UNIVERSITY OF GLOUCESTERSHIRE

PRACTICAL LAB: FTP SERVER CONFIGURATION

JORDAN ALLISON
jallison1@glos.ac.uk

Practical Lab: FTP Server Configuration - JA

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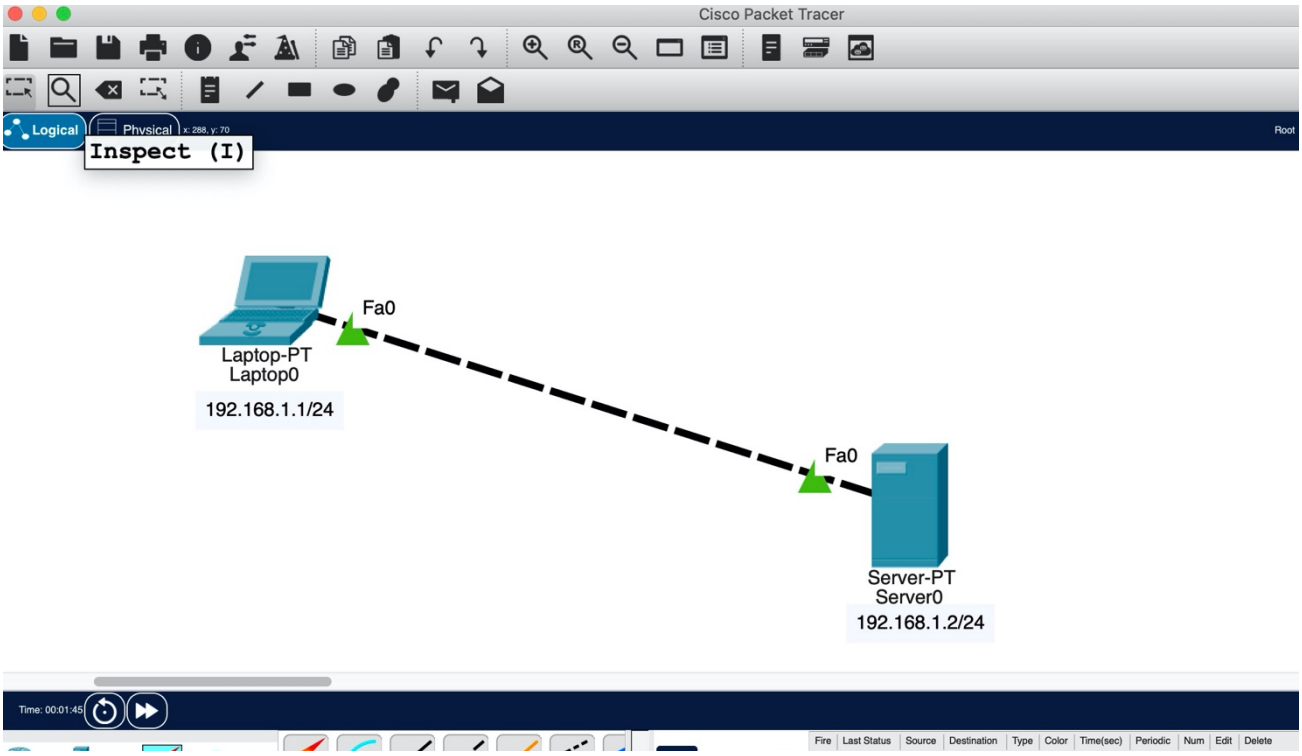
1 Introduction

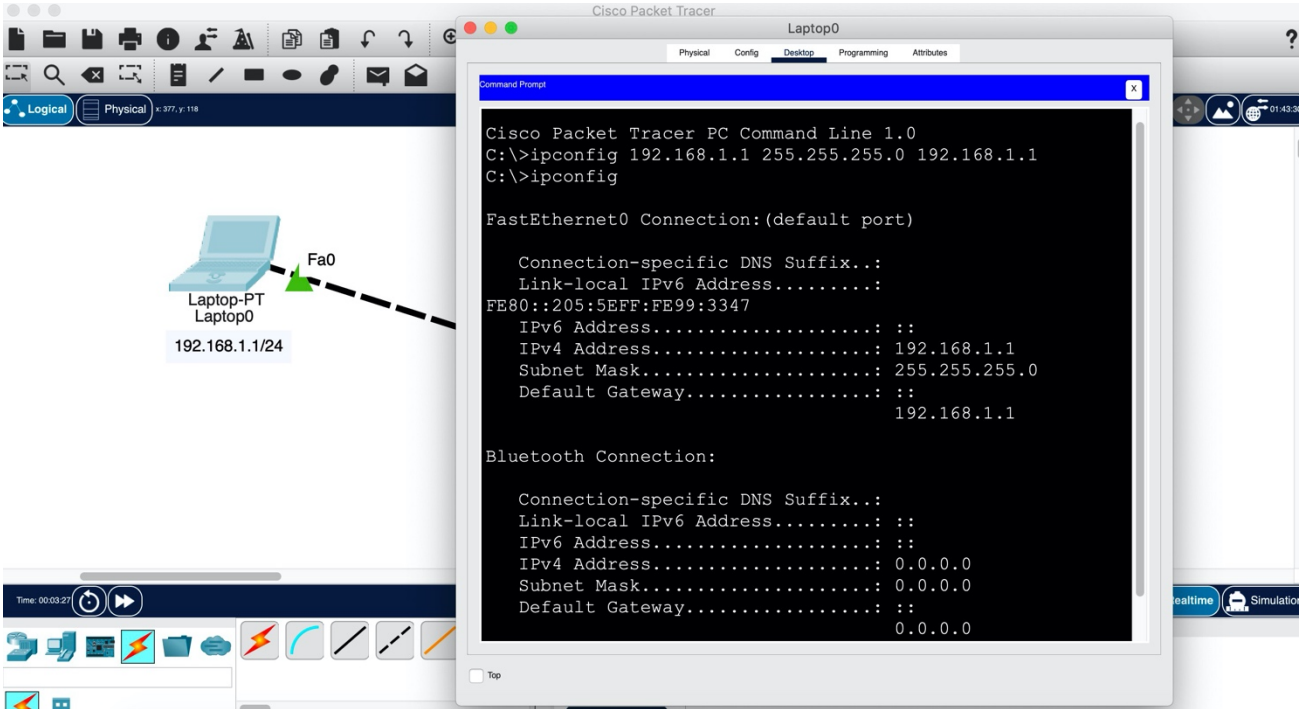
For this practical we will be using *Cisco Packet Tracer,* a tool provided by Cisco to build and test Cisco networks. In this lab we are going to configure an FTP Server.

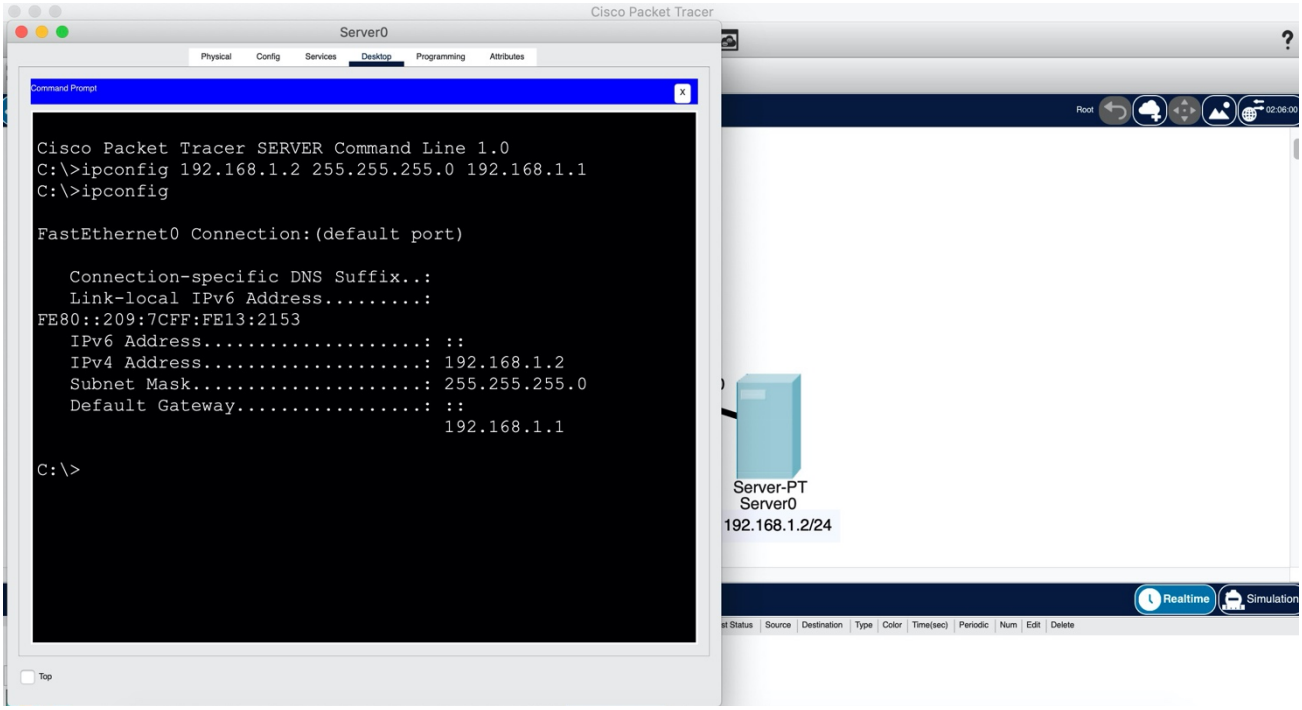
File Transfer Protocol is a standard network protocol used for the transfer of computer files between a client and server on a computer network. FTP employs a client-server architecture where the client machine has an FTP client installed and establishes a connection to an FTP server running on a remote machine. Once a connection has been established and the user is successfully authenticated, data transfer begins.

2 Setting up Devices

Configure the following devices:





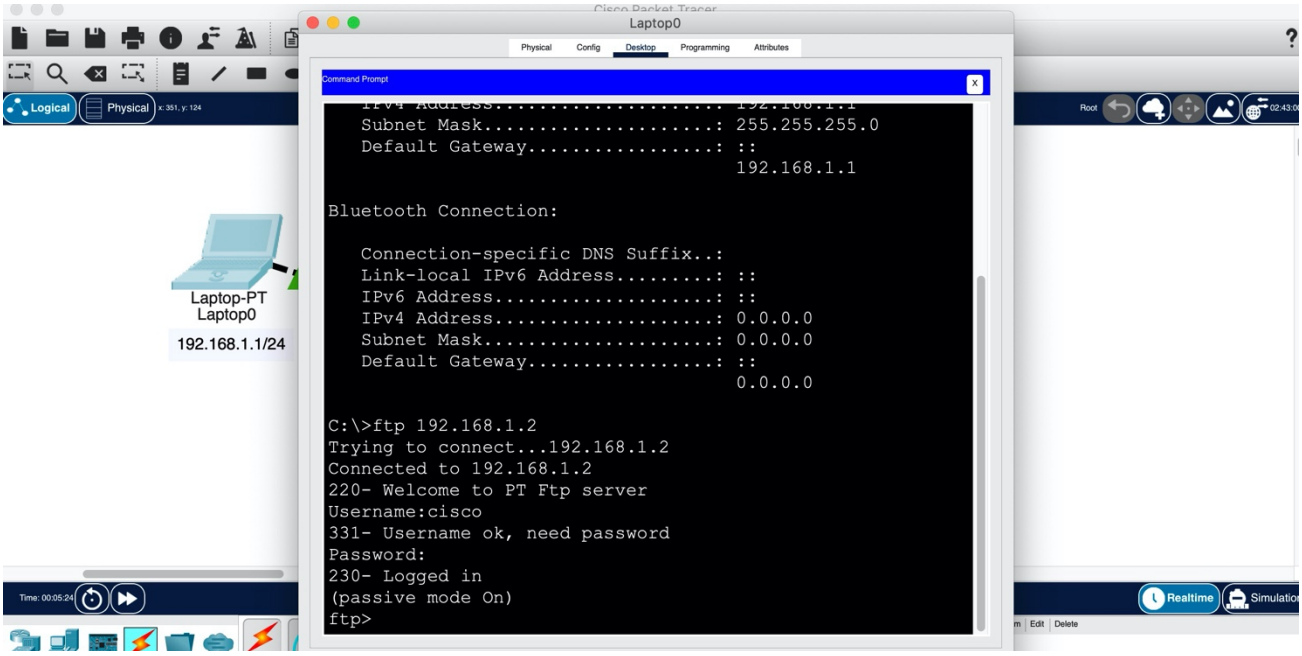


3 Using the FTP client

Now try using an FTP client built in the laptop to send files to an FTP server configured in the Server. From the Laptops command prompt, FTP the server using the server IP address by typing:

ftp 192.168.1.2

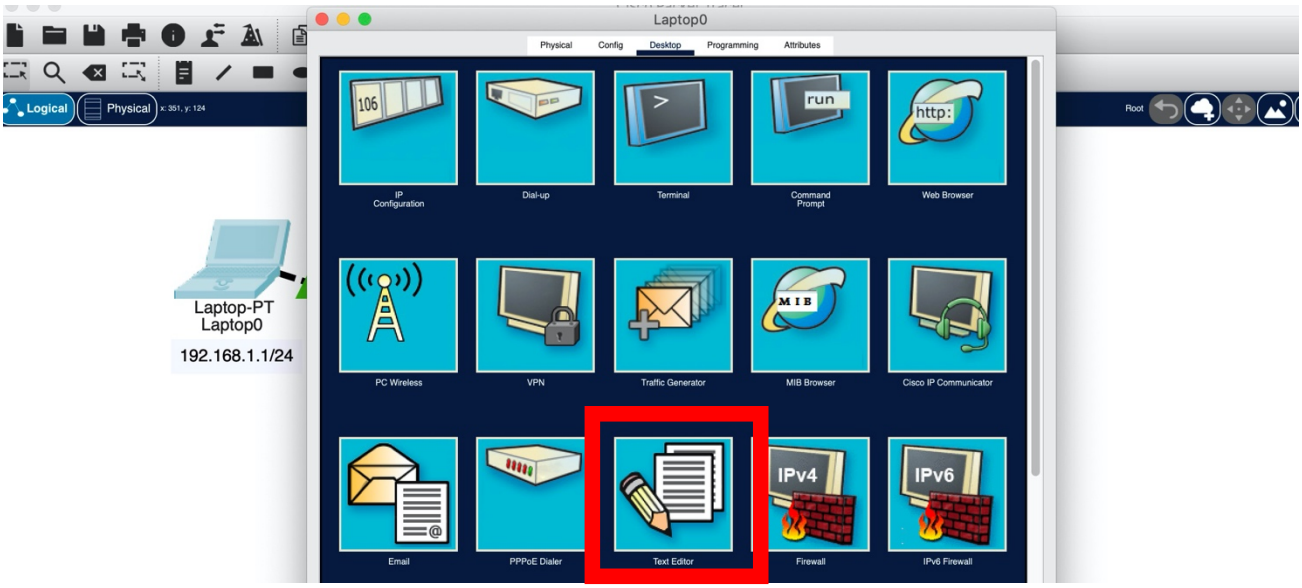
Provide the username (cisco) and password (cisco). These are the defaults for ftp login.

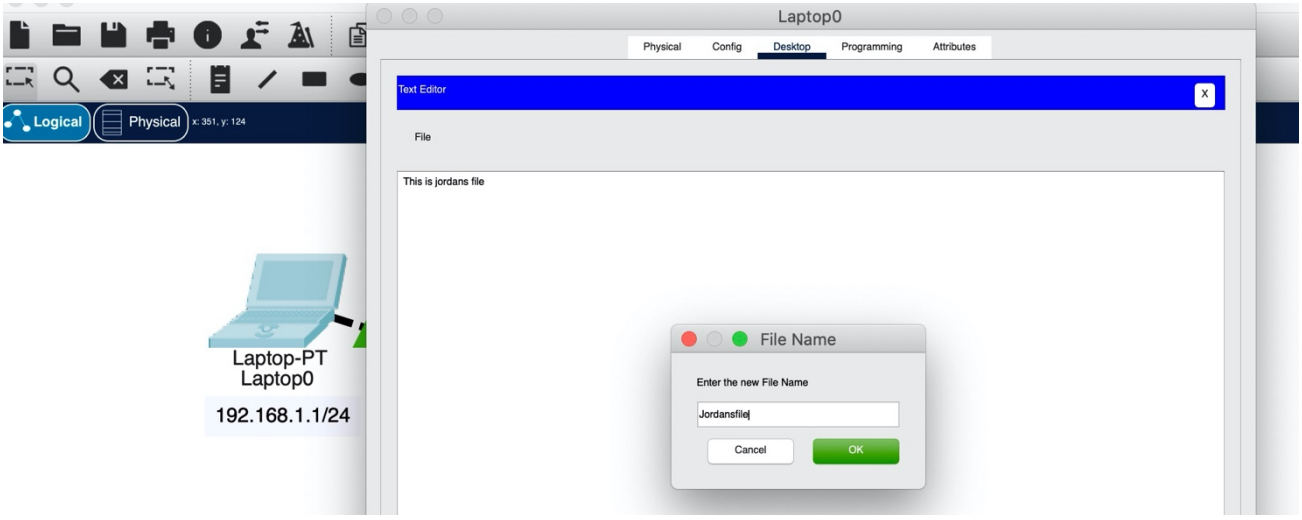


You are now in the FTP prompt. The laptop has an FTP client which can be used to read, write, delete and rename files present in the FTP server. Meanwhile the FTP server can be used to read and write configuration files as well as IOS images. Furthermore, the FTP server also supports file operations such rename, delete and listing directory.

4 Create a file in the laptop and then upload it to the server using FTP.

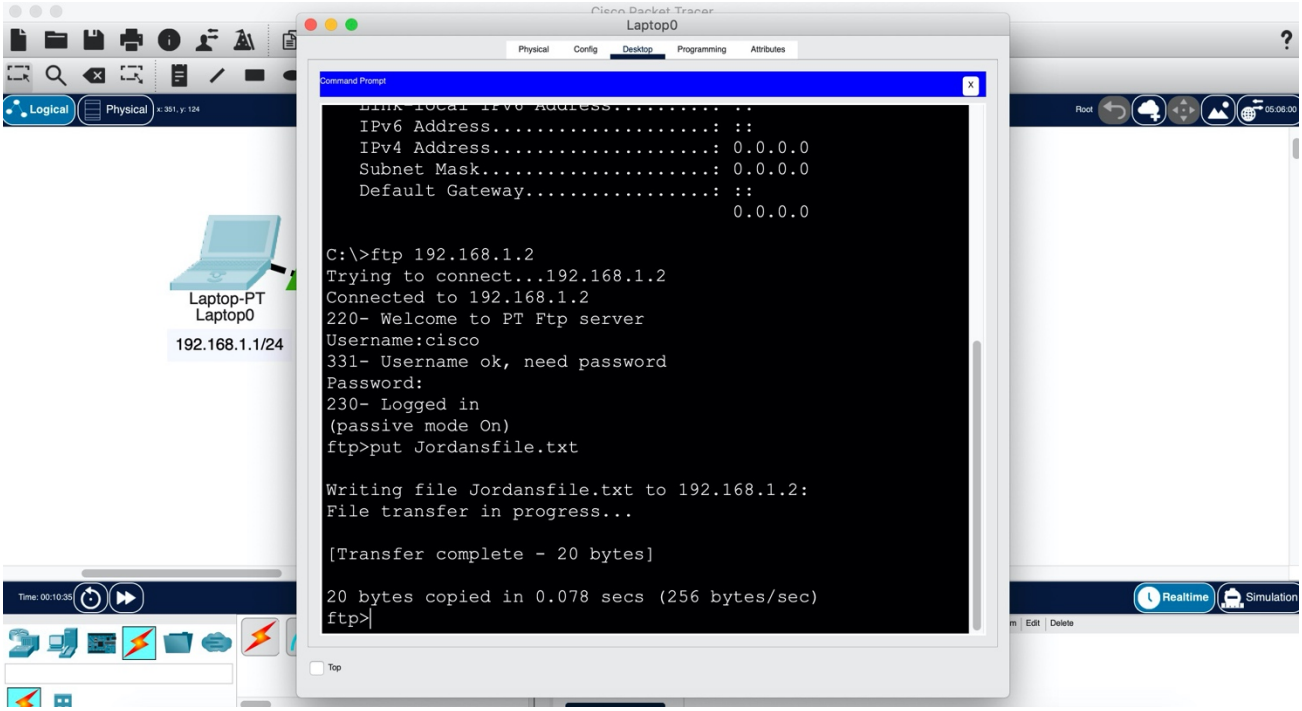
First, open the text editor in the laptop, create a file and give it a name.



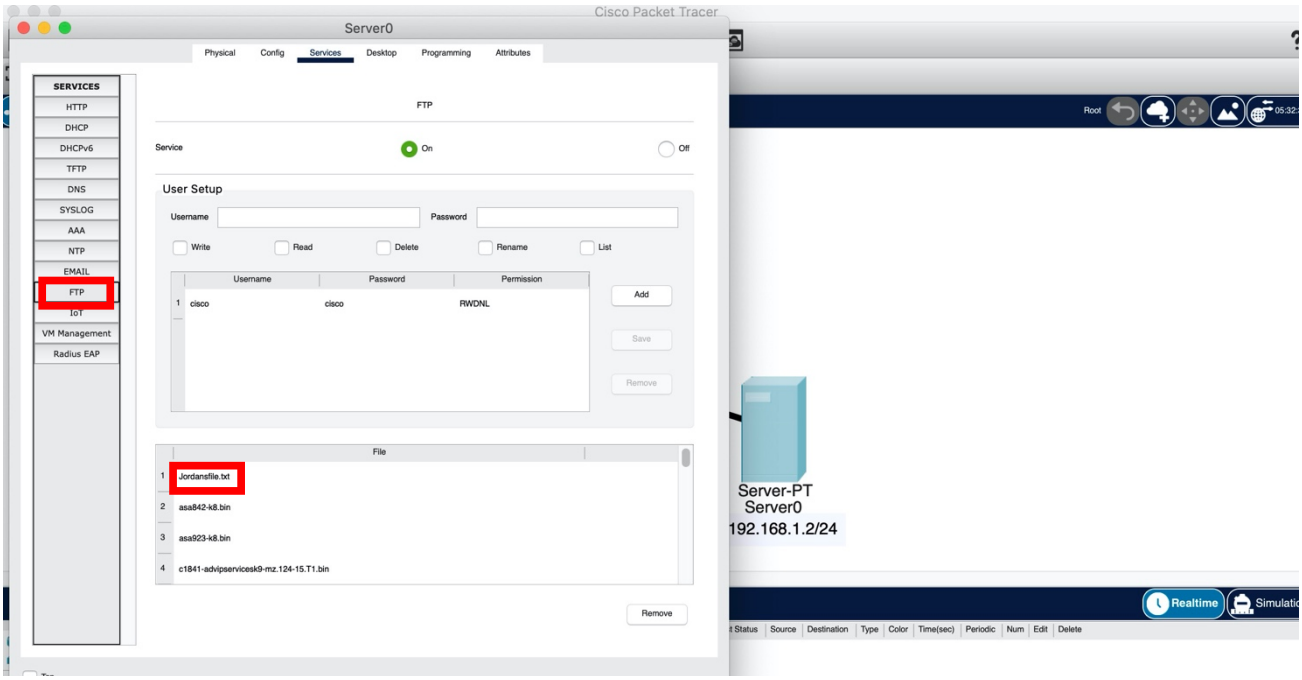


To do an FTP upload, we will type:

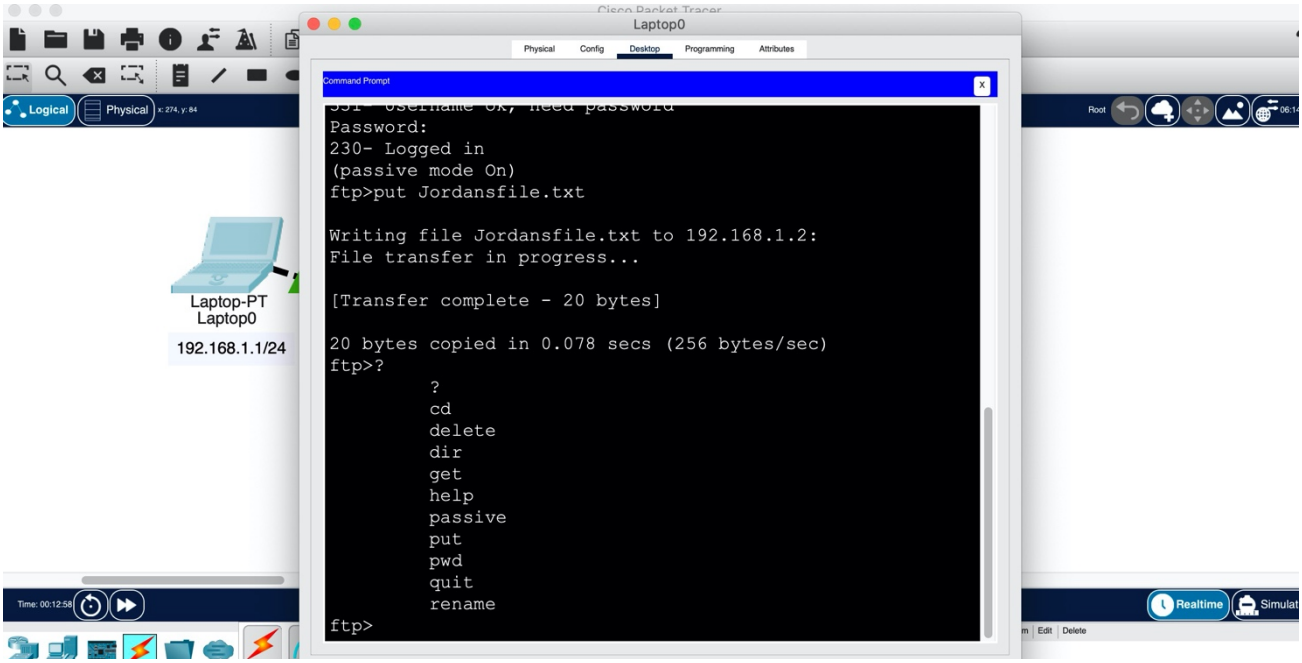
put Jordansfile.txt



Once the file upload is successful, go to the Server FTP directory to check if the file has been received. To do this, go to Server -> Services -> FTP. Here look for *Jordansfile.txt* sent from the laptop.



Other commands can be seen by typing in a ? on the laptops command prompt when in FTP.

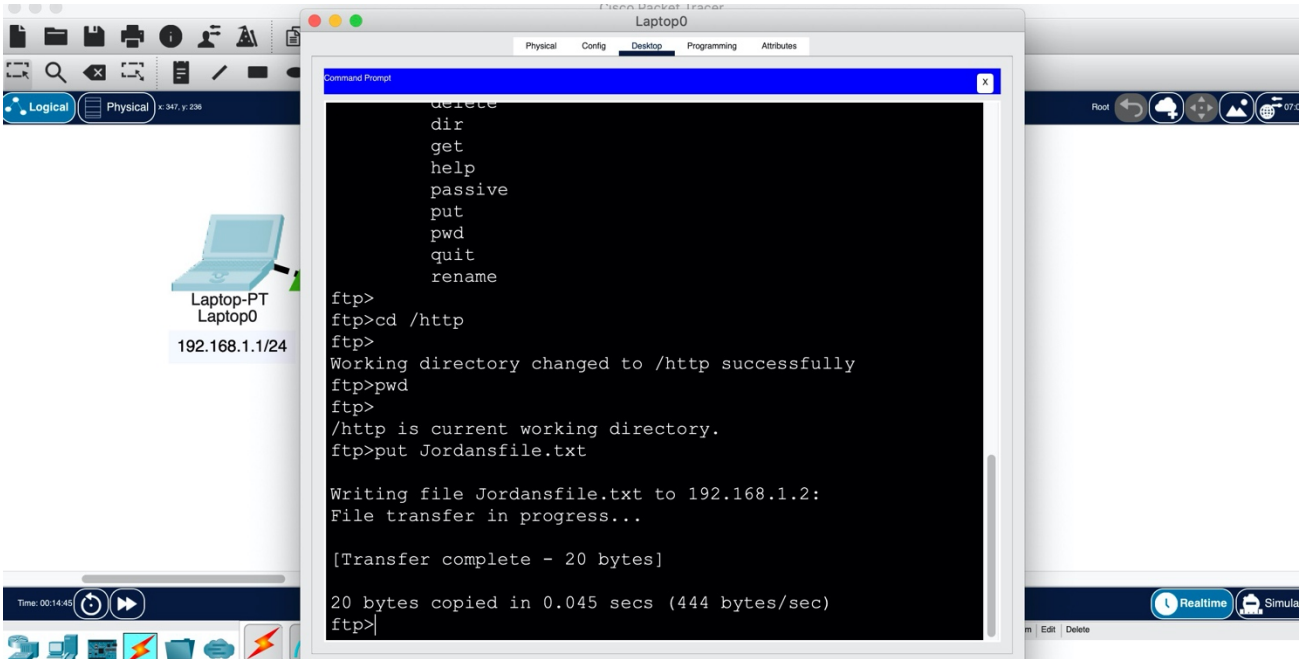


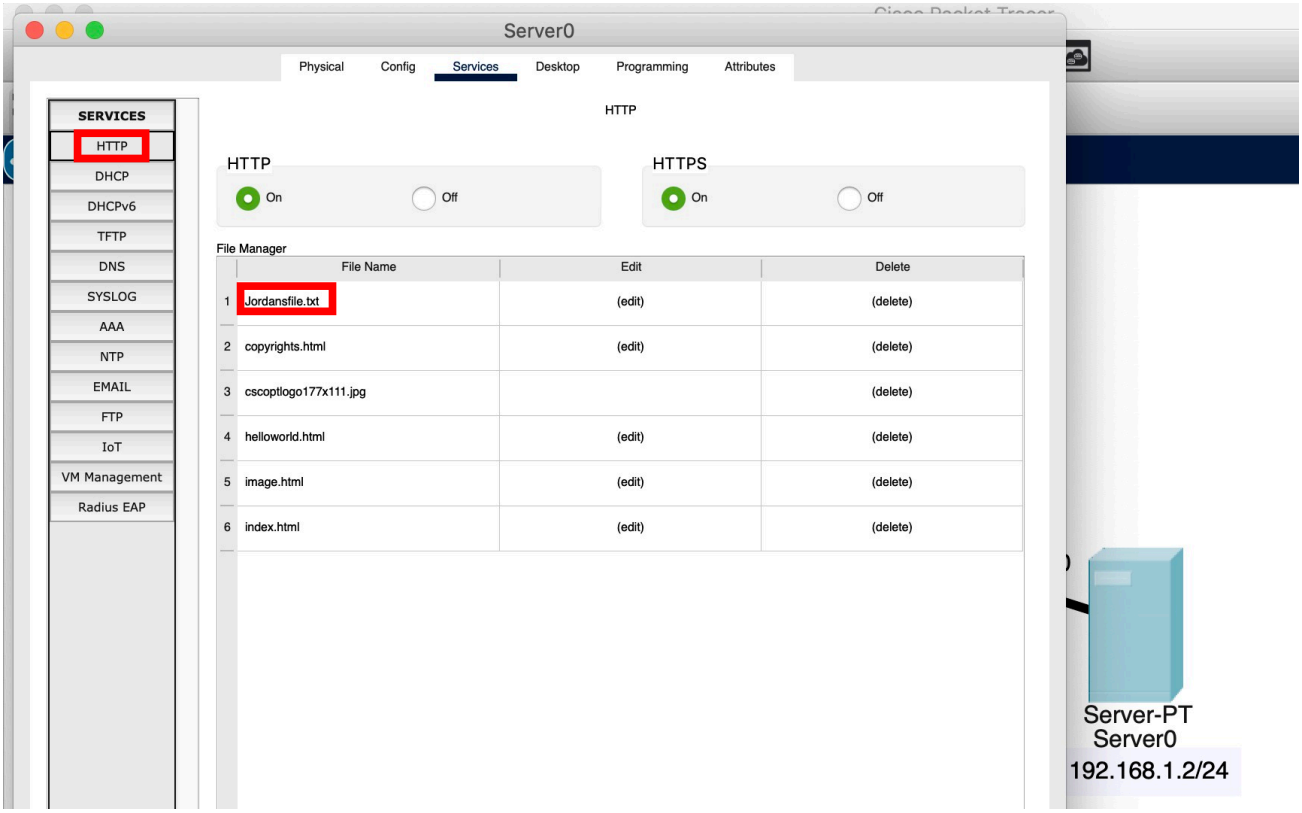
- get - used to get (download) a file from the server.
- delete - to delete a file in the FTP directory with the server
- rename - used to rename a file
- cd - used to change directory
- pwd - print working directory

5 Viewing other server directories

We can open an HTTP directory in the server by typing cd /http. This will change the current directory from the FTP directory to HTTP directory. Once this is open, you can upload a file to the HTTP server using FTP. For example, let's try this by typing:

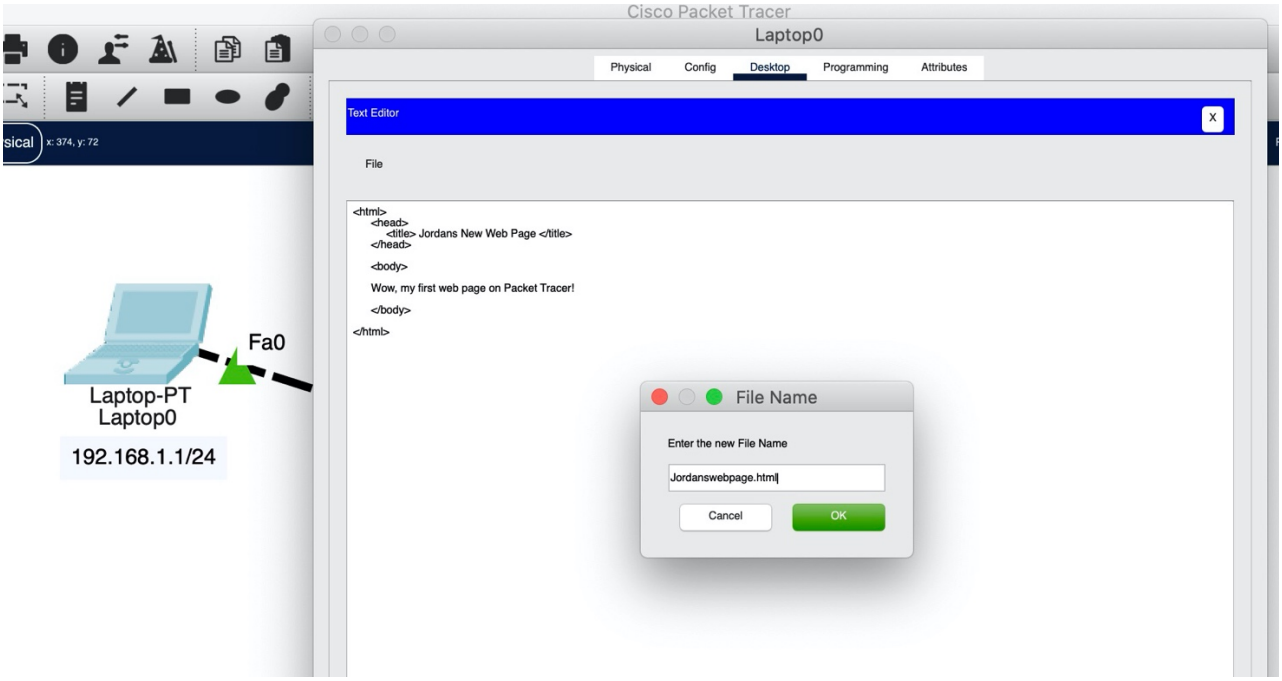
put Jordansfile.txt



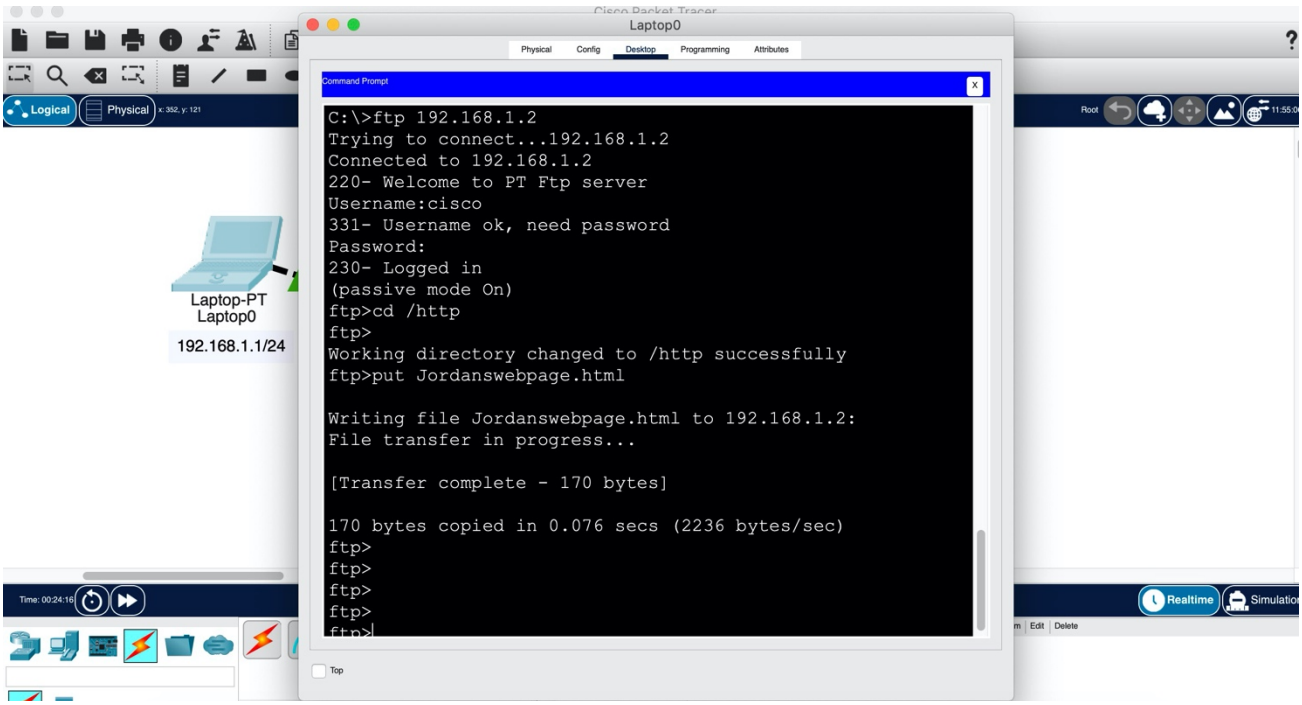


6 Create a webpage on the server from the laptop

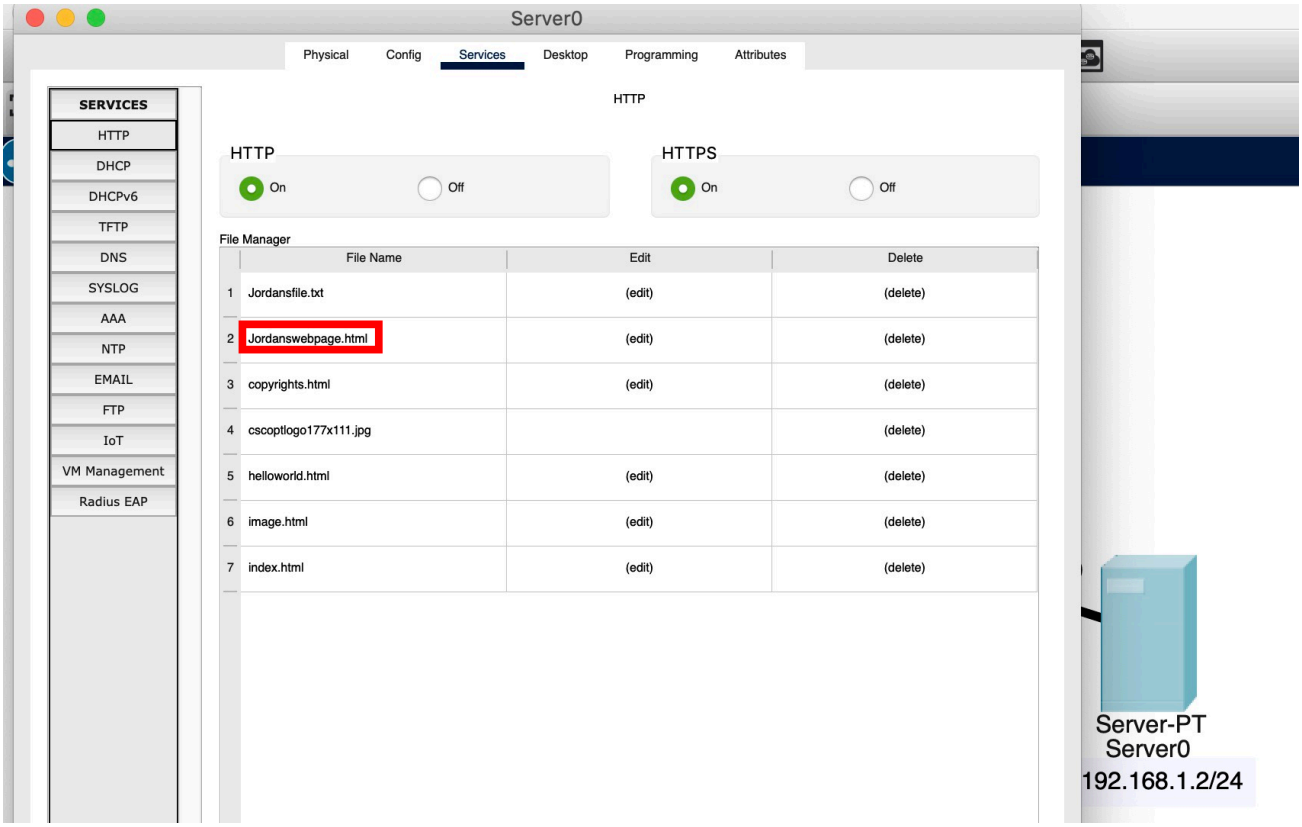
Now, we'll create a html file in our laptop, upload it to the HTTP server directory using FTP, then try to access the file from the laptop's browser. First, on the laptop, open the text editor, and type some html and save the file with the extension .html.



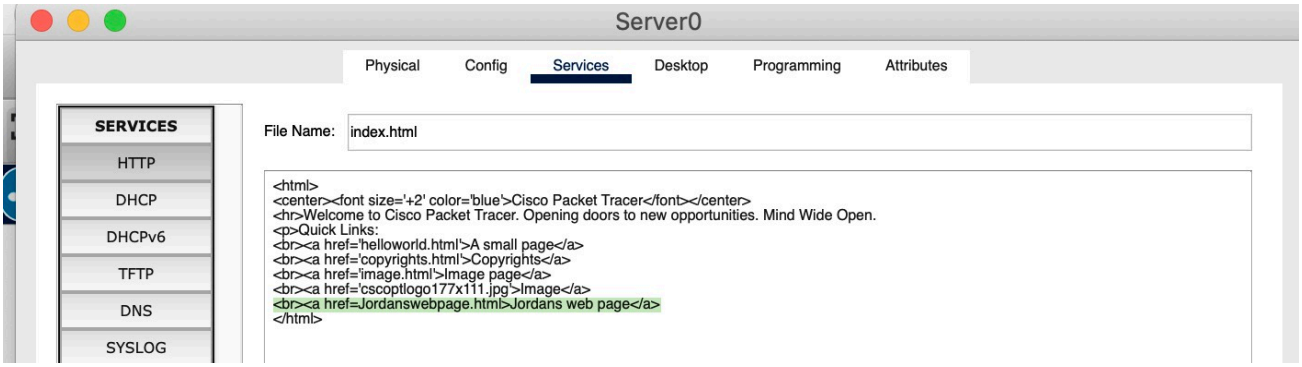
Now upload the file (Jordanswebpage.html) to the HTTP server using FTP. The below screenshot shows the process of starting from initially logging in to ftp.

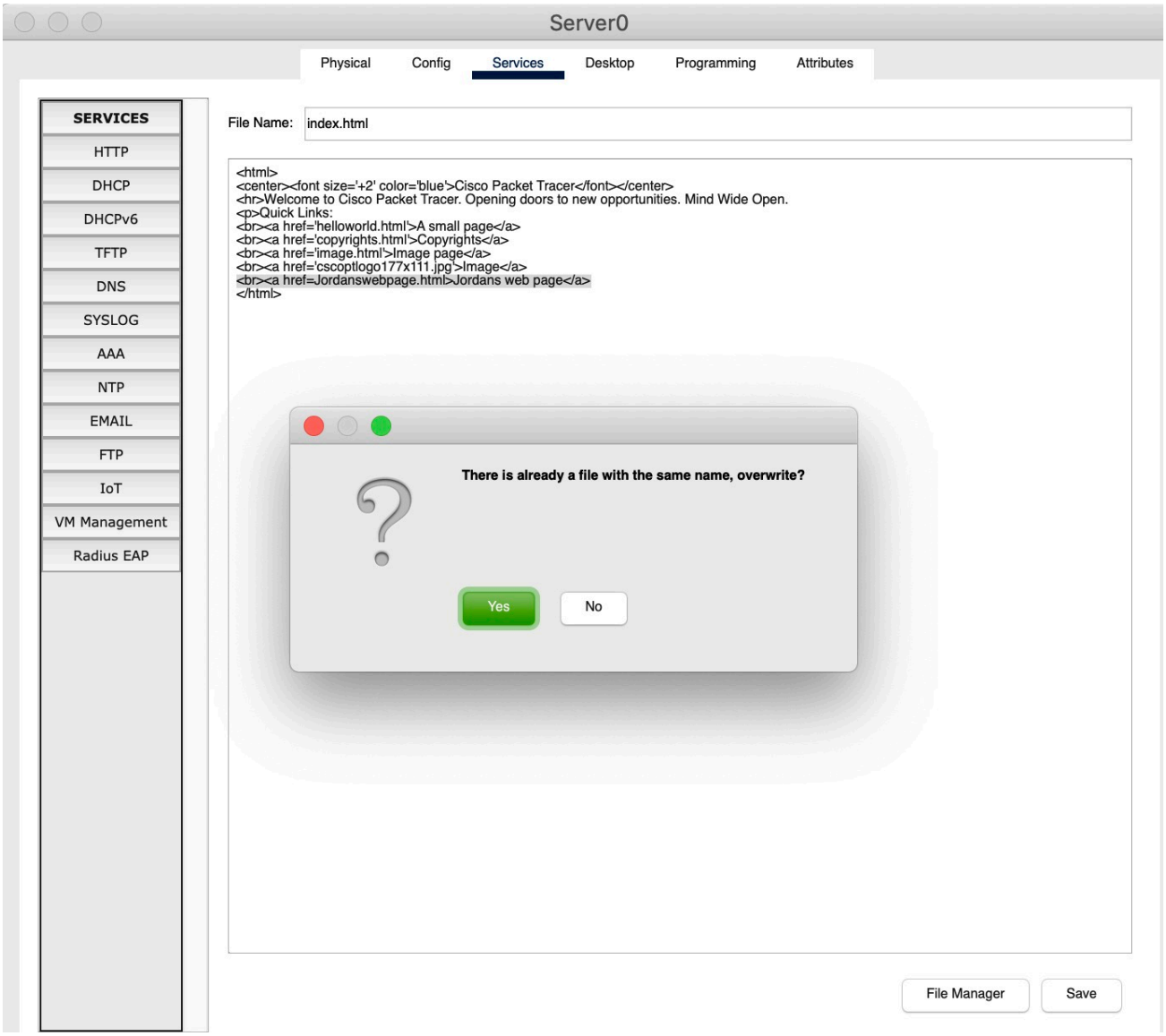


Check whether the html file has been received in the HTTP directory:

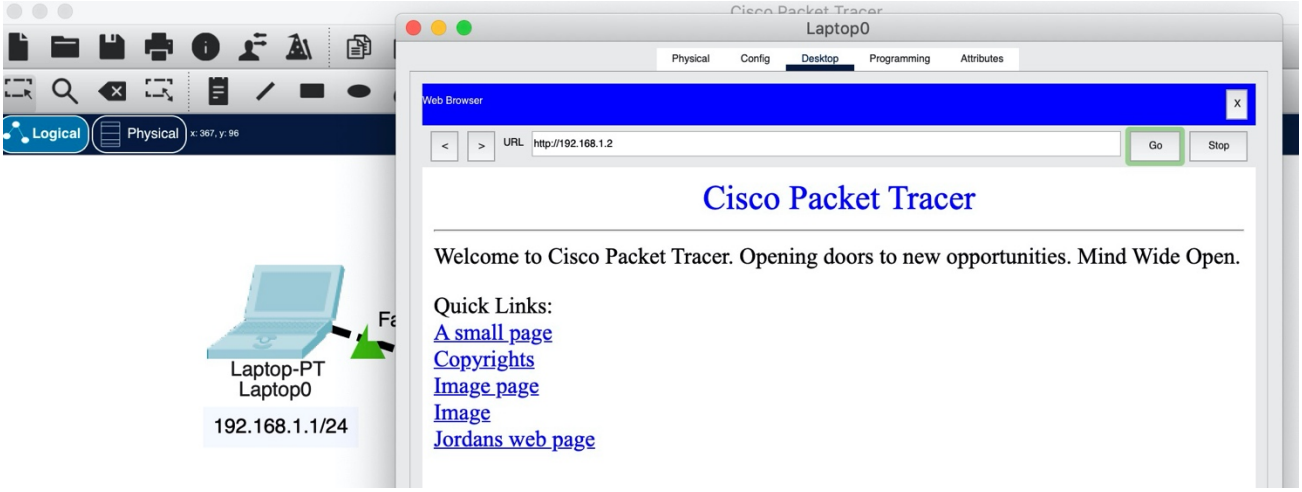


We now need to edit index.html file in the HTTP directory to include a link to Jordanswebpage that was uploaded. This will make Jordanswebpage accessible from the laptop's browser. To do this, locate index.html and then click edit. Edit it as shown below, then save and accept overwrite.





Finally, access the uploaded file from the laptop's browser. Go to the Laptops browser and access the server using the servers IP address. Here, the browser is making a http request to the server. The server will respond to the laptop with the index.html file containing a link to Jordanswebpage.



Click on the link and you will see the contents of the page.