



**RESEARCH ARTICLE**

# Hacking via Password Cracking

Preeti Redhu<sup>#1</sup>, Deepak Goyal<sup>\*2</sup>

<sup>1</sup>M.Tech Student Vaish College of Engineering and Society, MDU, Haryana (India)

redhu.preeti80@gmail.com

<sup>2</sup>Prof, Vaish College of Engineering and society, MDU, Haryana (India)

deepakgoyal.vce@gmail.com

**Abstract:-** *In this paper we define the term hacking, FTP and how hackers take advantages of FTP (File transfer protocol). We introduce the technique in software module using programming language Java. In this approach hacker behave like FTP Client. The result related to the term is described in the last section of the paper. The positive point is that if we know about the trick then we can save our system.*

**Keywords:-** *Hacker, FTP Client / Server, FileZilla Client and Server interface, Password Cracking Technique*

## 1. Introduction:-

A hacker is known as the hero of programming language. A skilled Hacker can be broken down into three hats, or groups depending on their motive [1]. The term hats originated from western movies, when the color of the hat was used to show if the character was a hero or villain [2]. Although white hat hackers are often hobby hackers, this is not always the case. One such instance is a tiger team, a group where half breaks through security and the other half is used to fix the security flaws the first half finds[3]. Like Kevin Mitnick, "Dark Dante" started young with his first hack at the age of seventeen in 1982. With a primitive computer of the time, he hacked into the US Department of Defense's Arpanet. [4]

## 2. File Transfer Protocol:-

It allows you transfer files between two computers on the Internet. FTP is a simple network protocol based on Internet Protocol and also a term used when referring to the process of copying files when using FTP technology.

### FTP Client / Server:-

To transfer files with FTP, you use a program often called the "client."  
The FTP client program initiates a connection to a remote computer running FTP "server" software.

After the connection is established, the client can choose to send and/or receive copies of files, singly or in groups. To connect to an FTP server, a client requires a username and password as set by the administrator of the server. Many public FTP archives follow a special convention for that accepts a username of "anonymous."



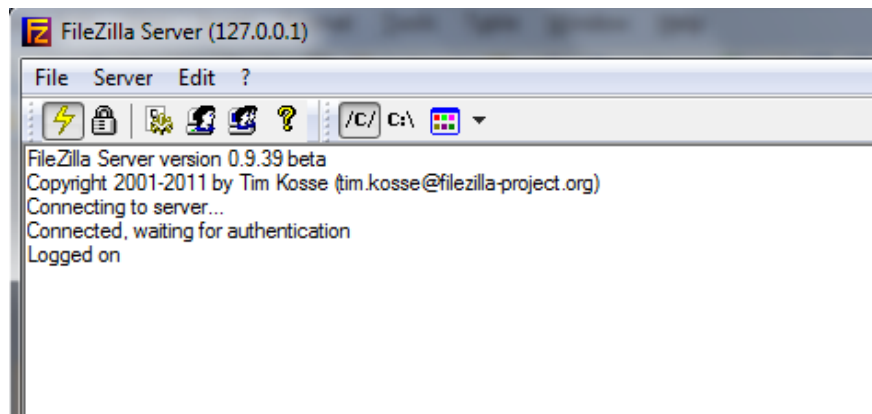
FileZilla Client is a fast and reliable cross-platform FTP, FTPS and SFTP client with lots of useful features and an intuitive graphical user interface. [5]

### 3. Features of FileZilla [6]:-

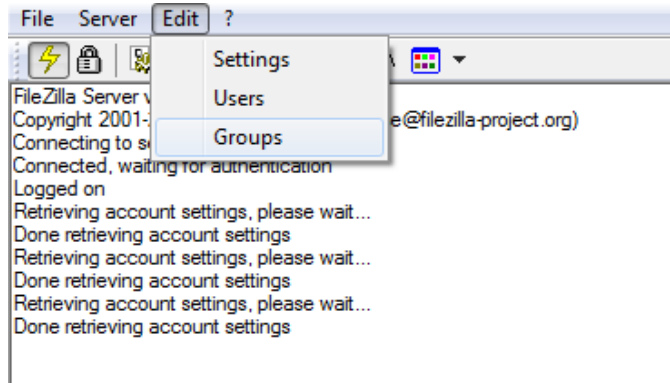
- Easy to use
- Supports FTP, FTP over SSL/TLS (FTPS) and SSH File Transfer Protocol (SFTP)
- IPv6 support
- Available in many languages
- Supports resume and transfer of large files >4GB
- Powerful Site Manager and transfer queue
- Bookmarks
- Configurable transfer speed limits
- Filename filters
- Directory comparison
- Network configuration wizard
- Remote file editing
- Keep-alive
- Logging to file
- Remote file search

### 4. Implementation on Server Side:-

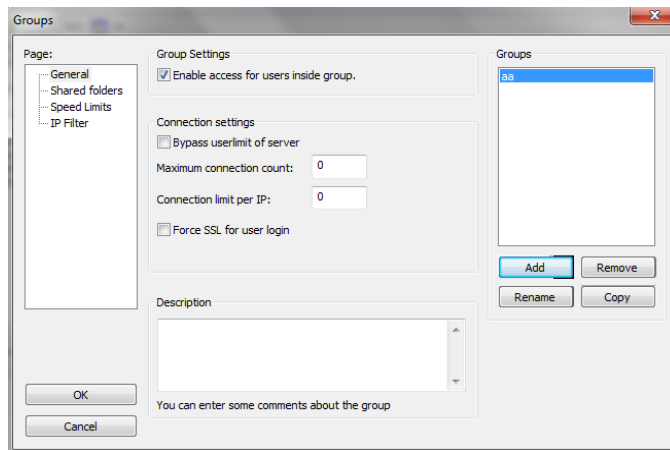
Step 1: Start the FTP SERVER.



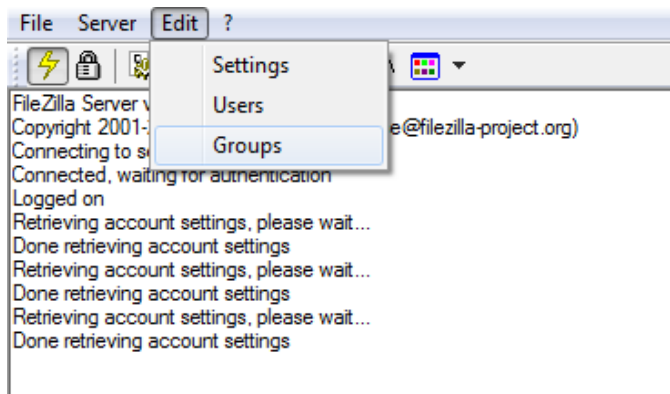
Step 2: Click on edit button select Edit -> Groups.



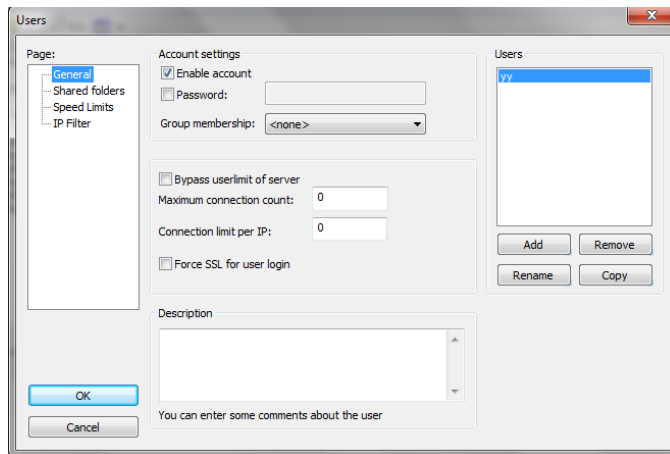
Step 3: Here we can add remove, rename and copy the groups.



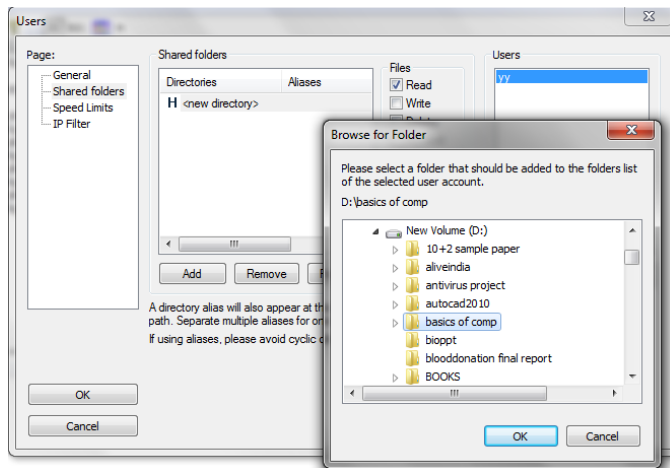
Step 4: Click on edit button select Edit -> Users.



Step 5: Here we can add, rename, copy, and remove the users



Step 6: Click on Shared folder and select the directory you want to share

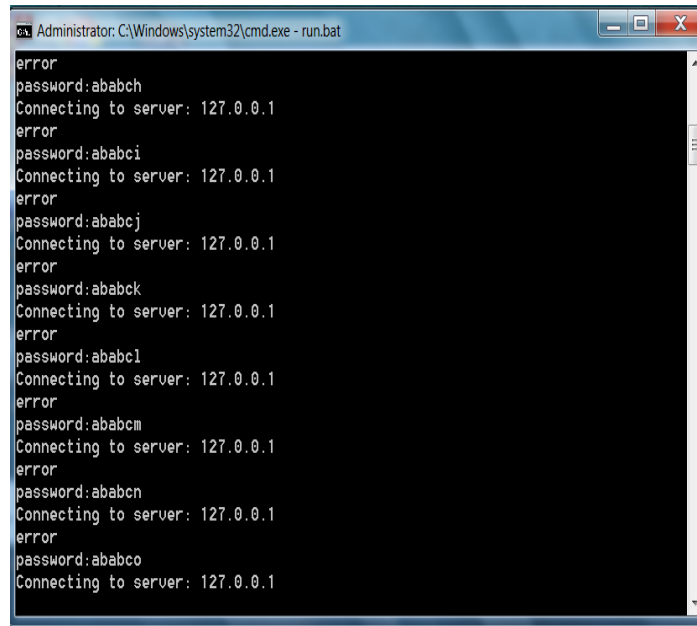


## 5. Implementation of Client Side:-

### Password Cracking Technique using Java coding:-

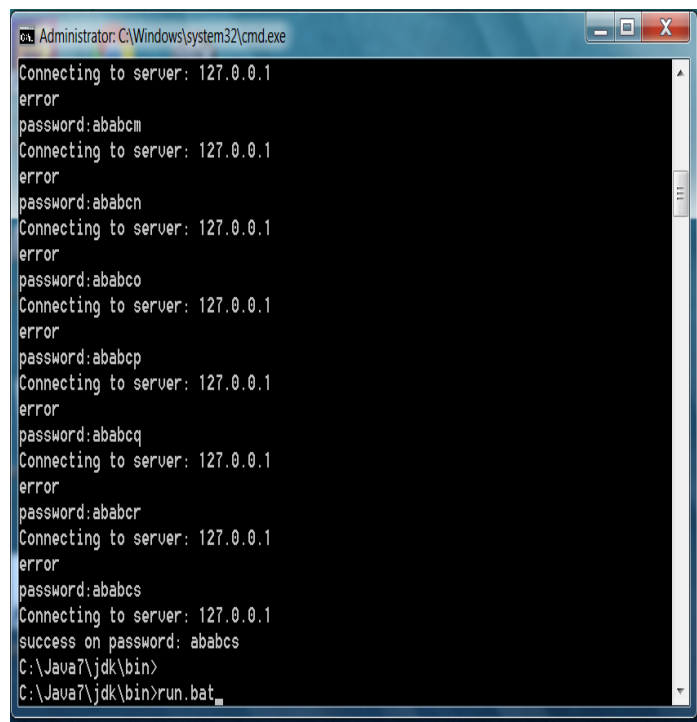
In the proposed system or application we are using Brute Force method. This method is better than the dictionary and the hybrid method. This method also makes use of special symbols. In the following section we describe how password cracking is done with implementation.

### 1. Randomly generation of the password in loop.



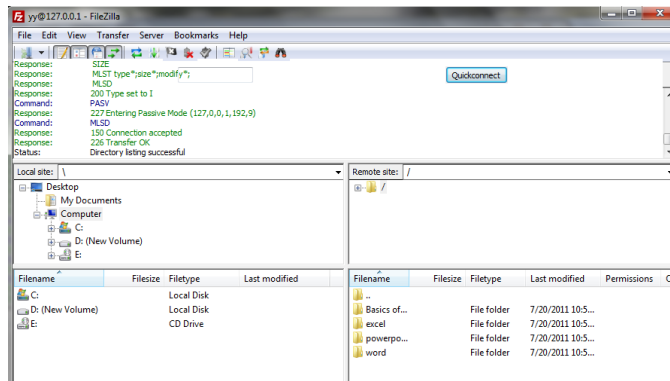
```
Administrator: C:\Windows\system32\cmd.exe - run.bat
error
password:ababch
Connecting to server: 127.0.0.1
error
password:ababci
Connecting to server: 127.0.0.1
error
password:ababcj
Connecting to server: 127.0.0.1
error
password:ababck
Connecting to server: 127.0.0.1
error
password:ababcl
Connecting to server: 127.0.0.1
error
password:ababcm
Connecting to server: 127.0.0.1
error
password:ababcn
Connecting to server: 127.0.0.1
error
password:ababco
Connecting to server: 127.0.0.1
```

### 2. Stop process when password found.

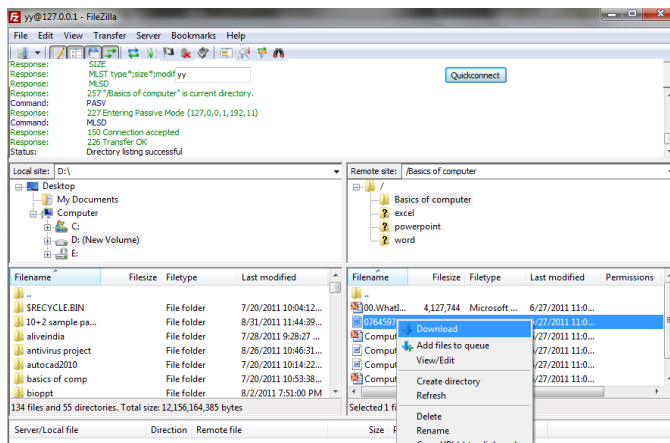


```
Administrator: C:\Windows\system32\cmd.exe
Connecting to server: 127.0.0.1
error
password:ababcm
Connecting to server: 127.0.0.1
error
password:ababcn
Connecting to server: 127.0.0.1
error
password:ababco
Connecting to server: 127.0.0.1
error
password:ababcp
Connecting to server: 127.0.0.1
error
password:ababcq
Connecting to server: 127.0.0.1
error
password:ababcr
Connecting to server: 127.0.0.1
error
password:ababcs
Connecting to server: 127.0.0.1
success on password: ababcs
C:\Java7\jdk\bin>
C:\Java7\jdk\bin>run.bat
```

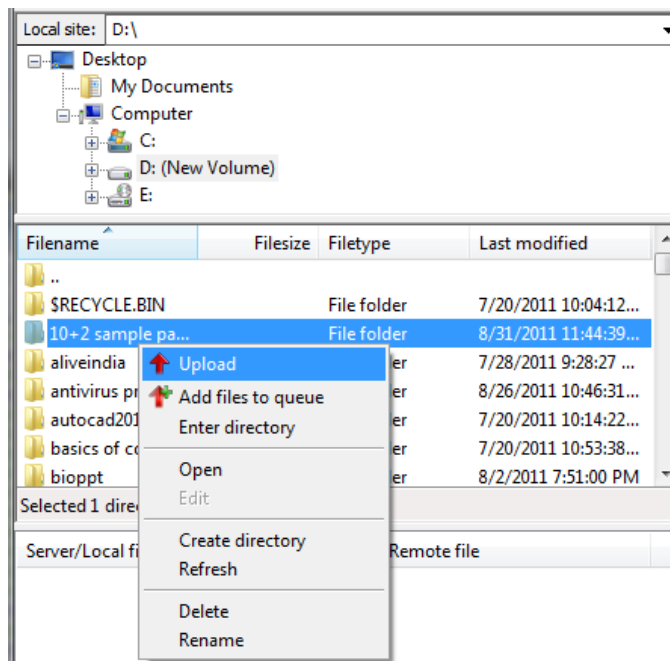
**Step 1: Start the FTP CLIENT.**  
 Following Window is displayed on screen



Step 2: Select file you want to download from right side and right click on it and press download button to start downloading.



Step 3: Select file you want to upload from left side and right click on it and press upload button to start uploading.



## References

- 1) Colors of hackers: <http://www.windowsecurity.com/articles/Different-Shades-Hackers.html>
- 2) What is a white hat hacker <http://searchsecurity.techtarget.com/>
- 3) Tiger team: <http://www.catb.org/jargon/html/T/tiger-team.html>
- 4) Kevin Pouslen crime list: <http://www.nndb.com/>
- 5) "FileZilla FTP Server". FileZilla project wiki
- 6) "FileZilla features". FileZilla project website.