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Unable to get `--fragroute` option to work with tcpreplay-edit #180



Closed

fklassen opened this issue on 11 May 2015 · 2 comments

Assignees



Labels

bug

Milestone

4.1.1



fklassen commented on 11 May 2015

Library versions built and used:

Libdnet-1.11

Libpcap-1.6.2

Libevent-2.0.22

Fragroute-1.2

Tcpreplay-4.1.0

FYI: tcpreplay was configured with: ./configure --enable-dynamic-link

Version info for built tcpreplay & tcpreplay-edit :

```
# tcpreplay -V
```

```
tcpreplay version: 4.1.0 (build git:v4.1.0)
```

```
Copyright 2013-2014 by Fred Klassen <tcpreplay at appneta dot com> - AppNeta Inc.
```

```
Copyright 2000-2012 by Aaron Turner <aturner at synfin dot net>
```

```
The entire Tcpreplay Suite is licensed under the GPLv3
```

```
Cache file supported: 04
```

```
Compiled against libdnet: 1.11
```

```
Compiled against libpcap: 1.6.2
```

```
64 bit packet counters: enabled
```

```
Verbose printing via tcpdump: enabled
```

```
Packet editing: disabled
```

```
Fragroute engine: enabled
```

```
Injection method: PF_PACKET send()
```

```
Not compiled with netmap
```

```
# tcpreplay-edit -V
```

```
tcpreplay version: 4.1.0 (build git:v4.1.0)
Copyright 2013-2014 by Fred Klassen <tcpreplay at appneta dot com> - AppNeta Inc.
Copyright 2000-2012 by Aaron Turner <aturner at synfin dot net>
The entire Tcpreplay Suite is licensed under the GPLv3
Cache file supported: 04
Compiled against libdnet: 1.11
Compiled against libpcap: 1.6.2
64 bit packet counters: enabled
Verbose printing via tcpdump: enabled
Packet editing: enabled
Fragroute engine: enabled
Injection method: PF_PACKET send()
Not compiled with netmap
```

Platform:

SUSE Linux Enterprise Server 11 (x86_64)

VERSION = 11

PATCHLEVEL = 3

LSB_VERSION="core-2.0-noarch:core-3.2-noarch:core-4.0-noarch:core-2.0-x86_64:core-3.2-x86_64:core-4.0-x86_64"

Network cards:



Not relevant due to not wanting to transmit and using tcpreplay-edit.

Command line used (following format outlined on <http://tcpreplay.synfin.net/wiki/tcprewrite> (at bottom of page)):

```
tcpreplay-edit --fragroute=frag.cfg --infile=gtpu_IPv4_GTPU_IPv6.pcap --
outfile=gtpu_IPv4_GTPU_IPv6_fragments.pcap
```

where frag.cfg contains:
ip_frag 500

  **fklassen** added the **bug** label on 11 May 2015

  **fklassen** removed the **4.1.1** label on 3 Jun 2015

  **fklassen** added this to the **4.1.1** milestone on 19 Dec 2015

  **fklassen** self-assigned this on 19 Dec 2015

 **fklassen** commented on 19 Dec 2015

I have never played with the `--fragroute` option so it took me a while to get my head around it. I think I know enough now to address it.

I was able to get it to work. First I downloaded, compile and install [libdnet-1.11](#) on Linux. It is incorrect to attempt to install it with `apt-get`. Then I ran `./configure && make` in tcpreplay.

Looking at your command example, I see some issues:

- You state that you want to produce a pcap file instead of sending it through an interface. Therefore you should be using `tcprewrite` instead of `tcpreplay-edit`
- Your `frag.cfg` file contains `500`, which is smaller than the minimum `512` allowed by IPv4.
- From the title of your pcap files, it appears that you are attempting to fragment IPv6 packets. Although fragmentation of IPv6 is technically possible, it almost certainly is not supported by the [fragroute](#) code that has been embedded into Tcpreplay suite.**EDIT: I stand corrected - IPv6 does work. I guess fragroute is smarter than I first gave it credit for**

Here is an example of how I got it to work.

- Unzip the `1500.pcap.zip` file.
- Create a `frag.cfg` file that contains:

```
ip_frag 512
```

- run the following command to produce the fragmented `512.pcap` (attached)

```
tcprewrite --fragroute=frag.cfg --infile=1500.pcap --outfile=512.pcap
```

[1500.pcap.zip](#)

[512.pcap.zip](#)



fklassen closed this on 19 Dec 2015



Fabusafat commented on 15 Jan 2020

Dear Prof.

Please could you help into install Fragrout with tcpreplay. I am trying do it and I did as you mention but it not works due to Fragroute not Install at either Ubuntu 16,18 or Debian.

Please, could you help me.

Thank you so much

Assignees



fklassen

Labels

bug

Projects

None yet

Milestone

4.1.1

Linked pull requests

Successfully merging a pull request may close this issue.

None yet

2 participants

