MAC Address Spoofing via macchanger

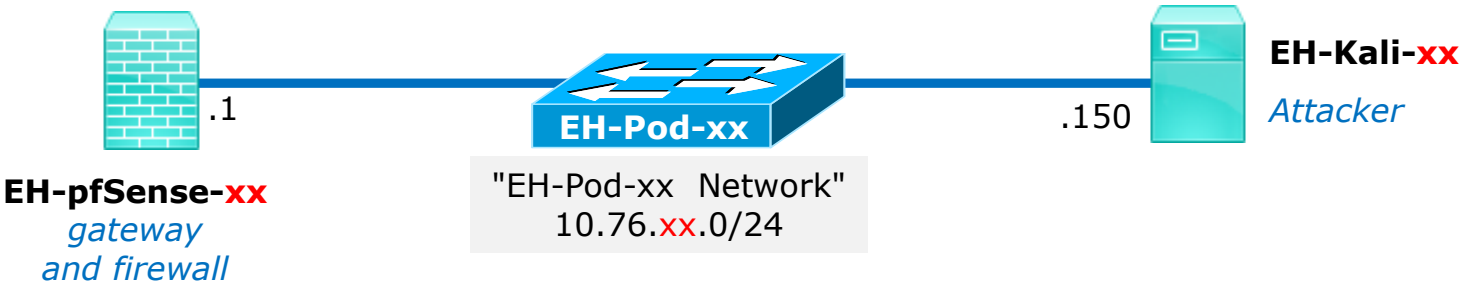
Last updated 9/4/2017

Admonition

Unauthorized hacking is a crime.

The hacking methods and activities learned in this course can result in prison terms, large fines and lawsuits if used in an unethical manner. They may only be used in a lawful manner on equipment you own or where you have explicit permission from the owner.

Students that engage in any unethical, unauthorized or illegal hacking may be dropped from the course and will receive no legal protection or help from the instructor or the college.



In this example, the Kali will ping the pfSense VM using spoofed MAC addresses

Requirements

1. Kali VM at Baseline snapshot.

Layer 2 - MAC Address Spoofing

Why would a hacker do this?

- Create an anonymous identity for a network device.
- Impersonate another network device.
- Gain unauthorized access to services.
- Bypass access control lists that allow and block specific MAC addresses.

https://en.wikipedia.org/wiki/MAC_spoofing

macchanger

macchanger --help

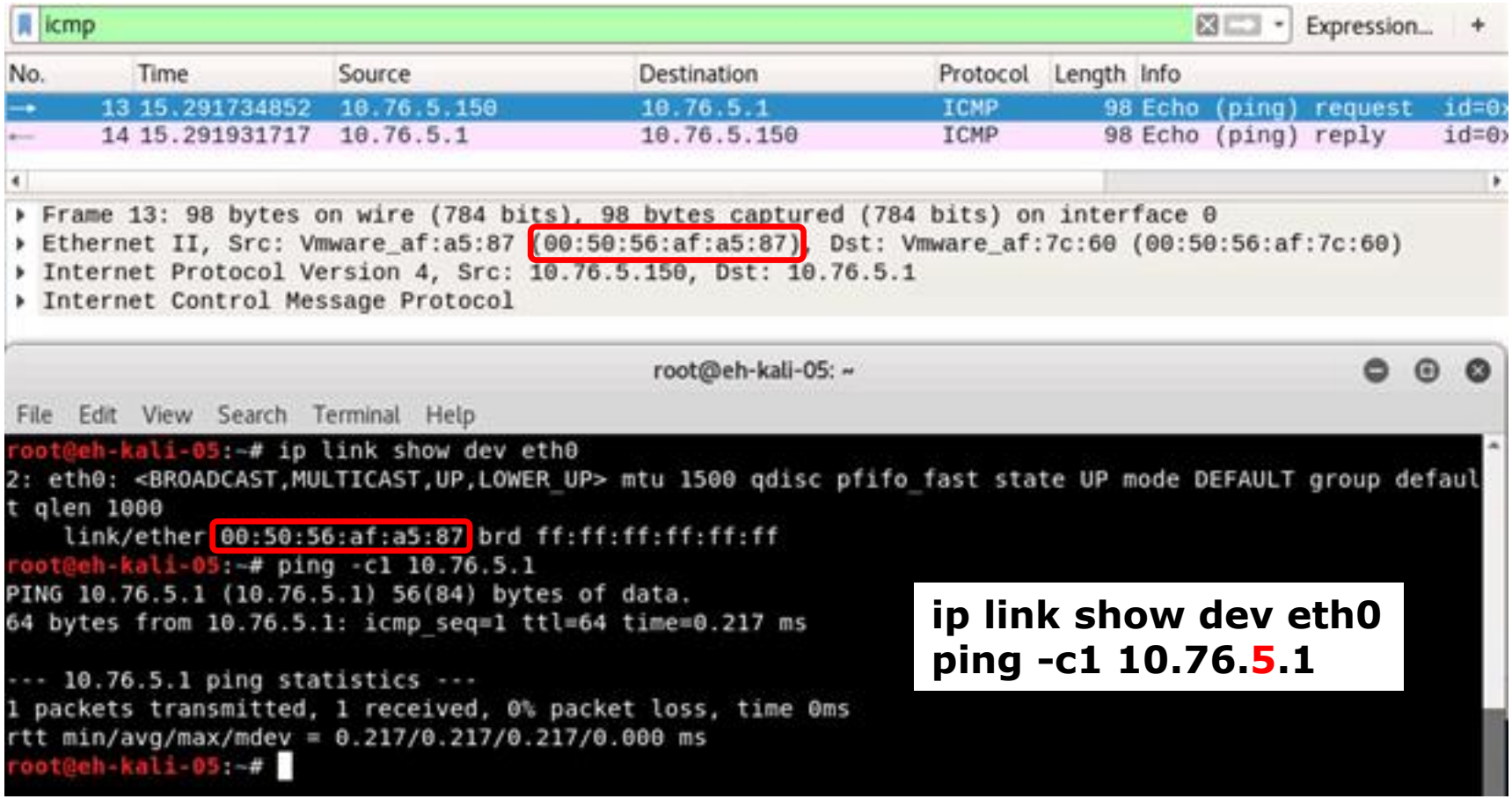
```
root@eh-kali-05:~# macchanger --help
GNU MAC Changer
Usage: macchanger [options] device

  -h,   --help                  Print this help
  -V,   --version               Print version and exit
  -s,   --show                  Print the MAC address and exit
  -e,   --ending                Don't change the vendor bytes
  -a,   --another               Set random vendor MAC of the same kind
  -A                            Set random vendor MAC of any kind
  -p,   --permanent             Reset to original, permanent hardware MAC
  -r,   --random                Set fully random MAC
  -l,   --list[=keyword]        Print known vendors
  -b,   --bia                   Pretend to be a burned-in-address
  -m,   --mac=XX:XX:XX:XX:XX:XX
        --mac XX:XX:XX:XX:XX:XX  Set the MAC XX:XX:XX:XX:XX:XX

Report bugs to https://github.com/alobbs/macchanger/issues
root@eh-kali-05:~#
```

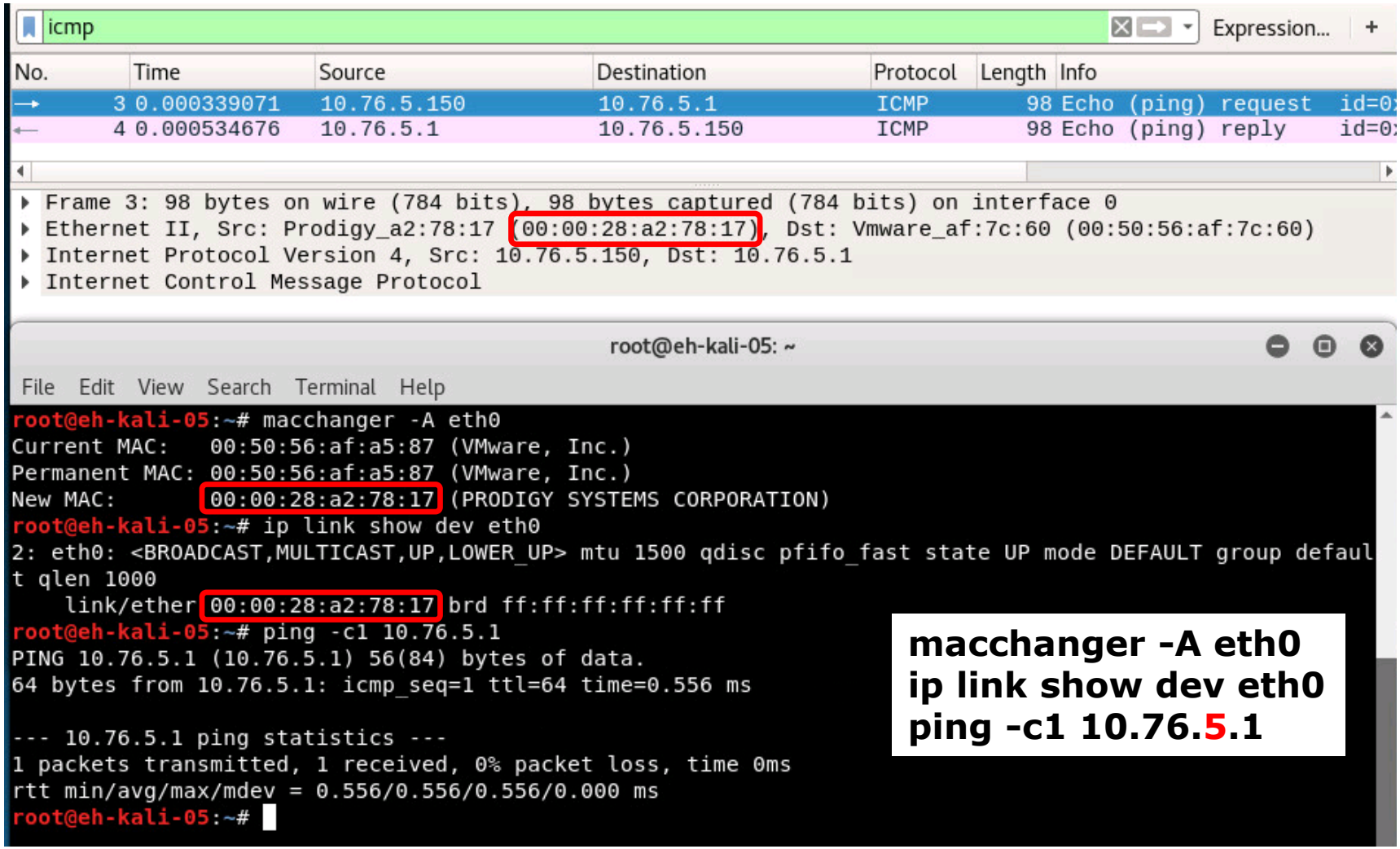
Use macchanger to change (spoof) the MAC address of an interface

macchanger example 1



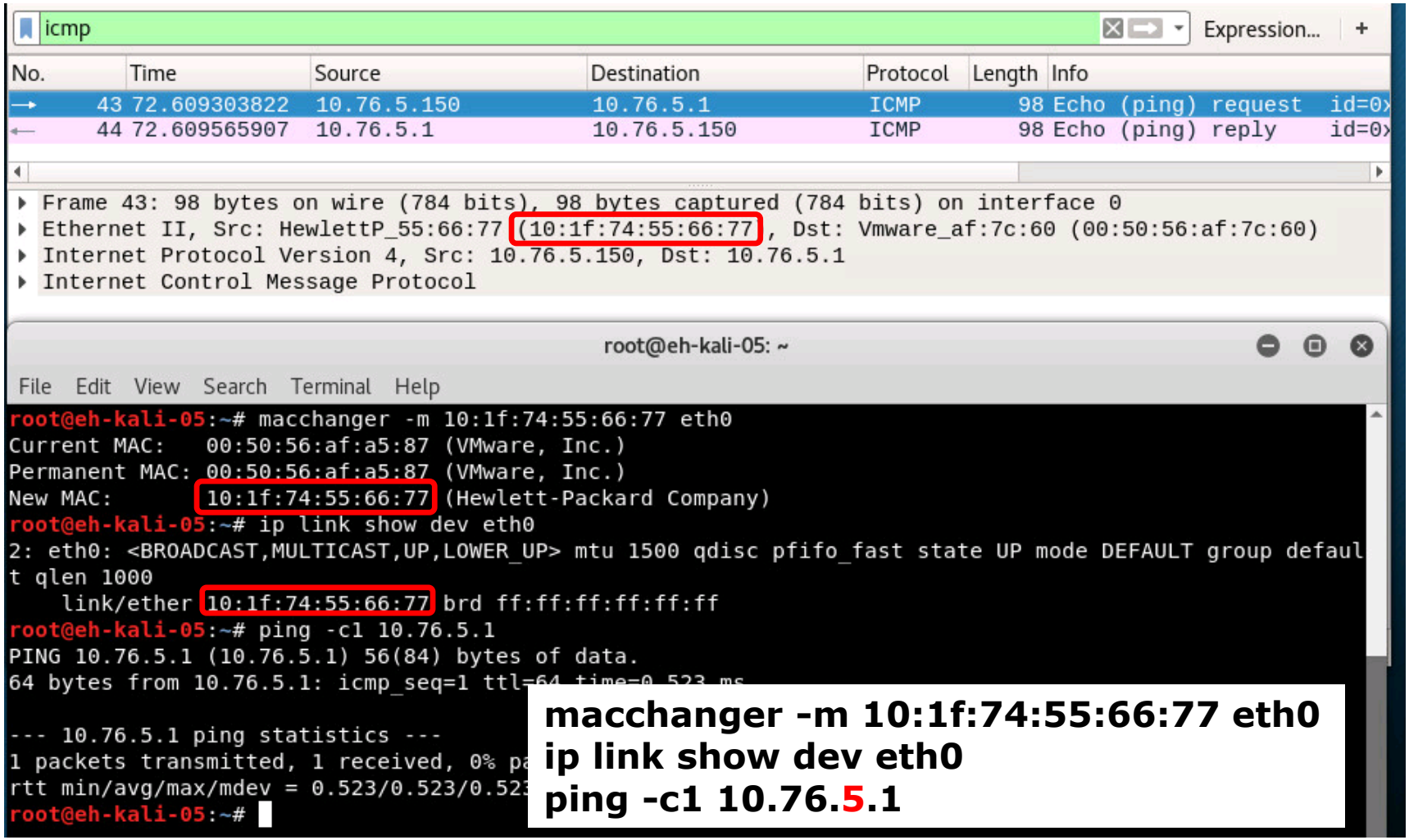
Kali pings pfSense with permanent MAC address

macchanger example 2



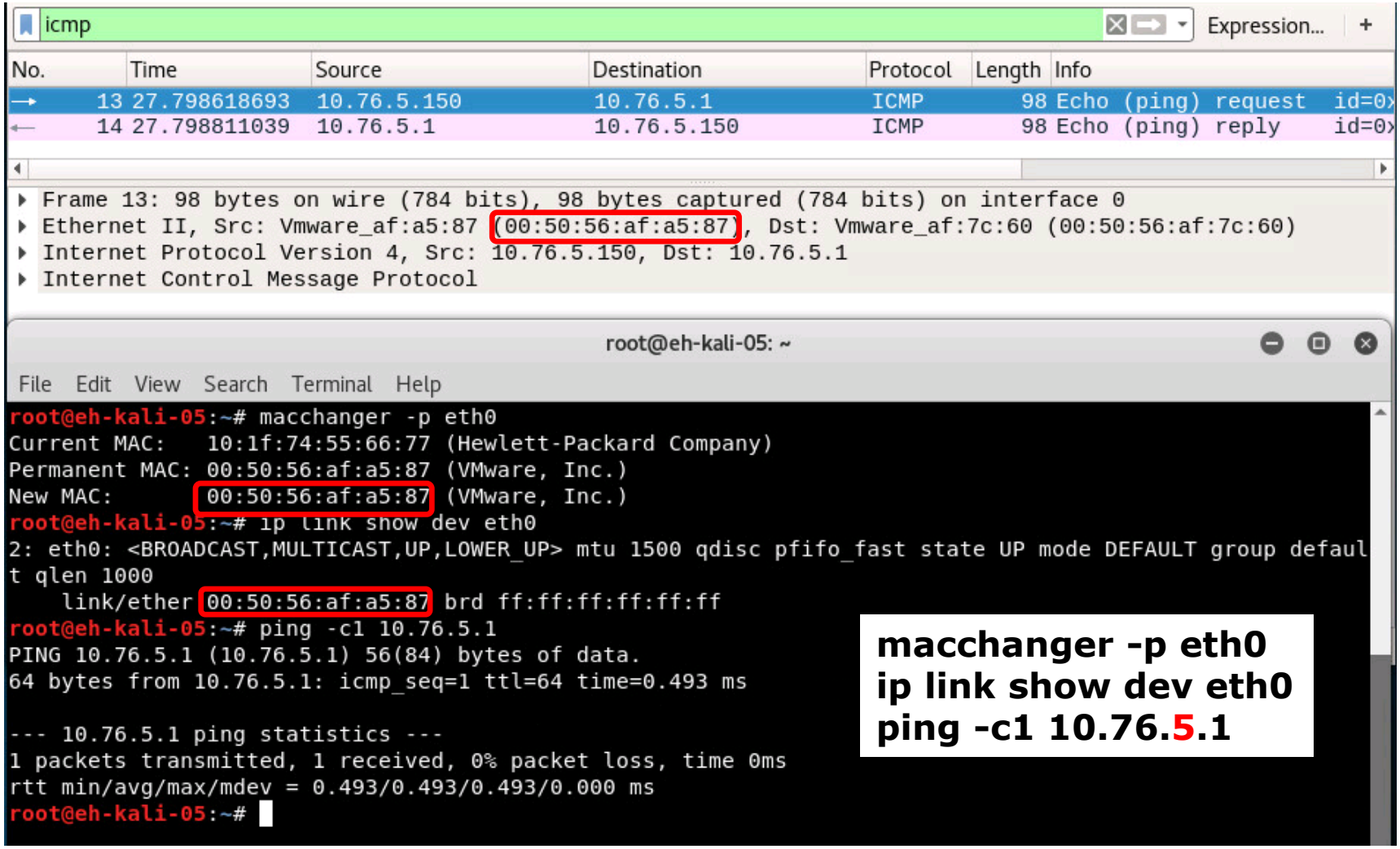
Kali pings pfSense with random spoofed MAC address

macchanger example 3



Kali pings pfSense pretending to be an HP PC

macchanger example 4



Kali pings pfSense with restored permanent MAC address