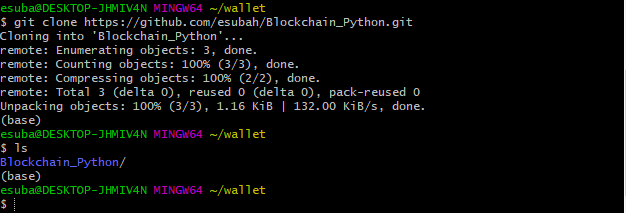
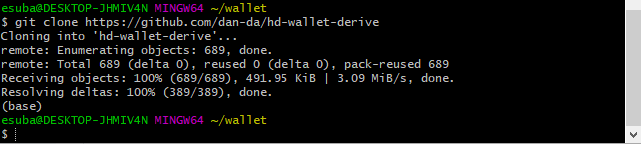
Project Directory – wallet



Hd-wallet-derive installation

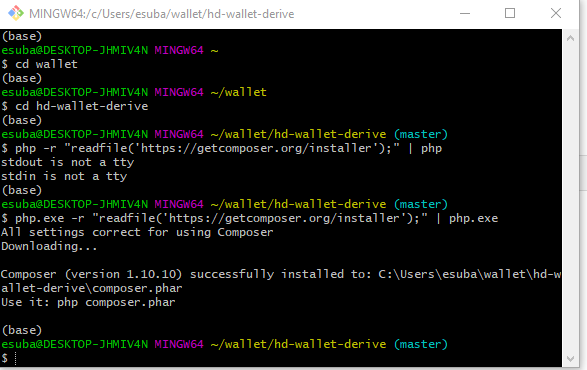
Cloning: git clone https://github.com/dan-da/hd-wallet-derive

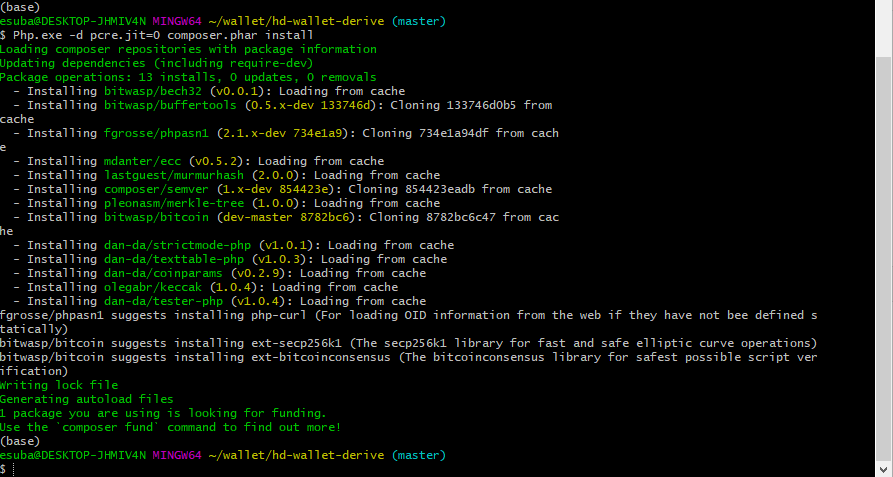


Php composer installation:

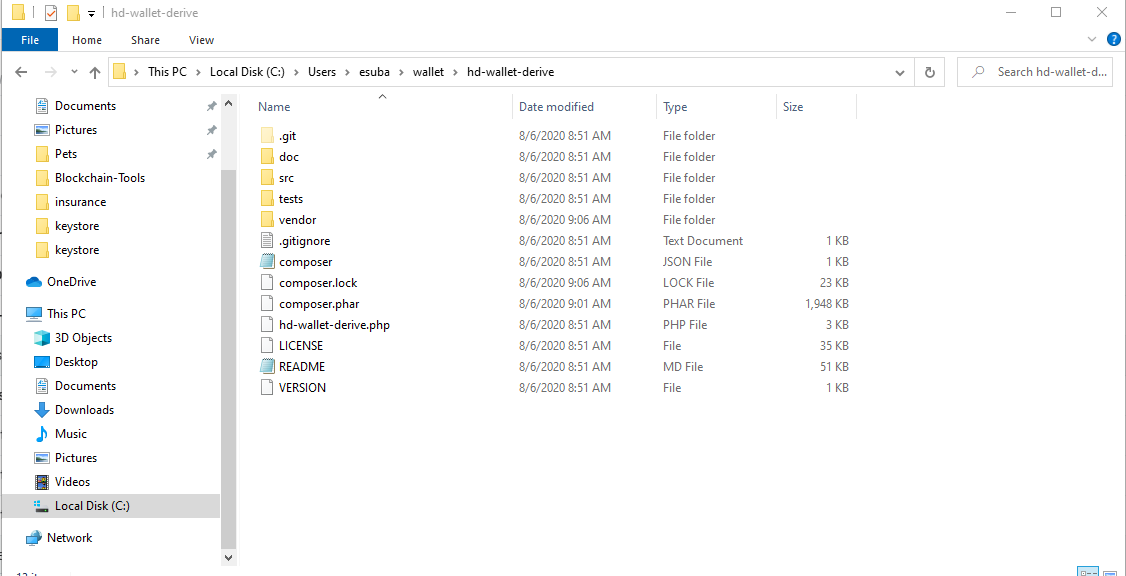
php.exe -r "readfile('[https://getcomposer.org/installer](https://slack-redir.net/link?url=https%3A%2F%2Fgetcomposer.org%2Finstaller)');" | php.exe

Php.exe -d pcre.jit**=**0 composer.phar install



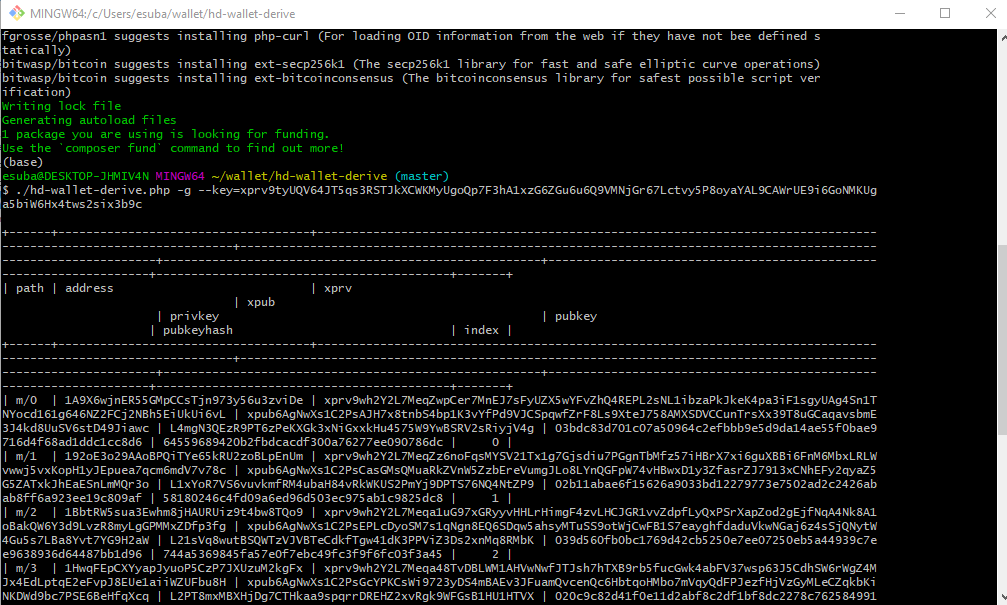


hd-wallet-derive folder containing the PHP library

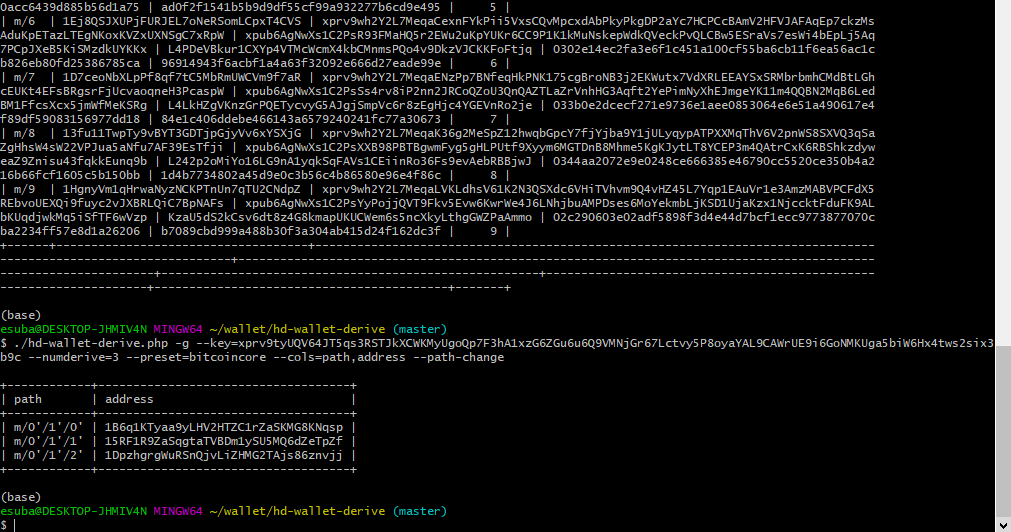


Execute the hd-wallet-derive library to derive BIP32 addresses and private keys for Bitcoin and other alternative coins

./hd-wallet-derive.php -g --key**=**xprv9tyUQV64JT5qs3RSTJkXCWKMyUgoQp7F3hA1xzG6ZGu6u6Q9VMNjGr67Lctvy5P8oyaYAL9CAWrUE9i6GoNMKUga5biW6Hx4tws2six3b9c

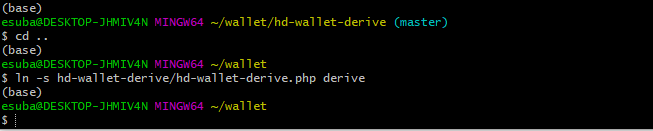


./hd-wallet-derive.php -g --key**=**xprv9tyUQV64JT5qs3RSTJkXCWKMyUgoQp7F3hA1xzG6ZGu6u6Q9VMNjGr67Lctvy5P8oyaYAL9CAWrUE9i6GoNMKUga5biW6Hx4tws2six3b9c --numderive**=**3 --preset**=**bitcoincore --cols**=**path,address --path-change



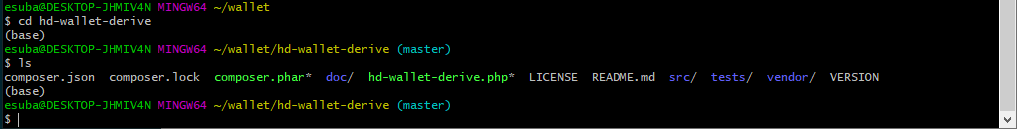
Create a symlink called derive for the hd-wallet-derive/hd-wallet-derive.php script into the top level project directory:

ln -s hd-wallet-derive/hd-wallet-derive.php derive



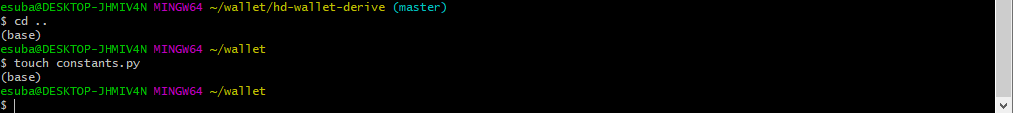
File structure



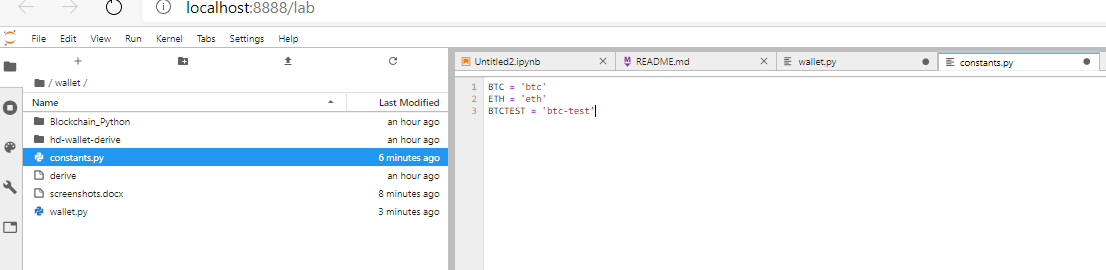


Constants:

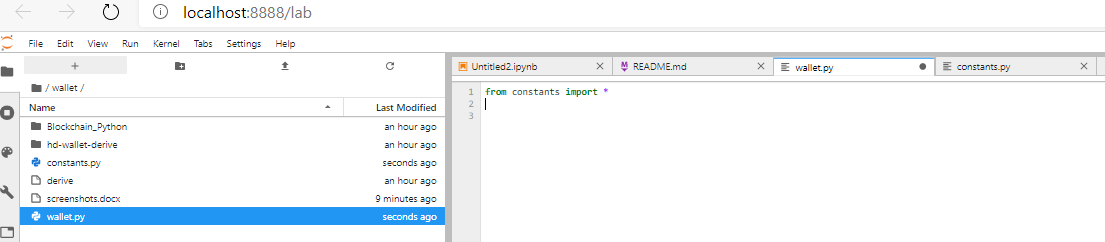
$ touch constants.py



* BTC = 'btc'
* ETH = 'eth'
* BTCTEST = 'btc-test'



In wallet.py, import all constants: from constants import \*

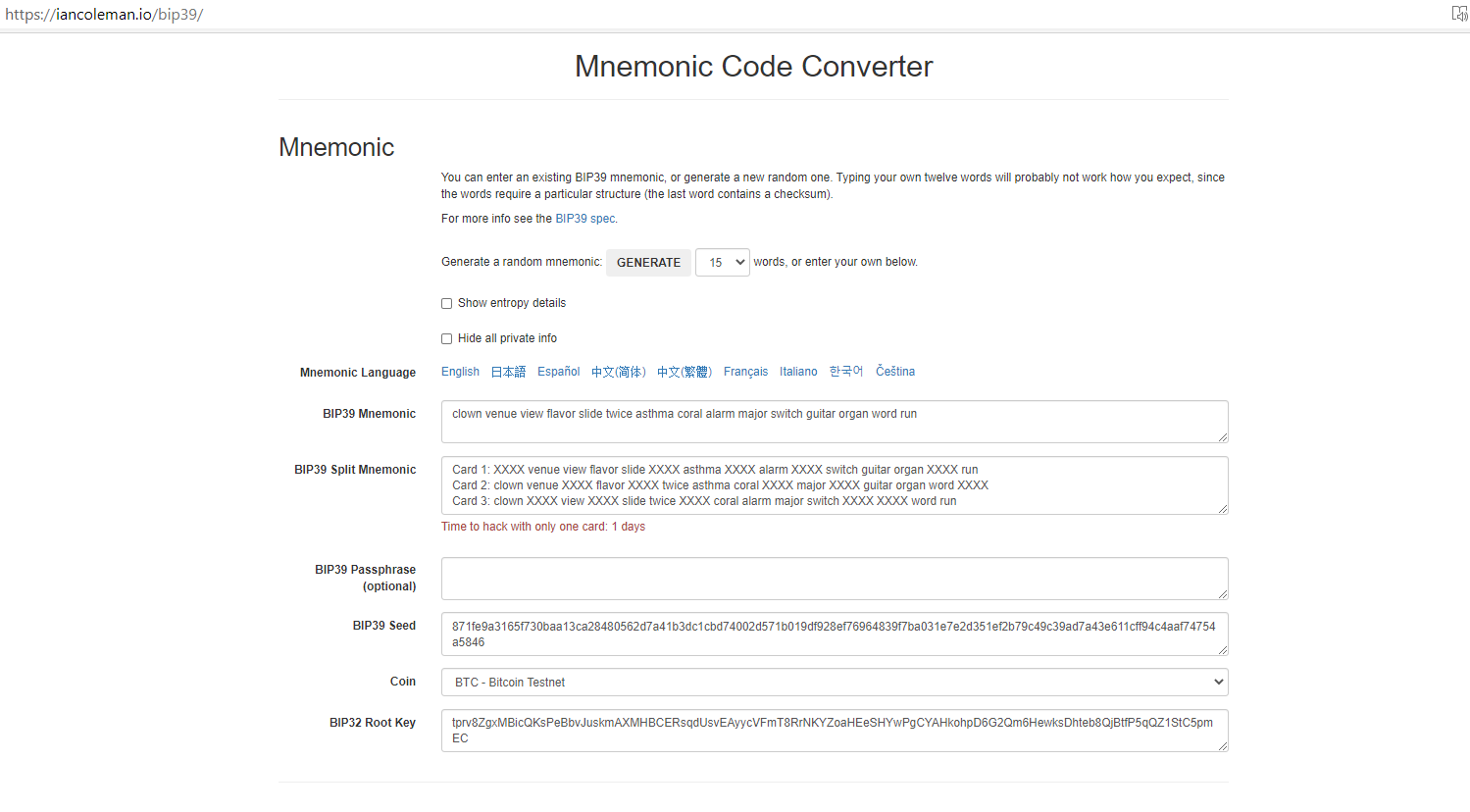


Important github directions for mnemonic generation: <https://github.com/dan-da/hd-wallet-derive>

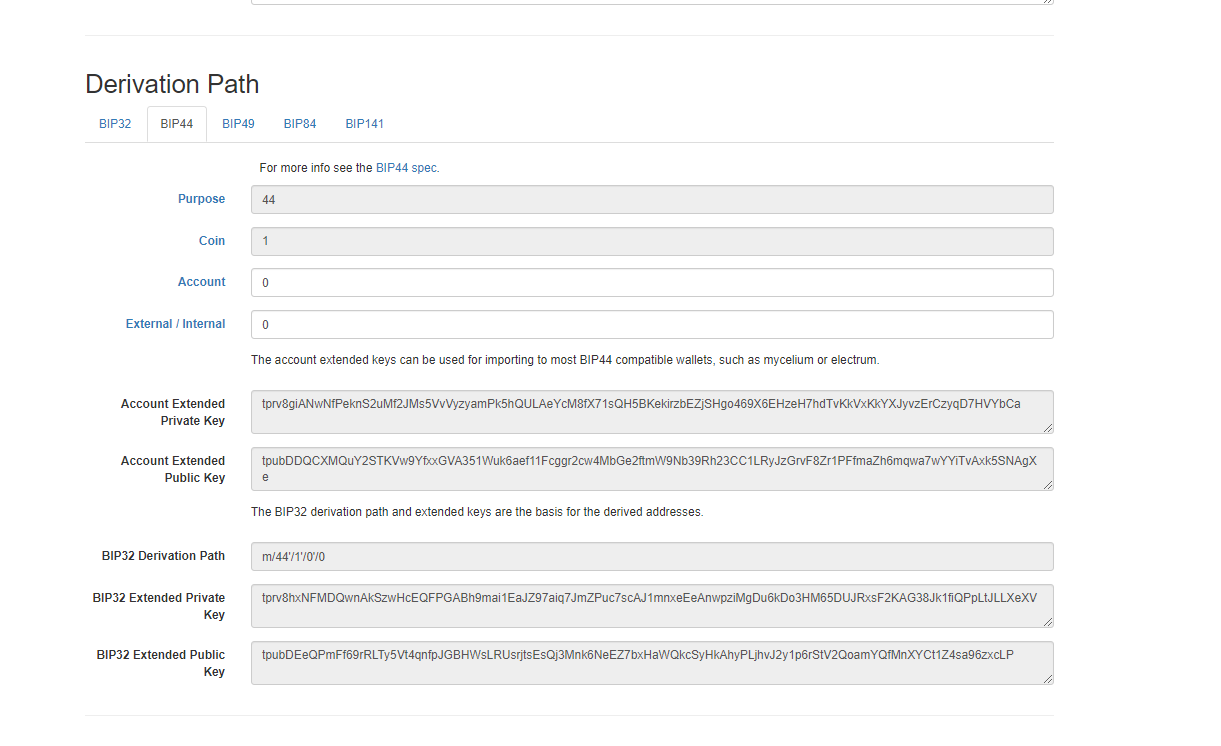
Generate Mnemonic using BIP39 Tool: <https://iancoleman.io/bip39/> (BIP44 Default, BTC Testnet)

# ./hd-wallet-derive.php --mnemonic="allergic stick room cake exchange cup none enough sleep soccer clean ladder" -g --includeroot --numderive=2 --cols=path,address,privkey,pubkey,xprv

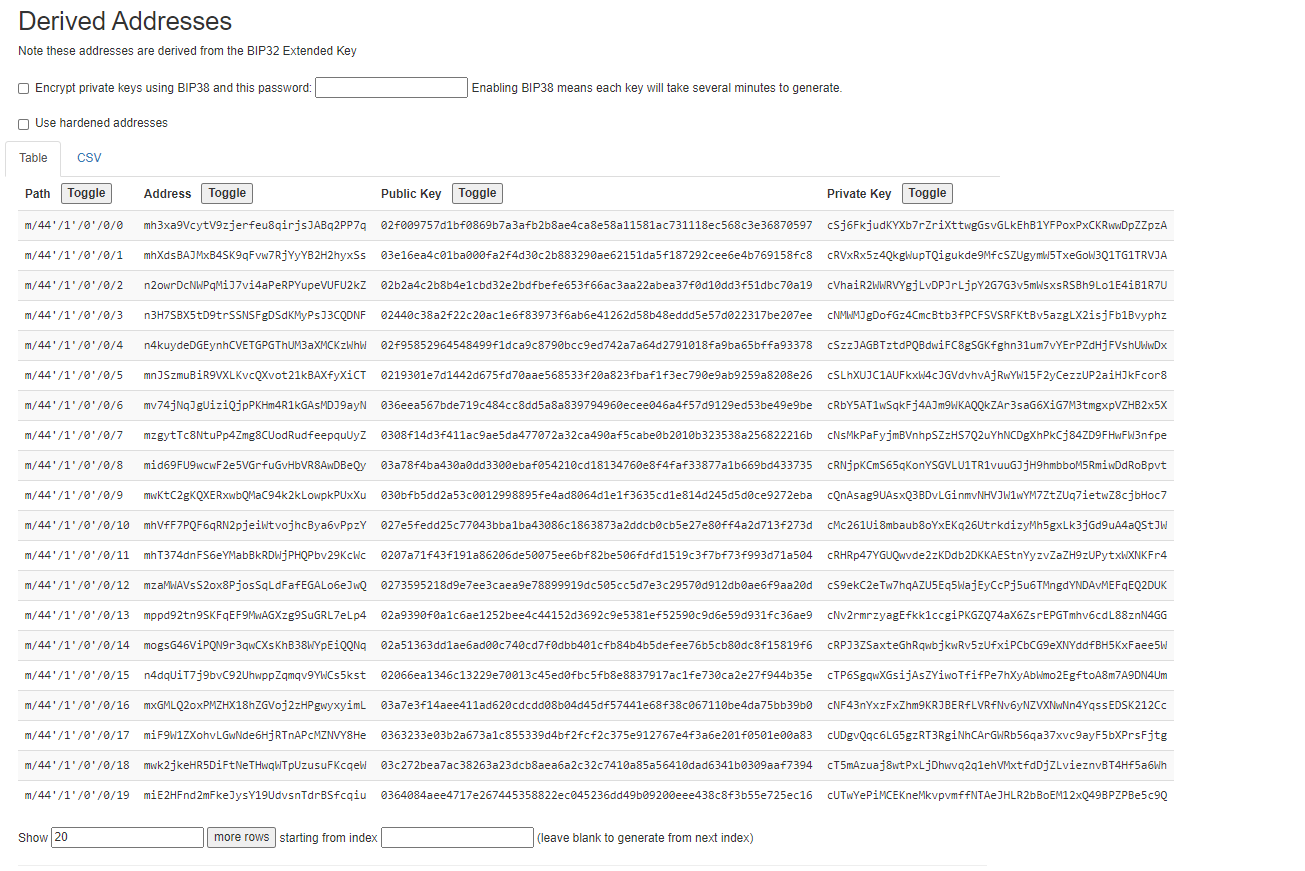
Mnemonic: allergic stick room cake exchange cup none enough sleep soccer clean ladder



Derived Path:



Derived Addresses:



path,address,public key,private key

m/44'/1'/0'/0/0,mh3xa9VcytV9zjerfeu8qirjsJABq2PP7q,02f009757d1bf0869b7a3afb2b8ae4ca8e58a11581ac731118ec568c3e36870597,cSj6FkjudKYXb7rZriXttwgGsvGLkEhB1YFPoxPxCKRwwDpZZpzA

m/44'/1'/0'/0/1,mhXdsBAJMxB4SK9qFvw7RjYyYB2H2hyxSs,03e16ea4c01ba000fa2f4d30c2b883290ae62151da5f187292cee6e4b769158fc8,cRVxRx5z4QkgWupTQigukde9MfcSZUgymW5TxeGoW3Q1TG1TRVJA

m/44'/1'/0'/0/2,n2owrDcNWPqMiJ7vi4aPeRPYupeVUFU2kZ,02b2a4c2b8b4e1cbd32e2bdfbefe653f66ac3aa22abea37f0d10dd3f51dbc70a19,cVhaiR2WWRVYgjLvDPJrLjpY2G7G3v5mWsxsRSBh9Lo1E4iB1R7U

m/44'/1'/0'/0/3,n3H7SBX5tD9trSSNSFgDSdKMyPsJ3CQDNF,02440c38a2f22c20ac1e6f83973f6ab6e41262d58b48eddd5e57d022317be207ee,cNMWMJgDofGz4CmcBtb3fPCFSVSRFKtBv5azgLX2isjFb1Bvyphz

m/44'/1'/0'/0/4,n4kuydeDGEynhCVETGPGThUM3aXMCKzWhW,02f95852964548499f1dca9c8790bcc9ed742a7a64d2791018fa9ba65bffa93378,cSzzJAGBTztdPQBdwiFC8gSGKfghn31um7vYErPZdHjFVshUWwDx

m/44'/1'/0'/0/5,mnJSzmuBiR9VXLKvcQXvot21kBAXfyXiCT,0219301e7d1442d675fd70aae568533f20a823fbaf1f3ec790e9ab9259a8208e26,cSLhXUJC1AUFkxW4cJGVdvhvAjRwYW15F2yCezzUP2aiHJkFcor8

m/44'/1'/0'/0/6,mv74jNqJgUiziQjpPKHm4R1kGAsMDJ9ayN,036eea567bde719c484cc8dd5a8a839794960ecee046a4f57d9129ed53be49e9be,cRbY5AT1wSqkFj4AJm9WKAQQkZAr3saG6XiG7M3tmgxpVZHB2x5X

m/44'/1'/0'/0/7,mzgytTc8NtuPp4Zmg8CUodRudfeepquUyZ,0308f14d3f411ac9ae5da477072a32ca490af5cabe0b2010b323538a256822216b,cNsMkPaFyjmBVnhpSZzHS7Q2uYhNCDgXhPkCj84ZD9FHwFW3nfpe

m/44'/1'/0'/0/8,mid69FU9wcwF2e5VGrfuGvHbVR8AwDBeQy,03a78f4ba430a0dd3300ebaf054210cd18134760e8f4faf33877a1b669bd433735,cRNjpKCmS65qKonYSGVLU1TR1vuuGJjH9hmbboM5RmiwDdRoBpvt

m/44'/1'/0'/0/9,mwKtC2gKQXERxwbQMaC94k2kLowpkPUxXu,030bfb5dd2a53c0012998895fe4ad8064d1e1f3635cd1e814d245d5d0ce9272eba,cQnAsag9UAsxQ3BDvLGinmvNHVJW1wYM7ZtZUq7ietwZ8cjbHoc7

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m/44'/1'/0'/0/11,mhT374dnFS6eYMabBkRDWjPHQPbv29KcWc,0207a71f43f191a86206de50075ee6bf82be506fdfd1519c3f7bf73f993d71a504,cRHRp47YGUQwvde2zKDdb2DKKAEStnYyzvZaZH9zUPytxWXNKFr4

m/44'/1'/0'/0/12,mzaMWAVsS2ox8PjosSqLdFafEGALo6eJwQ,0273595218d9e7ee3caea9e78899919dc505cc5d7e3c29570d912db0ae6f9aa20d,cS9ekC2eTw7hqAZU5Eq5WajEyCcPj5u6TMngdYNDAvMEFqEQ2DUK

m/44'/1'/0'/0/13,mppd92tn9SKFqEF9MwAGXzg9SuGRL7eLp4,02a9390f0a1c6ae1252bee4c44152d3692c9e5381ef52590c9d6e59d931fc36ae9,cNv2rmrzyagEfkk1ccgiPKGZQ74aX6ZsrEPGTmhv6cdL88znN4GG

m/44'/1'/0'/0/14,mogsG46ViPQN9r3qwCXsKhB38WYpEiQQNq,02a51363dd1ae6ad00c740cd7f0dbb401cfb84b4b5defee76b5cb80dc8f15819f6,cRPJ3ZSaxteGhRqwbjkwRv5zUfxiPCbCG9eXNYddfBH5KxFaee5W

m/44'/1'/0'/0/15,n4dqUiT7j9bvC92UhwppZqmqv9YWCs5kst,02066ea1346c13229e70013c45ed0fbc5fb8e8837917ac1fe730ca2e27f944b35e,cTP6SgqwXGsijAsZYiwoTfifPe7hXyAbWmo2EgftoA8m7A9DN4Um

m/44'/1'/0'/0/16,mxGMLQ2oxPMZHX18hZGVoj2zHPgwyxyimL,03a7e3f14aee411ad620cdcdd08b04d45df57441e68f38c067110be4da75bb39b0,cNF43nYxzFxZhm9KRJBERfLVRfNv6yNZVXNwNn4YqssEDSK212Cc

m/44'/1'/0'/0/17,miF9W1ZXohvLGwNde6HjRTnAPcMZNVY8He,0363233e03b2a673a1c855339d4bf2fcf2c375e912767e4f3a6e201f0501e00a83,cUDgvQqc6LG5gzRT3RgiNhCArGWRb56qa37xvc9ayF5bXPrsFjtg

m/44'/1'/0'/0/18,mwk2jkeHR5DiFtNeTHwqWTpUzusuFKcqeW,03c272bea7ac38263a23dcb8aea6a2c32c7410a85a56410dad6341b0309aaf7394,cT5mAzuaj8wtPxLjDhwvq2q1ehVMxtfdDjZLvieznvBT4Hf5a6Wh

m/44'/1'/0'/0/19,miE2HFnd2mFkeJysY19UdvsnTdrBSfcqiu,0364084aee4717e267445358822ec045236dd49b09200eee438c8f3b55e725ec16,cUTwYePiMCEKneMkvpvmffNTAeJHLR2bBoEM12xQ49BPZPBe5c9Q

Set MNEMONIC as environment variable

\*\*\*add MNEMONIC to .batch\_profile first\*\*\*

$ export MNEMONIC=cSj6FkjudKYXb7rZriXttwgGsvGLkEhB1YFPoxPxCKRwwDpZZpzA

