

# Scan Report

December 19, 2023

## Summary

This document reports on the results of an automatic security scan. All dates are displayed using the timezone “Coordinated Universal Time”, which is abbreviated “UTC”. The task was “shpcvm-1a88c.serverlet.com”. The scan started at Tue Dec 19 11:46:56 2023 UTC and ended at Tue Dec 19 11:57:46 2023 UTC. The report first summarises the results found. Then, for each host, the report describes every issue found. Please consider the advice given in each description, in order to rectify the issue.

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## 1 Result Overview

Host	High	Medium	Low	Log	False Positive
<a href="#">5.196.128.39</a> <a href="#">shpcvm-1a88c.serverlet.com</a>	3	3	2	0	0
Total: 1	3	3	2	0	0

Vendor security updates are not trusted.

Overrides are off. Even when a result has an override, this report uses the actual threat of the result.

Information on overrides is included in the report.

Notes are included in the report.

This report might not show details of all issues that were found.

Issues with the threat level “Log” are not shown.

Issues with the threat level “Debug” are not shown.

Issues with the threat level “False Positive” are not shown.

Only results with a minimum QoD of 70 are shown.

This report contains all 8 results selected by the filtering described above. Before filtering there were 55 results.

### 1.1 Host Authentications

Host	Protocol	Result	Port/User
5.196.128.39 - shpcvm-1a88c.serverlet.com	SSH	Success	Protocol SSH, Port 22, User root

## 2 Results per Host

### 2.1 5.196.128.39

Host scan start Tue Dec 19 11:47:40 2023 UTC

Host scan end Tue Dec 19 11:57:43 2023 UTC

Service (Port)	Threat Level
<a href="#">package</a>	High
<a href="#">22/tcp</a>	Medium
<a href="#">general/tcp</a>	Medium
<a href="#">general/tcp</a>	Low
<a href="#">general/icmp</a>	Low

#### 2.1.1 High package

<p>High (CVSS: 7.5)  NVT: Debian: Security Advisory (DSA-5532)</p>
<p><b>Summary</b>  The remote host is missing an update for the Debian 'openssl' package(s) announced via the DSA-5532 advisory.</p>
<p><b>Quality of Detection: 97</b></p>
<p><b>Vulnerability Detection Result</b>  Vulnerable package: libssl3  Installed version: libssl3-3.0.11-1~deb12u1  Fixed version: &gt;=libssl3-3.0.11-1~deb12u2  Vulnerable package: openssl  Installed version: openssl-3.0.11-1~deb12u1  Fixed version: &gt;=openssl-3.0.11-1~deb12u2</p>
<p><b>Solution:</b>  <b>Solution type:</b> VendorFix  Please install the updated package(s).</p>
<p><b>Affected Software/OS</b>  'openssl' package(s) on Debian 12.</p>
<p><b>Vulnerability Insight</b>  Tony Battersby reported that incorrect cipher key and IV length processing in OpenSSL, a Secure Sockets Layer toolkit, may result in loss of confidentiality for some symmetric cipher modes. Additional details can be found in the upstream advisory: [link moved to references]  For the stable distribution (bookworm), this problem has been fixed in version 3.0.11-1 deb12u2. We recommend that you upgrade your openssl packages.  For the detailed security status of openssl please refer to its security tracker page at: [link moved to references]</p>
<p><b>Vulnerability Detection Method</b>  Checks if a vulnerable package version is present on the target host.  Details: Debian: Security Advisory (DSA-5532)  OID:1.3.6.1.4.1.25623.1.1.1.1.2023.5532  Version used: 2023-11-13T04:20:32Z</p>
<p><b>References</b>  url: <a href="https://www.debian.org/security/2023/dsa-5532">https://www.debian.org/security/2023/dsa-5532</a>  url: <a href="https://security-tracker.debian.org/tracker/DSA-5532">https://security-tracker.debian.org/tracker/DSA-5532</a>  url: <a href="https://www.openssl.org/news/secadv/20231024.txt">https://www.openssl.org/news/secadv/20231024.txt</a>  url: <a href="https://security-tracker.debian.org/tracker/openssl">https://security-tracker.debian.org/tracker/openssl</a>  cve: CVE-2023-5363  advisory_id: DSA-5532  cert-bund: WID-SEC-2023-3032</p>
<p>... continues on next page ...</p>

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cert-bund: WID-SEC-2023-2741  
 dfn-cert: DFN-CERT-2023-2624  
 dfn-cert: DFN-CERT-2023-2615  
 dfn-cert: DFN-CERT-2023-2610

**High (CVSS: 8.8)**  
**NVT: Debian: Security Advisory (DSA-5553)**

### Summary

The remote host is missing an update for the Debian 'postgresql-15' package(s) announced via the DSA-5553 advisory.

**Quality of Detection: 97**

### Vulnerability Detection Result

Vulnerable package: libpq5  
 Installed version: libpq5-15.3-0+deb12u1  
 Fixed version: >=libpq5-15.5-0+deb12u1

### Solution:

**Solution type:** VendorFix  
 Please install the updated package(s).

### Affected Software/OS

'postgresql-15' package(s) on Debian 12.

### Vulnerability Insight

Several vulnerabilities have been discovered in the PostgreSQL database system.

CVE-2023-5868

Jingzhou Fu discovered a memory disclosure flaw in aggregate function calls.

CVE-2023-5869

Pedro Gallegos reported integer overflow flaws resulting in buffer overflows in the array modification functions.

CVE-2023-5870

Hemanth Sandrana and Mahendrakar Srinivasarao reported that the pg\_cancel\_backend role can signal certain superuser processes, potentially resulting in denial of service.

CVE-2023-39417

Micah Gate, Valerie Woolard, Tim Carey-Smith, and Christoph Berg reported that an extension script using @substitutions@ within quoting may allow to perform an SQL injection for an attacker having database-level CREATE privileges.

CVE-2023-39418

Dean Rasheed reported that the MERGE command fails to enforce UPDATE or SELECT row security policies.

For the stable distribution (bookworm), these problems have been fixed in version 15.5-0+deb12u1.

We recommend that you upgrade your postgresql-15 packages.

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For the detailed security status of postgresql-15 please refer to its security tracker page at: [link moved to references]

#### Vulnerability Detection Method

Checks if a vulnerable package version is present on the target host.

Details: Debian: Security Advisory (DSA-5553)

OID:1.3.6.1.4.1.25623.1.1.1.1.2023.5553

Version used: 2023-12-15T04:21:33Z

#### References

url: <https://www.debian.org/security/2023/dsa-5553>

url: <https://security-tracker.debian.org/tracker/DSA-5553>

url: <https://security-tracker.debian.org/tracker/postgresql-15>

cve: CVE-2023-39417

cve: CVE-2023-39418

cve: CVE-2023-5868

cve: CVE-2023-5869

cve: CVE-2023-5870

advisory\_id: DSA-5553

cert-bund: WID-SEC-2023-3041

cert-bund: WID-SEC-2023-2873

cert-bund: WID-SEC-2023-2038

dfn-cert: DFN-CERT-2023-3132

dfn-cert: DFN-CERT-2023-3125

dfn-cert: DFN-CERT-2023-2983

dfn-cert: DFN-CERT-2023-2813

dfn-cert: DFN-CERT-2023-2812

dfn-cert: DFN-CERT-2023-2788

dfn-cert: DFN-CERT-2023-1855

High (CVSS: 7.5)

NVT: Debian: Security Advisory (DSA-5570)

#### Summary

The remote host is missing an update for the Debian 'nghttp2' package(s) announced via the DSA-5570 advisory.

**Quality of Detection: 97**

#### Vulnerability Detection Result

Vulnerable package: libnghttp2-14

Installed version: libnghttp2-14-1.52.0-1

Fixed version: >=libnghttp2-14-1.52.0-1+deb12u1

#### Solution:

**Solution type:** VendorFix

Please install the updated package(s).

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### Affected Software/OS

'nghttp2' package(s) on Debian 11, Debian 12.

### Vulnerability Insight

It was discovered that libnghttp2, a library implementing the HTTP/2 protocol, handled request cancellation incorrectly. This could result in denial of service.

For the oldstable distribution (bullseye), this problem has been fixed in version 1.43.0-1+deb11u1.

For the stable distribution (bookworm), this problem has been fixed in version 1.52.0-1+deb12u1.

We recommend that you upgrade your nghttp2 packages.

For the detailed security status of nghttp2 please refer to its security tracker page at: [link moved to references]

### Vulnerability Detection Method

Checks if a vulnerable package version is present on the target host.

Details: Debian: Security Advisory (DSA-5570)

OID:1.3.6.1.4.1.25623.1.1.1.1.2023.5570

Version used: 2023-12-04T04:22:47Z

### References

url: <https://www.debian.org/security/2023/dsa-5570>

url: <https://security-tracker.debian.org/tracker/DSA-5570>

url: <https://security-tracker.debian.org/tracker/nghttp2>

cve: CVE-2023-44487

advisory\_id: DSA-5570

cert-bund: WID-SEC-2023-2993

cert-bund: WID-SEC-2023-2788

cert-bund: WID-SEC-2023-2723

cert-bund: WID-SEC-2023-2655

cert-bund: WID-SEC-2023-2628

cert-bund: WID-SEC-2023-2627

cert-bund: WID-SEC-2023-2618

cert-bund: WID-SEC-2023-2611

cert-bund: WID-SEC-2023-2606

dfn-cert: DFN-CERT-2023-3124

dfn-cert: DFN-CERT-2023-3119

dfn-cert: DFN-CERT-2023-3073

dfn-cert: DFN-CERT-2023-3059

dfn-cert: DFN-CERT-2023-3035

dfn-cert: DFN-CERT-2023-3007

dfn-cert: DFN-CERT-2023-2996

dfn-cert: DFN-CERT-2023-2991

dfn-cert: DFN-CERT-2023-2971

dfn-cert: DFN-CERT-2023-2959

dfn-cert: DFN-CERT-2023-2912

dfn-cert: DFN-CERT-2023-2892

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dfn-cert: DFN-CERT-2023-2882  
dfn-cert: DFN-CERT-2023-2876  
dfn-cert: DFN-CERT-2023-2864  
dfn-cert: DFN-CERT-2023-2851  
dfn-cert: DFN-CERT-2023-2849  
dfn-cert: DFN-CERT-2023-2787  
dfn-cert: DFN-CERT-2023-2785  
dfn-cert: DFN-CERT-2023-2730  
dfn-cert: DFN-CERT-2023-2729  
dfn-cert: DFN-CERT-2023-2708  
dfn-cert: DFN-CERT-2023-2696  
dfn-cert: DFN-CERT-2023-2695  
dfn-cert: DFN-CERT-2023-2680  
dfn-cert: DFN-CERT-2023-2677  
dfn-cert: DFN-CERT-2023-2675  
dfn-cert: DFN-CERT-2023-2670  
dfn-cert: DFN-CERT-2023-2666  
dfn-cert: DFN-CERT-2023-2646  
dfn-cert: DFN-CERT-2023-2637  
dfn-cert: DFN-CERT-2023-2636  
dfn-cert: DFN-CERT-2023-2635  
dfn-cert: DFN-CERT-2023-2623  
dfn-cert: DFN-CERT-2023-2603  
dfn-cert: DFN-CERT-2023-2600  
dfn-cert: DFN-CERT-2023-2599  
dfn-cert: DFN-CERT-2023-2597  
dfn-cert: DFN-CERT-2023-2596  
dfn-cert: DFN-CERT-2023-2595  
dfn-cert: DFN-CERT-2023-2590  
dfn-cert: DFN-CERT-2023-2589  
dfn-cert: DFN-CERT-2023-2586  
dfn-cert: DFN-CERT-2023-2585  
dfn-cert: DFN-CERT-2023-2572  
dfn-cert: DFN-CERT-2023-2571  
dfn-cert: DFN-CERT-2023-2568  
dfn-cert: DFN-CERT-2023-2564  
dfn-cert: DFN-CERT-2023-2556  
dfn-cert: DFN-CERT-2023-2555  
dfn-cert: DFN-CERT-2023-2552  
dfn-cert: DFN-CERT-2023-2549  
dfn-cert: DFN-CERT-2023-2547  
dfn-cert: DFN-CERT-2023-2528  
dfn-cert: DFN-CERT-2023-2522  
dfn-cert: DFN-CERT-2023-2512  
dfn-cert: DFN-CERT-2023-2504  
dfn-cert: DFN-CERT-2023-2501  
dfn-cert: DFN-CERT-2023-2487

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```
dfn-cert: DFN-CERT-2023-2469
dfn-cert: DFN-CERT-2023-2468
dfn-cert: DFN-CERT-2023-2459
dfn-cert: DFN-CERT-2023-2457
dfn-cert: DFN-CERT-2023-2453
dfn-cert: DFN-CERT-2023-2450
dfn-cert: DFN-CERT-2023-2449
dfn-cert: DFN-CERT-2023-2439
```

[\[ return to 5.196.128.39 \]](#)

### 2.1.2 Medium 22/tcp

Medium (CVSS: 5.3) NVT: Weak Key Exchange (KEX) Algorithm(s) Supported (SSH)						
<p><b>Summary</b> The remote SSH server is configured to allow / support weak key exchange (KEX) algorithm(s).</p>						
<p><b>Quality of Detection:</b> 80</p>						
<p><b>Vulnerability Detection Result</b> The remote SSH server supports the following weak KEX algorithm(s):</p> <table border="0"> <thead> <tr> <th style="text-align: left;">KEX algorithm</th> <th style="text-align: left;">Reason</th> </tr> </thead> <tbody> <tr> <td>-----</td> <td></td> </tr> <tr> <td>diffie-hellman-group-exchange-sha1</td> <td>Using SHA-1</td> </tr> </tbody> </table>	KEX algorithm	Reason	-----		diffie-hellman-group-exchange-sha1	Using SHA-1
KEX algorithm	Reason					
-----						
diffie-hellman-group-exchange-sha1	Using SHA-1					
<p><b>Impact</b> An attacker can quickly break individual connections.</p>						
<p><b>Solution:</b> <b>Solution type:</b> Mitigation Disable the reported weak KEX algorithm(s) - 1024-bit MODP group / prime KEX algorithms: Alternatively use elliptic-curve Diffie-Hellmann in general, e.g. Curve 25519.</p>						
<p><b>Vulnerability Insight</b> - 1024-bit MODP group / prime KEX algorithms: Millions of HTTPS, SSH, and VPN servers all use the same prime numbers for Diffie-Hellman key exchange. Practitioners believed this was safe as long as new key exchange messages were generated for every connection. However, the first step in the number field sieve-the most efficient algorithm for breaking a Diffie-Hellman connection-is dependent only on this prime. A nation-state can break a 1024-bit prime.</p>						
<p><b>Vulnerability Detection Method</b> ... continues on next page ...</p>						

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Checks the supported KEX algorithms of the remote SSH server.  
 Currently weak KEX algorithms are defined as the following:  
 - non-elliptic-curve Diffie-Hellmann (DH) KEX algorithms with 1024-bit MODP group / prime  
 - ephemerally generated key exchange groups uses SHA-1  
 - using RSA 1024-bit modulus key  
 Details: Weak Key Exchange (KEX) Algorithm(s) Supported (SSH)  
 OID:1.3.6.1.4.1.25623.1.0.150713  
 Version used: 2023-10-12T05:05:32Z

#### References

url: <https://weakdh.org/sysadmin.html>  
 url: <https://www.rfc-editor.org/rfc/rfc9142>  
 url: <https://www.rfc-editor.org/rfc/rfc9142#name-summary-guidance-for-implem>  
 url: <https://www.rfc-editor.org/rfc/rfc6194>  
 url: <https://www.rfc-editor.org/rfc/rfc4253#section-6.5>

[\[ return to 5.196.128.39 \]](#)

### 2.1.3 Medium general/tcp

Medium (CVSS: 5.6)  
 NVT: Missing Linux Kernel mitigations for 'MDS - Microarchitectural Data Sampling' hardware vulnerabilities

#### Product detection result

cpe:/a:linux:kernel  
 Detected by Detection of Linux Kernel mitigation status for hardware vulnerabilities  
 ↪ties (OID: 1.3.6.1.4.1.25623.1.0.108765)

#### Summary

The remote host is missing one or more known mitigation(s) on Linux Kernel side for the referenced 'MDS - Microarchitectural Data Sampling' hardware vulnerabilities.

**Quality of Detection: 80**

#### Vulnerability Detection Result

The Linux Kernel on the remote host is missing the mitigation for the "mds" hardware vulnerabilities as reported by the sysfs interface:

sysfs file checked | Linux Kernel status (SSH response)

-----  
 ↪-----  
 /sys/devices/system/cpu/vulnerabilities/mds | Vulnerable: Clear CPU buffers attempted, no microcode; SMT Host state unknown

Notes on the "Linux Kernel status (SSH response)" column:

- sysfs file missing: The sysfs interface is available but the sysfs file for th

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<p>↪is specific vulnerability is missing. This means the current Linux Kernel does  ↪n't know this vulnerability yet. Based on this it is assumed that it doesn't p  ↪rovide any mitigation and that the target system is vulnerable.</p> <ul style="list-style-type: none"> <li>- Strings including "Mitigation:", "Not affected" or "Vulnerable" are reported d  ↪irectly by the Linux Kernel.</li> <li>- All other strings are responses to various SSH commands.</li> </ul>
<p><b>Solution:</b>  <b>Solution type:</b> VendorFix  The following solutions exist:</p> <ul style="list-style-type: none"> <li>- Update to a more recent Linux Kernel to receive mitigations on Kernel level and info about  the mitigation status from it</li> <li>- Enable the mitigation(s) in the Linux Kernel (might be disabled depending on the configuration)</li> </ul> <p>Additional possible mitigations (if provided by the vendor) are to:</p> <ul style="list-style-type: none"> <li>- install a Microcode update</li> <li>- update the BIOS of the Mainboard</li> </ul> <p>Note: Please create an override for this result if the sysfs file is not available but other mitigations  like a Microcode update is already in place.</p>
<p><b>Vulnerability Detection Method</b>  Checks previous gathered information on the mitigation status reported by the Linux Kernel.  Details: Missing Linux Kernel mitigations for 'MDS - Microarchitectural Data Sampling' h.  ↪..  OID:1.3.6.1.4.1.25623.1.0.108840  Version used: 2023-08-14T05:05:34Z</p>
<p><b>Product Detection Result</b>  Product: cpe:/a:linux:kernel  Method: Detection of Linux Kernel mitigation status for hardware vulnerabilities  OID: 1.3.6.1.4.1.25623.1.0.108765)</p>
<p><b>References</b>  cve: CVE-2018-12126  cve: CVE-2018-12130  cve: CVE-2018-12127  cve: CVE-2019-11091  url: <a href="https://www.kernel.org/doc/html/latest/admin-guide/hw-vuln/mds.html">https://www.kernel.org/doc/html/latest/admin-guide/hw-vuln/mds.html</a>  cert-bund: WID-SEC-2023-1692  cert-bund: CB-K19/0414  dfn-cert: DFN-CERT-2020-1041  dfn-cert: DFN-CERT-2020-0069  dfn-cert: DFN-CERT-2020-0048  dfn-cert: DFN-CERT-2019-2374  dfn-cert: DFN-CERT-2019-2214  dfn-cert: DFN-CERT-2019-1985</p>
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```

dfn-cert: DFN-CERT-2019-1767
dfn-cert: DFN-CERT-2019-1414
dfn-cert: DFN-CERT-2019-1235
dfn-cert: DFN-CERT-2019-1200
dfn-cert: DFN-CERT-2019-1172
dfn-cert: DFN-CERT-2019-1151
dfn-cert: DFN-CERT-2019-1149
dfn-cert: DFN-CERT-2019-1122
dfn-cert: DFN-CERT-2019-1083
dfn-cert: DFN-CERT-2019-1036
dfn-cert: DFN-CERT-2019-1032
dfn-cert: DFN-CERT-2019-1026
dfn-cert: DFN-CERT-2019-1025
dfn-cert: DFN-CERT-2019-1024
dfn-cert: DFN-CERT-2019-1017
dfn-cert: DFN-CERT-2019-1012
dfn-cert: DFN-CERT-2019-1009
dfn-cert: DFN-CERT-2019-1005
dfn-cert: DFN-CERT-2019-1004
dfn-cert: DFN-CERT-2019-1003
dfn-cert: DFN-CERT-2019-1002
dfn-cert: DFN-CERT-2019-0994
dfn-cert: DFN-CERT-2019-0990
dfn-cert: DFN-CERT-2019-0989
dfn-cert: DFN-CERT-2019-0988
dfn-cert: DFN-CERT-2019-0987
dfn-cert: DFN-CERT-2019-0986
dfn-cert: DFN-CERT-2019-0977
dfn-cert: DFN-CERT-2019-0974
dfn-cert: DFN-CERT-2019-0971
dfn-cert: DFN-CERT-2019-0969
dfn-cert: DFN-CERT-2019-0950
dfn-cert: DFN-CERT-2018-2399

```

Medium (CVSS: 5.5)

NVT: Missing Linux Kernel mitigations for 'SSB - Speculative Store Bypass' hardware vulnerabilities

**Product detection result**

cpe:/a:linux:kernel

Detected by Detection of Linux Kernel mitigation status for hardware vulnerabilities (OID: 1.3.6.1.4.1.25623.1.0.108765)

**Summary**

The remote host is missing one or more known mitigation(s) on Linux Kernel side for the referenced 'SSB - Speculative Store Bypass' hardware vulnerabilities.

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**Quality of Detection: 80****Vulnerability Detection Result**

The Linux Kernel on the remote host is missing the mitigation for the "spec\_store\_bypass" hardware vulnerabilities as reported by the sysfs interface:

```
sysfs file checked | Linux Kernel status
↳(SSH response)
```

```
-----
↳-----
/sys/devices/system/cpu/vulnerabilities/spec_store_bypass | Vulnerable
```

Notes on the "Linux Kernel status (SSH response)" column:

- sysfs file missing: The sysfs interface is available but the sysfs file for this specific vulnerability is missing. This means the current Linux Kernel does not know this vulnerability yet. Based on this it is assumed that it doesn't provide any mitigation and that the target system is vulnerable.
- Strings including "Mitigation:", "Not affected" or "Vulnerable" are reported directly by the Linux Kernel.
- All other strings are responses to various SSH commands.

**Solution:**

**Solution type:** VendorFix

The following solutions exist:

- Update to a more recent Linux Kernel to receive mitigations on Kernel level and info about the mitigation status from it
- Enable the mitigation(s) in the Linux Kernel (might be disabled depending on the configuration)

Additional possible mitigations (if provided by the vendor) are to:

- install a Microcode update
- update the BIOS of the Mainboard

Note: Please create an override for this result if the sysfs file is not available but other mitigations like a Microcode update is already in place.

**Vulnerability Detection Method**

Checks previous gathered information on the mitigation status reported by the Linux Kernel.

Details: Missing Linux Kernel mitigations for 'SSB - Speculative Store Bypass' hardware .

↳..

OID:1.3.6.1.4.1.25623.1.0.108842

Version used: 2023-08-14T05:05:34Z

**Product Detection Result**

Product: cpe:/a:linux:kernel

Method: Detection of Linux Kernel mitigation status for hardware vulnerabilities

OID: 1.3.6.1.4.1.25623.1.0.108765)

**References**

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cve: CVE-2018-3639  
url: <https://www.kernel.org/doc/html/latest/admin-guide/hw-vuln/index.html>  
cert-bund: WID-SEC-2023-2917  
cert-bund: WID-SEC-2023-2072  
cert-bund: CB-K19/0271  
cert-bund: CB-K19/0047  
cert-bund: CB-K18/1050  
cert-bund: CB-K18/0686  
cert-bund: CB-K18/0682  
dfn-cert: DFN-CERT-2023-1947  
dfn-cert: DFN-CERT-2023-1924  
dfn-cert: DFN-CERT-2023-1904  
dfn-cert: DFN-CERT-2023-1900  
dfn-cert: DFN-CERT-2021-2551  
dfn-cert: DFN-CERT-2020-1987  
dfn-cert: DFN-CERT-2020-1935  
dfn-cert: DFN-CERT-2020-1912  
dfn-cert: DFN-CERT-2020-1783  
dfn-cert: DFN-CERT-2020-1473  
dfn-cert: DFN-CERT-2020-1078  
dfn-cert: DFN-CERT-2019-0622  
dfn-cert: DFN-CERT-2019-0544  
dfn-cert: DFN-CERT-2019-0286  
dfn-cert: DFN-CERT-2019-0258  
dfn-cert: DFN-CERT-2019-0168  
dfn-cert: DFN-CERT-2019-0108  
dfn-cert: DFN-CERT-2019-0069  
dfn-cert: DFN-CERT-2019-0059  
dfn-cert: DFN-CERT-2018-2554  
dfn-cert: DFN-CERT-2018-2441  
dfn-cert: DFN-CERT-2018-2399  
dfn-cert: DFN-CERT-2018-2349  
dfn-cert: DFN-CERT-2018-2302  
dfn-cert: DFN-CERT-2018-2217  
dfn-cert: DFN-CERT-2018-2213  
dfn-cert: DFN-CERT-2018-1982  
dfn-cert: DFN-CERT-2018-1929  
dfn-cert: DFN-CERT-2018-1869  
dfn-cert: DFN-CERT-2018-1767  
dfn-cert: DFN-CERT-2018-1734  
dfn-cert: DFN-CERT-2018-1658  
dfn-cert: DFN-CERT-2018-1651  
dfn-cert: DFN-CERT-2018-1627  
dfn-cert: DFN-CERT-2018-1624  
dfn-cert: DFN-CERT-2018-1500  
dfn-cert: DFN-CERT-2018-1494  
dfn-cert: DFN-CERT-2018-1493

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dfn-cert: DFN-CERT-2018-1446
dfn-cert: DFN-CERT-2018-1435
dfn-cert: DFN-CERT-2018-1374
dfn-cert: DFN-CERT-2018-1353
dfn-cert: DFN-CERT-2018-1351
dfn-cert: DFN-CERT-2018-1323
dfn-cert: DFN-CERT-2018-1304
dfn-cert: DFN-CERT-2018-1270
dfn-cert: DFN-CERT-2018-1260
dfn-cert: DFN-CERT-2018-1234
dfn-cert: DFN-CERT-2018-1228
dfn-cert: DFN-CERT-2018-1205
dfn-cert: DFN-CERT-2018-1183
dfn-cert: DFN-CERT-2018-1151
dfn-cert: DFN-CERT-2018-1129
dfn-cert: DFN-CERT-2018-1117
dfn-cert: DFN-CERT-2018-1105
dfn-cert: DFN-CERT-2018-1042
dfn-cert: DFN-CERT-2018-1041
dfn-cert: DFN-CERT-2018-1025
dfn-cert: DFN-CERT-2018-1023
dfn-cert: DFN-CERT-2018-0993
dfn-cert: DFN-CERT-2018-0992
dfn-cert: DFN-CERT-2018-0991
dfn-cert: DFN-CERT-2018-0987
dfn-cert: DFN-CERT-2018-0976
dfn-cert: DFN-CERT-2018-0973
dfn-cert: DFN-CERT-2018-0972
dfn-cert: DFN-CERT-2018-0970
dfn-cert: DFN-CERT-2018-0966

```

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#### 2.1.4 Low general/tcp

Low (CVSS: 2.6)

NVT: TCP Timestamps Information Disclosure

##### Summary

The remote host implements TCP timestamps and therefore allows to compute the uptime.

**Quality of Detection: 80**

##### Vulnerability Detection Result

It was detected that the host implements RFC1323/RFC7323.

The following timestamps were retrieved with a delay of 1 seconds in-between:

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<p>Packet 1: 4007639691          Packet 2: 4007640782</p>
<p><b>Impact</b>          A side effect of this feature is that the uptime of the remote host can sometimes be computed.</p>
<p><b>Solution:</b>  <b>Solution type:</b> Mitigation          To disable TCP timestamps on linux add the line 'net.ipv4.tcp_timestamps = 0' to /etc/sysctl.conf. Execute 'sysctl -p' to apply the settings at runtime.          To disable TCP timestamps on Windows execute 'netsh int tcp set global timestamps=disabled'          Starting with Windows Server 2008 and Vista, the timestamp can not be completely disabled.          The default behavior of the TCP/IP stack on this Systems is to not use the Timestamp options when initiating TCP connections, but use them if the TCP peer that is initiating communication includes them in their synchronize (SYN) segment.          See the references for more information.</p>
<p><b>Affected Software/OS</b>          TCP implementations that implement RFC1323/RFC7323.</p>
<p><b>Vulnerability Insight</b>          The remote host implements TCP timestamps, as defined by RFC1323/RFC7323.</p>
<p><b>Vulnerability Detection Method</b>          Special IP packets are forged and sent with a little delay in between to the target IP. The responses are searched for a timestamps. If found, the timestamps are reported.          Details: TCP Timestamps Information Disclosure          OID:1.3.6.1.4.1.25623.1.0.80091          Version used: 2023-08-01T13:29:10Z</p>
<p><b>References</b>          url: <a href="https://datatracker.ietf.org/doc/html/rfc1323">https://datatracker.ietf.org/doc/html/rfc1323</a>          url: <a href="https://datatracker.ietf.org/doc/html/rfc7323">https://datatracker.ietf.org/doc/html/rfc7323</a>          url: <a href="https://web.archive.org/web/20151213072445/http://www.microsoft.com/en-us/download/details.aspx?id=9152">https://web.archive.org/web/20151213072445/http://www.microsoft.com/en-us/download/details.aspx?id=9152</a></p>

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### 2.1.5 Low general/icmp

Low (CVSS: 2.1) NVT: ICMP Timestamp Reply Information Disclosure
<p><b>Summary</b>          The remote host responded to an ICMP timestamp request.          ... continues on next page ...</p>

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**Quality of Detection:** 80**Vulnerability Detection Result**

The following response / ICMP packet has been received:

- ICMP Type: 14
- ICMP Code: 0

**Impact**

This information could theoretically be used to exploit weak time-based random number generators in other services.

**Solution:****Solution type:** Mitigation

Various mitigations are possible:

- Disable the support for ICMP timestamp on the remote host completely
- Protect the remote host by a firewall, and block ICMP packets passing through the firewall in either direction (either completely or only for untrusted networks)

**Vulnerability Insight**

The Timestamp Reply is an ICMP message which replies to a Timestamp message. It consists of the originating timestamp sent by the sender of the Timestamp as well as a receive timestamp and a transmit timestamp.

**Vulnerability Detection Method**

Sends an ICMP Timestamp (Type 13) request and checks if a Timestamp Reply (Type 14) is received.

Details: ICMP Timestamp Reply Information Disclosure

OID:1.3.6.1.4.1.25623.1.0.103190

Version used: 2023-05-11T09:09:33Z

**References**

cve: CVE-1999-0524

url: <https://datatracker.ietf.org/doc/html/rfc792>url: <https://datatracker.ietf.org/doc/html/rfc2780>

cert-bund: CB-K15/1514

cert-bund: CB-K14/0632

dfn-cert: DFN-CERT-2014-0658

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