A D R E S S

IP address |_____|_____|_____| 32 bits.

network address   host address
unique.

MAC adress   globally unique.

NIC   network   interface   controller.

cloud   space.   EX: A W S
↓   ↓   ↓
Amazon   web   Service.

cloud   ,   create   a   new   format. ,   not   generate data.

1. Transcoding.

2. S3.   simple   storage   system

3. EC1. : Elastic   computing   clould.

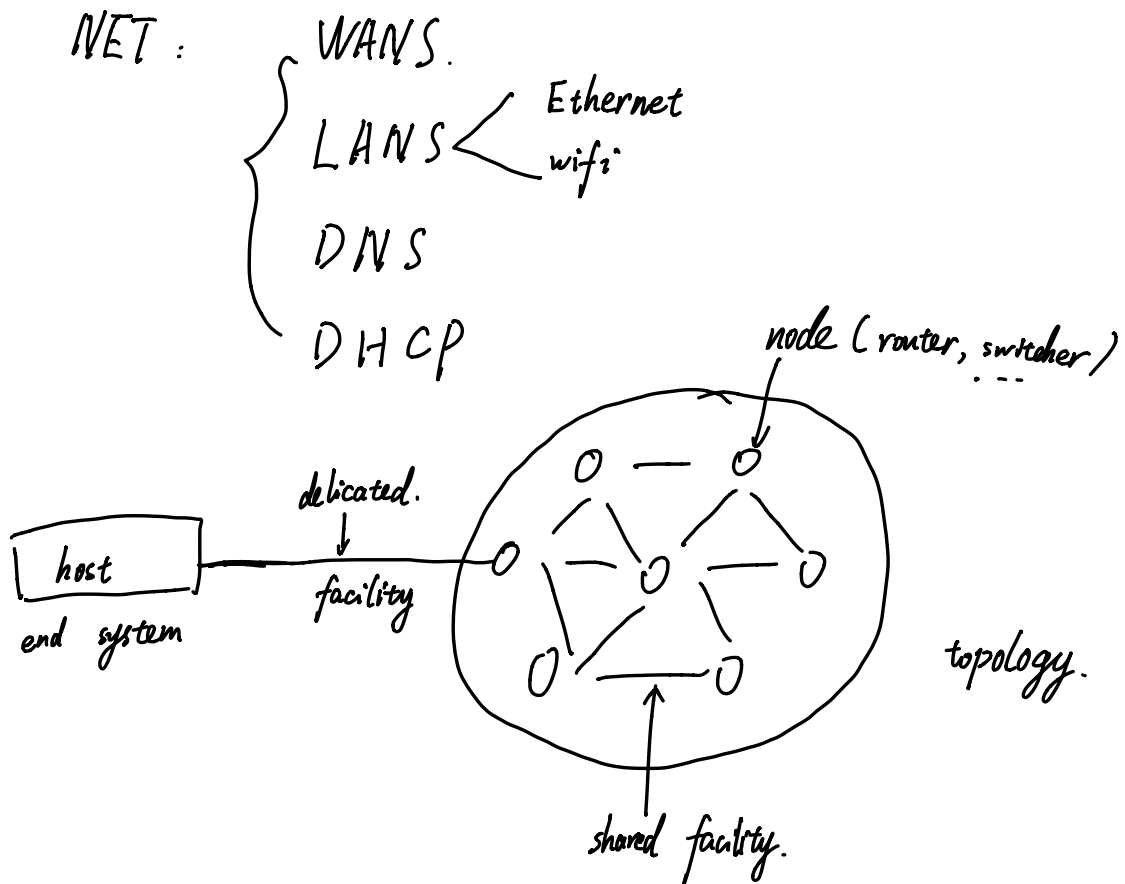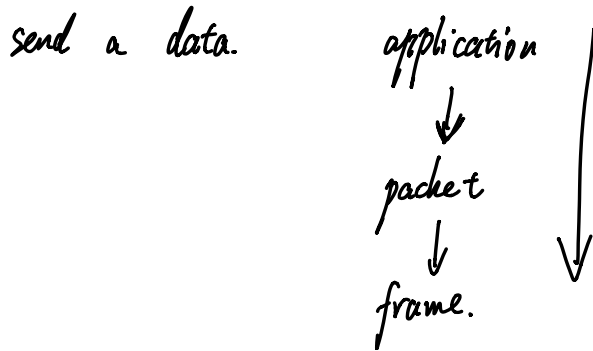CDNs :   constant   distribution   networks.

ISP :   Internet   Service   Provider   rank Tier 1
Tier 2
Tier 3.

Netflix process
content (data) → netflix stack → distribution → customer

transcoding: one format → another   CDNs

storage.

send a data.   application
                    ↓
                packet
                    ↓
                frame.

NET: WANS.
        LANS < Ethernet
                  wifi
        DNS
        DHCP

                                    node (router, switcher)

            delicated.
host   O — O
end system facility   O
                                    O   O

                                            topology.

            shared facility.

peer-to-peer   model
    SaaS , PaaS . IaaS , NOS