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Topic: Remote login & FTP

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.SSH , FTP ,SCP TELNET ,SMTP ,TCP/IP.

Remote Login is a process in which user can login into remote site i.e. computer and use services that are available on the remote computer. With the help of remote login a user is able to understand result of transferring result of processing from the remote computer to the local computer.

Procedure of Remote Login :

1. When the user types something on local computer, then local operating system accepts character.
2. Local computer does not interpret the characters, it will send them to TELNET client.
3. TELNET client transforms these characters to a universal character set called Network Virtual Terminal (NVT) characters and it will pass them to the local TCP/IP protocol Stack.
4. Commands or text which is in the form of NVT, travel through Internet and it will arrive at the TCP/IP stack at remote computer.
5. Characters are then delivered to operating system and which later on passed to TELNET server.
6. Then TELNET server changes that characters to characters which can be understandable by remote computer.
7. Remote operating system receives character from a pseudo-terminal driver, which is a piece of software that pretends that characters are coming from a terminal.
8. Operating system then passes character to the appropriate application program.

The **Secure Shell Protocol (SSH)** is a **cryptographic network protocol** for operating network services securely over an unsecured network. Typical applications include remote command-line, login, and remote command execution, but any network service can be secured with SSH.

FTP

FTP stands for 'File Transfer Protocol'. It is a set of rules for transferring files between two computers on internet. It is a commonly used protocol for exchanging files over any TCP/IP based network . The central computer i.e FTP server helps the user to upload and download files.

There are two kinds of FTP connections “Anonymous “ and “Non-Anonymous”.

SFTP (SSH file Transfer Protocol) is secure file transfer protocol . It runs over the SSH protocol. It inherits complete security and authentication functionality of SSH.

SCP

Secure Copy (SCP) is a file transfer protocol , which helps in transferring computer files securely from a local host to a remote host. It works on the secure shell(SSH) protocol technique.

TELNET

Telnet stands for Teletype Network . It is a networking protocol which provides a command line interface for communication with a remote device or server, sometimes employed for remote management.

SMTP

SMTP stands for simple mail transfer Protocol. It is a TCP/IP protocol which is used in sending and receiving e-mail.

Simple Mail Transfer Protocol is also known as RFC 821 and RFC 2821.

It is a standard protocol used for sending the e-,

TCP/IP

TCP/IP stands for transmission control protocol /Internet Protocol. It is standard Internet communication protocol which allow computers to communicate over long distances. It consists of two protocols i.e TCP and IP , used to interconnect network devices on the Internet.