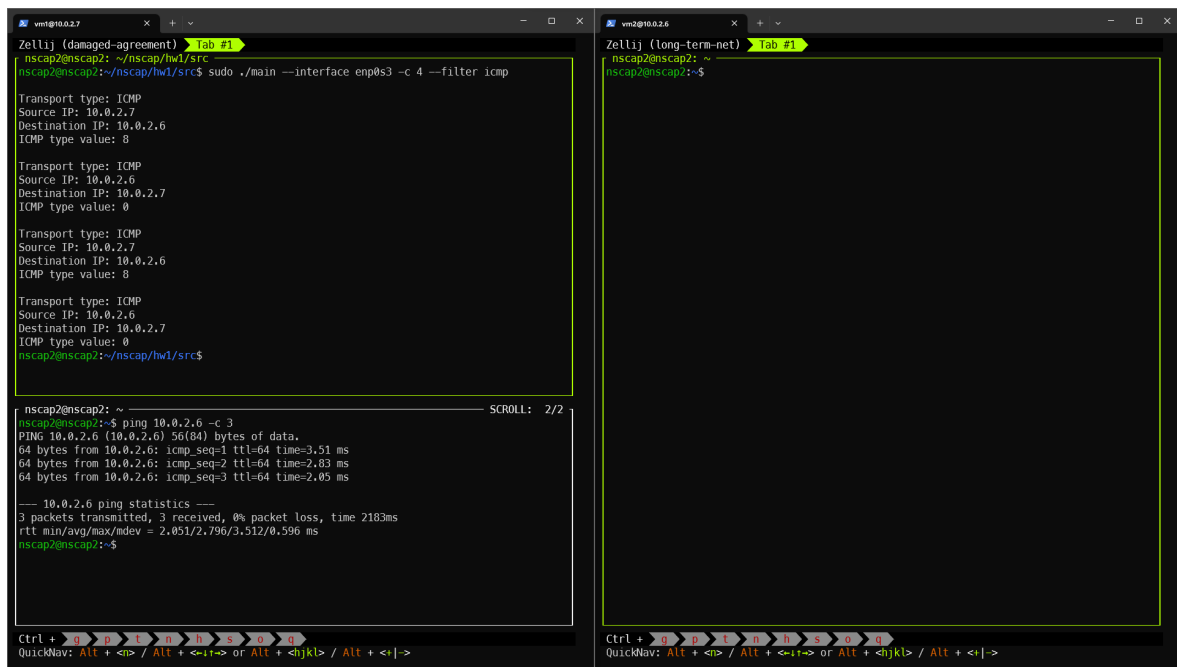


Network Systems Capstone Homework 1 Report

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Experiment 1



The image shows two terminal windows side-by-side. The left window is titled 'vmt1@10.0.2.7' and shows a user 'Zellij (damaged-agreement)' in a 'Tab #1' session. The user is running a command to set up a network interface 'enp0s3' with a filter for ICMP. The output shows several ICMP packets being sent and received, with details like source/destination IP, type, and value. The right window is titled 'vmt2@10.0.2.6' and shows a user 'Zellij (long-term-net)' in a 'Tab #1' session. The user is running a command to ping 10.0.2.6. The output shows the ping statistics, including 3 packets transmitted, 3 received, 0% packet loss, and a time of 2183ms.

```
vmt1@10.0.2.7 x + -
Zellij (damaged-agreement) Tab #1
nscap2@nscap2: ~/nscap/hw1/src
nscap2@nscap2:~/nscap/hw1/src$ sudo ./main --interface enp0s3 -c 4 --filter icmp

Transport type: ICMP
Source IP: 10.0.2.7
Destination IP: 10.0.2.6
ICMP type value: 8

Transport type: ICMP
Source IP: 10.0.2.6
Destination IP: 10.0.2.7
ICMP type value: 0

Transport type: ICMP
Source IP: 10.0.2.7
Destination IP: 10.0.2.6
ICMP type value: 8

Transport type: ICMP
Source IP: 10.0.2.6
Destination IP: 10.0.2.7
ICMP type value: 0
nscap2@nscap2:~/nscap/hw1/src$

nscap2@nscap2: ~
nscap2@nscap2:~$ ping 10.0.2.6 -c 3
PING 10.0.2.6 (10.0.2.6) 56(84) bytes of data:
64 bytes from 10.0.2.6: icmp_seq=1 ttl=64 time=3.51 ms
64 bytes from 10.0.2.6: icmp_seq=2 ttl=64 time=2.83 ms
64 bytes from 10.0.2.6: icmp_seq=3 ttl=64 time=2.05 ms

--- 10.0.2.6 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2183ms
rtt min/avg/max/mdev = 2.051/2.796/3.512/0.596 ms
nscap2@nscap2:~$

Ctrl + [g] [p] [t] [n] [h] [s] [o] [q]
QuickNav: Alt + <=> / Alt + <-it-> or Alt + <hjkl> / Alt + <+|->
```

```
vmt2@10.0.2.6 x + -
Zellij (long-term-net) Tab #1
nscap2@nscap2: ~
nscap2@nscap2:~$

Ctrl + [g] [p] [t] [n] [h] [s] [o] [q]
QuickNav: Alt + <=> / Alt + <-it-> or Alt + <hjkl> / Alt + <+|->
```

Fig. 1: Experiment 1

Experiment 2

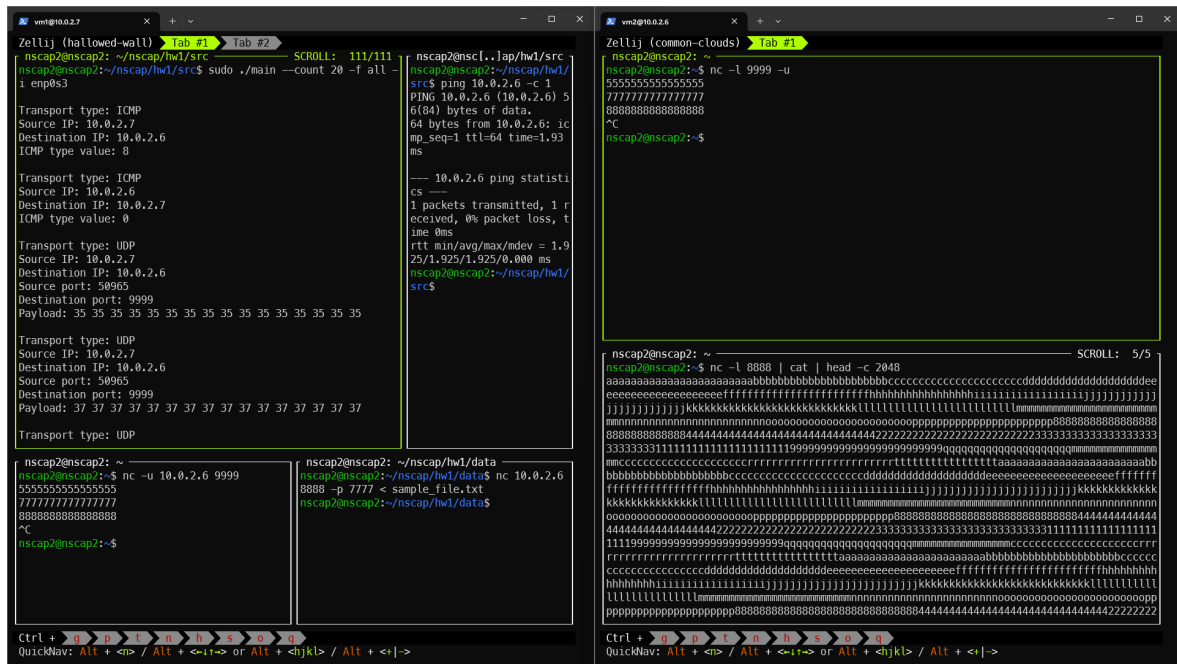


Fig. 2a: Experiment 2 (1/6)

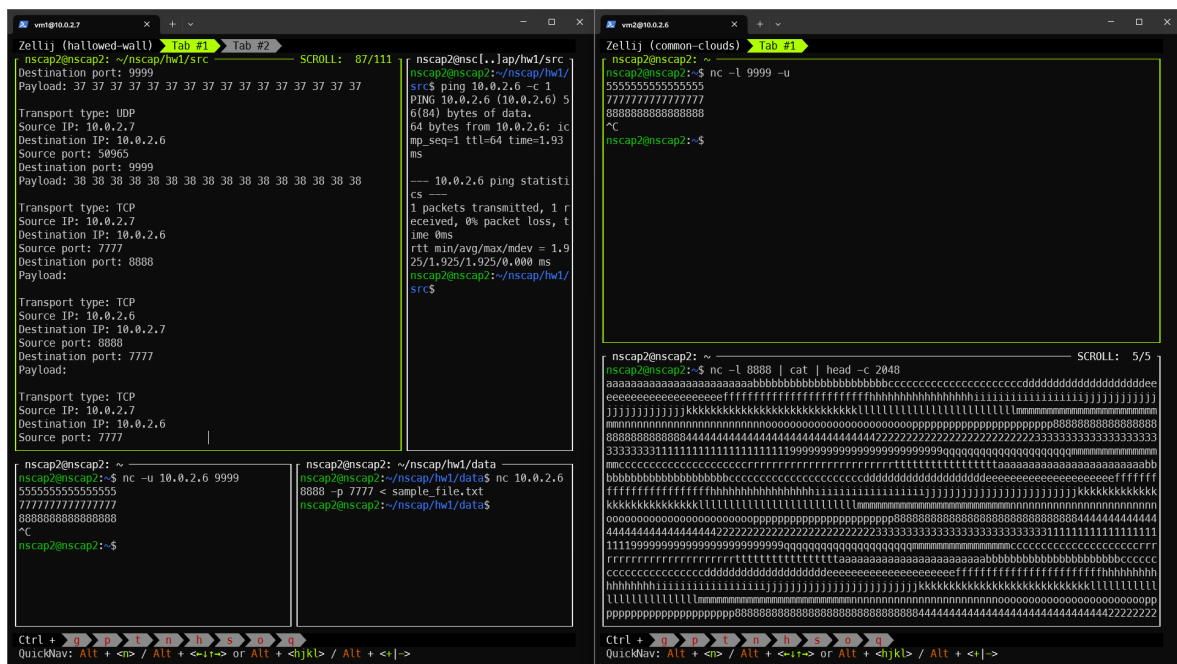


Fig. 2b: Experiment 2 (2/6)

