

Instruction MiniLockSync



MiniLockSync

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1. General Information

MiniLockSync is an open source program which was developed by 5 students from the Hochschule Esslingen – University of Applied Sciences. The purpose of the program was to encrypt data before uploaded to a cloud service like Dropbox or Owncloud, so that your data is “save” from others.

MiniLocksync is based on the student research paper from Mr. Römer, which again is based on the Google Chrome-Plugin “Minilock”.

This program was built with the QT Creator 3.6.1 based on Qt 5.6.0 (MSVC 2013, 32 bit) and is available for Windows [7,8,10] plus Linux.

2. Install MiniLockSync

For both operating systems exists a setup assistant, so you only have to download the right setup assistant for your operating system from <https://github.com/hsBoyz/MiniLockSync> and follow the steps.

3. Modifications

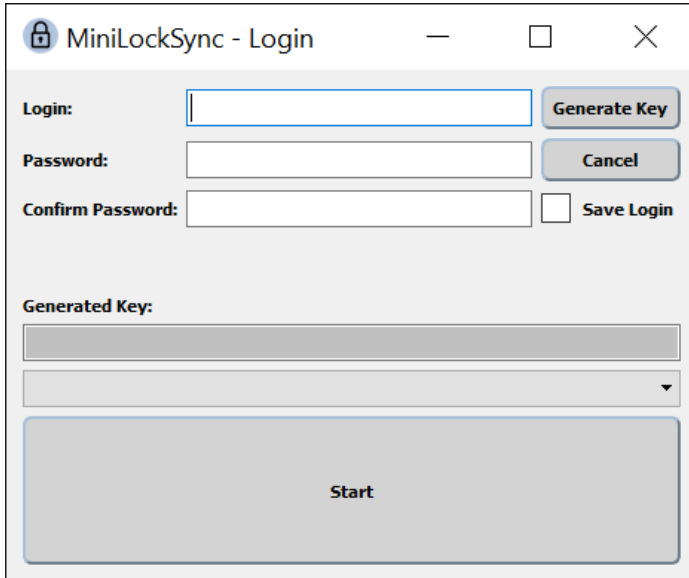
If you want to make changes, add functions or personalize MiniLockSync you had to consider these points:

- You need QT Creator based on Qt 5.6.0 (MSVC 20XX, 32 bit).
- Microsoft Visual C++(MSVC) should be the same version as installed on your computer. For example, if you have Visual Studio 2013 installed, then you should install QT Creator MSVC 2013. Visual Studio 2015, then the MSVC 2015.
- It is very important that the version is 32 bit. 64 bit won't work.
- Download the files for your operating system from <https://github.com/hsBoyz/MiniLockSync>

4. Instruction

4.1.Login

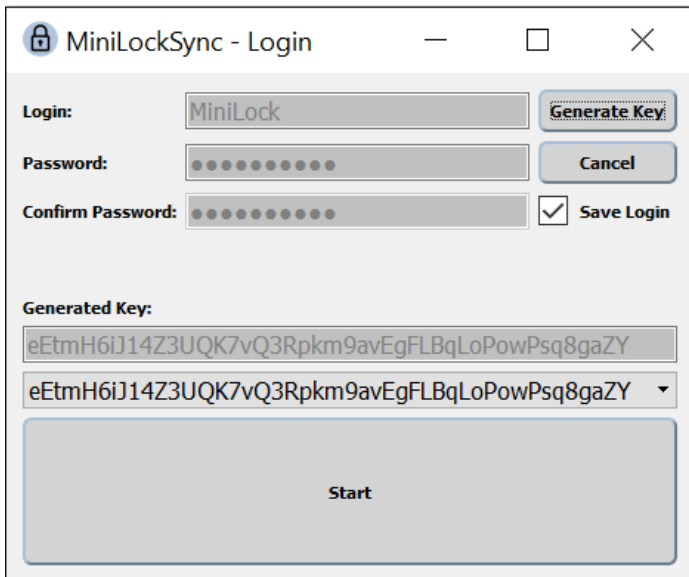
When you use MiniLockSync for the first time, you have to create an account.



The image shows the 'MiniLockSync - Login' window. It has a title bar with a lock icon, the text 'MiniLockSync - Login', and standard window controls (minimize, maximize, close). The main area contains three input fields: 'Login:', 'Password:', and 'Confirm Password:'. To the right of the 'Login:' field is a 'Generate Key' button. To the right of the 'Password:' field is a 'Cancel' button. To the right of the 'Confirm Password:' field is a checkbox labeled 'Save Login'. Below these fields is a 'Generated Key:' label, followed by a text box containing a long alphanumeric string and a dropdown arrow. At the bottom is a large 'Start' button.

Figure 1 – Login

Therefore you simply choose a name and a password and hit the “Generate Key” button. The password should at least have 8 digits with numbers, capitals and lower case letters.



The image shows the 'MiniLockSync - Login' window after the 'Generate Key' button has been clicked. The 'Login:' field now contains the text 'MiniLock'. The 'Password:' and 'Confirm Password:' fields are filled with dots, indicating they contain text. The 'Generate Key' button is highlighted with a dashed border. The 'Cancel' button is still present. The 'Save Login' checkbox is now checked. The 'Generated Key:' text box now contains a long alphanumeric string: 'eEtmH6iJ14Z3UQK7vQ3Rpkm9avEgFLBqLoPowPsq8gaZY'. The 'Start' button remains at the bottom.

Figure 2 - Generate Key

Now you have created an account and with hitting the “Start” button you launch MiniLockSync. You can also hit the checkbox “Save Login”, so you only have to hit the “Start” button the next time you start the program. Please note, if you have already created an account and want to login, the field “Confirm Password” will be inactive and cannot be selected, because MiniLockSync check the password you entered with the password you

entered when you created the account. When you hit the cancel button, all fields will be cleared.

4.2.Menu

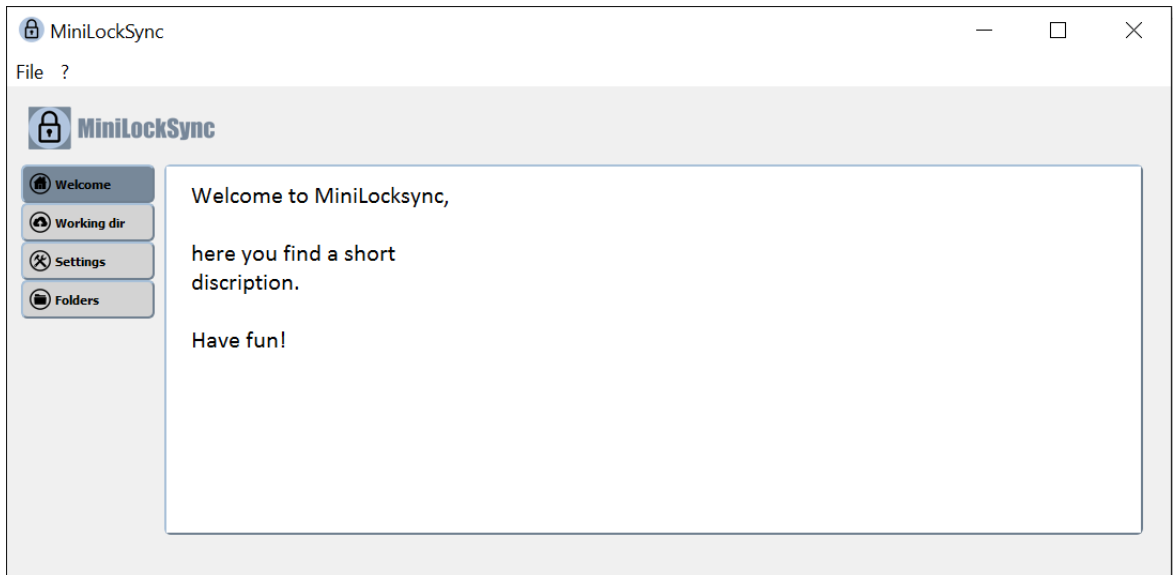


Figure 3 – Menu

In the menu you have the options “Working dir”, “Settings” and “Folders”.

4.3.Settings

When you use MiniLockSync the first time, you go to the “Settings” option. There you can add a working dir and a cloud. The “cloud” is the folder where your files will be uploaded and be encrypted. For example, Dropbox or Owncloud. The “working dir” is the folder where you can find these encrypted files decrypted and where you put your files in.

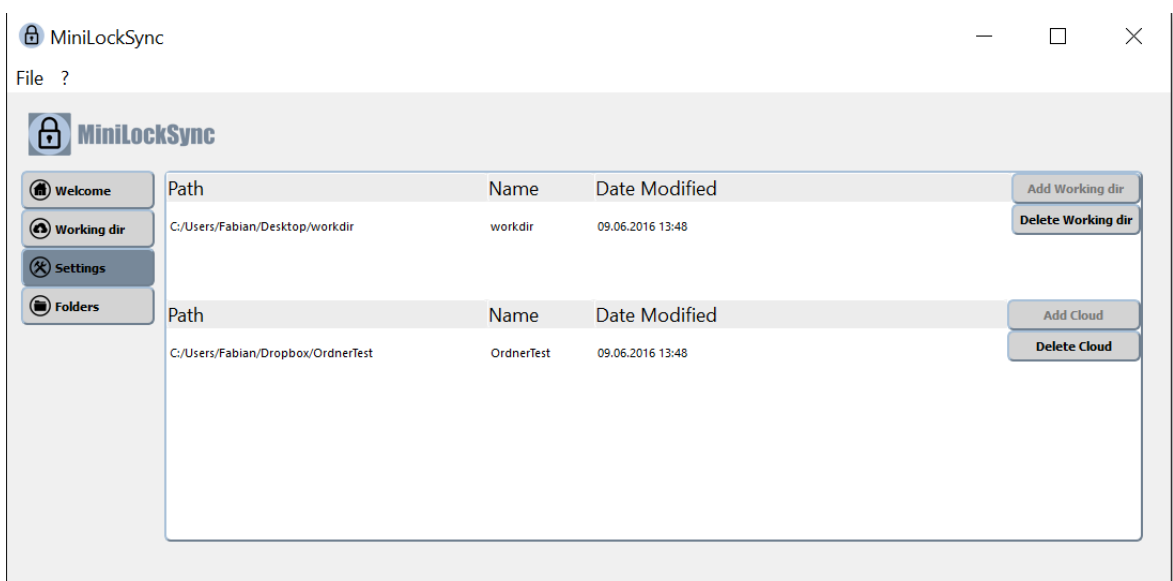


Figure 4 - Settings

4.4.Folders

Here you can add whole folders which you want to encrypt. In order to do this, you hit the add button and choose a folder to encrypt. You can add several folders but only when you hit the confirm button, your folders will be encrypted. The folders you choose will be transferred in the “working dir”. The original folders will then be deleted.

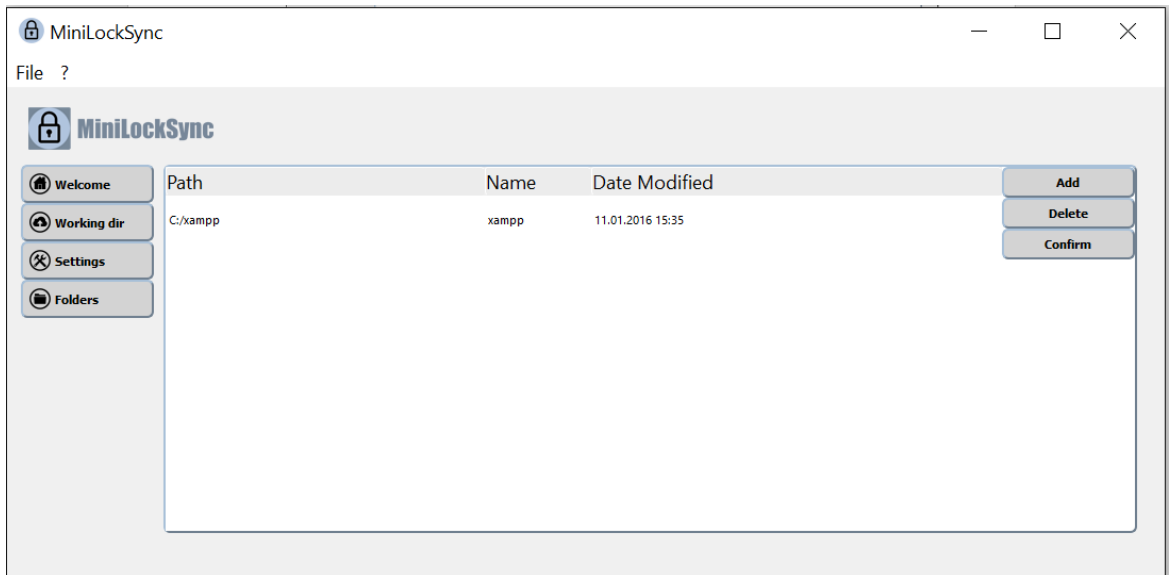


Figure 5 - Folders

4.5.Working dir

When you click on “Working dir” a second window pops up. In this window you are in the folder you selected as “working dir”. Now you have several options.

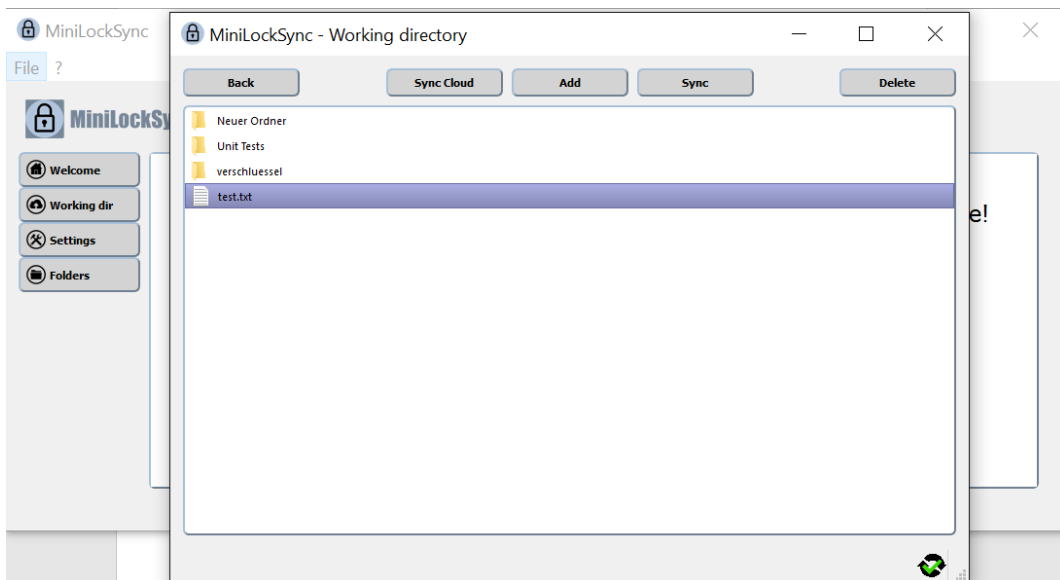


Figure 6 - working dir

- **Sync**
All files and folders will be uploaded and encrypted to your “cloud” folder
- **Sync Cloud**
All files and folders from your “cloud” folder will be downloaded and decrypted to your “working dir”.
- **Add**
You can add files and folders to your “working dir”.
- **Delete**
You can delete files and folders. These files and folders will be deleted everywhere, in “working dir” also in “cloud”.