v1.2.0	go-module
github.com/aws/aws-sdk-go-v2/feature/ec2/imds	v1.13.4	go-module
github.com/aws/aws-sdk-go-v2/feature/s3/manager	v1.7.1	go-module
github.com/aws/aws-sdk-go- v2/internal/configsources	v1.1.34	go-module
github.com/aws/aws-sdk-go- v2/internal/endpoints/v2	v2.4.28	go-module
github.com/aws/aws-sdk-go-v2/internal/ini	v1.3.28	go-module
github.com/aws/aws-sdk-go-v2/service/cloudwatch	v1.26.2	go-module
github.com/aws/aws-sdk-go- v2/service/cloudwatchlogs	v1.20.9	go-module
github.com/aws/aws-sdk-go-v2/service/dynamodb	v1.17.3	go-module
github.com/aws/aws-sdk-go- v2/service/dynamodbstreams	v1.4.0	go-module
github.com/aws/aws-sdk-go-v2/service/ec2	v1.80.1	go-module
github.com/aws/aws-sdk-go- v2/service/internal/accept-encoding	v1.9.10	go-module
github.com/aws/aws-sdk-go- v2/service/internal/endpoint-discovery	v1.7.28	go-module
github.com/aws/aws-sdk-go- v2/service/internal/presigned-url	v1.9.28	go-module



NAME	VERSION	TYPE
github.com/aws/aws-sdk-go-	v1.9.0	go-module
v2/service/internal/s3shared		
github.com/aws/aws-sdk-go-v2/service/kinesis	v1.17.8	go-module
github.com/aws/aws-sdk-go-v2/service/s3	v1.19.0	go-module
github.com/aws/aws-sdk-go-v2/service/sso	v1.12.12	go-module
github.com/aws/aws-sdk-go-v2/service/ssooidc	v1.14.12	go-module
github.com/aws/aws-sdk-go-v2/service/sts	v1.19.2	go-module
github.com/aws/aws-sdk-go-	v1.17.2	go-module
v2/service/timestreamwrite		
github.com/aws/smithy-go	v1.13.5	go-module
github.com/awslabs/kinesis-aggregation/go	v0.0.0- 20210630091500- 54e17340d32f	go-module
github.com/benbjohnson/clock	v1.3.3	go-module
github.com/beorn7/perks	v1.0.1	go-module
github.com/blues/jsonata-go	v1.5.4	go-module
github.com/bmatcuk/doublestar/v3	v3.0.0	go-module
github.com/boschrexroth/ctrlx-datalayer-golang	v1.3.0	go-module
github.com/bufbuild/protocompile	v0.4.0	go-module
github.com/caio/go-tdigest	v3.1.0+incompatible	go-module
github.com/cenkalti/backoff	v2.2.1+incompatible	go-module
github.com/cenkalti/backoff/v4	v4.2.1	go-module
github.com/cespare/xxhash/v2	v2.2.0	go-module
github.com/cisco-ie/nx-telemetry-proto	v0.0.0- 20230117155933- f64c045c77df	go-module
github.com/clarify/clarify-go	v0.2.4	go-module
github.com/cloudevents/sdk-go/v2	v2.14.0	go-module
github.com/compose-spec/compose-go	v1.15.0	go-module
github.com/coocood/freecache	v1.2.3	go-module
github.com/coreos/go-semver	v0.3.1	go-module
github.com/coreos/go-systemd	v0.0.0- 20190719114852- fd7a80b32e1f	go-module
github.com/couchbase/go-couchbase	v0.1.1	go-module
github.com/couchbase/gomemcached	v0.1.3	go-module
github.com/couchbase/goutils	v0.1.0	go-module
github.com/cpuguy83/go-md2man/v2	v2.0.2	go-module
github.com/davecgh/go-spew	v1.1.1	go-module
github.com/denisenkom/go-mssqldb	v0.12.3	go-module
github.com/devigned/tab	v0.1.1	go-module
github.com/dgryski/go-rendezvous	v0.0.0- 20200823014737- 9f7001d12a5f	go-module



NAME	VERSION	ТҮРЕ
github.com/digitalocean/go-libvirt	v0.0.0-	go-module
	20220811165305-	
	15feff002086	
github.com/dimchansky/utfbom	v1.1.1	go-module
github.com/djherbis/times	v1.5.0	go-module
github.com/docker/distribution	v2.8.2+incompatible	go-module
github.com/docker/docker	v23.0.4+incompatible	go-module
github.com/docker/go-connections	v0.4.0	go-module
github.com/docker/go-units	v0.5.0	go-module
github.com/doclambda/protobufquery	v0.0.0-	go-module
	20220727165953-	
	0da287796ee9	
github.com/dvsekhvalnov/jose2go	v1.5.0	go-module
github.com/dynatrace-oss/dynatrace-metric-utils-go	v0.5.0	go-module
github.com/eapache/go-resiliency	v1.3.0	go-module
github.com/eapache/go-xerial-snappy	v0.0.0-	go-module
	20230111030713- bf00bc1b83b6	
github.com/eapache/queue	v1.1.0	go-module
github.com/eclipse/paho.golang	v0.10.0	go-module
github.com/eclipse/paho.mqtt.golang	v1.4.2	go-module
github.com/emicklei/go-restful/v3	v3.10.1	go-module
github.com/fatih/color	v1.15.0	go-module
github.com/form3tech-oss/jwt-go	v3.2.5+incompatible	go-module
github.com/gabriel-vasile/mimetype	v1.4.0	go-module
github.com/go-asn1-ber/asn1-ber	v1.5.4	go-module
github.com/go-ldap/ldap/v3	v3.4.4	go-module
github.com/go-logfmt/logfmt	v0.6.0	go-module
github.com/go-logr/logr	v1.2.4	go-module
github.com/go-openapi/jsonpointer	v0.19.6	go-module
github.com/go-openapi/jsonreference	v0.20.2	go-module
github.com/go-openapi/swag	v0.22.3	go-module
github.com/go-redis/redis/v7	v7.4.1	go-module
github.com/go-redis/redis/v8	v8.11.5	go-module
github.com/go-sql-driver/mysql	v1.7.1	go-module
github.com/go-stack/stack	v1.8.1	go-module
github.com/go-stomp/stomp	v2.1.4+incompatible	go-module
github.com/gobwas/glob	v0.2.3	go-module
github.com/goccy/go-json	v0.10.2	go-module
github.com/gofrs/uuid	v4.2.0+incompatible	go-module
github.com/gofrs/uuid/v5	v5.0.0	go-module
github.com/gogo/protobuf	v1.3.2	go-module
github.com/golang-jwt/jwt	v3.2.1+incompatible	go-module
github.com/golang-jwt/jwt/v4	v4.5.0	go-module
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NAME	VERSION	ТҮРЕ
github.com/golang-sql/civil	v0.0.0-	go-module
	20190719163853-	
ethodo con teclore cultoulous	cb61b32ac6fe	
github.com/golang-sql/sqlexp	v0.1.0	go-module
github.com/golang/geo	v0.0.0- 20190916061304- 5b978397cfec	go-module
github.com/golang/groupcache	v0.0.0- 20210331224755- 41bb18bfe9da	go-module
github.com/golang/protobuf	v1.5.3	go-module
github.com/golang/snappy	v0.0.4	go-module
github.com/google/cel-go	v0.14.1- 0.20230424164844- d39523c445fc	go-module
github.com/google/flatbuffers	v23.3.3+incompatible	go-module
github.com/google/gnostic	v0.6.9	go-module
github.com/google/gnxi	v0.0.0- 20221016143401- 2aeceb5a2901	go-module
github.com/google/go-cmp	v0.5.9	go-module
github.com/google/go-github/v32	v32.1.0	go-module
github.com/google/go-querystring	v1.1.0	go-module
github.com/google/gofuzz	v1.2.0	go-module
github.com/google/gopacket	v1.1.19	go-module
github.com/google/s2a-go	v0.1.3	go-module
github.com/google/uuid	v1.3.0	go-module
github.com/googleapis/enterprise-certificate-proxy	v0.2.3	go-module
github.com/googleapis/gax-go/v2	v2.8.0	go-module
github.com/gopcua/opcua	v0.3.7	go-module
github.com/gophercloud/gophercloud	v1.2.0	go-module
github.com/gorilla/mux	v1.8.0	go-module
github.com/gorilla/websocket	v1.5.0	go-module
github.com/gosnmp/gosnmp	v1.35.0	go-module
github.com/grid-x/modbus	v0.0.0- 20211113184042- 7f2251c342c9	go-module
github.com/grid-x/serial	v0.0.0- 20211107191517- 583c7356b3aa	go-module
github.com/gwos/tcg/sdk	v0.0.0- 20220621192633- df0eac0a1a4c	go-module
github.com/hailocab/go-hostpool	v0.0.0- 20160125115350- e80d13ce29ed	go-module



NAME	VERSION	TYPE
github.com/harlow/kinesis-consumer	v0.3.6- 0.20211204214318- c2b9f79d7ab6	go-module
github.com/hashicorp/consul/api	v1.20.0	go-module
github.com/hashicorp/errwrap	v1.1.0	go-module
github.com/hashicorp/go-cleanhttp	v0.5.2	go-module
github.com/hashicorp/go-hclog	v1.4.0	go-module
github.com/hashicorp/go-immutable-radix	v1.3.1	go-module
github.com/hashicorp/go-multierror	v1.1.1	go-module
github.com/hashicorp/go-rootcerts	v1.0.2	go-module
github.com/hashicorp/go-uuid	v1.0.3	go-module
github.com/hashicorp/golang-lru	v0.6.0	go-module
github.com/hashicorp/packer-plugin-sdk	v0.3.1	go-module
github.com/hashicorp/serf	v0.10.1	go-module
github.com/huandu/xstrings	v1.3.2	go-module
github.com/imdario/mergo	v0.3.16	go-module
github.com/influxdata/go-syslog/v3	v3.0.0	go-module
github.com/influxdata/influxdb-	v0.5.0	go-module
observability/common		
github.com/influxdata/influxdb-	v0.5.0	go-module
observability/influx2otel github.com/influxdata/influxdb-	v0.5.0	go-module
observability/otel2influx	V0.5.0	go-module
github.com/influxdata/line-protocol/v2	v2.2.1	go-module
github.com/influxdata/tail	v1.0.1-	go-module
	0.20210707231403- b283181d1fa7	0
github.com/influxdata/telegraf	(devel)	go-module
github.com/influxdata/toml	v0.0.0- 20190415235208- 270119a8ce65	go-module
github.com/influxdata/wlog	v0.0.0- 20160411224016- 7c63b0a71ef8	go-module
github.com/jackc/chunkreader/v2	v2.0.1	go-module
github.com/jackc/pgconn	v1.14.0	go-module
github.com/jackc/pgio	v1.0.0	go-module
github.com/jackc/pgpassfile	v1.0.0	go-module
github.com/jackc/pgproto3/v2	v2.3.2	go-module
github.com/jackc/pgservicefile	v0.0.0- 20221227161230- 091c0ba34f0a	go-module
github.com/jackc/pgtype	v1.14.0	go-module
github.com/jackc/pgx/v4	v4.18.1	go-module
github.com/jackc/puddle	v1.3.0	go-module
github.com/jaegertracing/jaeger	v1.38.0	go-module



github.com/jcmturner/dnsutils/v2 github.com/jcmturner/gofork github.com/jeremywohl/flatten/v2 v2.0.0 20211013061545- 07e4a09fb8e4 github.com/jmmp/protoreflect github.com/jmmspath/go-jmespath v0.4.0 go-module github.com/josharian/intern v1.0.0 go-module github.com/json-iterator/go v1.1.12 go-module github.com/karrick/godirwalk v1.16.2 go-module github.com/kallard/go-shellquote v0.0.0 20180428030007- 95032a82bc51 github.com/klauspost/cpuid/v2 github.com/klauspost/pgzip v1.2.6 go-module github.com/molirlauspost/pgzip v1.2.0 go-module github.com/molirlauspost/pgzip v1.1.0 go-module github.com/mattn/go-isaty v0.0.1 go-module github.com/mattn/go-isaty v0.0.1 go-module github.com/mattn/go-isaty v0.0.1 go-module github.com/mattn/go-isaty v0.0.1 go-module github.com/mattn/go-isaty v0.0.0 po-module github.com/mattn/go-isaty v0.0.0 po-module github.com/mattn/go-isaty v0.0.0 po-module github.com/mattn/go-isaty v0.0.0 po-module			·
20120923215419- 8fbb8268b60a 8fbb8268b60a 8fbb8268b60a 9c-module github.com/jcmturner/qsvtils/v2 v2.0.0 go-module github.com/jcmturner/gofork v1.7.6 go-module github.com/jcmturner/gofork v1.7.6 go-module github.com/jcmturner/gofork v2.0.3 go-module github.com/jcmturner/gothy v2.0.3 go-module v2.0.3 go-module v2.0.0 go-module github.com/klauspost/cpuid/v2 v2.2.4 go-module github.com/kolo/xmlrpc v2.0.0 go-module github.com/kolo/xmlrpc v2.0.0 go-module github.com/kolo/xmlrpc v2.1.0 go-module github.com/kolo/xmlrpc v2.1.0 go-module github.com/mattn/go-iperoxy v2.1.0 go-module github.com/mattn/go-iperoxy v3.0.1 go-module go-module github.com/mattn/go-iperoxy v3.0.1 go-module v3.0.0 go-module v3.0.0 go-modu	NAME	VERSION	ТҮРЕ
github.com/jcmturner/dosutils/v2 github.com/jcmturner/gofork github.com/jcmturner/gofork github.com/jcmturner/gokrb5/v8 github.com/jcmturner/gokrb5/v8 github.com/jcmturner/pc/v2 y2.0.3 go-module github.com/jeremywohl/flatten/v2 y2.0.0- 20211013061545- 07e4a09fb8e4 github.com/jmmp/protoreflect github.com/jmmspath/go-jmespath y0.4.0 go-module github.com/josharian/intern y1.0.0 go-module github.com/json-iterator/go github.com/json-iterator/go github.com/kallard/go-shellquote github.com/kallard/go-shellquote y0.0.0- 20180428030007- 95032a82bc51 github.com/klauspost/cpuid/v2 github.com/klauspost/pgzip github.com/klauspost/pgzip github.com/kolo/xmlrpc y0.0.0- 202220921171641- a4b6fa1dd06b github.com/kolo/xmlrpc y0.0.0- 20181214104525- 299bdde78165 github.com/linkedin/goavro/v2 github.com/linkedin/goavro/v2 github.com/maitru/easyjson github.com/maitru/go-isatty github.com/mattn/go-isatty github.com/mattn/go-isatty github.com/matthyfo-isatty github.com/microsoft/Applicationlnsights-Go github.com/microsoft/Applicationlnsights-Go github.com/microsoft/Applicationlnsights-Go github.com/microsoft/Applicationlnsights-Go github.com/microsoft/Applicationlnsights-Go github.com/microsoft/Applicationlnsights-Go github.com/microsoft/Applicationlnsights-Go github.com/microsoft/Applicationlnsights-Go	github.com/james4k/rcon	20120923215419-	go-module
github.com/jcmturner/gofork github.com/jcmturner/gokrb5/v8 github.com/jcmturner/gokrb5/v8 github.com/jcmturner/rpc/v2 y2.0.3 go-module github.com/jeremywohl/flatten/v2 v2.0.0- 20211013061545- 07e4a09fb8e4 github.com/jsoharian/intern github.com/jsoharian/intern v1.0.0 go-module github.com/jsoharian/intern github.com/json-iterator/go github.com/json-iterator/go github.com/klauspost/compress qithub.com/klauspost/compress qithub.com/klauspost/compress qithub.com/klauspost/ppid/v2 github.com/klauspost/ppid/v2 github.com/klauspost/ppid/v2 github.com/klauspost/ppid/v2 github.com/klolo/xmlrpc v0.0.0- 201202021171641- adbofa1dd06b github.com/klolo/xmlrpc qo-module github.com/klolo/xmlrpc v0.0.0- 20220291171641- adbofa1dd06b github.com/klolo/xmlrpc v1.0.0 go-module github.com/klolo/xmlrpc v0.0.0- 20181214104525- 299bdder28165 github.com/logzio/azure-monitor-metrics-receiver v1.0.0 github.com/mattn/go-colorable github.com/mattn/go-isatty github.com/mattn/go-isatty github.com/mattn/go-isatty github.com/mattn/go-isatty github.com/mattn/go-isatty github.com/mattn/go-isatty github.com/microsoft/ApplicationInsights-Go	github.com/jcmturner/aescts/v2	v2.0.0	go-module
github.com/jcmturner/gokrb5/v8 github.com/jcmturner/rpc/v2 github.com/jcmturner/rpc/v2 github.com/jeremywohl/flatten/v2 v2.0.0- 20211013061545- 07e4a09fb8e4 github.com/jmmp/protoreflect github.com/jmspath/go-jmespath github.com/josharian/intern github.com/josharian/intern github.com/json-iterator/go github.com/json-iterator/go github.com/kallard/go-shellquote v0.0.0 go-module github.com/kallard/go-shellquote v0.0.0 github.com/kaluspost/compress github.com/klauspost/cpuid/v2 github.com/kaluspost/pzip github.com/kolo/xmlrpc v0.0.0 github.com/kolo/xmlrpc v0.0.0 go-module github.com/losharian/intern github.com/losharian/intern github.com/losharian/intern github.com/losharian/intern github.com/losharian/intern github.com/kolo/xmlrpc v0.0.0 go-module github.com/losharian/intern go-module github.com/losharian/intern go-module github.com/losharian/intern go-module github.com/losharian/intern go-module github.com/losharian/intern go-module	github.com/jcmturner/dnsutils/v2	v2.0.0	go-module
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github.com/mitchellh/mapstructure v1.5.0 go-module	github.com/mitchellh/mapstructure	v1.5.0	go-module



NAME	VERSION	TYPE
github.com/mitchellh/reflectwalk	v1.0.2	go-module
github.com/modern-go/concurrent	v0.0.0- 20180306012644- bacd9c7ef1dd	go-module
github.com/modern-go/reflect2	v1.0.2	go-module
github.com/montanaflynn/stats	v0.6.6	go-module
github.com/mtibben/percent	v0.2.1	go-module
github.com/multiplay/go-ts3	v1.1.0	go-module
github.com/munnerz/goautoneg	v0.0.0- 20191010083416- a7dc8b61c822	go-module
github.com/naoina/go-stringutil	v0.1.0	go-module
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github.com/nats-io/nats-server/v2	v2.9.9	go-module
github.com/nats-io/nats.go	v1.27.0	go-module
github.com/nats-io/nkeys	v0.4.4	go-module
github.com/nats-io/nuid	v1.0.1	go-module
github.com/netsampler/goflow2	v1.3.3	go-module
github.com/newrelic/newrelic-telemetry-sdk-go	v0.8.1	go-module
github.com/nsqio/go-nsq	v1.1.0	go-module
github.com/olivere/elastic	v6.2.37+incompatible	go-module
github.com/open-telemetry/opentelemetry-collector-contrib/pkg/pdatautil	∨0.79.0	go-module
github.com/openconfig/gnmi	v0.9.1	go-module
github.com/opencontainers/go-digest	v1.0.0	go-module
github.com/opencontainers/image-spec	v1.1.0-rc2	go-module
github.com/opensearch-project/opensearch-go/v2	v2.2.0	go-module
github.com/opentracing/opentracing-go	v1.2.1- 0.20220228012449- 10b1cf09e00b	go-module
github.com/p4lang/p4runtime	v1.3.0	go-module
github.com/pborman/ansi	v1.0.0	go-module
github.com/philhofer/fwd	v1.1.2	go-module
github.com/pierrec/lz4/v4	v4.1.17	go-module
github.com/pion/dtls/v2	v2.2.7	go-module
github.com/pion/logging	v0.2.2	go-module
github.com/pion/transport/v2	v2.2.1	go-module
github.com/pkg/browser	v0.0.0- 20210911075715- 681adbf594b8	go-module
github.com/pkg/errors	v0.9.1	go-module
github.com/pmezard/go-difflib	v1.0.0	go-module
github.com/prometheus-community/pro-bing	v0.2.0	go-module
github.com/prometheus/client_golang	v1.15.1	go-module
github.com/prometheus/client_model	v0.4.0	go-module
github.com/prometheus/common	v0.44.0	go-module
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NAME	VERSION	TYPE
github.com/prometheus/procfs	v0.9.0	go-module
github.com/prometheus/prometheus	v0.42.0	go-module
github.com/rabbitmq/amqp091-go	v1.8.1	go-module
github.com/rcrowley/go-metrics	v0.0.0- 20201227073835- cf1acfcdf475	go-module
github.com/riemann/riemann-go-client	v0.5.1- 0.20211206220514- f58f10cdce16	go-module
github.com/robbiet480/go.nut	v0.0.0- 20220219091450- bd8f121e1fa1	go-module
github.com/russross/blackfriday/v2	v2.1.0	go-module
github.com/samuel/go-zookeeper	v0.0.0- 20200724154423- 2164a8ac840e	go-module
github.com/shirou/gopsutil/v3	v3.23.5	go-module
github.com/showwin/speedtest-go	v1.6.2	go-module
github.com/signalfx/com_signalfx_metrics_protobuf	v0.0.3	go-module
github.com/signalfx/gohistogram	v0.0.0- 20160107210732- 1ccfd2ff5083	go-module
github.com/signalfx/golib/v3	v3.3.50	go-module
github.com/signalfx/sapm-proto	v0.12.0	go-module
github.com/sirupsen/logrus	v1.9.0	go-module
github.com/sleepinggenius2/gosmi	v0.4.4	go-module
github.com/snowflakedb/gosnowflake	v1.6.13	go-module
github.com/spf13/pflag	v1.0.5	go-module
github.com/stoewer/go-strcase	v1.2.0	go-module
github.com/stretchr/objx	v0.5.0	go-module
github.com/stretchr/testify	v1.8.4	go-module
github.com/thomasklein94/packer-plugin-libvirt	v0.3.4	go-module
github.com/tidwall/gjson	v1.14.4	go-module
github.com/tidwall/match	v1.1.1	go-module
github.com/tidwall/pretty	v1.2.0	go-module
github.com/tinylib/msgp	v1.1.8	go-module
github.com/tklauser/go-sysconf	v0.3.11	go-module
github.com/uber/jaeger-client-go	v2.30.0+incompatible	go-module
github.com/uber/jaeger-lib	v2.4.1+incompatible	go-module
github.com/urfave/cli/v2	v2.25.5	go-module
github.com/vapourismo/knx-go	v0.0.0- 20220829185957- fb5458a5389d	go-module
github.com/vjeantet/grok	v1.0.1	go-module



NAME	VERSION	TYPE
github.com/vmware/govmomi	v0.28.1-	go-module
	0.20220921224932- b4b508abf208	
github.com/wavefronthq/wavefront-sdk-go	v0.13.0	go-module
github.com/wvanbergen/kafka	v0.0.0- 20171203153745- e2edea948ddf	go-module
github.com/wvanbergen/kazoo-go	v0.0.0- 20180202103751- f72d8611297a	go-module
github.com/x448/float16	v0.8.4	go-module
github.com/xdg-go/pbkdf2	v1.0.0	go-module
github.com/xdg-go/scram	v1.1.2	go-module
github.com/xdg-go/stringprep	v1.0.4	go-module
github.com/xdg/scram	v1.0.5	go-module
github.com/xdg/stringprep	v1.0.3	go-module
github.com/xrash/smetrics	v0.0.0- 20201216005158- 039620a65673	go-module
github.com/youmark/pkcs8	v0.0.0- 20201027041543- 1326539a0a0a	go-module
github.com/yuin/gopher-lua	v0.0.0- 20200816102855- ee81675732da	go-module
github.com/zeebo/xxh3	v1.0.2	go-module
go.mongodb.org/mongo-driver	v1.11.2	go-module
go.opencensus.io	v0.24.0	go-module
go.opentelemetry.io/collector/consumer	v0.79.0	go-module
go.opentelemetry.io/collector/pdata	v1.0.0-rcv0012	go-module
go.opentelemetry.io/collector/semconv	v0.79.0	go-module
go.starlark.net	v0.0.0- 20220328144851- d1966c6b9fcd	go-module
go.uber.org/atomic	v1.11.0	go-module
go.uber.org/multierr	v1.11.0	go-module
go.uber.org/zap	v1.24.0	go-module
golang.org/x/crypto	v0.9.0	go-module
golang.org/x/exp	v0.0.0- 20230522175609- 2e198f4a06a1	go-module
golang.org/x/net	v0.10.0	go-module
golang.org/x/oauth2	v0.8.0	go-module
golang.org/x/sync	v0.3.0	go-module
golang.org/x/sys	v0.9.0	go-module
golang.org/x/term	v0.9.0	go-module
golang.org/x/text	v0.9.0	go-module



NAME	VERSION	TYPE
golang.org/x/time	v0.3.0	go-module
golang.org/x/xerrors	v0.0.0- 20220907171357- 04be3eba64a2	go-module
golang.zx2c4.com/wireguard/wgctrl	v0.0.0- 20211230205640- daad0b7ba671	go-module
gonum.org/v1/gonum	v0.13.0	go-module
google.golang.org/api	v0.121.0	go-module
google.golang.org/appengine	v1.6.7	go-module
google.golang.org/genproto	v0.0.0- 20230530153820- e85fd2cbaebc	go-module
google.golang.org/genproto/googleapis/api	v0.0.0- 20230530153820- e85fd2cbaebc	go-module
google.golang.org/genproto/googleapis/rpc	v0.0.0- 20230530153820- e85fd2cbaebc	go-module
google.golang.org/grpc	v1.55.0	go-module
google.golang.org/protobuf	v1.30.0	go-module
google/apiclient-services	v0.113	php- composer
google/auth	v1.5.2	php- composer
gopkg.in/fatih/pool.v2	v2.0.0	go-module
gopkg.in/fsnotify.v1	v1.4.7	go-module
gopkg.in/gorethink/gorethink.v3	v3.0.5	go-module
gopkg.in/inf.v0	v0.9.1	go-module
gopkg.in/ini.v1	v1.67.0	go-module
gopkg.in/olivere/elastic.v5	v5.0.86	go-module
gopkg.in/tomb.v1	v1.0.0- 20141024135613- dd632973f1e7	go-module
gopkg.in/tomb.v2	v2.0.0- 20161208151619- d5d1b5820637	go-module
gopkg.in/yaml.v2	v2.4.0	go-module
gopkg.in/yaml.v3	v3.0.1	go-module
guzzlehttp/guzzle	6.3.3	php- composer
guzzlehttp/promises	v1.3.1	php- composer
guzzlehttp/psr7	1.6.1	php- composer
h11	0.14.0	python
h2	4.0.0	python



NAME	VERSION	ТҮРЕ
hpack	4.0.0	python
httpcore	0.17.3	python
httpx	0.24.1	python
hyperframe	6.0.0	python
idna	3.4	python
idila	5.4	рушоп
k8s.io/api	v0.27.2	go-module
k8s.io/apimachinery	v0.27.2	go-module
k8s.io/client-go	v0.27.2	go-module
k8s.io/klog/v2	v2.90.1	go-module
k8s.io/kube-openapi	v0.0.0- 20230501164219- 8b0f38b5fd1f	go-module
k8s.io/utils	v0.0.0- 20230308161112- d77c459e9343	go-module
layeh.com/radius	v0.0.0- 20221205141417- e7fbddd11d68	go-module
libphp	8.2.8	binary
monolog/monolog	2.0.0	php- composer
netaddr	0.8.0	python
numexpr	2.8.4	python
numpy	1.25.0	python
outcome	1.2.0	python
pandas	2.0.3	python
php-cli	8.2.8	binary
php-fpm	8.2.8	binary
phpseclib/phpseclib	2.0.21	php- composer
psr/cache	1.0.1	php- composer
psr/http-message	1.0.1	php- composer
psr/log	1.1.0	php- composer
pyOpenSSL	21.0.0	python
pycparser	2.21	python
pylsqpack	0.3.17	python
python	3.9.17	binary
python-dateutil	2.8.2	python
pytz	2023.3	python
ralouphie/getallheaders	3.0.3	php-
	2.24.0	composer
requests	2.31.0	python



NAME	VERSION	TYPE
setuptools	63.1.0	python
sigs.k8s.io/json	v0.0.0- 20221116044647- bc3834ca7abd	go-module
sigs.k8s.io/structured-merge-diff/v4	v4.2.3	go-module
sigs.k8s.io/yaml	v1.3.0	go-module
six	1.16.0	python
sniffio	1.3.0	python
sortedcontainers	2.4.0	python
sqlite3	0.0.0	python
trio	0.22.2	python
tzdata	2023.3	python
ujson	5.8.0	python
urllib3	1.26.16	python
vici	5.9.11	python



About Mercury

Mercury Information Security Services is a leading provider of information security services, advice and consulting in Australia.

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