# Device Drivers
Lab Exercise 8

Vaibhav Singhal
CED17I040

Write on how a SNULL works.

SNULL:

- Simple Network Utility for Loading Localities

- Driver of the network device

- Driver that does not talk to the "actual" devices

- Works like a loopback device but not a loopback interface.

- It simulates conversations with real remote hosts in order to better demonstrate the task of writing a network driver.

- Only supports IP protocol

Working of SNULL:
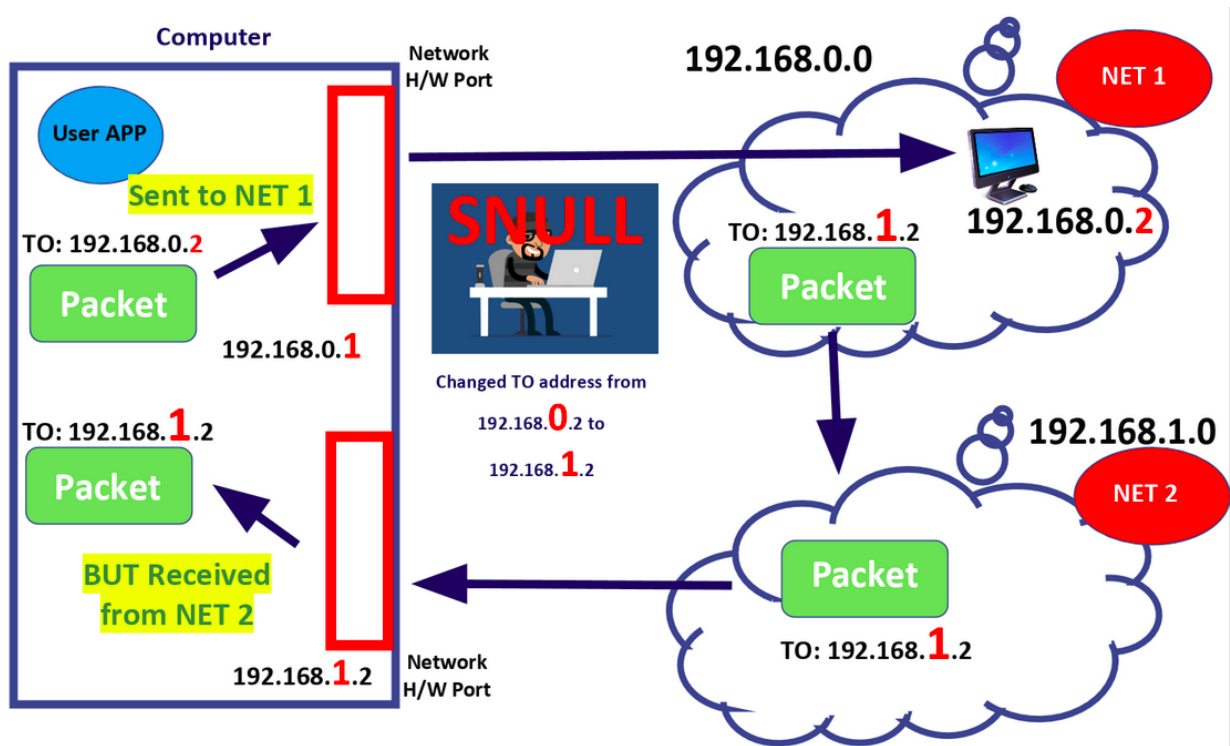
- The user application creates a packet with a destination IP address in the same network as where it is present.
- A network port is opened and the packet is sent to the destination through it.
- The SNULL changes the least important of the third octet of the IP address(Class C) thereby changing the destination IP address to a different network.
- The packet accordingly gets rejected by the former IP address since the packet's destination is not the same as it is.

- Now the packet goes to the changed destination network/IP address with the same contents as the previous one.
- The reply from this IP address is collected using the other Network Port from the Host/Source IP address.
- We observe that the packet was sent to one network and the reply originated from another network although internally the packet is the same.