

**U04: FILE TRANSFER PROTOCOL****Laboratory 1: FTP Client. FTP Protocolo**

1. FileZilla is a piece of open source software distributed free of charge. Both a client and a server FTP are available. In this lab we are going to try the FTP client: if you have not installed it yet, you can download and install from <https://filezilla-project.org/> (for Windows SO) or in Ubuntu by running the “*sudo apt install filezilla*” command. We will use it to learn about how the control and data connections work.
2. If you have never worked with the Filezilla client I suggest reading the following guide [https://wiki.filezilla-project.org/FileZilla\\_Client\\_Tutorial\\_\(en\)](https://wiki.filezilla-project.org/FileZilla_Client_Tutorial_(en))
3. Now, connect to a FTP server, whichever one you know, such as ftp.rediris.es. If you choose ftp.rediris.es, use the “anonymous” user name.
4. Select the *Edición → Opciones → Depuración → Información de depuración en log de mensajes → 2 . Información* option. Pay attention to the message log box that displays transfer and connection related messages and try to find out the following questions:
  1. Apart from the anonymous user, are there any other users allowed?
  2. What is the ftp server's ip address? Which port is FTP server listening on?
5. Try to download the “welcome.msg” file. Have you succeeded? Are the Data Connections Passive or Active?(check it in the message log window)
6. Try to change the current directory in the FTP server. Have you managed?
7. Try to copy a file from your local drive to the FTP server. Have you been able to?
8. Change several times from one to another directory in the FTP server
9. Look at the message log box. Notice the messages similar to “227 Entering Passive Mode (130,206,1,5,190,120)”. Find out the meaning of the numbers inside the round brackets
10. Find out the meaning of the number at the beginning of this type of message, in this case 227.