



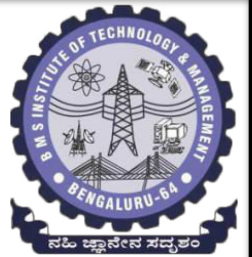
# BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

## Department of CSE

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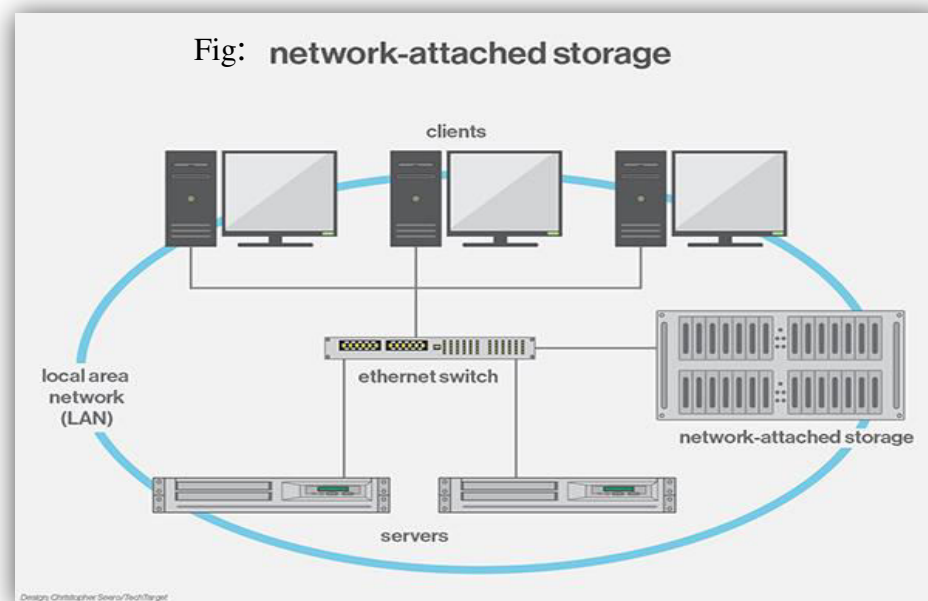
## FILE TRANSFER IN LINUX

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### Introduction:-

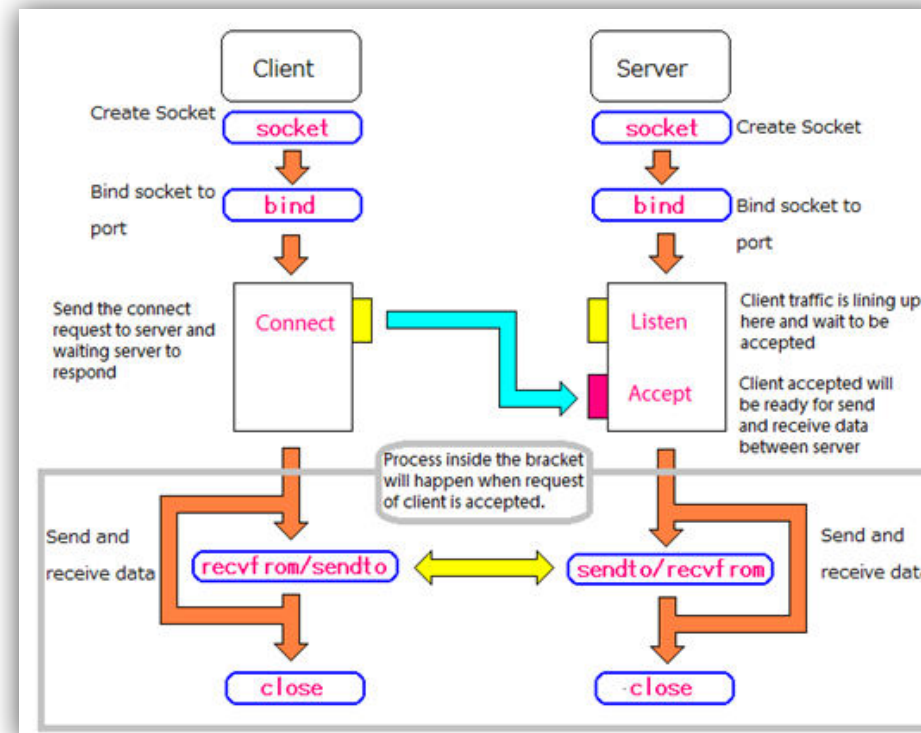
File sharing is the public or private sharing of computer data or space in a network with various levels of access privilege. While files can easily be shared outside a network (for example, simply by handing or mailing someone your file on a diskette), the term *file sharing* almost always means sharing files in a network, even if in a small local area network.



### Objectives:-

- ✓ To use 2 computer systems having Linux environment as an Operating Systems and having LAN connection.
- ✓ Always the system in which the client program runs is the sender of the file.
- ✓ Always server is the recipient of the file sent by the client.
- ✓ Here we assume that, only one client is transferring the file at a time.
- ✓ Here we are transferring only text files.
- ✓ There is no limit for the size of the file to be transferred from Client to Server.

### System Architecture:-



### Snapshots:-

```
guest-BSRwfg@dl04:~$ gcc receiver.c -o server
guest-BSRwfg@dl04:~$ ./server rec.txt 8888
listening on port 8888
waiting for client
guest-BSRwfg@dl04:~$ ls
client Documents meandtanujaserver.c Public server Templates
client.c Downloads meandtanujaserver.c~ receiver.c server.c
client.c\ examples.desktop Music receiver.c~ tcpclient.c
combing meandtanujaserver~ output.tmp receive.txt tcpserver.c
Desktop meandtanujaserver~ Pictures rec.txt tcpserver.c~
guest-BSRwfg@dl04:~$ cat rec.txt
Hi!!!!!!
Welcome to our PBL project..
Our topic is about file transfer.....!!!!!!
guest-BSRwfg@dl04:~$
```

Fig: Displaying contents of transferred file in server terminal.

```
guest-cMW2Ac@dl05:~$ gcc sender.c -o client
guest-cMW2Ac@dl05:~$ ./client send.txt 100.127.5.225 8888
guest-cMW2Ac@dl05:~$ cat send.txt
Hi!!!!!!
Welcome to our PBL project..
Our topic is about file transfer.....!!!!!!
guest-cMW2Ac@dl05:~$
```

Fig: Displaying contents of transferred file in client terminal.

```
guest-BSRwfg@dl04:~$ ip route get 8.8.8.8 | awk '{print $NF; exit }'
100.127.5.225
guest-BSRwfg@dl04:~$
```

Fig: To get the IP address of server

### Conclusion And Future Enhancements:-

- ✓ Timeout functions can be added for the receiver part such that how long it can wait to receive the message from the client.
- ✓ Here we are using one client and one server. Future scope can be implemented with more number of clients , transferring files to the server or among the clients itself.
- ✓ Group chat can also be implemented.
- ✓ Further, transferring of audio and video files can be done using 2 way communication.
- ✓ Here we are implementing sharing files in same platform .For future scope we can implement for cross environment.