SFTP (Secure File Transfer Protocol)

1. Introduction to SFTP

- SFTP stands for Secure File Transfer Protocol.
- It is a secure way of transferring files between local and remote systems.
- Works over SSH (port 22), unlike FTP which is insecure.
- Ensures encryption of login credentials and data.

2. How SFTP Works

- Uses SSH to establish a secure channel.
- Requires authentication (username/password or SSH keys).
- Once connected, user can navigate remote directories and transfer files.

3. Common SFTP Commands

- Is List files on remote server
- pwd Show remote directory
- Ipwd Show local directory
- cd Change remote directory
- lcd Change local directory
- get file.txt Download file
- put file.txt Upload file
- mget *.txt Download multiple files
- mput *.txt Upload multiple files
- bye Exit SFTP session

4. Practice with Public Demo Server

You can practice SFTP using Rebex test server:

- Hostname: test.rebex.net
- Port: 22
- Username: demo
- Password: password
- Upload allowed only in /pub/ folder
- Files reset every 24 hours

5. Example Workflow

• 1. Connect: sftp demo@test.rebex.net

• 2. Enter password: password

• 3. Navigate: Is, cd pub, Ils, Icd

• 4. Upload: put myfile.txt

• 5. Download: get readme.txt

• 6. Exit: bye

6. Automation with Batch Mode

- Create a text file with commands (e.g., sftp_batch.txt).
- Run: sftp -b sftp_batch.txt demo@test.rebex.net
- Useful for scripts and scheduled backups.