Networking Infrastructures

Internet is defined as an infrastructure which provides services to applications like

[X!- Web, Streaming Video, multimedia, Email

James, social media etc.

These applications (web, email, ") are developed
through programming . So, these applications
You only on end systems So, router retwork
Core (routers (or) packet switches) doesn't run
these applications.

These internet applications (Netflix) ove not

Confined to particular end systems.

Sext-watching Netflix on pc; pc doesn't have directly access to Netflix. It pc ask permission from Data center Network (Netflix). Then 'n't will give access to your pc

Subscribers at different parts of internet (Netflix has Valious Subscribers at different parts of internet (Netflix has Valious Subscribers at different) : It is known as Distributed application places

To Communitate Distributed applications with Internet it needs programming Interface(It is also known as socket Interface)

This programming Interface | Socket interface acts as "hook"
that allows Sending receiving apps to Connect to
use Interned transport service. What's a protocol+ Sent and received among retwork entities and actions taken on message transmission, kieipt It controls the sending and receiving of Information within the internet suppose if we transmit a packet and it is last in the internet; then also protocol takes some Metworking protocols! 1 4 used by Computers (devices). 4) all communication activity in internet are governed by protocols.

Computer Nebrook protocol Human protocol

| | A closer look at Intercet structure: |
|--|--|
| | Network edge: Ly 'Hosts 1- clients and servers |
| | Sovers are Data Center Nohman, webservors. |
| | Network Gres. |
| - | 11- Inter Connected Youters |
| e — See Disease Migrano | It Inter Connected vouters > network of networks. |
| | (90) |
| | 2 dgc vouter: |
| and the second s | The 1st vouter Connected to End |
| | The 1st vouter Connected to End system is called Edge vouter. |
| Ø) | How to connect Endsystems to Edge Vouter? 1: -> Residential access networks (Del, Cable, Sate (lite,) 2:-> Anotherional access networks (School, Company) 3:-> Mobile access networks (wifi, 49/59) 4> wide access networks (Access (39, LTE 61) 49, 54) |
| P | Residential Home access networks: |
| | (Ext-Digital subscriber line) |
| 1 | Telephone Based access Network (OSL) |
| 7 | 705L is a access network that is provided by |
| | telephone network. |
| | |
| | FOM -> Frequency division Multiplixing. |