Fillezilla is used in many organizations for proper file transfers. For example purposes, this writeup is for a PoC of how easy it is to obtain filezilla credentials on a user machine.

I am connecting to the following ftp servers:

Domain: testdomain.com

Username: admin

Password: password123

Port: 21

AND

Domain: Ftp.dlptest.com

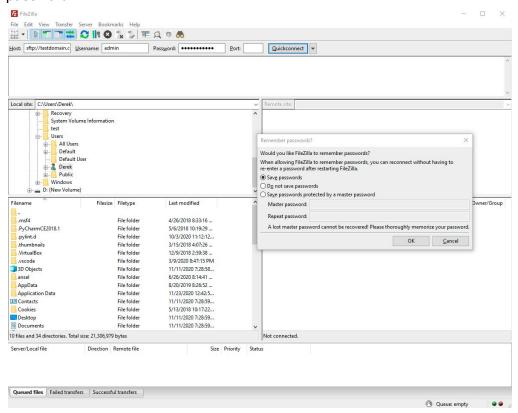
Username: dlpuser@dlptest.com

Password: eUj8GeW55SvYaswqUyDSm5v6N

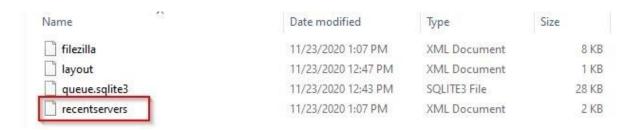
Port: 21

Source: https://dlptest.com/ftp-test/

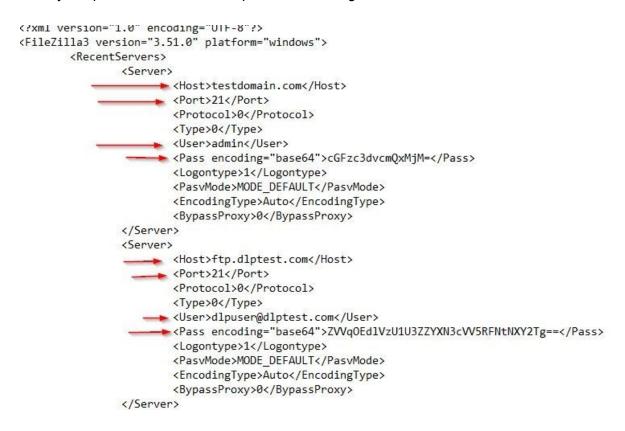
In the latest version of filezilla, users are prompted to save passwords. Most will do so for easy access. Recently, Filezilla has added an option to create a master password, but we will not explore that here yet. Let's assume we are saving passwords without setting a master password.



Once you connect to an ftp server, the credential information is stored in an XML file locally. The directory is C:\Users\<current user>\AppData\Roaming\FileZilla\ and the file is recentservers.xml



Once you open the xml file in Notepad, the following is shown:



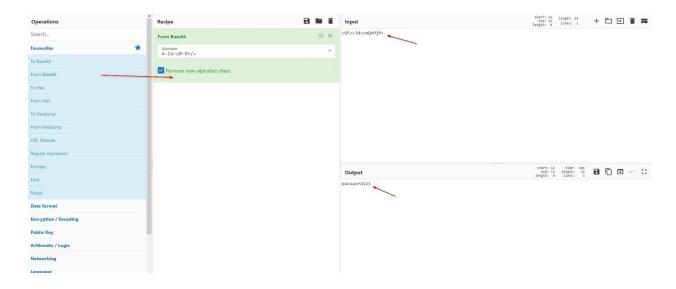
The Host, Username, and port used are all in plaintext. The following passwords are encoded in base64:

```
Testdomain.com = cGFzc3dvcmQxMjM=
Ftp.dlptest.com = ZVVqOEdlVzU1U3ZZYXN3cVV5RFNtNXY2Tg==
```

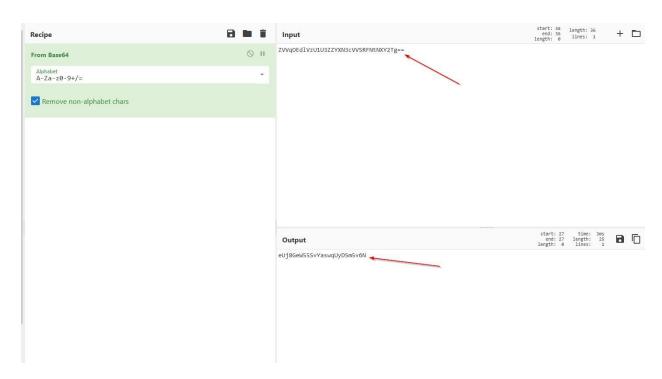
You might be saying: "Big deal, you cannot read these passwords anyway". Let's view how we can read them.

Cyberchef (http://icyberchef.com/):

My favorite tool for something like this Cyberchef. Simply search for the "From Base64" recipe on the far left, drag it to the middle column, and place the base64 in the input box! Below is the base64 output for testdomain.com and ftp.dlptest.com respectively:



Ftp.dlptest.com:



Filezilla is a great tool, but installed without oversight can lead to pivoting and eventually information disclosure for malicious users inside the network if not managed properly inside an organization. As I said earlier in the review, Filezilla now has a master password option. This stores the passwords in a much secure way shown below:

```
<?xml version="1.0" encoding="UTF-8"?>
<FileZilla3 version="3.51.0" platform="windows">
     <RecentServers>
          <Server>
                <host>testdomain.com</host>
                <Port>21</Port>
                <Protocol>0</Protocol>
                <Type>0</Type>
                <User>admin</User>
                <Pass encoding="crypt"
pubkey="Y08E10vrwu/06DZHNdNIS53NCZY6Mf10z34jhuG0LQ8T+
1aW5ZrzvXZaxp5/AAQ2De/iqgmFlf7amrta+sgJvQ">
PrNXCQ1hMZ8E7gaDXWtEc76y0mDp3KFAErcqSPk91DKK6phsLSMtF4xBpJan5Ipe
ZfKD4DgHc6IIaG/8MuFzL6BmtPN6IMbJHwcWPP3GmI90v8rlNfj+I0b9+
5mUqTHL</Pass>
                <Logontype>1</Logontype>
                <PasvMode>MODE DEFAULT</PasvMode>
                <EncodingType>Auto</EncodingType>
                <BypassProxy>0</BypassProxy>
           </server>
           <Server>
                <host>ftp.dlptest.com</host>
                <Port>21</Port>
                <Protocol>0</Protocol>
                <Type>0</Type>
                <User>dlpuser@dlptest.com</User>
                <Pass encoding="crypt"
pubkey="Y08E10vrwu/06DZHNdNIS53NCZY6Mfloz34jhuG0LQ8T+
laW5ZrzvXZaxp5/AAQ2De/iggmFlf7amrta+sgJvQ">
ub3Q6/so5Pz+uCUxG/7ue2pXUTtnq4EEk6xQD9FSCRDqYP25I7De7W1pCn+HUfG5
X86diS2oxgyCRsn2jDVr/Rx2FrraDl1e1vu/GIj8TGnB5Z7HUmuLjFOcAeO1XSOG
YbfKi92okSlU</Pass>
                <Logontype>1</Logontype>
                <PasvMode>MODE DEFAULT</PasvMode>
                <EncodingType>Auto</EncodingType>
                <BypassProxy>0</BypassProxy>
           </Server>
```

The best suggestion to mitigate this risk would be to set this Master password setting, use a complex password as the master password, and store the password in a password manager. This will ensure all ftp and sftp credentials multiple layers of protection.