011.07Mar.Linux-NetworkCategoryCommands(NC)

07 March 2023 08:24 PM

Adding GD

Sat & Sun 11 to 12

(Concept) GD 9 to 10

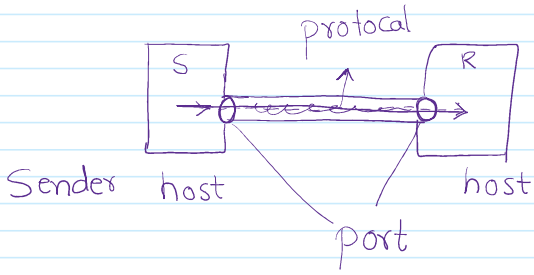
Previous Session

- IP addresses
- Protocal
- Port
- Network (LAN & WAN)
- Subnet & Implimentation
  - $ ip
  - $ ip address
  - $ ip link
  - $ ip route

- Repository
  - System
  - Package
  - Source Code.

Network Communication (nc)

- netCat (nc)
  - N/w utility tool / Linux Network Commad
  - Communicaton between Sender & Rec.
    - Message
    - Text
    - Binary.
  - Trouble shooting.
  - Open BSD



- Ubuntu
- Debian
- RedHat
- Centos

$ nc ✓
$ netcat ✓
$ ncat *

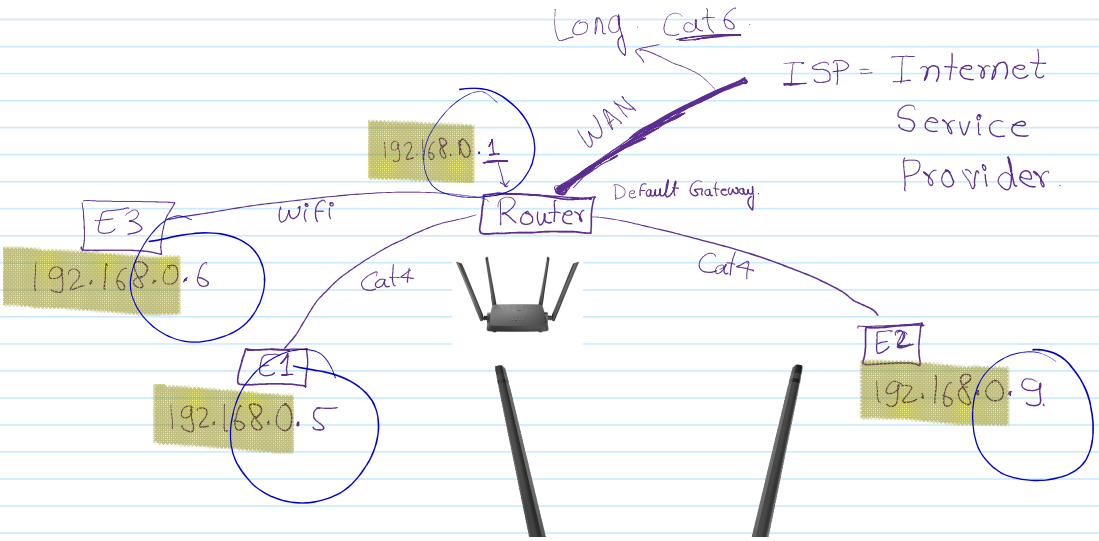
netcat 2 mode's

Connect (Client)	Listen (Server)
◦ Protocals (TCP/UDP)	- Protocals (TCP/UDP)
◦ Specified Port	- All Port's (1234)

Format

$ nc [<options>] <host> <port>

host = IP address (public / private)



Power
Local Device
telephone Line
(Output)
LAN/WAN (Input)
Internet

WAN
D0 (Head)
LAN
LAN
D1 Sales
D2 Marketing

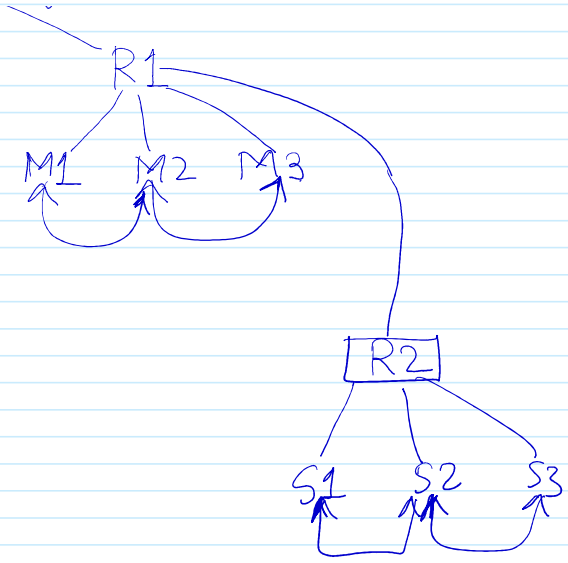
γ1 = F M Muj B1 B3 S1 ....

γ2 = Muj → LAN → Repitor.

W C1 C2 C3

Access point

WAN
R1



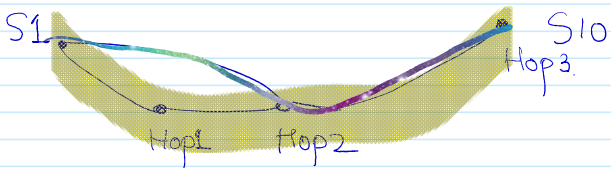
192.168.0.10

192.168.0.12

192.168.0.16

IPv -4 / -6

UDP -U / -u / --udp



Sets hops for Source Routing. -g h1, h2, ---

Bind Port -p PORT --source-port } Connect Mode

-l Listen.

-v → Verbose.

sudo hostname s1
sudo apt install net-tools
ifconfig
172.31.54.26

ping <Private-IP>

Example1: Connect

Server$ nc -lv 1234

Client$ nc -v <ServerIP> 1234

Example2: Global Server Connection

Client$ nc -zv google.com 443

Example3: Connection stays open

Server$ nc -lkv 1234
Client$ nv -zv <ServerIP> 1234

Example4: Multiple Ports Scanning

Server$ nc -lkv 1234
Client$ nc -zv <ServerIP> 1230-1235

Example5: Scan Multiple Ports and Display only Open Ports
---
nc -zv 127.0.0.1 1200-1235 2>&1 | grep 'succeeded'

Example6: Send Simple Text File

Server$ touch file{0..999}.txt
Server$ tar -cvf file*.txt

Server$ nc -lv 1234 < file.zip

Client$ nc -zv <ServerIP> > file.zip