## Module - 1

## **DOS Commands**

```
MODULE - 1
DOS COMMANDS

1) PING Command: To check whether your internet
connections work you can use command prompt to
test your connection to a cutain website or internet
location. To sheek connectivity with Goodfle we
type ping www.google.com".

Type C:\> ping X. X. X. X.

By default ping sends 4 Icmp packets each q 32 bytes.
The response packets are called Icmp echo reply packets.

Type C:\> ping X. X. X. X. - t

- t switch will continue to send packets to the
destination until user stops by pressing ctil + C.
```

```
C:\Users\ram10>ping 192.168.0.103

Pinging 192.168.0.103 with 32 bytes of data:
Reply from 192.168.0.103: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.103:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\ram10>_
```

```
2) IPCONFIG Command: Displays full TCP/IP configuration
   of all network adapters installed in your system.
   Type c:1> "pconfig
    If you add all switch to the command you can get
   a whole new level of details. The DNS MAC and other
   information about each network component.
   Ipconfig has a number of surtches, the most common:
 · aptorfig all: diplaye more information about the
   network setup on your bystems including the MAC
    address.
   apconfig release: release the current IP address
    ipconfig renew: renew IP address
              : shows help
   "pronfig / Johnshons: flush the doe cache.
```

```
Command Prompt
C:\Users\ram10>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 1:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 2:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::dc5f:be6e:9dc2:427%15
   IPv4 Address. . . . . . . . . : 192.168.0.103
   Subnet Mask . . . . . . . . . .
                                          : 255.255.255.0
   Default Gateway
                                          : 192.168.0.1
```

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3.

```
Traveit Command: - It tells you the path a parket takes from your computer to the destination. It will list all the routers from which a parket passes until it reaches destination.

c: > travert google.com.
```

```
C:\Users\ram10>tracert google.com
Tracing route to google.com [142.250.76.46]
over a maximum of 30 hops:
                          <1 ms 192.168.0.1
2 ms 10.232.0.1
                 <1 ms
       2 ms
                 1 ms
        2 ms
                                  broadband.actcorp.in [202.83.20.43]
                           3 ms 14.141.145.5.static-Bangalore.vsnl.net.in [14.141.145.5] 9 ms ^C
        2 ms
                 2 ms
        9 ms
                 11 ms
C:\Users\ram10>
C:\Users\ram10>
```

```
Displays the default DNS server information.

icannend: - C: > rslookup
```



```
5) NETSTAT Command: You can get useful and nic info from the netstat command, which lats you see the network that are active between your system and any other systems on your network.

Commands: c:1> netstat

c:1> netstat - a

c:1> netstat - an.
```

```
:\Users\ram10>
C:\Users\ram10>netstat
Active Connections
 Proto Local Address
                                Foreign Address
                                                        State
        192.168.0.103:49674
                                52.139.250.253:https
                                                        ESTABLISHED
 TCP
 TCP
        192.168.0.103:49694
                                broadband:https
                                                        ESTABLISHED
 TCP
         192.168.0.103:49695
                                broadband:https
                                                        ESTABLISHED
 TCP
         192.168.0.103:49696
                                broadband:https
                                                        ESTABLISHED
 TCP
        192.168.0.103:49701
                                broadband:http
                                                        ESTABLISHED
 TCP
         192.168.0.103:49702
                                broadband:http
                                                        CLOSE WAIT
 TCP
         192.168.0.103:49703
                                broadband:http
                                                        ESTABLISHED
 TCP
        192.168.0.103:49704
                                broadband:http
                                                        ESTABLISHED
 TCP
         192.168.0.103:49705
                                52.139.250.253:https
                                                        ESTABLISHED
 TCP
         192.168.0.103:49709
                                                        ESTABLISHED
                                broadband:http
         192.168.0.103:49730
 TCP
                                broadband:https
                                                        ESTABLISHED
 TCP
        192.168.0.103:50223
                                broadband:https
                                                        ESTABLISHED
C:\Users\ram10>
```

```
C:\Users\ram10>netstat -n
Active Connections
  Proto Local Address
                                 Foreign Address
                                                         State
         192.168.0.103:49674
                                 52.139.250.253:443
                                                         ESTABLISHED
  TCP
  TCP
         192.168.0.103:49694
                                 106.51.145.136:443
                                                         ESTABL TSHED
                                 106.51.145.136:443
  TCP
         192.168.0.103:49695
                                                         ESTABLISHED
  TCP
         192.168.0.103:49696
                                 106.51.145.136:443
                                                         ESTABLISHED
         192.168.0.103:49701
                                 106.51.146.30:80
                                                         ESTABLISHED
         192.168.0.103:49702
                                 106.51.146.30:80
                                                         CLOSE_WAIT
  TCP
         192.168.0.103:49703
                                 106.51.146.30:80
                                                         ESTABLISHED
  TCP
         192.168.0.103:49704
                                 106.51.146.30:80
                                                         ESTABLISHED
         192.168.0.103:49705
                                 52.139.250.253:443
                                                         ESTABLISHED
  TCP
  TCP
         192.168.0.103:49709
                                 106.51.146.30:80
                                                         ESTABLISHED
                                 106.51.145.136:443
  TCP
         192.168.0.103:49730
                                                         ESTABLISHED
         192.168.0.103:50223
                                 106.51.144.8:443
                                                         ESTABLISHED
         192.168.0.103:50305
                                 52.114.14.231:443
                                                         ESTABLISHED
  TCP
         192.168.0.103:50329
                                 52.114.40.55:443
                                                         ESTABLISHED
  TCP
         192.168.0.103:50362
                                 52.111.252.0:443
                                                         ESTABLISHED
         192.168.0.103:50364
                                 52.114.6.215:443
                                                         ESTABLISHED
  TCP
                                 52.114.133.60:443
  TCP
         192.168.0.103:50375
                                                         ESTABLISHED
  TCP
         192.168.0.103:50876
                                 20.44.232.74:443
                                                         TIME WAIT
  TCP
         192.168.0.103:50880
                                 20.44.232.74:443
                                                         ESTABLISHED
         192.168.0.103:50881
                                 52.109.124.51:443
                                                         TIME_WAIT
  TCP
                                                         ESTABLISHED
         192.168.0.103:50882
                                 52.114.32.111:443
  TCP
         192.168.0.103:50883
                                 52.113.194.132:443
                                                         ESTABLISHED
         192.168.0.103:50884
  TCP
                                 52.114.158.91:443
                                                         ESTABLISHED
```

ARP command: ARP command corresponds to the address resolution protocol, it is easy to understand of network communications in term of IP addressing. parket delivery is permetely dependent on the MAC address of the device's network adapter. This is where ARP comes into play. Its job is to map IP address to MAC address. It shows the contents of this cache by using the ARP-a command. If any problems communicating with one specific host, you can append the semote host's IP address to the ARP-A command.

```
Х
 Command Prompt
Microsoft Windows [Version 10.0.18363.1316]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\ram10>arp -a
Interface: 192.168.0.103 --- 0xf
 Internet Address
                       Physical Address
                                             Type
  192.168.0.1
                       d8-47-32-d5-39-f2
                                             dynamic
 192.168.0.104
                       9c-b7-0d-ce-e6-3d
                                             dynamic
 192.168.0.255
                       ff-ff-ff-ff-ff
                                             static
 224.0.0.22
                       01-00-5e-00-00-16
                                             static
 224.0.0.251
                       01-00-5e-00-00-fb
                                             static
 224.0.0.252
                       01-00-5e-00-00-fc
                                             static
 239.255.255.250
                       01-00-5e-7f-ff-fa
                                             static
                       ff-ff-ff-ff-ff
 255.255.255.255
                                             static
C:\Users\ram10>_
```

```
Nostat -n Connend:

The nostat -n command for exemple

Shows the NetBIOS names that are in use by a devices. The nostat - r command shows how many netBIOS names the device has been able to resolve recently.
```

```
Command Prompt
                                                                                                               C:\Users\ram10>nbtstat -n
Node IpAddress: [0.0.0.0] Scope Id: []
    No names in cache
Wi-Fi:
Node IpAddress: [192.168.0.104] Scope Id: []
               NetBIOS Local Name Table
       Name
                                      Status
                         Type
    LAPTOP-MVFDF0VD<00> UNIQUE
                                     Registered
    WORKGROUP
                 <00> GROUP
                                    Registered
    LAPTOP-MVFDF0VD<20> UNIQUE
                                    Registered
Local Area Connection* 1:
Node IpAddress: [0.0.0.0] Scope Id: []
    No names in cache
Local Area Connection* 2:
Node IpAddress: [0.0.0.0] Scope Id: []
    No names in cache
C:\Users\ram10>
```

8) Route Command:

If rebooks using the routing table to direct packets from one subnet to another. The windows route utility allows to view the device's routing tables. The route command is that it not only shows you the routing table, it lets you make changes commands such as route add, delete and route change are used for such modifications.

```
C:\Users\ram10>route -4
Manipulates network routing tables.
ROUTE [-f] [-p] [-4|-6] command [destination]
                 [MASK netmask] [gateway] [METRIC metric] [IF interface]
              Clears the routing tables of all gateway entries. If this is
              used in conjunction with one of the commands, the tables are
              cleared prior to running the command.
              When used with the ADD command, makes a route persistent across
              boots of the system. By default, routes are not preserved
              when the system is restarted. Ignored for all other commands,
              which always affect the appropriate persistent routes.
              Force using IPv4.
              Force using IPv6.
              One of these:
 command
                PRINT
                          Prints a route
                ADD
                          Adds a route
                          Deletes a route
                DELETE
```

```
Getmac Command:

Getmac is a windows command that used to display the MAC addresses for each network adapter. One of the fastest way to obtain the MAC address is by using getmac command.
```

10.

Systemingo Command 1If you need to know what bland of network
you have processor details, or exact version of OS
this command helps. This command polls your eystem
of pulls the most important information of lists
in a easy form to read.

OS Build Type: Multiprocessor Free Registered Owner: ram108.jps@gmail.com

OS Configuration:

Registered Organization: Product ID: 00327-35879-79264-AA0EM Original Install Date: 10-08-2020, 07:19:25 18-03-2021, 17:49:51 System Boot Time:

N/A

System Manufacturer: LENOV0 System Model: 81Y4

System Type: x64-based PC

Processor(s):

1 Processor(s) Installed. [01]: Intel64 Family 6 Model 165 Stepping 2 GenuineIntel ~2496 Mhz

BIOS Version: LENOVO EGCN24WW, 28-03-2020

Windows Directory: C:\Windows

C:\Windows\system32 System Directory: Boot Device: \Device\HarddiskVolume6 en-us;English (United States) System Locale:

Input Locale: 00004009

Time Zone: (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Standalone Workstation

Total Physical Memory: 8,060 MB Available Physical Memory: 3.077 MB