MODULE 18 :
Linux Networking Commands

ifconfig

- **Ifconfig**

- **(**many systems may not have these network related commands or utilities installed so, we may need to install that explicitly).

installing (optional)

- many of the useful network-based utilities come packed in a single package called net-tools

- sudo apt install net-tools

ifconfig contd..

- **ifconfig** is also used to assign an address to a network interface and/or configure network interface parameters.

- the IP address (inet addr) here is the MAC address which is the hardware address of ethernet in this case

- inet6 address is also present

other commands

- type host google.com

- whois google.com

- ping google.com

- traceroute google.com

- Determine if you can ping the localhost

- ping localhost or

- ping 127.0.0.1

Does the localhost respond?

- [root@localhost root]# ping localhost

- [root@localhost root]# ping google.com

Confirm you have set up the interface correctly.

- ping the address returned by the ifconfig command "Ping 192.168.2.1"

```
eth0     Link encap:Ethernet  HWaddr 00:04:AC:16:54:4C
         inet addr:192.168.2.1  Bcast:192.168.2.255  Mask:255.255.255.0
         inet6 addr: fe80::204:acff:fe16:544c/10 Scope:Link
         UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
         RX packets:116242 errors:0 dropped:0 overruns:0 frame:0
         TX packets:123380 errors:0 dropped:0 overruns:0 carrier:0
         collisions:9052
         RX bytes:39103579 (37.2 Mb)  TX bytes:106270739 (101.3 Mb)
```
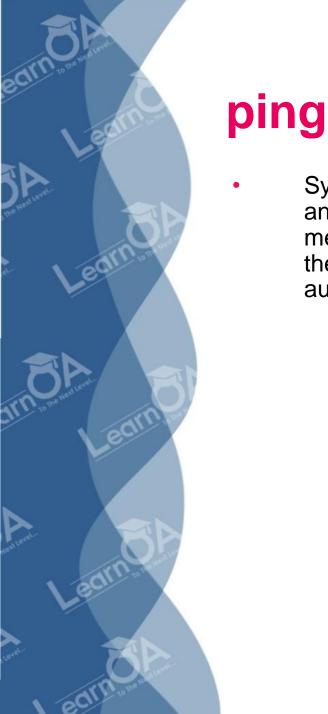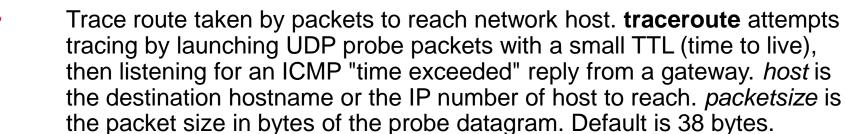
ping

- System administration command. Confirm that a remote host is online and responding. **ping** is intended for use in network testing, measurement, and management. Because of the load it can impose on the network, it is unwise to use **ping** during normal operations or from automated scripts.
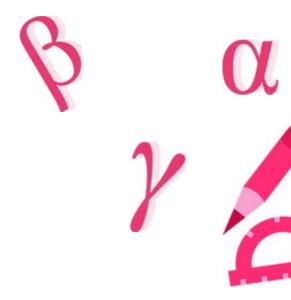
traceroute

- Trace route taken by packets to reach network host. **traceroute** attempts tracing by launching UDP probe packets with a small TTL (time to live), then listening for an ICMP "time exceeded" reply from a gateway. *host* is the destination hostname or the IP number of host to reach. *packetsize* is the packet size in bytes of the probe datagram. Default is 38 bytes.

Thank You !!