



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A’ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING-IOT Including CS&BCT

COURSE NAME : 19SB402- NETWORKING AND CYBERSECURITY

II YEAR / III SEMESTER

Unit I- NETWORK AND OSI LAYER

Topic : Network Application



Network Application



Network Application



- A network application is any Application running on one host Providing Communication to another Application running on a different host.
- Network Operator to easily manage and monitor network traffic.
- And also to Analyze data.
- To improve the new systems.



Network Application Cont..

Network Application

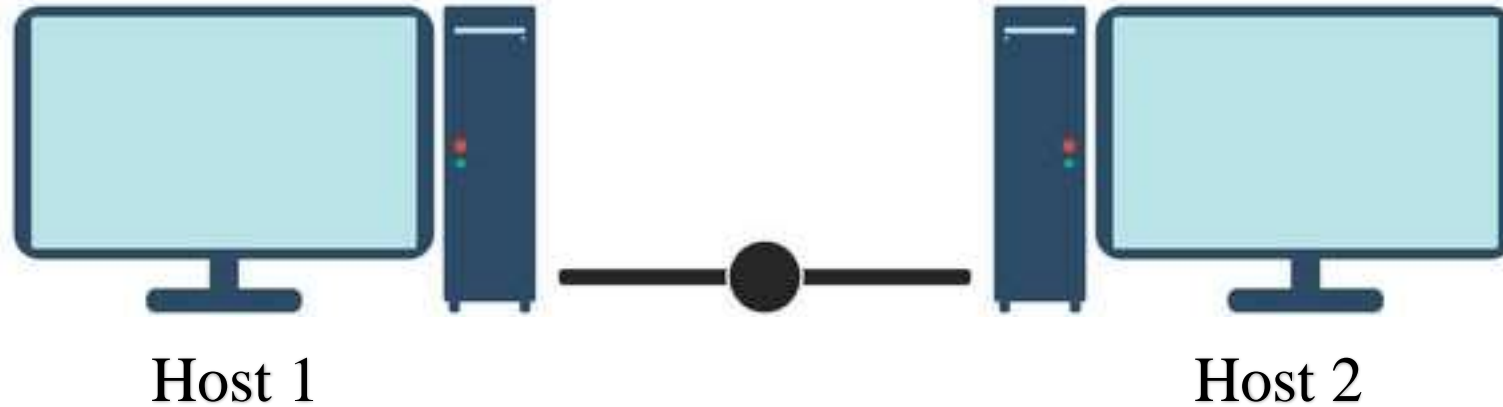
Solutions Area:

- 1) Network Automation.
- 2) Network Analytics.

Area of Advancement:

- 1) Cloud Infrastructure.
- 2) Stress Testing.

Network Application Cont..



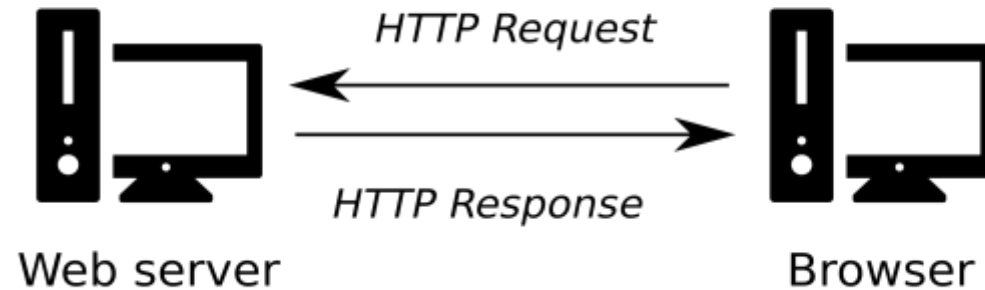
- A network application development is writing Programs that run on different ends Systems and Communicate with each other over the network.

E.g: In Web App there are two different Programs that communicate with each other.

- 1) Browser -> run in user host.
- 2) Web server -> run in the web server host.



Network Application Cont..



Example of Real Time Network Application(very Interesting)

- 1) Email -> gmail, Balook, etc.
- 2) Web -> www.snscourseware.org.
- 3) Remote Login -> Team viewer.
- 4) P2P tile Sharing -> Bittorrent -> Download Songs, movies, etc.



Network Application Cont..



- 5) Multi-user Network Games -> Counter Strike.
- 6) streaming stored video -> YouTube.
- 7) voice over IP (Skype).
- 8) Real time video conference.
- 9) Social Network -> YouTube, Instagram, WhatsApp.



Network Hardware Public

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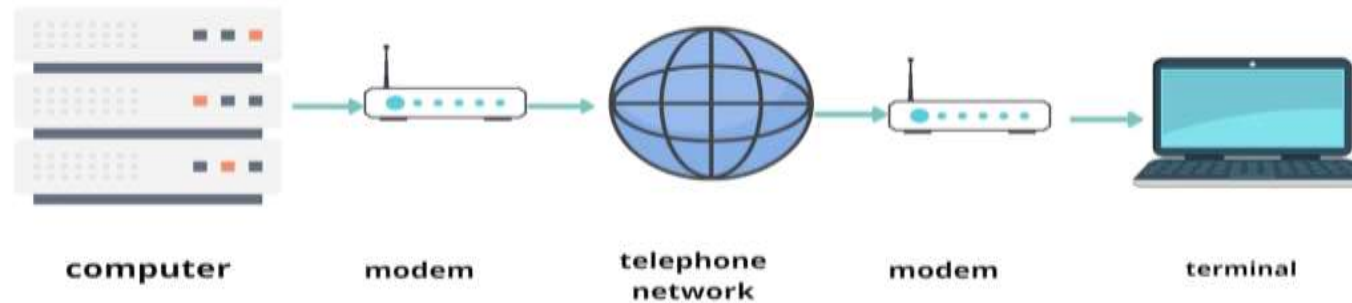


- 1) It is a set of Physical (OR) network devices.
- 2) It essential for Interconnection and Communication between units on Computer network.

Network Hardware Devices:

- 1) Modems
- 2) Routers
- 3) Hub, Bridges, Switches
- 4) NIC (Network Interface cards)
- 5) Nic cables
- 6) Firewall

Modems:



- One end: Convert Computer Digital Signals into Analog signal and send them through a telephone line.
- Other end: It converts the Analog signals to digital signals that are understandable for another computer.

Class: A-0-127 B-128-191 C-192-223 D-223-239
E-240-254. | Research Reserved Multitasking.



Network Hardware Public Cont..



Routers:

It Connect two (or) more network.

Hubs:

Broadcasts data to all devices on a network.

Bridges:

- It connect two Separate LAN network.
- It Avoids unnecessary data transter.

Switch:

- It similar to Hub & Bridges.
- It stores the MAC Addresses.



Network Hardware Public Cont..



NIC:

- It is a hardware unit installed on computer.
- It allows it to connect to a network.

Network cables:

It connect different devices on a network.

Firewall:

it is a between (or) Software device between computer



Any Queries



Thank You