NETWORKING & SYSTEM ADMINISTRATION LAB

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Experiment No.: 26

Aim

NETCAT Installation.

1. **Install**

    To install netcat on Ubuntu.

Syntax: $ sudo apt-get install netcat

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libpcre16-3 libpcre3-dev libpcre32-3 libpcrecpp0v5 libssl-dev libssl-doc php-common php-pear php-xml php7.2-cli php7.2-common php7.2-json
  php7.2-opcache php7.2-readline php7.2-xml pkg-php-tools shtool
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  netcat-traditional
The following NEW packages will be installed:
  netcat netcat-traditional
0 upgraded, 2 newly installed, 0 to remove and 13 not upgraded.
Need to get 65.1 kB of archives.
After this operation, 157 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 netcat-traditional amd64 1.10-41.1 [61.7 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 netcat all 1.10-41.1 [3,436 B]
Fetched 65.1 kB in 1s (119 kB/s)
Selecting previously unselected package netcat-traditional.
(Reading database ... 226211 files and directories currently installed.)
Preparing to unpack .../netcat-traditional_1.10-41.1_amd64.deb ...
Unpacking netcat-traditional (1.10-41.1) ...
Selecting previously unselected package netcat.
Preparing to unpack .../netcat_1.10-41.1_all.deb ...
Unpacking netcat (1.10-41.1) ...
Setting up netcat-traditional (1.10-41.1) ...
Setting up netcat (1.10-41.1) ...
Processing triggers for man-db (2.8.3-2) ...
```

2. **sudo nc -l -p 1234**

To send message from one console and receive from another console by an advanced packet analyser.

Syntax: $ nc -l -p 1234

        $ nc <ip address>

Output:-

```
                              mca@S53: ~                          ×
mca@S53:~$ nc -l -p 1234
HAI

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```
                              mca@S53: ~                          ×
mca@S53:~$ ifconfig
docker0: flags=4099<UP,BROADCAST,MULTICAST>  mtu 1500
        inet 172.17.0.1  netmask 255.255.0.0  broadcast 172.17.255.255
        ether 02:42:29:78:a8:ad  txqueuelen 0  (Ethernet)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

enp3s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.6.53  netmask 255.255.255.0  broadcast 192.168.6.255
        inet6 fe80::6731:538b:3a09:2b1c  prefixlen 64  scopeid 0x20<link>
        ether 2c:56:dc:9b:c1:9f  txqueuelen 1000  (Ethernet)
        RX packets 803  bytes 138109 (138.1 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 230  bytes 43266 (43.2 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 217  bytes 15079 (15.0 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 217  bytes 15079 (15.0 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

mca@S53:~$ nc 127.0.0.1 1234
HAI

```