3.0 Main Content

3.1 Client Server Computing

In client-server computing, the clients requests a resource and the server provides that resource. A server may serve multiple clients at the same time while a client is in contact with only one server. Both the client and server usually communicate via a computer network but sometimes they may reside in the same system.

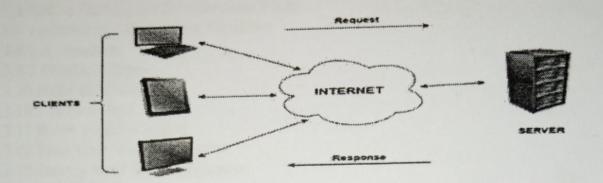


Figure 8: Client-Server Computing

3.2 Characteristics of Client Server Computing

The salient points for client server computing are as follows:

- ☐ The client server computing works with a system of request and response. The client sends a request to the server and the server responds with the desired information.
- The client and server should follow a common communication protocol so they can easily interact with each other. All the communication protocols are available at the application layer.

	M-	A server can only accommodate a limited number of client requests at a time. So it uses a system based to priority to respond to the requests.
	4	Denial of Service (DoS) attacks hinder a servers' ability to respond to authentic client requests by inundating it with false requests.
4	W	□An example of a client server computing system is a web server. It returns the web pages to the clients that requested them.
	*	3.3 Difference between Client Server and Peer to Peer Computing Management of the major differences between client server computing and peer to peer computing are as
	45	follows: In client server computing, a server is a central node that services many client nodes. On the other hand, in a peer to peer system, the nodes collectively use their resources and communicate
***	4	with each other. □ In client server computing the server is the one that communicates with the other nodes. In peer to peer to computing, all the nodes are equal and share data witheach other directly. □ Client Server computing is believed to be a subcategory of the peer to peer computing.
	此	Client Server computing is believed to be a subcategory of the post of
	46	3.4 Advantages of Client Server Computing The different advantages of client server computing are— All the required data is concentrated in a single place i.e. the server. So it is easy to protect the
,	JA.	data and provide authorisation and authentication.
	4	☐ The server need not be located physically close to the clients. Yet the data can be accessed efficiently.
	90	☐ It is easy to replace, upgrade or relocate the nodes in the client server model because all the nodes are independent and request data only from the server.
	K	☐ All the nodes i.e clients and server may not be build on similar platforms yet they can easily facilitate the transfer of data.
		3.5 Disadvantages of Client Server Computing are
1	京京	The different disadvantages of client server computing are The different disadvantages of client server computing are If all the clients simultaneously request data from the server, it may get overloaded. This may lead to congestion in the network.
	200	☐ If the server fails for any reason, then none of the requests of the clients can be fulfilled. This
	#	leads of failure of the client server network.
	好	☐ The cost of setting and maintaining a client server model are quite high.
Nonemanning.	-	4.0 ASSIGNMENT What makes the Client Server configuration peculiar from the Peer-to-peer? Discuss 1. Discuss the advantages of client Server computing 2. Identify the characteristics of client server computing?
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