



Chapter 2

Introduction to Web Technology



Introduction



Introduction



What is Web server

it is a powerful computer which is always switched on and connected to a high bandwidth Internet connection

It can have single or multiple processors, fast access RAM, high performance hard disks, Ethernet cards that supports fast communication

It is usually installed in a data center to ensure faster Internet connectivity and redundant power supply



Introduction



Data center

It is a dedicated physical location

It is used for storing, processing and serving large amounts of mission-critical data to their clients

It requires extensive backup power supply systems, cooling systems, high speed networking connections and security systems



Introduction



Web server software

The web server software is a program that uses the client-server model and the HTTP to ensure timely distribution of files stored in it to the users web server packages are

- Apache Server
- Microsoft Internet Information Server (IIS)
- Google Web Server (GWS)
- nginx (engine-x)



Introduction



Hardware Ports

- It is used to connect external devices to the computer
- These devices communicate with the computer using these ports

Software Ports

- It is used to connect a client computer to a server to access its services like HTTP, FTP, SMTP etc,
- To distinguish the ports, the software ports are given unique numbers
- The purpose of software ports is to identify different services like e-mail, file transfer etc, running on a single server computer



Introduction

Port number is a 16-bit number which when added to a computer's IP address / URL, can be used for communicating with a particular service available on that server

For example :

http://www.google.com:80

protocol

Domain name

Port number





Introduction



Some well-known ports and the associated services

Default Port Number	Service
20 & 21	FTP
22 SSH	SSH
25	SMTP
53	DNS
80	HTTP
110	POP3
443	HTTPS
8080	http



THANKS