

Lab 2

- **Domain name System:**

Translating human-friendly computer hostnames (URL) into IP addresses.

For example, the domain name

www.example.com

translates to the addresses: 93.184.216.34 (IPv4) and

: 2606:2800:220:1:248:1893:25c8:1946 (IPv6).

LOCAL DNS ON PC

1) Hosts file C:\Windows\System32\drivers\etc\hosts

2) Hosts file in Linux /etc/hosts

-To know which IP address related to a certain domain name, type the following command;

```
C:\>nslookup Domain_Name
```

```
C:\>nslookup Yahoo.com
```

-To know which domain name mapped to a certain IP address, type the following command; C:\>nslookup IP_address C:\>nslookup 87.248.113.14

- **Dealing with FTP protocol:**

We need to have: * ftp server *

- user account (Authentication)

- home directory

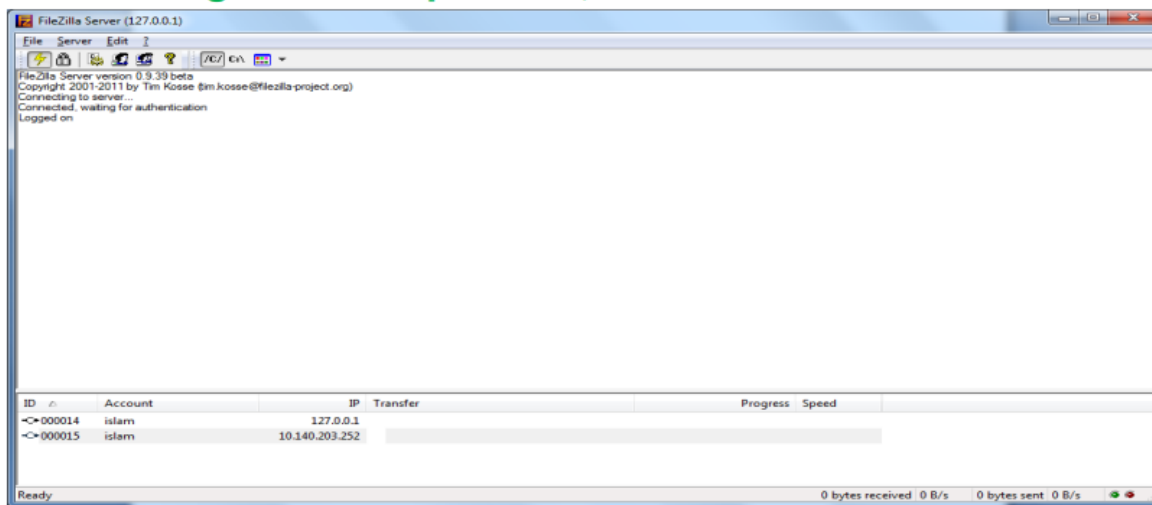
- permission (Authorization)

Steps:

Step 1 : Configure FTP server

1. Install FileZilla ftp server on one machine.

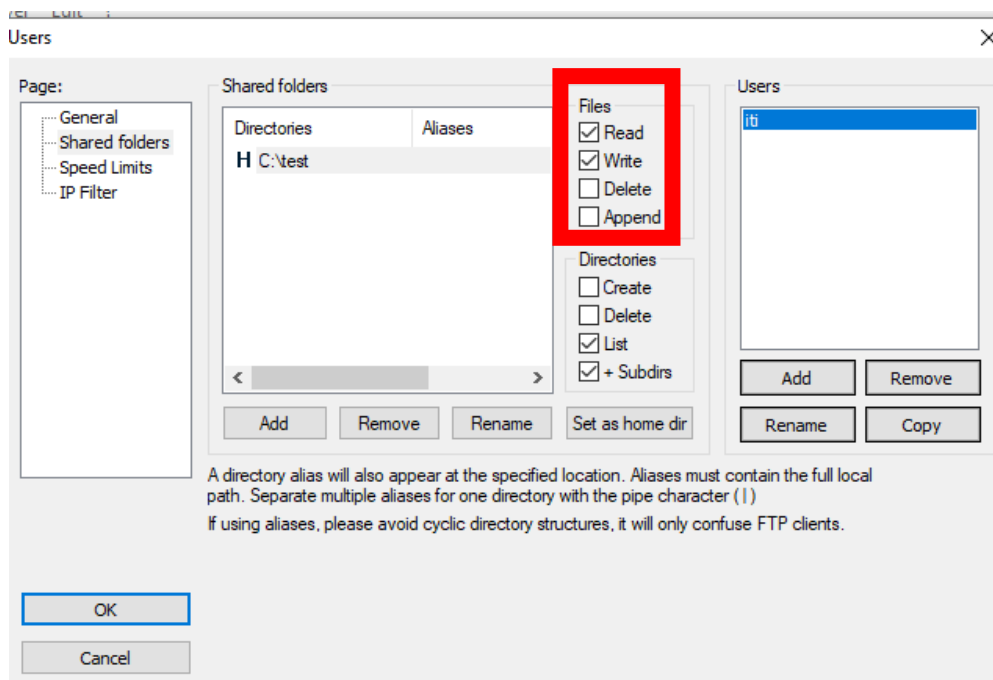
A. Concerning FileZilla ftp server,



B. We need to add users, who can log on the ftp server remotely, by going to

Edit menu ->Users, then click the Add button.

C. Add the user and set the shared folders and permissions .



C. Add password

General -> password

**** Disable firewall ****

Step 2 : Configure FTP Clients

* Method 1 (Using URL)

1) Internet explorer (N.B.: YOU MAY DISABLE THE PROXY)

ftp:\\IP -> ftp:\\192.168.1.1

ftp:\\IP:port no -> ftp:\\192.168.1.1:553

* Method 2 (FTP Commands)

Using windows built-in Cmd

- ftp >? /// to see all commands

- ftp >open ip

Enter username and password

- get filename /// download file& save in the current directory

- put file name

- hash // to see progress bar during process of download

- disconnect //close session

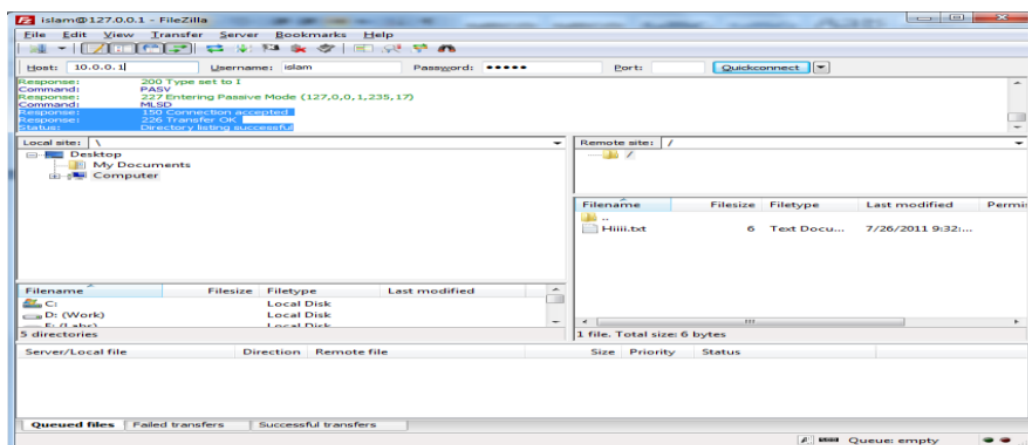
- bye // close ftp service

* Method 3 (FTP FileZilla Client)

A. First check connectivity between your machine and your colleague's one (using ping)

B. Start the FileZilla ftp server, then go to the Client and run the Filezilla ftp client.

C. Type the IP address of the ftp server host and the username and password allowed to access this ftp server, and then click connect.



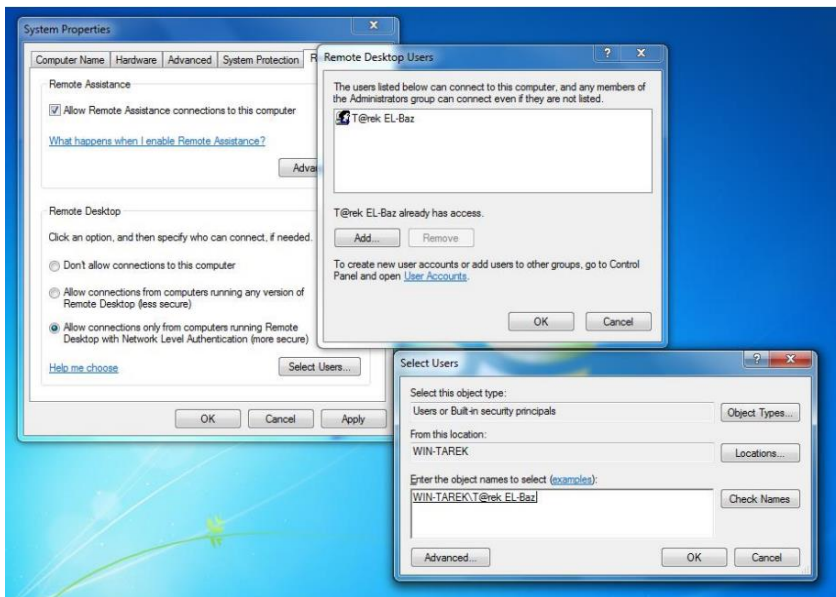
● Using Remote Administration

1) Using Windows Built-in Remote Desktop:

Start -> R_Click on my computer -> Remote Settings -> Remote Desktop ->allow

You can add any user you want

N.B: YOU MAY NEED TO ADD THE USER TO THE REMOTE DESKTOP USERS GROUP



On another computer

Search -> remote desktop connection -> add ip -> enter user and pass

➤ 11- Dealing with Electronic Mail Service

Email can be :

Web based: like yahoo, Hotmail

Access by http ///IE

Mail Client: like r@iti.net.eg

Access by outlook, Thunderbird, incredimail_install

IMAP: Mail stays on server, accessed remotely, normally needs to be deleted manually.

POP3: "Store and Forward" technology, stays on POP3 server until downloaded to client program, then normally auto-deleted from server

SMTP: used for communication between mail servers,
Client normally sends direct to SMTP server

Email Architect Server Software:



