

#### chluo911 commented on Jul 24

**Projects** 

[II] 4.4.2

You are opening a *bug report* against the Tcpreplay project: we use GitHub Issues for tracking bug reports and feature requests.

If you have a question about how to use Tcpreplay, you are at the wrong site. You can ask a question on the tcpreplay-users mailing list or on Stack Overflow with [tcpreplay] tag.

General help is available here.

If you have a build issue, consider downloading the latest release

Otherwise, to report a bug, please fill out the reproduction steps (below) and delete these introductory paragraphs. Thanks!

### Describe the bug

A clear and concise description of what the bug is.

There is a heap-overflow bug in get\_ipv6\_next. Different from #716 (The crash point is in line 322, ntohs(eth\_hdr->ether\_type); ), this bug is triggered in line 344 ( pktdata[12\_net\_off] >> 4 ).

## To Reproduce

Steps to reproduce the behavior:

- 1. export CC=clang && export CFLAGS="-fsanitize=address -g"
- 2. ./autogen.sh && ./configure --disable-shared --disable-local-libopts && make clean && make -j8
- 3. tcpprep --auto=bridge --pcap=POC --cachefile=/dev/null

### **Expected behavior**

A clear and concise description of what you expected to happen.

The program does not crash.

# Screenshots If applicable, add screenshots to help explain your problem. Warning: bug was captured using a snaplen of 18 bytes. This may mean you have truncated packets. ==14130==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x603000000022 at pc 0x0000004f 6832 bp 0x7ffe10b07c60 sp 0x7ffe10b07c58 READ of size 1 at 0x603000000022 thread T0 #0 0x4f6831 in get\_l2len\_protocol /home/users/chluo/tcpreplay/src/common/get.c:344:18 #1 0x4f70d6 in get\_ipv4 /home/users/chluo/tcpreplay/src/common/get.c:442:11 #2 0x4cd3a0 in process\_raw\_packets /home/users/chluo/tcpreplay/src/tcpprep.c:368:41 #3 0x4cd3a0 in main /home/users/chluo/tcpreplay/src/tcpprep.c:144:23 #4 0x7fa2ca63a09a in \_\_libc\_start\_main (/lib/x86\_64-linux-gnu/libc.so.6+0x2409a) #5 0x41f4f9 in \_start (/home/users/chluo/tcpreplay/src/tcpprep+0x41f4f9) 0x603000000022 is located 0 bytes to the right of 18-byte region [0x603000000010,0x603000000022) allocated by thread T0 here: #0 0x4991cd in malloc (/home/users/chluo/tcpreplay/src/tcpprep+0x4991cd) #1 0x7fa2cae74ee6 (/usr/lib/x86\_64-linux-gnu/libpcap.so.0.8+0x20ee6) SUMMARY: AddressSanitizer: heap-buffer-overflow /home/users/chluo/tcpreplay/src/common/get.c:344: 18 in get\_l2len\_protocol Shadow bytes around the buggy address: =>0x0c067fff8000: fa fa 00 00[02]fa fa Shadow byte legend (one shadow byte represents 8 application bytes): System (please complete the following information): • OS: Debian

OS version: buster

Tcpreplay Version: 09f0774

#### Additional context

Add any other context about the problem here.

POC

poc.zip





III	fklassen added this to To do in 4.4.2 via automation on Aug 6	
fkl	assen commented on Aug 6	Member
Fix	ed overflow in PR #744	
4		
	fklassen closed this as completed on Aug 6	
Ш	<b>4.4.2</b> automation moved this from <b>To do</b> to <b>Done</b> on Aug 6	
ÇŽ	<b>fklassen</b> added a commit that referenced this issue on Aug 26	
	Bug #735 heap-overflow in get_l2len_protocol	6a84081
ÇŽ	<b>fklassen</b> added a commit that referenced this issue on Aug 26	
	Merge pull request #744 from appneta/Bug_#735_heap-overflow_get_c	34a5fc1
	dassen	
None y		
Projec	ts	
	<b>4.4.2</b> Done	
Milest	one lestone	
	opment anches or pull requests	
INO DIO	andies of pail requests	

# 2 participants



