Computer Networks Assignment -5

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SCENARIO: A company uploads nightly updates to its
Server via FTP over a 100 Mbps link.

PARAMETER: Upload Size = 250 MB, Bardwidth = 100 Mbps.

Questions:

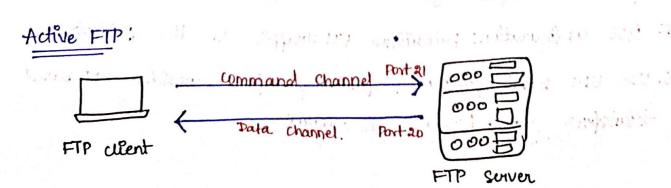
1. Differentiate active and passive FTP.

Answer

- 1 Active FTP:
- The client initiates a control connections from a random part do the surver's part 21.
- > The surver then initiates a data connection from port 20 back to the client's specified port.
- -> Issues may avrive if the client is behind a firewall.
- Parsive FTP:-
- The client initiates both control and data connections to

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- → The survey Opens a random high numbered port of for clata dransfer and informs the client.
- → Works botten with finewalls since the client manages all connections.



- 4) Suggest a secure alternative for FTP.
 - Ans o SETP (SSH file transfer puotocol): encuypts both data and commands over ssh (pot 22).
 - · FTPS (FITP OVER SSL /TLS): Adds TLS encryption to FTP.
 - « SCP (Seuve copy puotocal): uses SSH for enugetion
 - · HTTPS / WebDAY: Secure web-based file transfers.