File System Wallets using the CLI

This document describes how to create and use a file system wallet with the Solana CLI tools. A file system wallet exists as an unencrypted keypair file on your computer system's filesystem.

File system wallets are theleast secure method of storing SOL tokens. Storing large amounts of tokens in a file system wallet isnot recommended .

Before you Begin

Make sure you have[installed the Solana Command Line Tools](#)

Generate a File System Wallet Keypair

Use Solana's command-line toolsolana-keygen to generate keypair files. For example, run the following from a command-line shell:

mkdir ~/my-solana-wallet solana-keygen new --outfile ~/my-solana-wallet/my-keypair.json This file contains yourunencrypted keypair. In fact, even if you specify a password, that password applies to the recovery seed phrase, not the file. Do not share this file with others. Anyone with access to this file will have access to all tokens sent to its public key. Instead, you should share only its public key. To display its public key, run:

solana-keygen pubkey ~/my-solana-wallet/my-keypair.json It will output a string of characters, such as:

ErRr1caKzK8L8nn4xmEWtimYRiTCAZXjBtVphuZ5vMKy This is the public key corresponding to the keypair in~/my-solana-wallet/my-keypair.json . The public key of the keypair file is yourwallet address .

Verify your Address against your Keypair file

To verify you hold the private key for a given address, usesolana-keygen verify :

solana-keygen verify < PUBKEY

> ~/my-solana-wallet/my-keypair.json where is replaced with your wallet address. The command will output "Success" if the given address matches the one in your keypair file, and "Failed" otherwise.

Creating Multiple File System Wallet Addresses

You can create as many wallet addresses as you like. Simply re-run the steps in[Generate a File System Wallet](#) and make sure to use a new filename or path with the--outfile argument. Multiple wallet addresses can be useful if you want to transfer tokens between your own accounts for different purposes. [Previous Paper Wallets using the CLI](#)[Next Using Hardware Wallets in the Solana CLI](#)