

# Scan Report

May 30, 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 “Immediate scan of IP 172.16.10.0/24”. The scan started at Tue May 30 22:15:08 2023 UTC and ended at Tue May 30 22:31:32 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="#">172.16.10.225</a>	1	3	2	0	0
<a href="#">172.16.10.39</a>	1	3	2	0	0
<a href="#">172.16.10.2</a>	0	0	2	0	0
<a href="#">172.16.10.1</a>	0	0	1	0	0
Total: 4	2	6	7	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 15 results selected by the filtering described above. Before filtering there were 355 results.

## 2 Results per Host

### 2.1 172.16.10.225

Host scan start Tue May 30 22:15:50 2023 UTC

Host scan end Tue May 30 22:31:25 2023 UTC

Service (Port)	Threat Level
<a href="#">80/tcp</a>	High
<a href="#">80/tcp</a>	Medium
<a href="#">22/tcp</a>	Medium
<a href="#">general/icmp</a>	Low
<a href="#">general/tcp</a>	Low

#### 2.1.1 High 80/tcp

High (CVSS: 7.5)

NVT: `phpinfo()` output Reporting

#### Summary

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Many PHP installation tutorials instruct the user to create a file called <code>phpinfo.php</code> or similar containing the <code>phpinfo()</code> statement. Such a file is often left back in the webserver directory.
<b>Vulnerability Detection Result</b> The following files are calling the function <code>phpinfo()</code> which disclose potentially sensitive information: <code>http://172.16.10.225/info.php</code>
<b>Impact</b> Some of the information that can be gathered from this file includes: The username of the user running the PHP process, if it is a sudo user, the IP address of the host, the web server version, the system version (Unix, Linux, Windows, ...), and the root directory of the web server.
<b>Solution:</b> <b>Solution type:</b> Workaround Delete the listed files or restrict access to them.
<b>Vulnerability Detection Method</b> Details: <code>phpinfo()</code> output Reporting OID:1.3.6.1.4.1.25623.1.0.11229 Version used: 2020-08-24T15:18:35Z

[\[ return to 172.16.10.225 \]](#)

### 2.1.2 Medium 80/tcp

Medium (CVSS: 5.8) NVT: HTTP Debugging Methods (TRACE/TRACK) Enabled
<b>Summary</b> The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods which are used to debug web server connections.
<b>Vulnerability Detection Result</b> The web server has the following HTTP methods enabled: TRACE
<b>Impact</b> An attacker may use this flaw to trick your legitimate web users to give him their credentials.
<b>Solution:</b> <b>Solution type:</b> Mitigation Disable the TRACE and TRACK methods in your web server configuration. Please see the manual of your web server or the references for more information.
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<b>Affected Software/OS</b> Web servers with enabled TRACE and/or TRACK methods.
<b>Vulnerability Insight</b> It has been shown that web servers supporting this methods are subject to cross-site-scripting attacks, dubbed XST for Cross-Site-Tracing, when used in conjunction with various weaknesses in browsers.
<b>Vulnerability Detection Method</b> Checks if HTTP methods such as TRACE and TRACK are enabled and can be used. Details: HTTP Debugging Methods (TRACE/TRACK) Enabled OID:1.3.6.1.4.1.25623.1.0.11213 Version used: 2022-05-12T09:32:01Z
<b>References</b> cve: CVE-2003-1567 cve: CVE-2004-2320 cve: CVE-2004-2763 cve: CVE-2005-3398 cve: CVE-2006-4683 cve: CVE-2007-3008 cve: CVE-2008-7253 cve: CVE-2009-2823 cve: CVE-2010-0386 cve: CVE-2012-2223 cve: CVE-2014-7883 url: <a href="http://www.kb.cert.org/vuls/id/288308">http://www.kb.cert.org/vuls/id/288308</a> url: <a href="http://www.securityfocus.com/bid/11604">http://www.securityfocus.com/bid/11604</a> url: <a href="http://www.securityfocus.com/bid/15222">http://www.securityfocus.com/bid/15222</a> url: <a href="http://www.securityfocus.com/bid/19915">http://www.securityfocus.com/bid/19915</a> url: <a href="http://www.securityfocus.com/bid/24456">http://www.securityfocus.com/bid/24456</a> url: <a href="http://www.securityfocus.com/bid/33374">http://www.securityfocus.com/bid/33374</a> url: <a href="http://www.securityfocus.com/bid/36956">http://www.securityfocus.com/bid/36956</a> url: <a href="http://www.securityfocus.com/bid/36990">http://www.securityfocus.com/bid/36990</a> url: <a href="http://www.securityfocus.com/bid/37995">http://www.securityfocus.com/bid/37995</a> url: <a href="http://www.securityfocus.com/bid/9506">http://www.securityfocus.com/bid/9506</a> url: <a href="http://www.securityfocus.com/bid/9561">http://www.securityfocus.com/bid/9561</a> url: <a href="http://www.kb.cert.org/vuls/id/867593">http://www.kb.cert.org/vuls/id/867593</a> url: <a href="https://httpd.apache.org/docs/current/en/mod/core.html#traceenable">https://httpd.apache.org/docs/current/en/mod/core.html#traceenable</a> url: <a href="https://techcommunity.microsoft.com/t5/iis-support-blog/http-track-and-trace-verbs/ba-p/784482">https://techcommunity.microsoft.com/t5/iis-support-blog/http-track-and-trace-verbs/ba-p/784482</a> url: <a href="https://owasp.org/www-community/attacks/Cross_Site_Tracing">https://owasp.org/www-community/attacks/Cross_Site_Tracing</a> cert-bund: CB-K14/0981 dfn-cert: DFN-CERT-2021-1825 dfn-cert: DFN-CERT-2014-1018 ... continues on next page ...

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dfn-cert: DFN-CERT-2010-0020

[\[ return to 172.16.10.225 \]](#)**2.1.3 Medium 22/tcp**

Medium (CVSS: 5.3)

NVT: Weak Key Exchange (KEX) Algorithm(s) Supported (SSH)

**Summary**

The remote SSH server is configured to allow / support weak key exchange (KEX) algorithm(s).

**Vulnerability Detection Result**

The remote SSH server supports the following weak KEX algorithm(s):

KEX algorithm	Reason
-----	
↪-----	
diffie-hellman-group-exchange-sha1	Using SHA-1
diffie-hellman-group1-sha1	Using Oakley Group 2 (a 1024-bit MODP group
↪) and SHA-1	

**Impact**

An attacker can quickly break individual connections.

**Solution:****Solution type:** 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.

**Vulnerability Insight**

- 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.

**Vulnerability Detection Method**

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

- ephemeral generated key exchange groups uses SHA-1

- using RSA 1024-bit modulus key

Details: Weak Key Exchange (KEX) Algorithm(s) Supported (SSH)

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OID:1.3.6.1.4.1.25623.1.0.150713 Version used: 2022-12-08T10:12:32Z
<b>References</b> url: <a href="https://weakdh.org/sysadmin.html">https://weakdh.org/sysadmin.html</a> url: <a href="https://www.rfc-editor.org/rfc/rfc9142.html">https://www.rfc-editor.org/rfc/rfc9142.html</a> url: <a href="https://www.rfc-editor.org/rfc/rfc9142.html#name-summary-guidance-for-imple">https://www.rfc-editor.org/rfc/rfc9142.html#name-summary-guidance-for-imple</a> ↪m url: <a href="https://datatracker.ietf.org/doc/html/rfc6194">https://datatracker.ietf.org/doc/html/rfc6194</a>

Medium (CVSS: 4.3) NVT: Weak Encryption Algorithm(s) Supported (SSH)
<b>Summary</b> The remote SSH server is configured to allow / support weak encryption algorithm(s).
<b>Vulnerability Detection Result</b> The remote SSH server supports the following weak client-to-server encryption al ↪gorithm(s): 3des-cbc aes128-cbc aes192-cbc aes256-cbc blowfish-cbc cast128-cbc The remote SSH server supports the following weak server-to-client encryption al ↪gorithm(s): 3des-cbc aes128-cbc aes192-cbc aes256-cbc blowfish-cbc cast128-cbc
<b>Solution:</b> <b>Solution type:</b> Mitigation Disable the reported weak encryption algorithm(s).
<b>Vulnerability Insight</b> - The 'arcfour' cipher is the Arcfour stream cipher with 128-bit keys. The Arcfour cipher is believed to be compatible with the RC4 cipher [SCHNEIER]. Arcfour (and RC4) has problems with weak keys, and should not be used anymore. - The 'none' algorithm specifies that no encryption is to be done. Note that this method provides no confidentiality protection, and it is NOT RECOMMENDED to use it.
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- A vulnerability exists in SSH messages that employ CBC mode that may allow an attacker to recover plaintext from a block of ciphertext.
<b>Vulnerability Detection Method</b> Checks the supported encryption algorithms (client-to-server and server-to-client) of the remote SSH server. Currently weak encryption algorithms are defined as the following: - Arcfour (RC4) cipher based algorithms - none algorithm - CBC mode cipher based algorithms Details: Weak Encryption Algorithm(s) Supported (SSH) OID:1.3.6.1.4.1.25623.1.0.105611 Version used: 2022-12-09T10:11:04Z
<b>References</b> url: <a href="https://www.rfc-editor.org/rfc/rfc4253#section-6.3">https://www.rfc-editor.org/rfc/rfc4253#section-6.3</a> url: <a href="https://www.kb.cert.org/vuls/id/958563">https://www.kb.cert.org/vuls/id/958563</a>

[\[ return to 172.16.10.225 \]](#)

#### 2.1.4 Low general/icmp

Low (CVSS: 2.1) NVT: ICMP Timestamp Reply Information Disclosure
<b>Summary</b> The remote host responded to an ICMP timestamp request.
<b>Vulnerability Detection Result</b> The following response / ICMP packet has been received: - ICMP Type: 14 - ICMP Code: 0
<b>Impact</b> This information could theoretically be used to exploit weak time-based random number generators in other services.
<b>Solution:</b> <b>Solution type:</b> 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)
<b>Vulnerability Insight</b> ... continues on next page ...

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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.
<b>Vulnerability Detection Method</b> 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
<b>References</b> cve: CVE-1999-0524 url: <a href="https://datatracker.ietf.org/doc/html/rfc792">https://datatracker.ietf.org/doc/html/rfc792</a> url: <a href="https://datatracker.ietf.org/doc/html/rfc2780">https://datatracker.ietf.org/doc/html/rfc2780</a> cert-bund: CB-K15/1514 cert-bund: CB-K14/0632 dfn-cert: DFN-CERT-2014-0658

[\[ return to 172.16.10.225 \]](#)

### 2.1.5 Low general/tcp

Low (CVSS: 2.6) NVT: TCP Timestamps Information Disclosure
<b>Summary</b> The remote host implements TCP timestamps and therefore allows to compute the uptime.
<b>Vulnerability Detection Result</b> It was detected that the host implements RFC1323/RFC7323. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 3722907236 Packet 2: 3722908339
<b>Impact</b> A side effect of this feature is that the uptime of the remote host can sometimes be computed.
<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.
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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.
<b>Affected Software/OS</b> TCP implementations that implement RFC1323/RFC7323.
<b>Vulnerability Insight</b> The remote host implements TCP timestamps, as defined by RFC1323/RFC7323.
<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: 2023-05-11T09:09:33Z
<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>

[ [return to 172.16.10.225](#) ]

## 2.2 172.16.10.39

Host scan start Tue May 30 22:15:50 2023 UTC

Host scan end Tue May 30 22:31:24 2023 UTC

Service (Port)	Threat Level
<a href="#">80/tcp</a>	High
<a href="#">22/tcp</a>	Medium
<a href="#">80/tcp</a>	Medium
<a href="#">general/tcp</a>	Low
<a href="#">general/icmp</a>	Low

### 2.2.1 High 80/tcp

High (CVSS: 7.5)

NVT: `phpinfo()` output Reporting

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<b>Summary</b> Many PHP installation tutorials instruct the user to create a file called <code>phpinfo.php</code> or similar containing the <code>phpinfo()</code> statement. Such a file is often left back in the webserver directory.
<b>Vulnerability Detection Result</b> The following files are calling the function <code>phpinfo()</code> which disclose potentiall ↪y sensitive information: <code>http://172.16.10.39/info.php</code>
<b>Impact</b> Some of the information that can be gathered from this file includes: The username of the user running the PHP process, if it is a sudo user, the IP address of the host, the web server version, the system version (Unix, Linux, Windows, ...), and the root directory of the web server.
<b>Solution:</b> <b>Solution type:</b> Workaround Delete the listed files or restrict access to them.
<b>Vulnerability Detection Method</b> Details: <code>phpinfo()</code> output Reporting OID:1.3.6.1.4.1.25623.1.0.11229 Version used: 2020-08-24T15:18:35Z

[\[ return to 172.16.10.39 \]](#)

### 2.2.2 Medium 22/tcp

Medium (CVSS: 5.3) NVT: Weak Key Exchange (KEX) Algorithm(s) Supported (SSH)												
<b>Summary</b> The remote SSH server is configured to allow / support weak key exchange (KEX) algorithm(s).												
<b>Vulnerability Detection Result</b> The remote SSH server supports the following weak KEX algorithm(s): <table><thead><tr><th>KEX algorithm</th><th>Reason</th></tr></thead><tbody><tr><td colspan="2">-----</td></tr><tr><td colspan="2">↪-----</td></tr><tr><td>diffie-hellman-group-exchange-sha1</td><td>  Using SHA-1</td></tr><tr><td>diffie-hellman-group1-sha1</td><td>  Using Oakley Group 2 (a 1024-bit MODP group</td></tr><tr><td>↪) and SHA-1</td><td></td></tr></tbody></table>	KEX algorithm	Reason	-----		↪-----		diffie-hellman-group-exchange-sha1	Using SHA-1	diffie-hellman-group1-sha1	Using Oakley Group 2 (a 1024-bit MODP group	↪) and SHA-1	
KEX algorithm	Reason											
-----												
↪-----												
diffie-hellman-group-exchange-sha1	Using SHA-1											
diffie-hellman-group1-sha1	Using Oakley Group 2 (a 1024-bit MODP group											
↪) and SHA-1												
<b>Impact</b> ... continues on next page ...												

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An attacker can quickly break individual connections.
<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.
<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.
<b>Vulnerability Detection Method</b> 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 - ephemeral 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: 2022-12-08T10:12:32Z
<b>References</b> url: <a href="https://weakdh.org/sysadmin.html">https://weakdh.org/sysadmin.html</a> url: <a href="https://www.rfc-editor.org/rfc/rfc9142.html">https://www.rfc-editor.org/rfc/rfc9142.html</a> url: <a href="https://www.rfc-editor.org/rfc/rfc9142.html#name-summary-guidance-for-imple">https://www.rfc-editor.org/rfc/rfc9142.html#name-summary-guidance-for-imple</a> ↪m url: <a href="https://datatracker.ietf.org/doc/html/rfc6194">https://datatracker.ietf.org/doc/html/rfc6194</a>
Medium (CVSS: 4.3) NVT: Weak Encryption Algorithm(s) Supported (SSH)
<b>Summary</b> The remote SSH server is configured to allow / support weak encryption algorithm(s).
<b>Vulnerability Detection Result</b> The remote SSH server supports the following weak client-to-server encryption al ↪gorithm(s): 3des-cbc aes128-cbc aes192-cbc
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<pre> aes256-cbc blowfish-cbc cast128-cbc The remote SSH server supports the following weak server-to-client encryption al gorithms(s): 3des-cbc aes128-cbc aes192-cbc aes256-cbc blowfish-cbc cast128-cbc </pre>	
<b>Solution:</b>	
<b>Solution type:</b> Mitigation	
Disable the reported weak encryption algorithm(s).	
<b>Vulnerability Insight</b>	
<ul style="list-style-type: none"> <li>- The 'arcfour' cipher is the Arcfour stream cipher with 128-bit keys. The Arcfour cipher is believed to be compatible with the RC4 cipher [SCHNEIER]. Arcfour (and RC4) has problems with weak keys, and should not be used anymore.</li> <li>- The 'none' algorithm specifies that no encryption is to be done. Note that this method provides no confidentiality protection, and it is NOT RECOMMENDED to use it.</li> <li>- A vulnerability exists in SSH messages that employ CBC mode that may allow an attacker to recover plaintext from a block of ciphertext.</li> </ul>	
<b>Vulnerability Detection Method</b>	
<p>Checks the supported encryption algorithms (client-to-server and server-to-client) of the remote SSH server.</p> <p>Currently weak encryption algorithms are defined as the following:</p> <ul style="list-style-type: none"> <li>- Arcfour (RC4) cipher based algorithms</li> <li>- none algorithm</li> <li>- CBC mode cipher based algorithms</li> </ul> <p>Details: Weak Encryption Algorithm(s) Supported (SSH)</p> <p>OID:1.3.6.1.4.1.25623.1.0.105611</p> <p>Version used: 2022-12-09T10:11:04Z</p>	
<b>References</b>	
<p>url: <a href="https://www.rfc-editor.org/rfc/rfc4253#section-6.3">https://www.rfc-editor.org/rfc/rfc4253#section-6.3</a></p> <p>url: <a href="https://www.kb.cert.org/vuls/id/958563">https://www.kb.cert.org/vuls/id/958563</a></p>	

[\[ return to 172.16.10.39 \]](#)

### 2.2.3 Medium 80/tcp

Medium (CVSS: 5.8) NVT: HTTP Debugging Methods (TRACE/TRACK) Enabled
<b>Summary</b> The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods which are used to debug web server connections.
<b>Vulnerability Detection Result</b> The web server has the following HTTP methods enabled: TRACE
<b>Impact</b> An attacker may use this flaw to trick your legitimate web users to give him their credentials.
<b>Solution:</b> <b>Solution type:</b> Mitigation Disable the TRACE and TRACK methods in your web server configuration. Please see the manual of your web server or the references for more information.
<b>Affected Software/OS</b> Web servers with enabled TRACE and/or TRACK methods.
<b>Vulnerability Insight</b> It has been shown that web servers supporting this methods are subject to cross-site-scripting attacks, dubbed XST for Cross-Site-Tracing, when used in conjunction with various weaknesses in browsers.
<b>Vulnerability Detection Method</b> Checks if HTTP methods such as TRACE and TRACK are enabled and can be used. Details: HTTP Debugging Methods (TRACE/TRACK) Enabled OID:1.3.6.1.4.1.25623.1.0.11213 Version used: 2022-05-12T09:32:01Z
<b>References</b> cve: CVE-2003-1567 cve: CVE-2004-2320 cve: CVE-2004-2763 cve: CVE-2005-3398 cve: CVE-2006-4683 cve: CVE-2007-3008 cve: CVE-2008-7253 cve: CVE-2009-2823 cve: CVE-2010-0386 cve: CVE-2012-2223 cve: CVE-2014-7883 url: <a href="http://www.kb.cert.org/vuls/id/288308">http://www.kb.cert.org/vuls/id/288308</a> url: <a href="http://www.securityfocus.com/bid/11604">http://www.securityfocus.com/bid/11604</a> url: <a href="http://www.securityfocus.com/bid/15222">http://www.securityfocus.com/bid/15222</a>
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url: http://www.securityfocus.com/bid/19915
url: http://www.securityfocus.com/bid/24456
url: http://www.securityfocus.com/bid/33374
url: http://www.securityfocus.com/bid/36956
url: http://www.securityfocus.com/bid/36990
url: http://www.securityfocus.com/bid/37995
url: http://www.securityfocus.com/bid/9506
url: http://www.securityfocus.com/bid/9561
url: http://www.kb.cert.org/vuls/id/867593
url: https://httpd.apache.org/docs/current/en/mod/core.html#traceenable
url: https://techcommunity.microsoft.com/t5/iis-support-blog/http-track-and-trac
↪e-verbs/ba-p/784482
url: https://owasp.org/www-community/attacks/Cross_Site_Tracing
cert-bund: CB-K14/0981
dfn-cert: DFN-CERT-2021-1825
dfn-cert: DFN-CERT-2014-1018
dfn-cert: DFN-CERT-2010-0020

```

[\[ return to 172.16.10.39 \]](#)

### 2.2.4 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.

#### 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:

Packet 1: 3381995275

Packet 2: 3381996345

#### Impact

A side effect of this feature is that the uptime of the remote host can sometimes be computed.

#### Solution:

**Solution type:** 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.

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See the references for more information.
<b>Affected Software/OS</b> TCP implementations that implement RFC1323/RFC7323.
<b>Vulnerability Insight</b> The remote host implements TCP timestamps, as defined by RFC1323/RFC7323.
<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: 2023-05-11T09:09:33Z
<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>

[\[ return to 172.16.10.39 \]](#)

### 2.2.5 Low general/icmp

Low (CVSS: 2.1) NVT: ICMP Timestamp Reply Information Disclosure
<b>Summary</b> The remote host responded to an ICMP timestamp request.
<b>Vulnerability Detection Result</b> The following response / ICMP packet has been received: - ICMP Type: 14 - ICMP Code: 0
<b>Impact</b> This information could theoretically be used to exploit weak time-based random number generators in other services.
<b>Solution:</b> <b>Solution type:</b> Mitigation Various mitigations are possible: - Disable the support for ICMP timestamp on the remote host completely
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...continued from previous page ...
- 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)
<b>Vulnerability Insight</b> 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.
<b>Vulnerability Detection Method</b> 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
<b>References</b> cve: CVE-1999-0524 url: <a href="https://datatracker.ietf.org/doc/html/rfc792">https://datatracker.ietf.org/doc/html/rfc792</a> url: <a href="https://datatracker.ietf.org/doc/html/rfc2780">https://datatracker.ietf.org/doc/html/rfc2780</a> cert-bund: CB-K15/1514 cert-bund: CB-K14/0632 dfn-cert: DFN-CERT-2014-0658

[\[ return to 172.16.10.39 \]](#)

## 2.3 172.16.10.2

Host scan start Tue May 30 22:15:50 2023 UTC  
Host scan end Tue May 30 22:26:43 2023 UTC

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

### 2.3.1 Low general/icmp

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



...continued from previous page ...
<p>The following response / ICMP packet has been received:</p> <ul style="list-style-type: none"> <li>- ICMP Type: 14</li> <li>- ICMP Code: 0</li> </ul>
<p><b>Impact</b></p> <p>This information could theoretically be used to exploit weak time-based random number generators in other services.</p>
<p><b>Solution:</b></p> <p><b>Solution type:</b> Mitigation</p> <p>Various mitigations are possible:</p> <ul style="list-style-type: none"> <li>- Disable the support for ICMP timestamp on the remote host completely</li> <li>- 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)</li> </ul>
<p><b>Vulnerability Insight</b></p> <p>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.</p>
<p><b>Vulnerability Detection Method</b></p> <p>Sends an ICMP Timestamp (Type 13) request and checks if a Timestamp Reply (Type 14) is received.</p> <p>Details: ICMP Timestamp Reply Information Disclosure</p> <p>OID:1.3.6.1.4.1.25623.1.0.103190</p> <p>Version used: 2023-05-11T09:09:33Z</p>
<p><b>References</b></p> <p>cve: CVE-1999-0524</p> <p>url: <a href="https://datatracker.ietf.org/doc/html/rfc792">https://datatracker.ietf.org/doc/html/rfc792</a></p> <p>url: <a href="https://datatracker.ietf.org/doc/html/rfc2780">https://datatracker.ietf.org/doc/html/rfc2780</a></p> <p>cert-bund: CB-K15/1514</p> <p>cert-bund: CB-K14/0632</p> <p>dfn-cert: DFN-CERT-2014-0658</p>

[ [return to 172.16.10.2](#) ]

### 2.3.2 Low general/tcp

<p>Low (CVSS: 2.6)</p> <p>NVT: TCP Timestamps Information Disclosure</p>
<p><b>Summary</b></p> <p>The remote host implements TCP timestamps and therefore allows to compute the uptime.</p>
<p>... continues on next page ...</p>

...continued from previous page...
<b>Vulnerability Detection Result</b> It was detected that the host implements RFC1323/RFC7323. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 4244725919 Packet 2: 4244727003
<b>Impact</b> A side effect of this feature is that the uptime of the remote host can sometimes be computed.
<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.
<b>Affected Software/OS</b> TCP implementations that implement RFC1323/RFC7323.
<b>Vulnerability Insight</b> The remote host implements TCP timestamps, as defined by RFC1323/RFC7323.
<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: 2023-05-11T09:09:33Z
<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>

[ [return to 172.16.10.2](#) ]

## 2.4 172.16.10.1

Host scan start    Tue May 30 22:15:50 2023 UTC  
Host scan end     Tue May 30 22:26:37 2023 UTC

Service (Port)	Threat Level
<a href="#">general/icmp</a>	Low

### 2.4.1 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.</p>
<p><b>Vulnerability Detection Result</b> The following response / ICMP packet has been received:</p> <ul style="list-style-type: none"> <li>- ICMP Type: 14</li> <li>- ICMP Code: 0</li> </ul>
<p><b>Impact</b> This information could theoretically be used to exploit weak time-based random number generators in other services.</p>
<p><b>Solution:</b> <b>Solution type:</b> Mitigation Various mitigations are possible:</p> <ul style="list-style-type: none"> <li>- Disable the support for ICMP timestamp on the remote host completely</li> <li>- 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)</li> </ul>
<p><b>Vulnerability Insight</b> 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.</p>
<p><b>Vulnerability Detection Method</b> 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</p>
<p><b>References</b> cve: CVE-1999-0524 url: <a href="https://datatracker.ietf.org/doc/html/rfc792">https://datatracker.ietf.org/doc/html/rfc792</a> url: <a href="https://datatracker.ietf.org/doc/html/rfc2780">https://datatracker.ietf.org/doc/html/rfc2780</a> cert-bund: CB-K15/1514 cert-bund: CB-K14/0632</p>
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dfn-cert: DFN-CERT-2014-0658
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[ [return to 172.16.10.1](#) ]

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