Transport Layer

- Send(), recv(), accept().
- Can interact with.

UDP.

Network layer

- Cannot directly interact

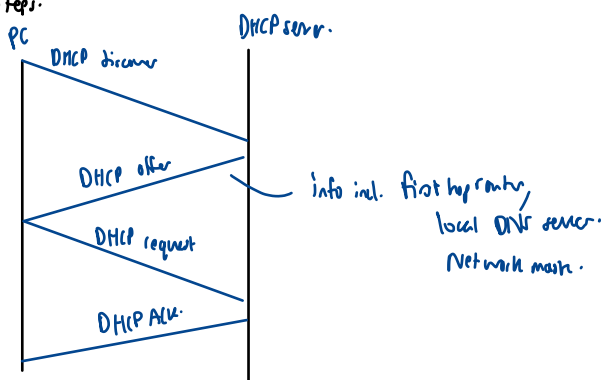# Link Layer.

} built into OS.

Network layer.

⇒ IP address

allocated by ICANN to ISPs. (eg. SingTel)

organisation / small companies rent/buy from ISPs
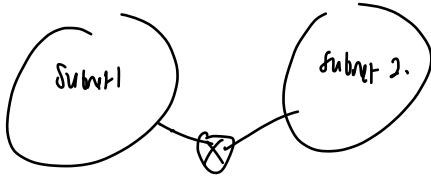
- host get IP address through **DHCP**

- 4 steps.

info incl. first hop router,
local DNS server.
Network mask.

- DHCP runs over UDP.

Subnet

- Computers connected by cables, can reach each other.

- Network / subnet prefix
  - → a subnet will have same network prefix in IP addr.
  - → if diff. prefix, packet will be passed to router, rather than transmit in subnet

- Connected using wires / switches.

CIDR

└ Class InterDomain Routing.

└ a.b.c.d/x
$$=$$
└ num of prefix

Subnet Mask

└ same info as CIDR.

└ setting all subnet prefix bits to 1s and host ID bits to 0s.

└ contiguous chunk of 1s.