Fixing CVEs on Debian

Almost everything you should know about it

Carlos Henrique Lima Melara 2025-02-02

Slides available at people.debian.org/~charles/

Based on samueloph's presentation at DebConf 24

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Agenda

i.e. what we are talking about today

- 1. Introductions
- 2. Debian Project
- 3. CVEs
- 4. CVEs for Debian
- 5. Fixing CVEs
- 6. Q&A

Who Am I?

- Computer Engineer
 - Ganesh InfoSec
 - Gelos Free Software
- Debian Contributor
 - Packaging
 - \circ Localization
 - Debian Developer (DD)
- Software Engineer at Toradex



- A few questions:
 - 1. Is this your first time hearing about Debian?
 - 2. Have you ever used/installed Debian?
 - 3. Do you know what CVEs are?
 - 4. Have you seen a CVE?
 - 5. Do you know how Debian fixes CVEs?



The Debian Project

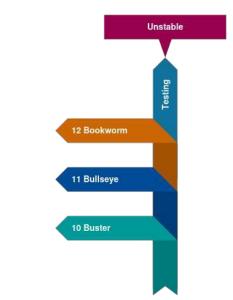
About Debian :-)

- Free Software
 - Social Contract
 - Debian Free Software Guidelines
 - DFSG
- Collaborative Project
 - <u>Constitution</u>
 - Volunteer Based
- Transparency
 - Infrastructure
 - Mailing Lists and IRC



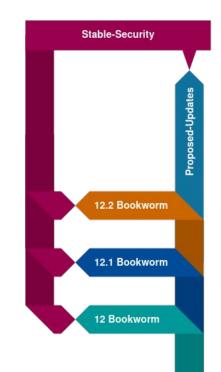
Development Cycle

- Goal:
 - Release a stable version
- How?
 - Freezing development
- The many "distros"
 - Unstable Sid
 - **Testing** Soon to be stable
 - Stable Official stable
 - Oldstable Previous stable



Debian stable

- Frozen in time
 - Older versions of SW
 - No big changes
- Small changes only
 - Fixing severe bugs
 - Proposed-updates
 - Fixing vulnerabilities
 - Severe Security feed
 - Minor Proposed-updates
- Every ~2 months \rightarrow New point release



CVE: Common Vulnerabilities and Exposures

Common Vulnerabilities and Exposures

- CVEID
 - Global identifier for vulnerabilities
- Format
 - CVE-YYYY-NNNNN
- Crowdsourced effort
- Main data source worldwide
- Mutable
- Can contain misleading information



Required CVE Record Information

CNA: Curl

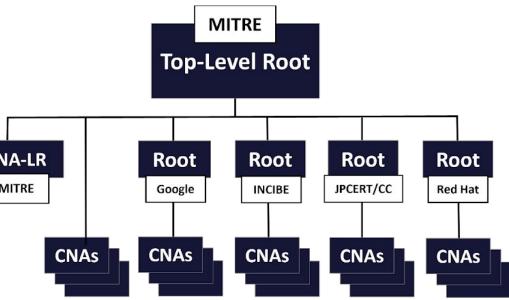
Published: 2024-07-31 Updated: 2024-08-02 Title: ASN.1 Date Parser Overread

Description

libcurl's ASN1 parser code has the `GTime2str()` function, used for parsing an ASN.1 Generalized Time field. If given an syntactically incorrect field, the parser might end up using -1 for the length of the *time fraction*, leading to a `strlen()` getting performed on a pointer to a heap buffer area that is not (purposely) null terminated. This flaw most likely leads to a crash, but can also lead to heap contents getting returned to the application when [CURLINFO_CERTINFO](https://curl.se/libcurl/c/ CURLINFO_CERTINFO.html) is used.

How can I get a CVE?

Via CNA **CVE** Numbering Authority Ο Hierarchical system Ο Root CNA is MITRF \bigcirc Grouping/sub-CNAs Ο **CNA-LR** Pool of CVE IDs \bigcirc MITRE Grant as see fit Ο Can be disputed Ο cve.org at Mitre



CVEs for Debian

Security Team

- Composed of Debian Developers (10)
 - Members, Assistants and Contributors
- Many tasks
 - Release Debian Security Advisories
 - Manage embargoed vulnerabilities
 - Manage fixes in proposed-updates
 - Handle special packages (Linux/Firefox/Chromium)
 - Front Desk: handle inbox
 - Manage team's private key
 - Manage Debian's CVE ID pool
 - Manage Security Tracker

Notes

[bookworm] - curl <no-dsa> (Minor issue)
[bullseye] - curl <no-dsa> (Minor issue)
https://curl.se/docs/CVE-2024-7264.html
Introduced by: https://github.com/curl/curl/c
Fixed by: https://github.com/curl/curl/commit

Security Tracker

- security-tracker.debian.org
 - Website and git repo
 - Constantly updates CVE list
 - ~80 new CVEs daily (2023)
 - From Mitre, distros@openwall and mail (team@security.d.o)
- Needs evaluation and call to action
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- Security Team might issue a DSA
 - Debian Security Advisory

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- To: debian-security-announce@lists.debian.org
- Subject: [SECURITY] [DSA 5587-1] curl security update
- From: Moritz Muehlenhoff <jmm@debian.org>
- Date: Sat, 23 Dec 2023 19:13:59 +0000

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Debian Security Advisory DSA-5587-1	security@debian.org
https://www.debian.org/security/	Moritz Muehlenhoff
December 23, 2023	<pre>https://www.debian.org/security/faq</pre>

Package : curl CVE ID : CVE-2023-46218 CVE-2023-46219

Two security issues were discovered in Curl: Cookies were incorrectly validated against the public suffix list of domains and in same cases HSTS data could fail to save to disk.

For the oldstable distribution (bullseye), these problems have been fixed in version 7.74.0-1.3+deblull.

For the stable distribution (bookworm), these problems have been fixed in version 7.88.1-10+deb12u5.

We recommend that you upgrade your curl packages.

For the detailed security status of curl please refer to its security tracker page at: https://security-tracker.debian.org/tracker/curl

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Mailing list: debian-security-announce@lists.debian.org -----BEGIN PGP SIGNATURE-----

Security Team

- 3 options for CVEs
 - Apply fix and release DSA
 - Security feed
 - Embargoed (?)
 - Document and contact Maintainer
 - Proposed updates
 - Public BTS and Infrastructure
 - \circ Do nothing
 - Document
- Fixed with "backporting" changes

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Different Views

- Upstream
 - Fix the issues \bigcirc
 - New major release
 - Minor/Patch release
 - Complete documentation
- Debian
 - Older version \bigcirc
 - Frozen in time \bigcirc
 - Backport the patches Ο
 - New **Debian** release (+deb12u1)

Changes in 8.9.1 - July 31 2024

♣ release video for 8.9.1 ► 1 Known vulnerabilities for 8.9.1

Bugfixes:

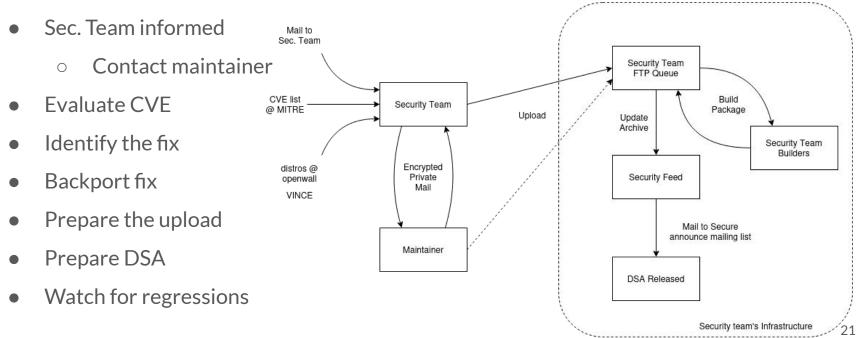
- cmake: detect `libssh` via `pkg-config
- cmake: detect `nettle` when building with GnuTLS
- configure: limit builtin available test to Darwin
- connect: fix connection shutdown for event based processing
- contrithanks.sh: use -F with -v to match lines as strings
- curl: more defensive socket code for --ip-tos
- CURLOPT SSL CTX FUNCTION.md: mention CA caching
- example/multi-uv: remove the use of globals
- ftpserver.pl: make POP3 LIST serve content from the test file
- · GHA/windows: increase timeout for vcpkg build step
- lib: survive some NULL input args
- macos: fix Apple SDK bug workaround for non-macOS targets
- RELEASE-PROCEDURE.md: remove the initial build step
- tests: provide FTP directory contents in the test file.
- tidy-up: URL updates
- TODO: thread-safe sharing
- transfer: speed limiting fix for 32bit systems
- vtls: avoid forward declaration in MultiSSL builds
- wolfSSL: allow wolfSSL's implementation of kyber to be used
- wolfssl: avoid calling get cached x509 store if store is uncachable
- wolfssl: CA store share fix
- x509asn1: unittests and fixes for gtime2str

The Process

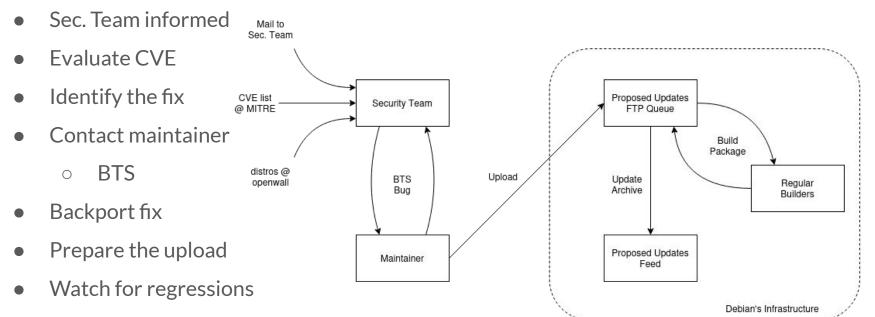
- Find a CVE to fix
- Confirm impact
- Identify the fix
 - Apply the patches
 - Modify the patch
 - Document changes
- Review backporting changes
- Test the changes
- Submit the fixed package
- Watch for regressions



Severe Vulnerabilities



Minor Vulnerabilities



Contact

- charles [at] debian [dot] org
- <u>Matrix</u>: charles:matrix.debian.social
- <u>IRC</u>: charles (oftc/libera)
- Questions or Comments?
- License: CC BY-SA 4.0



From here downwards: slides for presenting

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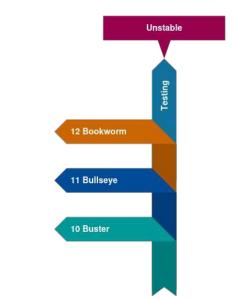
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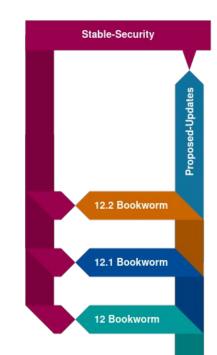
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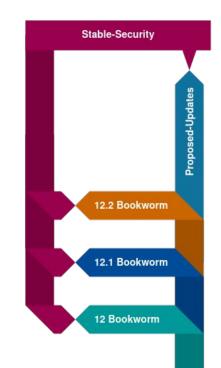
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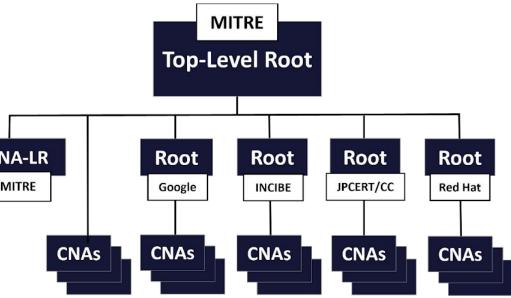
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CVEs for Debian

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Open issues						
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CVE-2024-7264	vulnerable (no DSA)	vulnerab DSA)	le (no	fixed	fixed
CVE-2023-46219	vulnerable (ignored)	no DSA,	fixed		fixed	fixed
CVE-2023-23915	vulnerable (ignored)	no DSA,	fixed		fixed	fixed
CVE-2023-23914	vulnerable (ignored)	no DSA,	fixed		fixed	fixed
CVE-2022-43551	vulnerable (ignored)	no DSA,	fixed		fixed	fixed
CVE-2022-42916	vulnerable (ignored)	no DSA,	fixed		fixed	fixed
Open unimporta	ant issues					
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Information on source package curl

Odebian

our in the Fusikage	o Huoking Oyutom	currin the bug ritesting eyeten	Gui	Jouroo			
Available version	ons						
Release				Versior	1		
bullseye				7.74.0-1	.3+deb11u12		
bullseye (security)				7.74.0-1.3+deb11u11			
bookworm				7.88.1-10+deb12u6			
bookworm (security)				7.88.1-10+deb12u5			
trixie			8.9.1-2				
sid			8.9.1-2				
Open issues							
Bug	bullseye	bookworm	trixie	sid	Description		
CVE-2024-7264	vulnerable (no DSA)	vulnerable (no DSA)	fixed	fixed	libcurl's ASN1 parser code has the 'GTime2str()' function, used for pa		
CVE-2023-46219	vulnerable (no DSA, ignored)	fixed	fixed	fixed	When saving HSTS data to an excessively long file name, curl could end		

curl in the Bug Tracking System curl source code

Security Tracker

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We recommend that you upgrade your curl packages.

For the detailed security status of curl please refer to its security tracker page at: https://security-tracker.debian.org/tracker/curl

Further information about Debian Security Advisories, how to apply these updates to your system and frequently asked questions can be found at: https://www.debian.org/security/

Mailing list: debian-security-announce@lists.debian.org -----BEGIN PGP SIGNATURE-----

- 3 options for CVEs
 - Apply fix and release DSA
 - Security feed
 - Embargoed (?)
 - Document and contact Maintainer
 - Proposed updates
 - Public BTS and Infrastructure

Notes

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Notes

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 - \circ Do nothing
 - Document
- Fixed with "backporting" changes

Notes



Different Views

- Upstream
 - Fix the issues \bigcirc
 - New major release
 - Minor/Patch release
 - Complete documentation

Changes in 8.9.1 - July 31 2024

Release video for 8.9.1
Known vulnerabilities for 8.9.1

Bugfixes:

- cmake: detect `libssh` via `pkg-config`
- cmake: detect `nettle` when building with GnuTLS
- configure: limit builtin available test to Darwin
- connect: fix connection shutdown for event based processing
- contrithanks.sh: use -F with -v to match lines as strings
- curl: more defensive socket code for --ip-tos
- CURLOPT SSL CTX FUNCTION.md: mention CA caching
- example/multi-uv: remove the use of globals
- ftpserver.pl: make POP3 LIST serve content from the test file
- · GHA/windows: increase timeout for vcpkg build step
- lib: survive some NULL input args
- macos: fix Apple SDK bug workaround for non-macOS targets
- RELEASE-PROCEDURE.md: remove the initial build step
- tests: provide FTP directory contents in the test file
- tidy-up: URL updates
- TODO: thread-safe sharing
- transfer: speed limiting fix for 32bit systems
- vtls: avoid forward declaration in MultiSSL builds
- wolfSSL: allow wolfSSL's implementation of kyber to be used
- wolfssl: avoid calling get cached x509 store if store is uncachable
- wolfssl: CA store share fix
- x509asn1: unittests and fixes for gtime2str

Different Views

- Upstream
 - Fix the issues 0
 - New major release
 - Minor/Patch release
 - Complete documentation
- Debian
 - Older version Ο
 - Frozen in time \bigcirc
 - Backport the patches Ο
 - New **Debian** release (+deb12u1)

Information on source package curl

^Odebian

curl in the Package Tracking System curl in the Bug Tracking System curl source code curl in the testing migration checker

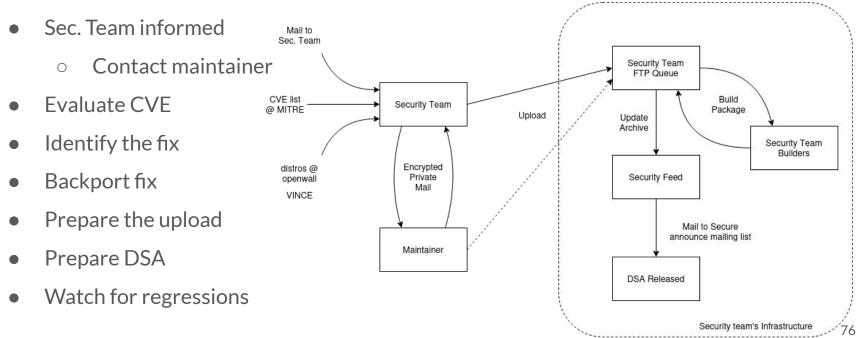
Available version	ons					
Release				Versio	n	
bullseye			7.74.0-1.3+deb11u12			
bullseye (security)			7.74.0-1.3+deb11u11			
bookworm	ookworm			7.88.1-10+deb12u6		
bookworm (security)			7.88.1-10+deb12u5			
trixie				8.9.1-2		
sid				8.9.1-2		
Open issues						
Bug	bullseye	bookworm	trixie	sid	Description	
CVE-2024-7264	vulnerable (no DSA)	vulnerable (no DSA)	fixed	fixed	libcurl's ASN1 parser code has the 'GTime2str()' function, used for pa .	
CVE-2023-46219	vulnerable (no DSA, ignored)	fixed	fixed	fixed	When saving HSTS data to an excessively long file name, curl could er \ldots	

The Process

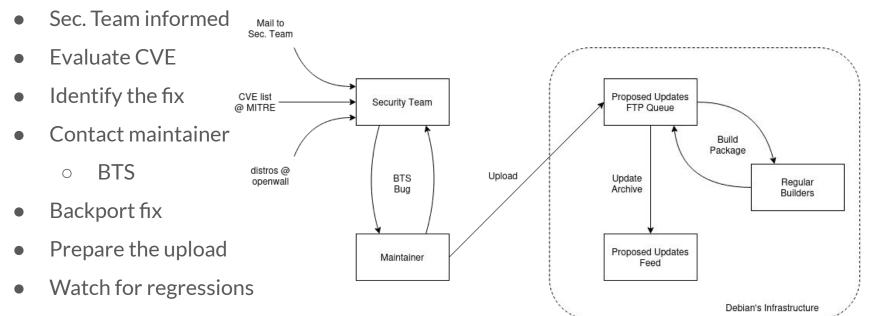
- Find a CVE to fix
- Confirm impact
- Identify the fix
 - Apply the patches
 - Modify the patch
 - Document changes
- Review backporting changes
- Test the changes
- Submit the fixed package
- Watch for regressions



Severe Vulnerabilities



Minor Vulnerabilities



Contact

- charles [at] debian [dot] org
- <u>Matrix</u>: charles:matrix.debian.social
- <u>IRC</u>: charles (oftc/libera)
- Questions or Comments?
- License: CC BY-SA 4.0

