What is network?

- Communication
- network Interfaces.
- Devices exchange data

A stander, for devices communicate each other

OSI Model

Open System Interconnection

7 层架构

Application
Presentation
Session
Transport
Network
Data link
Physical

Basic elements of a layered model are

- services
- protocols
- interfaces.

IPv4 Address

192. 168. 100. 1   32 bit
1st octec 2nd octec 3   4

~~IPv6~~

IPv4 Range

0.0.0.0 — 255.255.255.255
最大是 255 是因为八位二进制
"的" 表示最大的十进制数为 255

IP : Public IP And Private IP

class of IP

   Class A   10. 开头

   Class B   172 开头

   Class C   192 开头

Protocls

   Transport layer

       TCP   and   UDP

Tcp :

   - Reliable Protocol   回头看看八股文

   - Connection Oriented

UDP

TCP / IP Protocal
5 layer Archeticure

Networking   Command

ifconfig 查配置

Ping [IP 地址] or [主机名]

ping 就是 Ping 一下

tracing [IP 地址]
和 Ping 差唔多, 多一D 细节

Netstat - antp

Check all the tcp open port

n map
用于检查问题

dig   www. google . com
DNS look up

route   -n
show gateway

arp
view   kernal arp table

mtr
show hop   看丢包率