Bitcoin Core v0.17 Instructions
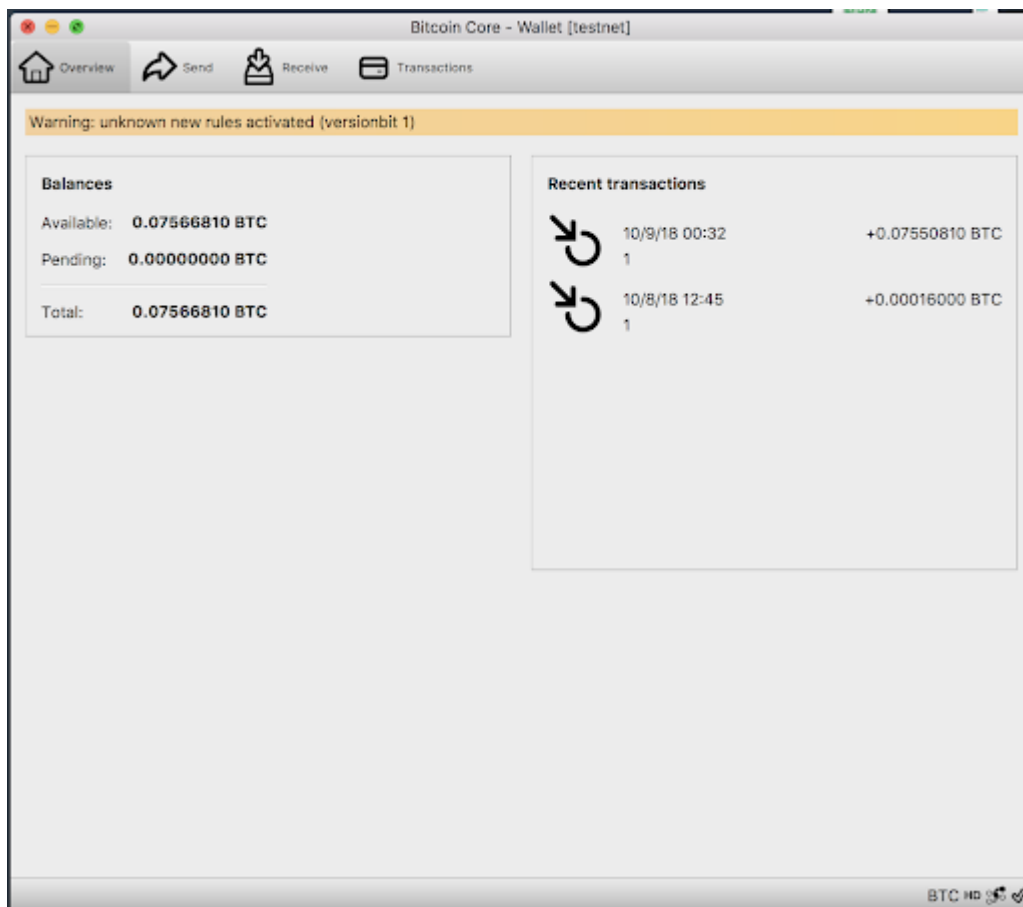
If you are not using Bitcoin Core Version 0.17, you can skip this section.

In this section, we will go over:

- Getting Started with the Debug Console
- Basic Debug Console Commands
- Creating Separate Wallets
- Transferring Coins

We're going through these steps in this version because features have changed in the software since the original recording of the lesson video.

Note 1: These are instructions to transfer money between wallets, if you are using Bitcoin core 0.17.

Note 2: By default, When you open up the Bitcoin software, it creates a default wallet for you.

Note 3: Since we are working on the same software right now, these instructions will show you how to make separate wallets using your same Bitcoin software running.
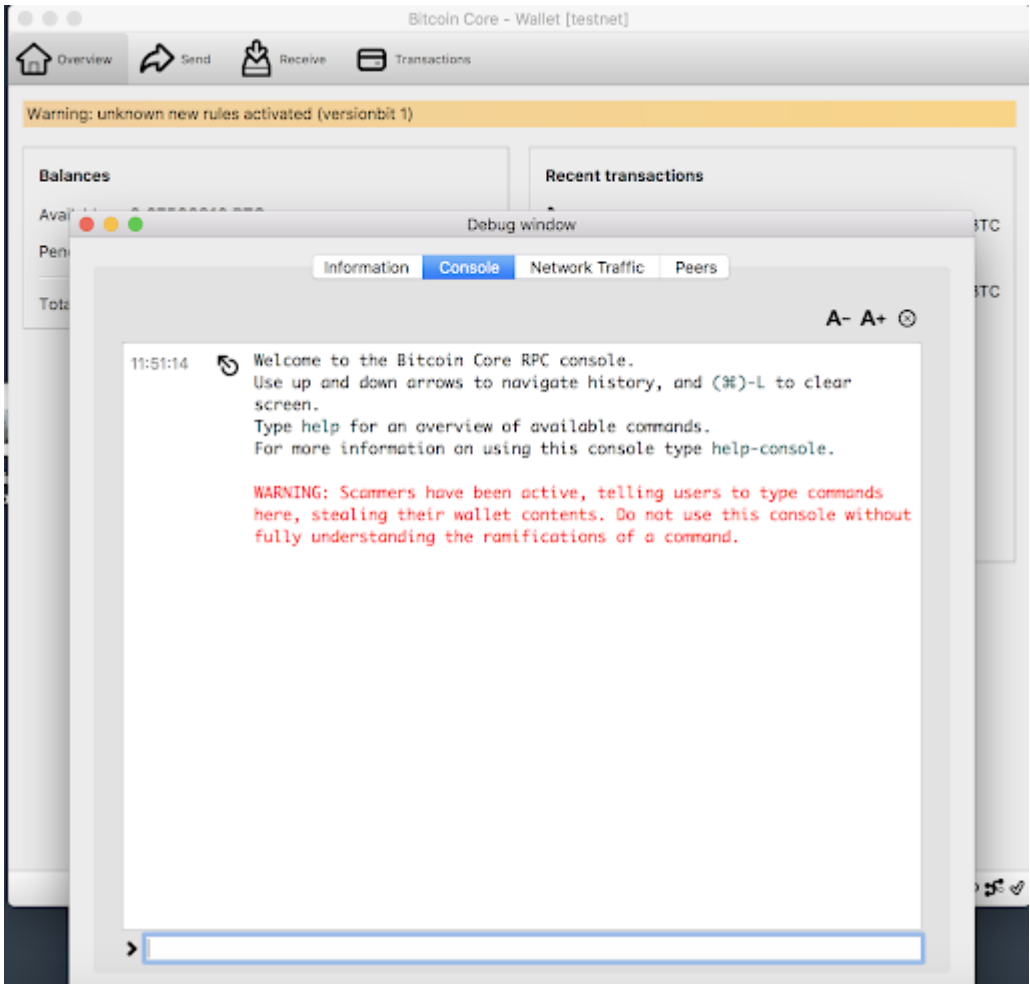
Getting Started with the Debug Console

After installation, you can now access the debug console.

Steps to Open the Debug Console

- Open your Bitcoin software
- Go to HELP
- Select Debug Window
- Click Console

Debug Console Commands

You can type help to look at the commands available to you in the console. Type `help`

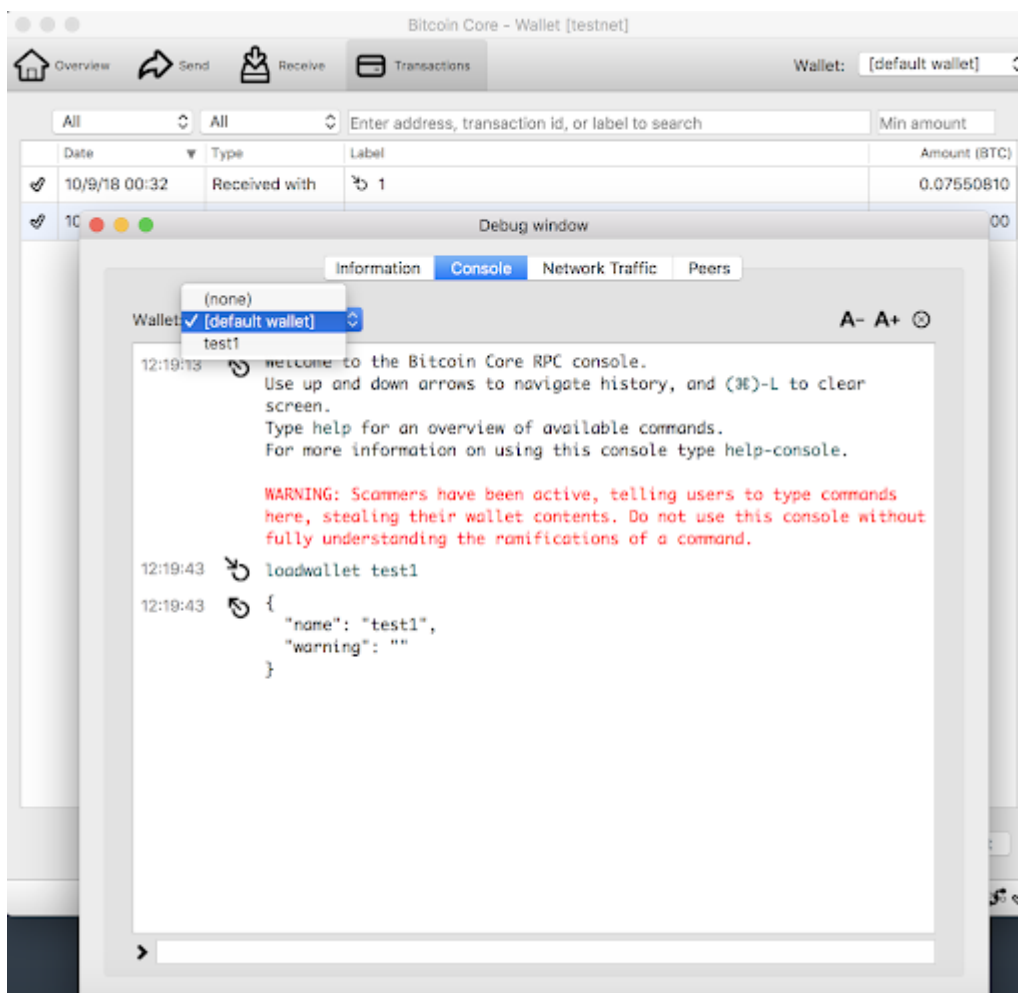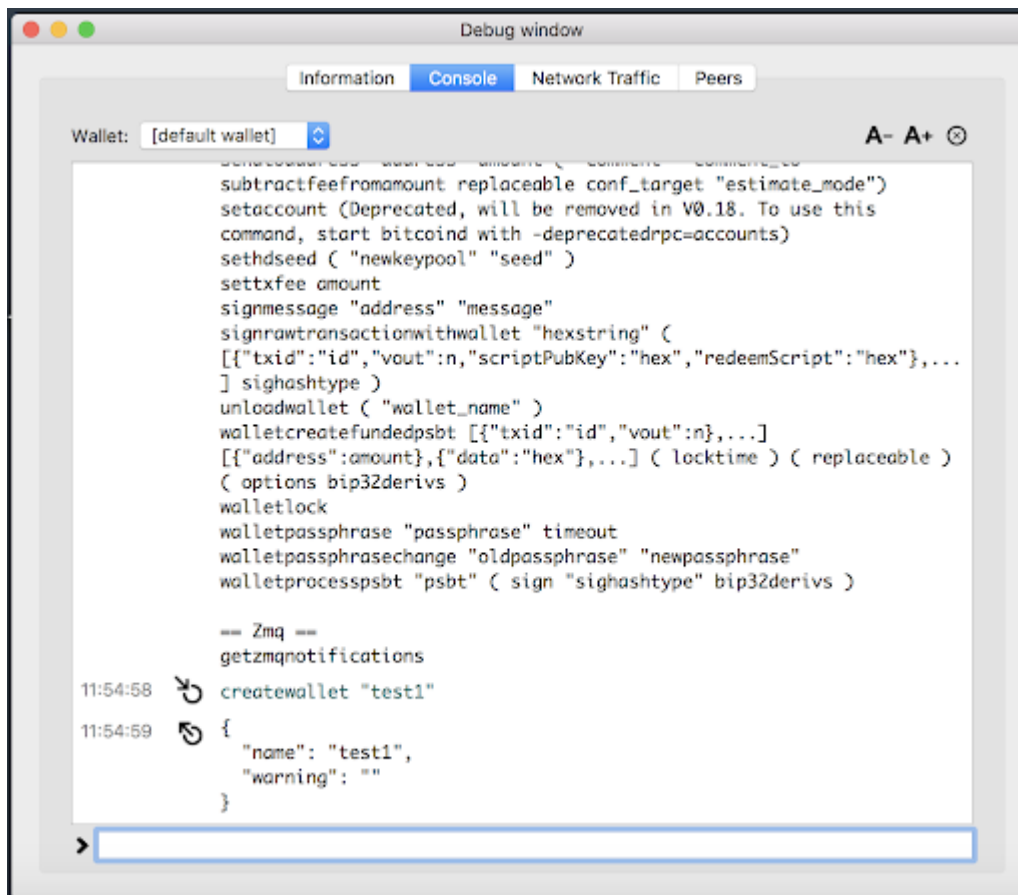

Create Separate Wallets

In this section, we'll create 2 wallets so that we can interact between them.

Command: The command used to create a wallet is: **createWallet < walletName >**

Run this command and choose a name for your wallet. Once you do this, view the top of the screen to see that a wallet has been created for you.

```
                              Debug window

              Information   Console   Network Traffic   Peers

   Wallet:  [default wallet]  ⌄                        A-  A+  ⊗

        subtractfeefromamount replaceable conf_target "estimate_mode")
        setaccount (Deprecated, will be removed in V0.18. To use this
        command, start bitcoind with -deprecatedrpc=accounts)
        sethdseed ( "newkeypool" "seed" )
        settxfee amount
        signmessage "address" "message"
        signrawtransactionwithwallet "hexstring" (
        [{"txid":"id","vout":n,"scriptPubKey":"hex","redeemScript":"hex"},...
        ] sighashtype )
        unloadwallet ( "wallet_name" )
        walletcreatefundedpsbt [{"txid":"id","vout":n},...]
        [{"address":amount},{"data":"hex"},...] ( locktime ) ( replaceable )
        ( options bip32derivs )
        walletlock
        walletpassphrase "passphrase" timeout
        walletpassphrasechange "oldpassphrase" "newpassphrase"
        walletprocesspsbt "psbt" ( sign "sighashtype" bip32derivs )

        == Zmq ==
        getzmqnotifications
11:54:58  ↻  createwallet "test1"
11:54:59  ↺  {
              "name": "test1",
              "warning": ""
          }

  >  [                                                          ]
```

```
                         Bitcoin Core - Wallet [testnet]

  🏠 Overview  ↗ Send  📩 Receive  🗄 Transactions       Wallet:  [default wallet]  ⌄

  All       ⌄  All       ⌄  Enter address, transaction id, or label to search   Min amount

     Date       ▼  Type          Label                              Amount (BTC)
  ✅ 10/9/18 00:32  Received with   ↻ 1                                0.07550810
  ✅ 10  ⚫🟡🟢                    Debug window                              00

              Information   Console   Network Traffic   Peers

        (none)
   Wallet ✓ [default wallet]  ⌄                           A-  A+  ⊗
        test1
12:19:13  ↺  Welcome to the Bitcoin Core RPC console.
             Use up and down arrows to navigate history, and (⌘)-L to clear
             screen.
             Type help for an overview of available commands.
             For more information on using this console type help-console.

             WARNING: Scammers have been active, telling users to type commands
             here, stealing their wallet contents. Do not use this console without
             fully understanding the ramifications of a command.

12:19:43  ↻  loadwallet test1
12:19:43  ↺  {
              "name": "test1",
              "warning": ""
          }

  >  [                                                          ]
```

Next, try creating a second wallet. You'll use this to interact with the first wallet you created.

NOTE: **createWallet** also creates a **walletName.dat** file for you. You can go to this wallet by clicking on it.
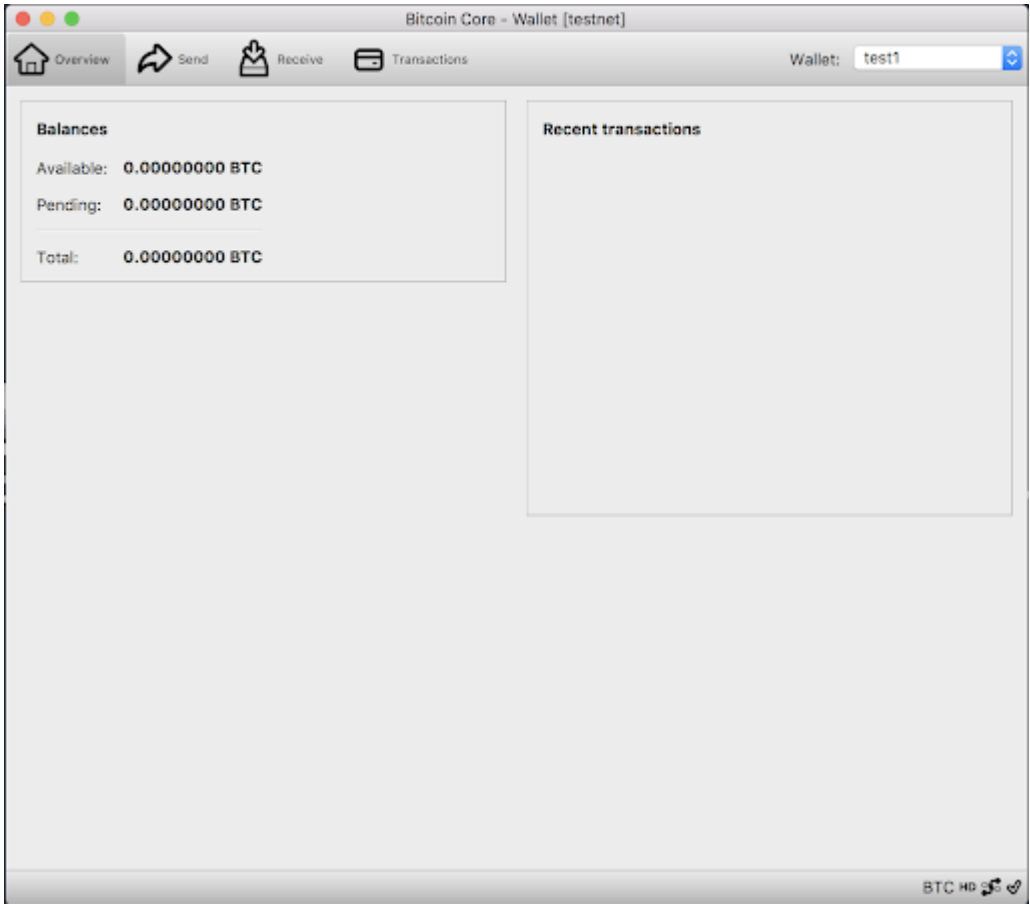
Wallet Debug Console Commands

Now that we have our wallets, we can use the debug console to get more information about each of them. Try running each of these commands to see information about the wallets you created.

- **getWalletInfo**: Gives the wallet information of the currently loaded wallet.
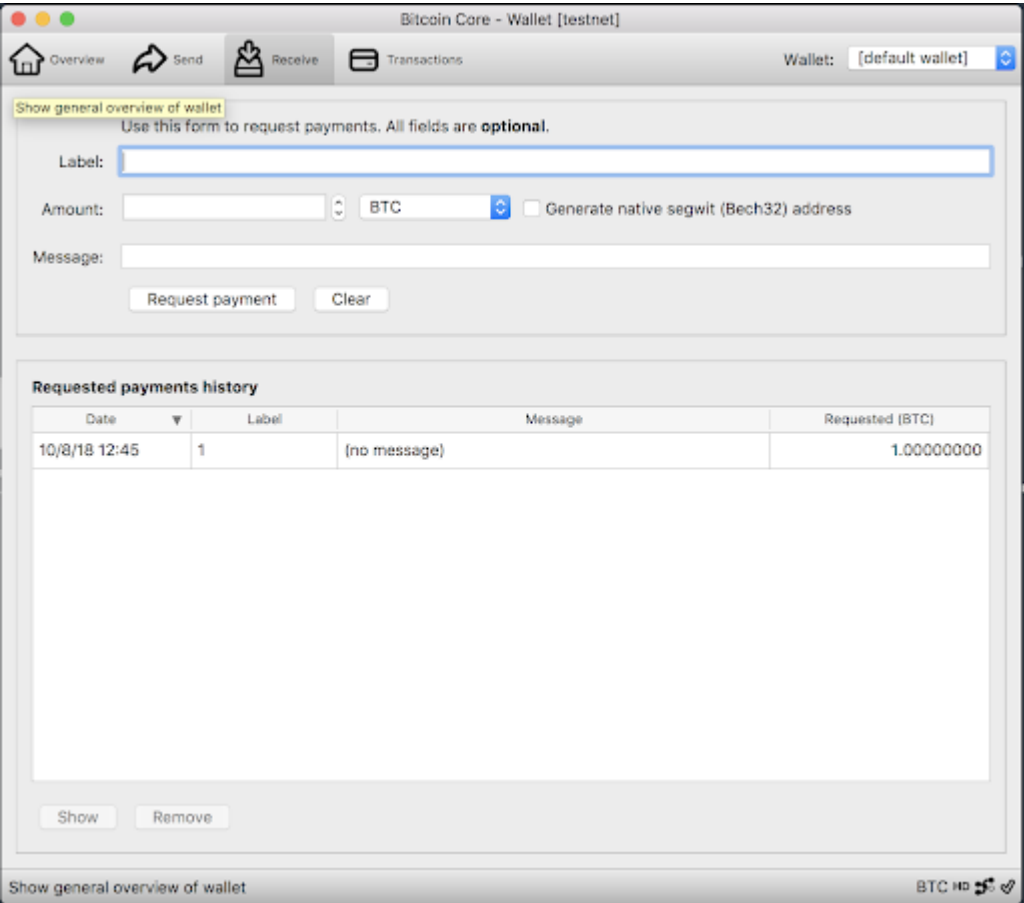- **loadWallet**: Loads the contents of an existing wallet.

Main Screen

After running a few commands in the console, navigate back to the main screen.

When you create a wallet, the bitcoin core software only creates an empty wallet. No addresses are created for you.

You'll need to create a wallet address yourself.

- Click on the **Receive** tab to create an address.
- Now click on **Request Payment**. You can just leave this all empty for now.
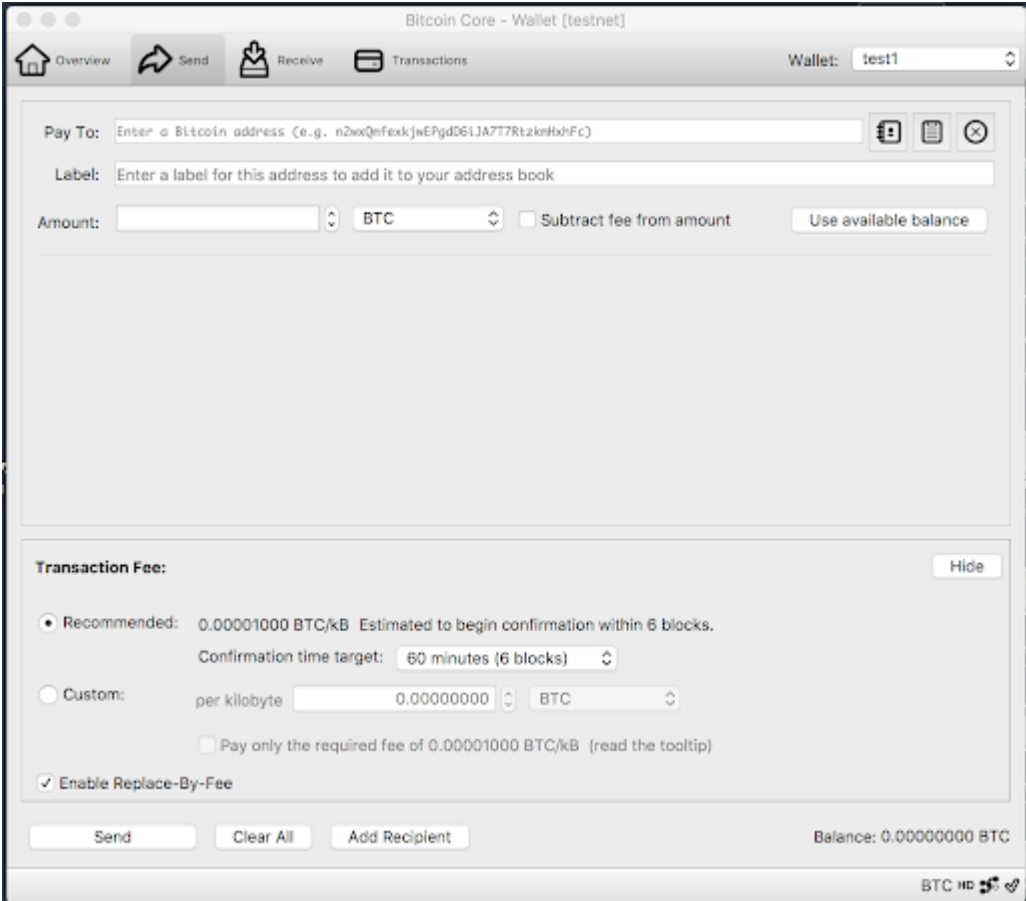- Do this for each wallet.

You should now have an account address for each wallet:

Transfer Coins

After creating addresses for each of the wallets, we can now transfer coins between them.

NOTE: To transfer coins, you'll need to have coins available in the wallet you created. You can get coins into your wallet by using any available testnet faucet.

- Use the **Send** tab to transfer money from one wallet to another.

Conclusion

At this point you have set up 2 wallets and successfully transferred coins between them using the testnet.

You can continue transferring coins and investigating these wallets using the bitcoin core software and debug console.