Session - 3

ques Following is the list of ip address, which one is correct?

   a.   192.168.0.1
   b.   192.168.12345
   c.   192.12389
   d.   1234676
   e.   None of these
   f.   all the above ip is correct

sol   (a) is valid ip, but remaing b, c, d can also be valid ip if we change their format and convert it into binary, decimal

eg   https://28 99945412

What is Network?

A system that connect another system by which we can do something with other system., is known as Network.

What is Packet?

It is a small segment of a large message. data send over Computer Network such as Internet, is divided into Packets.

What is Datagrams?

Datagrams, is a segment of data sent over a packet-switched network. It's contains enough information. to be routed from its Source to Destination.

What is Spoofing?

"Spoofing, as it pertains to cybersecurity, is When someone or something pretends to be something else in an attempt to gain our confidence, get access to our Systems, steal data, steal money, or spread malware

→ Email Spoofing → Caller ID Spoofing → GPS spoofing.

→ Website Spoofing. → Facial Spoofing ----

que   like in Mobile phone, we have sim card for access call & Internet, so what/which card help in our system to connect/provide these services?

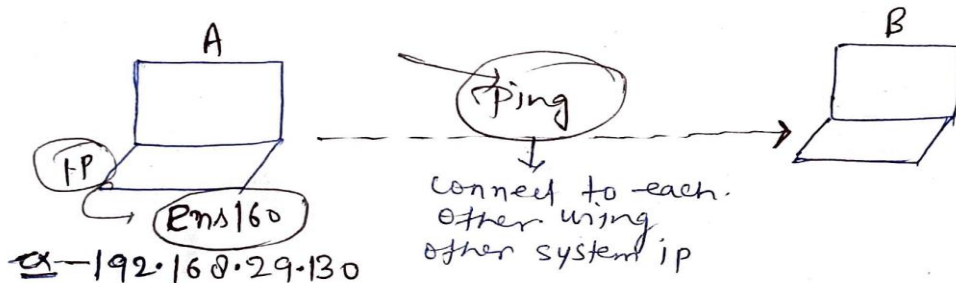Network Card / LAN Card / NIC Card / Ethernet Card. (all these word are same)
↳ this card also have special unique id you can check it using :

> ifconfig
    ↳ (ens160) → My first N/w, you might have different name.

Note : We always give the ip to our Network card / Ethernet Card
    i.e   if you have 2 Ethernet Card you run set 2 ip

A   (Ping)   B

IP
    ↳ (Ens160)   connect to each other using other system ip
α—192.168.29.130

> (ping google.com) → this is infinite command, here we are connect to google

> (ns lookup google.com) → Nslookup(stands for " Nameserver lookup") is a useful for getting or find address record for a domain

Output ⇓

Server ; 192.168.29.2
Addren ; 192.168.29.2#53

Non-authoritative answer ;
 Name ; google.com
 Addren ; 216.58.196.110
 Name ; google.com
 Addren ; 2404:6800:4002:200e