

Scan Report

December 9, 2018

Summary

This document reports on the results of an automatic security scan. All dates are displayed using the timezone “UTC”, which is abbreviated “UTC”. The task was “rz.lab - internal network assessment”. The scan started at Sun Dec 9 15:22:26 2018 UTC and ended at Sun Dec 9 16:10:43 2018 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.

Contents

1	Result Overview	2
1.1	Host Authentications	2
2	Results per Host	3
2.1	10.100.10.1	3
2.1.1	Medium 53/tcp	3
2.1.2	Low 22/tcp	5
2.1.3	False Positive general/tcp	8
2.2	10.100.10.11	9
2.2.1	Low 22/tcp	9
2.2.2	Low general/tcp	11
2.2.3	False Positive general/tcp	13
2.3	10.100.10.12	14
2.3.1	Low general/tcp	14
2.3.2	Low 22/tcp	15
2.3.3	False Positive general/tcp	18
2.4	10.100.10.3	19
2.4.1	Low 22/tcp	19
2.4.2	Low general/tcp	21
2.4.3	False Positive general/tcp	23
2.5	10.100.10.2	24
2.5.1	Low 22/tcp	24

2.5.2	False Positive general/tcp	27
2.6	10.100.10.4	28
2.6.1	Low 22/tcp	28
2.6.2	False Positive general/tcp	30

1 Result Overview

Host	High	Medium	Low	Log	False Positive
10.100.10.1 router.rz.lab	0	2	2	0	1
10.100.10.11 docker-manager.rz.lab	0	0	3	0	1
10.100.10.12 docker-worker.rz.lab	0	0	3	0	1
10.100.10.3 utility.rz.lab	0	0	3	0	1
10.100.10.2 acs.rz.lab	0	0	2	0	1
10.100.10.4 dc.rz.lab	0	0	2	0	1
Total: 6	0	2	15	0	6

Vendor security updates are trusted, using full CVE matching.

Overrides are on. When a result has an override, this report uses the threat of the override.

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.

It only lists hosts that produced issues.

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

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

This report contains all 23 results selected by the filtering described above. Before filtering there were 203 results.

1.1 Host Authentications

Host	Protocol	Result	Port/User
10.100.10.1 - router.rz.lab	SSH	Success	Protocol SSH, Port 22, User vagrant
10.100.10.11 - docker-manager.rz.lab	SSH	Success	Protocol SSH, Port 22, User vagrant
10.100.10.12 - docker-worker.rz.lab	SSH	Success	Protocol SSH, Port 22, User vagrant
10.100.10.3 - utility.rz.lab	SSH	Success	Protocol SSH, Port 22, User vagrant
10.100.10.2 - acs.rz.lab	SSH	Success	Protocol SSH, Port 22, User vagrant
10.100.10.4 - dc.rz.lab	SSH	Success	Protocol SSH, Port 22, User vagrant

2 Results per Host

2.1 10.100.10.1

Host scan start Sun Dec 9 15:22:43 2018 UTC
Host scan end Sun Dec 9 16:00:13 2018 UTC

Service (Port)	Threat Level
53/tcp	Medium
22/tcp	Low
general/tcp	False Positive

2.1.1 Medium 53/tcp

Medium (Overridden from High) NVT: ISC BIND 'deny-answer-aliases' Denial of Service Vulnerability
Product detection result cpe:/a:isc:bind:9.11.3.1ubuntu1.3 Detected by Determine which version of BIND name daemon is running (OID: 1.3.6.1 ↪ .4.1.25623.1.0.10028)
Summary The host is installed with ISC BIND and is prone to a denial of service vulnerability.
Vulnerability Detection Result Installed version: 9.11.3.1ubuntu1.3 Fixed version: 9.11.4-P1
Impact Successful exploitation will allow remote attackers to cause a denial of service (assertion failure).
Solution Solution type: VendorFix Upgrade to ISC BIND version 9.9.13-P1 or 9.10.8-P1 or 9.11.4-P1 or 9.12.2-P1 or 9.11.3-S3 or later. For updates refer to Reference links.
Affected Software/OS ISC BIND versions 9.7.0 through 9.8.8, 9.9.0 through 9.9.13, 9.10.0 through 9.10.8, 9.11.0 through 9.11.4, 9.12.0 through 9.12.2 and 9.13.0 through 9.13.2.
Vulnerability Insight The flaw exists due to a defect in the feature 'deny-answer-aliases' which leads to assertion failure in 'name.c'.
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Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: ISC BIND 'deny-answer-aliases' Denial of Service Vulnerability OID:1.3.6.1.4.1.25623.1.0.813750 Version used: \$Revision: 12116 \$
Product Detection Result Product: cpe:/a:isc:bind:9.11.3.1ubuntu1.3 Method: Determine which version of BIND name daemon is running OID: 1.3.6.1.4.1.25623.1.0.10028)
References CVE: CVE-2018-5740 Other: URL: https://kb.isc.org/article/AA-01639/0 URL: https://kb.isc.org/article/AA-01646/81/BIND-9.11.3-S3-Release-Notes.html URL: https://kb.isc.org/article/AA-01645/81/BIND-9.12.2-P1-Release-Notes.html URL: https://kb.isc.org/article/AA-01644/81/BIND-9.11.4-P1-Release-Notes.html URL: https://kb.isc.org/article/AA-01643/81/BIND-9.10.8-P1-Release-Notes.html URL: https://kb.isc.org/article/AA-01642/81/BIND-9.9.13-P1-Release-Notes.html URL: https://www.isc.org
Medium (CVSS: 4.3) NVT: ISC BIND 9 Remote Dynamic Update Message Denial of Service Vulnerability
Product detection result cpe:/a:isc:bind:9.11.3.1ubuntu1.3 Detected by Determine which version of BIND name daemon is running (OID: 1.3.6.1.4.1.25623.1.0.10028)
Summary ISC BIND is prone to a remote denial-of-service vulnerability because the application fails to properly handle specially crafted dynamic update requests.
Vulnerability Detection Result It seems that OpenVAS was able to crash the remote Bind. Please check its status right now.
Impact Successfully exploiting this issue allows remote attackers to crash affected DNS servers, denying further service to legitimate users.
Solution Solution type: VendorFix
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The vendor released an advisory and fixes to address this issue. Please see the references for more information.
Affected Software/OS Versions prior to BIND 9.4.3-P3, 9.5.1-P3, and 9.6.1-P1 are vulnerable.
Vulnerability Detection Method Details: ISC BIND 9 Remote Dynamic Update Message Denial of Service Vulnerability OID:1.3.6.1.4.1.25623.1.0.100251 Version used: \$Revision: 4436 \$
Product Detection Result Product: cpe:/a:isc:bind:9.11.3.1ubuntu1.3 Method: Determine which version of BIND name daemon is running OID: 1.3.6.1.4.1.25623.1.0.10028)
References CVE: CVE-2009-0696 BID:35848 Other: URL:http://www.securityfocus.com/bid/35848 URL:https://bugzilla.redhat.com/show_bug.cgi?id=514292 URL:http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=538975 URL:http://www.isc.org/products/BIND/ URL:https://www.isc.org/node/474 URL:http://www.kb.cert.org/vuls/id/725188

[[return to 10.100.10.1](#)]

2.1.2 Low 22/tcp

Low (Overridden from Medium) NVT: OpenSSH User Enumeration Vulnerability-Aug18 (Linux)
Product detection result cpe:/a:openbsd:openssh:7.6p1 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
Summary This host is installed with openssh and is prone to user enumeration vulnerability.
Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable
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Installation	
path / port:	22/tcp
Impact	Successfully exploitation will allow remote attacker to test whether a certain user exists or not (username enumeration) on a target OpenSSH server.
Solution	
Solution type:	NoneAvailable
No known solution is available as of 21st August, 2018. Information regarding this issue will be updated once solution details are available. For updates refer to Reference links.	
Affected Software/OS	
OpenSSH versions 7.7 and prior on Linux	
Vulnerability Insight	
The flaw is due to not delaying bailout for an invalid authenticating user until after the packet containing the request has been fully parsed, related to auth2-gss.c, auth2-hostbased.c, and auth2-pubkey.c	
Vulnerability Detection Method	
Checks if a vulnerable version is present on the target host.	
Details: OpenSSH User Enumeration Vulnerability-Aug18 (Linux)	
OID:1.3.6.1.4.1.25623.1.0.813864	
Version used: \$Revision: 12116 \$	
Product Detection Result	
Product: cpe:/a:openbsd:openssh:7.6p1	
Method: SSH Server type and version	
OID: 1.3.6.1.4.1.25623.1.0.10267)	
References	
CVE: CVE-2018-15473	
Other:	
URL:http://www.openssh.com	
URL:https://0day.city/cve-2018-15473.html	
URL:https://github.com/openbsd/src/commit/779974d35b4859c07bc3cb8a12c74b43b0a↵7d1e0	

Low (Overridden from Medium)

NVT: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux)

Product detection result

cpe:/a:openbsd:openssh:7.6p1

Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)

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Summary This host is installed with openssh and is prone to user enumeration vulnerability.
Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation path / port: 22/tcp
Impact Successfully exploitation will allow remote attacker to harvest valid user accounts, which may aid in brute-force attacks.
Solution Solution type: NoneAvailable No known solution is available as of 05th September, 2018. Information regarding this issue will be updated once solution details are available.
Affected Software/OS OpenSSH version 5.9 to 7.8 on Linux.
Vulnerability Insight The flaw exists in the 'auth-gss2.c' source code file of the affected software and is due to insufficient validation of an authentication request packet when the Guide Star Server II (GSS2) component is used on an affected system.
Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux) OID:1.3.6.1.4.1.25623.1.0.813888 Version used: \$Revision: 12308 \$
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
References CVE: CVE-2018-15919 Other: URL: http://www.openssh.com URL: https://bugzilla.novell.com/show_bug.cgi?id=1106163 URL: https://seclists.org/oss-sec/2018/q3/180

[\[return to 10.100.10.1 \]](#)

2.1.3 False Positive general/tcp

False Positive (Overridden from Medium) NVT: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux)
Summary This host is installed with GZip and is prone to Input Validation Vulnerability
Vulnerability Detection Result The target host was found to be vulnerable
Impact Successful exploitation could result in Denial of service (application crash or infinite loop) or possibly execute arbitrary code via a crafted archive.
Solution Solution type: VendorFix Update to GZip version 1.3.13 or later.
Affected Software/OS GZip version prior to 1.3.13 on Linux.
Vulnerability Insight The flaw is due to error in 'huft_build()' function in 'inflate.c', creates a hufts table that is too small.
Vulnerability Detection Method Details: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux) OID:1.3.6.1.4.1.25623.1.0.800453 Version used: \$Revision: 12690 \$
References CVE: CVE-2009-2624 BID:37888 Other: URL:http://secunia.com/advisories/38132 URL:http://www.vupen.com/english/advisories/2010/0185 URL:https://bugzilla.redhat.com/show_bug.cgi?id=514711 URL:http://www.gzip.org/index-f.html#sources URL:http://git.savannah.gnu.org/cgit/gzip.git/commit/?id=39a362ae9d9b00747338 ↪1dba5032f4dfc1744cf2

[\[return to 10.100.10.1 \]](#)

2.2 10.100.10.11

Host scan start Sun Dec 9 15:22:43 2018 UTC
 Host scan end Sun Dec 9 16:05:53 2018 UTC

Service (Port)	Threat Level
22/tcp	Low
general/tcp	Low
general/tcp	False Positive

2.2.1 Low 22/tcp

Low (Overridden from Medium) NVT: OpenSSH User Enumeration Vulnerability-Aug18 (Linux)
Product detection result cpe:/a:openbsd:openssh:7.6p1 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
Summary This host is installed with openssh and is prone to user enumeration vulnerability.
Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation path / port: 22/tcp
Impact Successfully exploitation will allow remote attacker to test whether a certain user exists or not (username enumeration) on a target OpenSSH server.
Solution Solution type: NoneAvailable No known solution is available as of 21st August, 2018. Information regarding this issue will be updated once solution details are available. For updates refer to Reference links.
Affected Software/OS OpenSSH versions 7.7 and prior on Linux
Vulnerability Insight The flaw is due to not delaying bailout for an invalid authenticating user until after the packet containing the request has been fully parsed, related to auth2-gss.c, auth2-hostbased.c, and auth2-pubkey.c
Vulnerability Detection Method ... continues on next page ...

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<p>Checks if a vulnerable version is present on the target host. Details: OpenSSH User Enumeration Vulnerability-Aug18 (Linux) OID:1.3.6.1.4.1.25623.1.0.813864 Version used: \$Revision: 12116 \$</p>
<p>Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)</p>
<p>References CVE: CVE-2018-15473 Other: URL:http://www.openssh.com URL:https://0day.city/cve-2018-15473.html URL:https://github.com/openbsd/src/commit/779974d35b4859c07bc3cb8a12c74b43b0a↵7d1e0</p>

<p>Low (Overridden from Medium) NVT: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux)</p>
<p>Product detection result cpe:/a:openbsd:openssh:7.6p1 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)</p>
<p>Summary This host is installed with openssh and is prone to user enumeration vulnerability.</p>
<p>Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation path / port: 22/tcp</p>
<p>Impact Successfully exploitation will allow remote attacker to harvest valid user accounts, which may aid in brute-force attacks.</p>
<p>Solution Solution type: NoneAvailable No known solution is available as of 05th September, 2018. Information regarding this issue will be updated once solution details are available.</p>
<p>Affected Software/OS</p>
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...continued from previous page ...
OpenSSH version 5.9 to 7.8 on Linux.
Vulnerability Insight The flaw exists in the 'auth-gss2.c' source code file of the affected software and is due to insufficient validation of an authentication request packet when the Guide Star Server II (GSS2) component is used on an affected system.
Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux) OID:1.3.6.1.4.1.25623.1.0.813888 Version used: \$Revision: 12308 \$
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
References CVE: CVE-2018-15919 Other: URL:http://www.openssh.com URL:https://bugzilla.novell.com/show_bug.cgi?id=1106163 URL:https://seclists.org/oss-sec/2018/q3/180

[\[return to 10.100.10.11 \]](#)

2.2.2 Low general/tcp

Low (CVSS: 2.6) NVT: TCP timestamps
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. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 4152699885 Packet 2: 4152700938
Impact A side effect of this feature is that the uptime of the remote host can sometimes be computed.
Solution ... continues on next page ...

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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.

See also: <http://www.microsoft.com/en-us/download/details.aspx?id=9152>

Affected Software/OS

TCP/IPv4 implementations that implement RFC1323.

Vulnerability Insight

The remote host implements TCP timestamps, as defined by RFC1323.

Vulnerability Detection Method

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

OID:1.3.6.1.4.1.25623.1.0.80091

Version used: \$Revision: 10411 \$

References

Other:

URL:<http://www.ietf.org/rfc/rfc1323.txt>

Note

```
vagrant@docker-manager:~$ sudo ./verify_tcp_timestamps_mitigation.sh
tcp_timestamps Status for Container Host:
net.ipv4.tcp_timestamps = 0
/usr/bin/docker
CONTAINER ID          IMAGE                COMMAND              CREATED
↪ STATUS              PORTS              NAMES
618c683b4e9c          traefik:1.7.5       "/traefik --debug=tr... 2 days ago
↪ Up 2 days           80/tcp             lbr_traefik.lr51y1kymw9ojw8pheyi2
↪b168.xb97dmsh4wmklhjl74ropbyly
tcp_timestamps Status for guest containers:
618c683b4e9c: OCI runtime exec failed: exec failed: container_linux.go:348: star
↪ting container process caused "exec: \"sysctl\": executable file not found in
↪$PATH": unknown
Container host confirmed to have mitigated this vulnerability detection result.
traefik container image assumed to be implementing RFC 1323.
sysctl binary was not available on traefik container image to verify mitigation
↪status.
```

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Last modified: Sun Dec 9 16:19:19 2018 UTC

[\[return to 10.100.10.11 \]](#)**2.2.3 False Positive general/tcp**

False Positive (Overridden from Medium)

NVT: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux)

Summary

This host is installed with GZip and is prone to Input Validation Vulnerability

Vulnerability Detection Result

The target host was found to be vulnerable

Impact

Successful exploitation could result in Denial of service (application crash or infinite loop) or possibly execute arbitrary code via a crafted archive.

Solution**Solution type:** VendorFix

Update to GZip version 1.3.13 or later.

Affected Software/OS

GZip version prior to 1.3.13 on Linux.

Vulnerability Insight

The flaw is due to error in 'huft_build()' function in 'inflate.c', creates a hufts table that is too small.

Vulnerability Detection Method

Details: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux)

OID:1.3.6.1.4.1.25623.1.0.800453

Version used: \$Revision: 12690 \$

References

CVE: CVE-2009-2624

BID:37888

Other:

URL:<http://secunia.com/advisories/38132>URL:<http://www.vupen.com/english/advisories/2010/0185>URL:https://bugzilla.redhat.com/show_bug.cgi?id=514711URL:<http://www.gzip.org/index-f.html#sources>URL:<http://git.savannah.gnu.org/cgiit/gzip.git/commit/?id=39a362ae9d9b00747338>

↪1dba5032f4dfc1744cf2

[\[return to 10.100.10.11 \]](#)

2.3 10.100.10.12

Host scan start Sun Dec 9 15:22:43 2018 UTC

Host scan end Sun Dec 9 16:05:53 2018 UTC

Service (Port)	Threat Level
general/tcp	Low
22/tcp	Low
general/tcp	False Positive

2.3.1 Low general/tcp

Low (CVSS: 2.6) NVT: TCP timestamps
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. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 1249564279 Packet 2: 1249565289
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. See also: http://www.microsoft.com/en-us/download/details.aspx?id=9152
Affected Software/OS TCP/IPv4 implementations that implement RFC1323.
Vulnerability Insight The remote host implements TCP timestamps, as defined by RFC1323.
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Vulnerability Detection Method 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 OID:1.3.6.1.4.1.25623.1.0.80091 Version used: \$Revision: 10411 \$	
References Other: URL:http://www.ietf.org/rfc/rfc1323.txt	
Note	
<pre>vagrant@docker-worker:~\$ sudo ./verify_tcp_timestamps_mitigation.sh tcp_timestamps Status for Container Host: net.ipv4.tcp_timestamps = 0 /usr/bin/docker CONTAINER ID IMAGE COMMAND CREATED ↪ STATUS PORTS NAMES 960cb9d24d3f wordpress:latest "docker-entrypoint.s..." 35 hours ago ↪ Up 35 hours 80/tcp blog_wordpress.1.don6vicmultaxt ↪3t4pquj7hdt 76d977508cff mysql:5.7 "docker-entrypoint.s..." 2 days ago ↪ Up 2 days 3306/tcp, 33060/tcp blog_db.1.y83cylgd17jrwjz5hzdvl ↪uxxo tcp_timestamps Status for guest containers: 960cb9d24d3f: net.ipv4.tcp_timestamps = 1 76d977508cff: OCI runtime exec failed: exec failed: container_linux.go:348: star ↪ting container process caused "exec: \"sysctl\": executable file not found in ↪\$PATH": unknown Container host confirmed to have mitigated this vulnerability detection result. wordpress container image confirmed to be implementing RFC 1323. mysql container image assumed to be implementing RFC 1323. sysctl binary was not available on the mysql container image to verify mitigatio ↪n status. Last modified: Sun Dec 9 16:18:32 2018 UTC</pre>	

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2.3.2 Low 22/tcp

Low (Overridden from Medium)
NVT: OpenSSH User Enumeration Vulnerability-Aug18 (Linux)
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Product detection result cpe:/a:openbsd:openssh:7.6p1 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
Summary This host is installed with openssh and is prone to user enumeration vulnerability.
Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation path / port: 22/tcp
Impact Successfully exploitation will allow remote attacker to test whether a certain user exists or not (username enumeration) on a target OpenSSH server.
Solution Solution type: NoneAvailable No known solution is available as of 21st August, 2018. Information regarding this issue will be updated once solution details are available. For updates refer to Reference links.
Affected Software/OS OpenSSH versions 7.7 and prior on Linux
Vulnerability Insight The flaw is due to not delaying bailout for an invalid authenticating user until after the packet containing the request has been fully parsed, related to auth2-gss.c, auth2-hostbased.c, and auth2-pubkey.c
Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH User Enumeration Vulnerability-Aug18 (Linux) OID:1.3.6.1.4.1.25623.1.0.813864 Version used: \$Revision: 12116 \$
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
References CVE: CVE-2018-15473 Other: URL: http://www.openssh.com
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URL:https://0day.city/cve-2018-15473.html
URL:https://github.com/openbsd/src/commit/779974d35b4859c07bc3cb8a12c74b43b0a↵7d1e0

Low (Overridden from Medium) NVT: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux)
Product detection result cpe:/a:openbsd:openssh:7.6p1 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
Summary This host is installed with openssh and is prone to user enumeration vulnerability.
Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation path / port: 22/tcp
Impact Successfully exploitation will allow remote attacker to harvest valid user accounts, which may aid in brute-force attacks.
Solution Solution type: NoneAvailable No known solution is available as of 05th September, 2018. Information regarding this issue will be updated once solution details are available.
Affected Software/OS OpenSSH version 5.9 to 7.8 on Linux.
Vulnerability Insight The flaw exists in the 'auth-gss2.c' source code file of the affected software and is due to insufficient validation of an authentication request packet when the Guide Star Server II (GSS2) component is used on an affected system.
Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux) OID:1.3.6.1.4.1.25623.1.0.813888 Version used: \$Revision: 12308 \$
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 ... continues on next page ...

...continued from previous page ...
Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
References CVE: CVE-2018-15919 Other: URL: http://www.openssh.com URL: https://bugzilla.novell.com/show_bug.cgi?id=1106163 URL: https://seclists.org/oss-sec/2018/q3/180

[\[return to 10.100.10.12 \]](#)

2.3.3 False Positive general/tcp

False Positive (Overridden from Medium) NVT: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux)
Summary This host is installed with GZip and is prone to Input Validation Vulnerability
Vulnerability Detection Result The target host was found to be vulnerable
Impact Successful exploitation could result in Denial of service (application crash or infinite loop) or possibly execute arbitrary code via a crafted archive.
Solution Solution type: VendorFix Update to GZip version 1.3.13 or later.
Affected Software/OS GZip version prior to 1.3.13 on Linux.
Vulnerability Insight The flaw is due to error in 'huft_build()' function in 'inflate.c', creates a hufts table that is too small.
Vulnerability Detection Method Details: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux) OID: 1.3.6.1.4.1.25623.1.0.800453 Version used: \$Revision: 12690 \$
References CVE: CVE-2009-2624
... continues on next page ...

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BID:37888

Other:

URL:http://secunia.com/advisories/38132

URL:http://www.vupen.com/english/advisories/2010/0185

URL:https://bugzilla.redhat.com/show_bug.cgi?id=514711

URL:http://www.gzip.org/index-f.html#sources

URL:http://git.savannah.gnu.org/cgi/gzip.git/commit/?id=39a362ae9d9b00747338

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[\[return to 10.100.10.12 \]](#)

2.4 10.100.10.3

Host scan start Sun Dec 9 15:22:43 2018 UTC

Host scan end Sun Dec 9 16:10:40 2018 UTC

Service (Port)	Threat Level
22/tcp	Low
general/tcp	Low
general/tcp	False Positive

2.4.1 Low 22/tcp

Low (Overridden from Medium)

NVT: OpenSSH User Enumeration Vulnerability-Aug18 (Linux)

Product detection result

cpe:/a:openbsd:openssh:7.6p1

Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)

Summary

This host is installed with openssh and is prone to user enumeration vulnerability.

Vulnerability Detection Result

Installed version: 7.6p1

Fixed version: NoneAvailable

Installation

path / port: 22/tcp

Impact

Successfully exploitation will allow remote attacker to test whether a certain user exists or not (username enumeration) on a target OpenSSH server.

Solution

... continues on next page ...

...continued from previous page ...
Solution type: NoneAvailable No known solution is available as of 21st August, 2018. Information regarding this issue will be updated once solution details are available. For updates refer to Reference links.
Affected Software/OS OpenSSH versions 7.7 and prior on Linux
Vulnerability Insight The flaw is due to not delaying bailout for an invalid authenticating user until after the packet containing the request has been fully parsed, related to auth2-gss.c, auth2-hostbased.c, and auth2-pubkey.c
Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH User Enumeration Vulnerability-Aug18 (Linux) OID:1.3.6.1.4.1.25623.1.0.813864 Version used: \$Revision: 12116 \$
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
References CVE: CVE-2018-15473 Other: URL: http://www.openssh.com URL: https://0day.city/cve-2018-15473.html URL: https://github.com/openbsd/src/commit/779974d35b4859c07bc3cb8a12c74b43b0a ↪7d1e0

Low (Overridden from Medium) NVT: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux)
Product detection result cpe:/a:openbsd:openssh:7.6p1 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
Summary This host is installed with openssh and is prone to user enumeration vulnerability.
Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation
...continues on next page ...

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path / port:	22/tcp
Impact Successfully exploitation will allow remote attacker to harvest valid user accounts, which may aid in brute-force attacks.	
Solution Solution type: NoneAvailable No known solution is available as of 05th September, 2018. Information regarding this issue will be updated once solution details are available.	
Affected Software/OS OpenSSH version 5.9 to 7.8 on Linux.	
Vulnerability Insight The flaw exists in the 'auth-gss2.c' source code file of the affected software and is due to insufficient validation of an authentication request packet when the Guide Star Server II (GSS2) component is used on an affected system.	
Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux) OID:1.3.6.1.4.1.25623.1.0.813888 Version used: \$Revision: 12308 \$	
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)	
References CVE: CVE-2018-15919 Other: URL:http://www.openssh.com URL:https://bugzilla.novell.com/show_bug.cgi?id=1106163 URL:https://seclists.org/oss-sec/2018/q3/180	

[\[return to 10.100.10.3 \]](#)

2.4.2 Low general/tcp

Low (CVSS: 2.6) NVT: TCP timestamps
Summary
... continues on next page ...

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The remote host implements TCP timestamps and therefore allows to compute the uptime.	
Vulnerability Detection Result It was detected that the host implements RFC1323. The following timestamps were retrieved with a delay of 1 seconds in-between: Packet 1: 1240493766 Packet 2: 1240494778	
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. See also: http://www.microsoft.com/en-us/download/details.aspx?id=9152	
Affected Software/OS TCP/IPv4 implementations that implement RFC1323.	
Vulnerability Insight The remote host implements TCP timestamps, as defined by RFC1323.	
Vulnerability Detection Method 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 OID:1.3.6.1.4.1.25623.1.0.80091 Version used: \$Revision: 10411 \$	
References Other: URL: http://www.ietf.org/rfc/rfc1323.txt	
Note	
<pre>vagrant@utility:~\$ sudo ./verify_tcp_timestamps_mitigation.sh tcp_timestamps Status for Container Host: net.ipv4.tcp_timestamps = 0 /usr/bin/docker</pre>	
CONTAINER ID	IMAGE
... continues on next page ...	

...continued from previous page...				
↔MMAND	CREATED	STATUS	PORTS	
↔ NAMES				
b0a03ad874e7	docker.elastic.co/logstash/logstash-oss:6.5.0	"/		
↔usr/local/bin/dock..."	3 days ago	Up 3 days	5044/tcp, 9600/	
↔tcp elk_logstash.1.zsdd592xd2tz8z94j5y5blf2w				
514bf68d6ad3	docker.elastic.co/elasticsearch/elasticsearch-oss:6.5.0	"/		
↔usr/local/bin/dock..."	3 days ago	Up 3 days	9200/tcp, 9300/	
↔tcp elk_elasticsearch.1.jbtbx5yenu3bu1j3bkwncbymq				
ec510d73f649	docker.elastic.co/kibana/kibana-oss:6.5.0	"/		
↔usr/local/bin/kiba..."	3 days ago	Up 3 days	5601/tcp	
↔ elk_kibana.1.tpo6edfno68tk3lkycac6ipax				
tcp_timestamps Status for guest containers:				
b0a03ad874e7:	net.ipv4.tcp_timestamps = 1			
514bf68d6ad3:	net.ipv4.tcp_timestamps = 1			
ec510d73f649:	net.ipv4.tcp_timestamps = 1			
Container host confirmed to have mitigated this vulnerability detection result.				
elasticsearch container image confirmed to be implementing RFC 1323				
kibana container image confirmed to be implementing RFC 1323				
logstash container image confirmed to be implementing RFC 1323				
Last modified: Sun Dec 9 16:17:04 2018 UTC				

[[return to 10.100.10.3](#)]

2.4.3 False Positive general/tcp

False Positive (Overridden from Medium) NVT: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux)	
Summary	This host is installed with GZip and is prone to Input Validation Vulnerability
Vulnerability Detection Result	The target host was found to be vulnerable
Impact	Successful exploitation could result in Denial of service (application crash or infinite loop) or possibly execute arbitrary code via a crafted archive.
Solution	Solution type: VendorFix Update to GZip version 1.3.13 or later.
Affected Software/OS	GZip version prior to 1.3.13 on Linux.
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Vulnerability Insight

The flaw is due to error in 'huft_build()' function in 'inflate.c', creates a hufts table that is too small.

Vulnerability Detection Method

Details: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux)

OID:1.3.6.1.4.1.25623.1.0.800453

Version used: \$Revision: 12690 \$

References

CVE: CVE-2009-2624

BID:37888

Other:

URL:<http://secunia.com/advisories/38132>

URL:<http://www.vupen.com/english/advisories/2010/0185>

URL:https://bugzilla.redhat.com/show_bug.cgi?id=514711

URL:<http://www.gzip.org/index-f.html#sources>

URL:<http://git.savannah.gnu.org/cgi/gzip.git/commit/?id=39a362ae9d9b00747338>

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[\[return to 10.100.10.3 \]](#)

2.5 10.100.10.2

Host scan start Sun Dec 9 15:22:43 2018 UTC

Host scan end Sun Dec 9 15:56:45 2018 UTC

Service (Port)	Threat Level
22/tcp	Low
general/tcp	False Positive

2.5.1 Low 22/tcp

Low (Overridden from Medium)

NVT: OpenSSH User Enumeration Vulnerability-Aug18 (Linux)

Product detection result

cpe:/a:openbsd:openssh:7.6p1

Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)

Summary

This host is installed with openssh and is prone to user enumeration vulnerability.

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Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation path / port: 22/tcp	
Impact Successfully exploitation will allow remote attacker to test whether a certain user exists or not (username enumeration) on a target OpenSSH server.	
Solution Solution type: NoneAvailable No known solution is available as of 21st August, 2018. Information regarding this issue will be updated once solution details are available. For updates refer to Reference links.	
Affected Software/OS OpenSSH versions 7.7 and prior on Linux	
Vulnerability Insight The flaw is due to not delaying bailout for an invalid authenticating user until after the packet containing the request has been fully parsed, related to auth2-gss.c, auth2-hostbased.c, and auth2-pubkey.c	
Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH User Enumeration Vulnerability-Aug18 (Linux) OID:1.3.6.1.4.1.25623.1.0.813864 Version used: \$Revision: 12116 \$	
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)	
References CVE: CVE-2018-15473 Other: URL:http://www.openssh.com URL:https://0day.city/cve-2018-15473.html URL:https://github.com/openbsd/src/commit/779974d35b4859c07bc3cb8a12c74b43b0a↵7d1e0	
Low (Overridden from Medium) NVT: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux)	
Product detection result	
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cpe:/a:openbsd:openssh:7.6p1 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
Summary This host is installed with openssh and is prone to user enumeration vulnerability.
Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation path / port: 22/tcp
Impact Successfully exploitation will allow remote attacker to harvest valid user accounts, which may aid in brute-force attacks.
Solution Solution type: NoneAvailable No known solution is available as of 05th September, 2018. Information regarding this issue will be updated once solution details are available.
Affected Software/OS OpenSSH version 5.9 to 7.8 on Linux.
Vulnerability Insight The flaw exists in the 'auth-gss2.c' source code file of the affected software and is due to insufficient validation of an authentication request packet when the Guide Star Server II (GSS2) component is used on an affected system.
Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux) OID:1.3.6.1.4.1.25623.1.0.813888 Version used: \$Revision: 12308 \$
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
References CVE: CVE-2018-15919 Other: URL:http://www.openssh.com URL:https://bugzilla.novell.com/show_bug.cgi?id=1106163
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URL: <https://seclists.org/oss-sec/2018/q3/180>[\[return to 10.100.10.2 \]](#)**2.5.2 False Positive general/tcp**

False Positive (Overridden from Medium)

NVT: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux)

Summary

This host is installed with GZip and is prone to Input Validation Vulnerability

Vulnerability Detection Result

The target host was found to be vulnerable

Impact

Successful exploitation could result in Denial of service (application crash or infinite loop) or possibly execute arbitrary code via a crafted archive.

Solution**Solution type:** VendorFix

Update to GZip version 1.3.13 or later.

Affected Software/OS

GZip version prior to 1.3.13 on Linux.

Vulnerability Insight

The flaw is due to error in 'huft_build()' function in 'inflate.c', creates a hufts table that is too small.

Vulnerability Detection Method

Details: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux)

OID:1.3.6.1.4.1.25623.1.0.800453

Version used: \$Revision: 12690 \$

References

CVE: CVE-2009-2624

BID:37888

Other:

URL: <http://secunia.com/advisories/38132>URL: <http://www.vupen.com/english/advisories/2010/0185>URL: https://bugzilla.redhat.com/show_bug.cgi?id=514711URL: <http://www.gzip.org/index-f.html#sources>URL: <http://git.savannah.gnu.org/cgiit/gzip.git/commit/?id=39a362ae9d9b00747338>

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[\[return to 10.100.10.2 \]](#)

2.6 10.100.10.4

Host scan start Sun Dec 9 15:22:43 2018 UTC

Host scan end Sun Dec 9 16:02:51 2018 UTC

Service (Port)	Threat Level
22/tcp	Low
general/tcp	False Positive

2.6.1 Low 22/tcp

Low (Overridden from Medium) NVT: OpenSSH User Enumeration Vulnerability-Aug18 (Linux)
Product detection result cpe:/a:openbsd:openssh:7.6p1 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
Summary This host is installed with openssh and is prone to user enumeration vulnerability.
Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation path / port: 22/tcp
Impact Successfully exploitation will allow remote attacker to test whether a certain user exists or not (username enumeration) on a target OpenSSH server.
Solution Solution type: NoneAvailable No known solution is available as of 21st August, 2018. Information regarding this issue will be updated once solution details are available. For updates refer to Reference links.
Affected Software/OS OpenSSH versions 7.7 and prior on Linux
Vulnerability Insight The flaw is due to not delaying bailout for an invalid authenticating user until after the packet containing the request has been fully parsed, related to auth2-gss.c, auth2-hostbased.c, and auth2-pubkey.c
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Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH User Enumeration Vulnerability-Aug18 (Linux) OID:1.3.6.1.4.1.25623.1.0.813864 Version used: \$Revision: 12116 \$
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
References CVE: CVE-2018-15473 Other: URL:http://www.openssh.com URL:https://0day.city/cve-2018-15473.html URL:https://github.com/openbsd/src/commit/779974d35b4859c07bc3cb8a12c74b43b0a↵7d1e0

Low (Overridden from Medium) NVT: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux)
Product detection result cpe:/a:openbsd:openssh:7.6p1 Detected by SSH Server type and version (OID: 1.3.6.1.4.1.25623.1.0.10267)
Summary This host is installed with openssh and is prone to user enumeration vulnerability.
Vulnerability Detection Result Installed version: 7.6p1 Fixed version: NoneAvailable Installation path / port: 22/tcp
Impact Successfully exploitation will allow remote attacker to harvest valid user accounts, which may aid in brute-force attacks.
Solution Solution type: NoneAvailable No known solution is available as of 05th September, 2018. Information regarding this issue will be updated once solution details are available.
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Affected Software/OS OpenSSH version 5.9 to 7.8 on Linux.
Vulnerability Insight The flaw exists in the 'auth-gss2.c' source code file of the affected software and is due to insufficient validation of an authentication request packet when the Guide Star Server II (GSS2) component is used on an affected system.
Vulnerability Detection Method Checks if a vulnerable version is present on the target host. Details: OpenSSH 'auth2-gss.c' User Enumeration Vulnerability (Linux) OID:1.3.6.1.4.1.25623.1.0.813888 Version used: \$Revision: 12308 \$
Product Detection Result Product: cpe:/a:openbsd:openssh:7.6p1 Method: SSH Server type and version OID: 1.3.6.1.4.1.25623.1.0.10267)
References CVE: CVE-2018-15919 Other: URL:http://www.openssh.com URL:https://bugzilla.novell.com/show_bug.cgi?id=1106163 URL:https://seclists.org/oss-sec/2018/q3/180

[\[return to 10.100.10.4 \]](#)

2.6.2 False Positive general/tcp

False Positive (Overridden from Medium) NVT: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux)
Summary This host is installed with GZip and is prone to Input Validation Vulnerability
Vulnerability Detection Result The target host was found to be vulnerable
Impact Successful exploitation could result in Denial of service (application crash or infinite loop) or possibly execute arbitrary code via a crafted archive.
Solution ... continues on next page ...

...continued from previous page...	
Solution type: VendorFix	Update to GZip version 1.3.13 or later.
Affected Software/OS	GZip version prior to 1.3.13 on Linux.
Vulnerability Insight	The flaw is due to error in 'huft_build()' function in 'inflate.c', creates a hufts table that is too small.
Vulnerability Detection Method	Details: GZip 'huft_build()' in 'inflate.c' Input Validation Vulnerability (Linux) OID:1.3.6.1.4.1.25623.1.0.800453 Version used: \$Revision: 12690 \$
References	CVE: CVE-2009-2624 BID:37888 Other: URL:http://secunia.com/advisories/38132 URL:http://www.vupen.com/english/advisories/2010/0185 URL:https://bugzilla.redhat.com/show_bug.cgi?id=514711 URL:http://www.gzip.org/index-f.html#sources URL:http://git.savannah.gnu.org/cgit/gzip.git/commit/?id=39a362ae9d9b00747338 ↪1dba5032f4dfc1744cf2

[\[return to 10.100.10.4 \]](#)