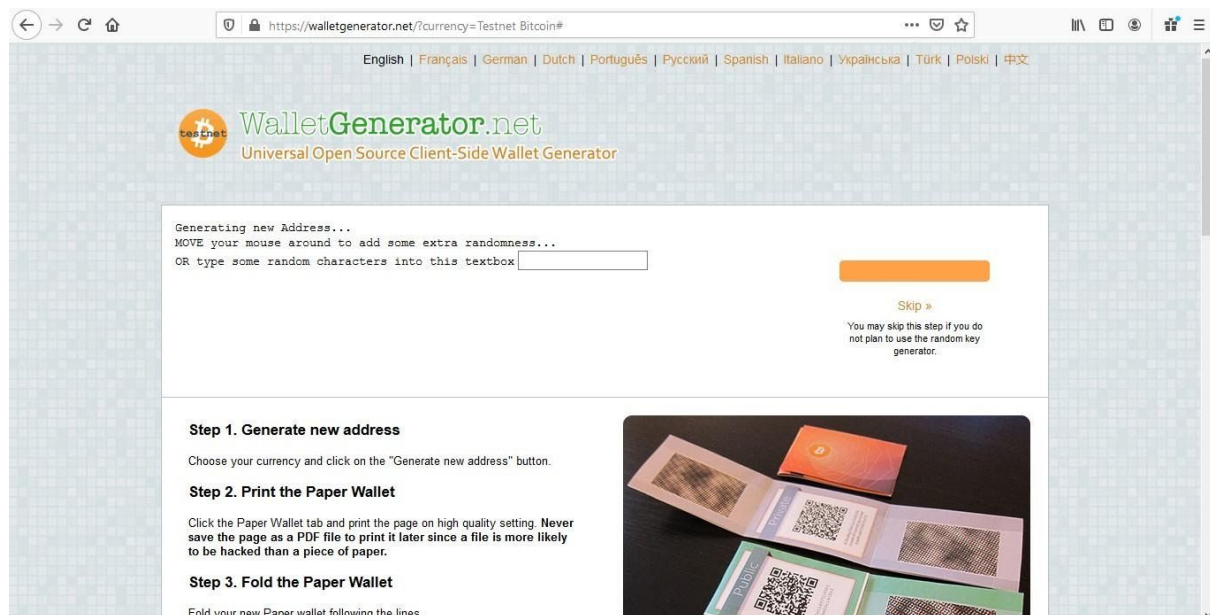


STEP BY STEP GUIDE ON HOW TO CREATE AND BROADCAST A BITCOIN TRANSACTION ON TESTNET

Step-1: To perform a bitcoin transaction first we need to have a wallet. There are many different types of wallet available, in our case we will use a paper wallet.

To create a paper wallet, go to this URL:

<https://walletgenerator.net/?currency=Testnet%20Bitcoin#>




Move your mouse around the screen to generate random keys. You can also enter random letters in the text box.

After successfully generating a wallet keys you will see a similar to below screen.

← → ↻ 🏠 <https://walletgenerator.net/?currency=Testnet Bitcoin#> ... 📄 🌐 🛒 ☰

English | Français | German | Dutch | Português | Русский | Spanish | Italiano | Українська | Türk | Polski | 中文


 **WalletGenerator.net**
Universal Open Source Client-Side Wallet Generator

Choose currency: Testnet Bitcoin

Single Wallet | Paper Wallet | Bulk Wallet | Brain Wallet | Wallet Details | Support

Generate New Address Print


Public Address



SHARE

mkynNP5NzG9QcmF5fBjPQtWctG9NUTgBCR

Private Key (Wallet Import Format)




SECRET

91yJFMLJq8JfJvEybVVB1LgbVr3Nf1GN6TU2ra67d1EUPDbouY8

Step 1. Generate new address
Choose your currency and click on the "Generate new address" button.

Step 2. Print the Paper Wallet
Click the Paper Wallet tab and print the page on high quality settings. *Never*



Share (Left side) is the public key of your wallet and Secret (Right side) is the private key of your wallet. We will need both in future so you can take a screenshot of this screen or take a printout of this.

Step-2: Now to add bitcoin to your wallet, go to this URL:

<https://bitcoinfaucet.uo1.net/send.php>

Now Enter your public key in the text box and enter the amount of bitcoin that you want to transfer in your wallet and click on the “send testnet bitcoin” button.

The screenshot shows the Bitcoin Testnet Faucet website. At the top, it says "Current wallet balance is 479.673. You can get up to 0.00094." Below this is a banner for "DASH Traders Love This Site". The main form has a red arrow pointing to the "BTC Address" input field with the text "Enter Public key Here". Another red arrow points to the "Amount" input field with the text "Amount of bitcoin". The "BTC Address" field contains "mkynNP5NZG9QcmF5fBjpQtWctG9NUTgBCR" and the "Amount" field contains "0.00022". A "Send testnet bitcoins" button is to the right. Below the form, it says "BTC Address" and "Send coins back, when you don't need them anymore: 2NGZrVvZG92qGYqzTljCAewvPZ7JE8S8VxE". There is also a QR code and a "Privacy - Terms" link.

After Successful transaction, your transaction will be added to the list of pending transactions below. As we require some confirmation to transfer bitcoin.

IMPORTANT: Kindly note down your transaction id.

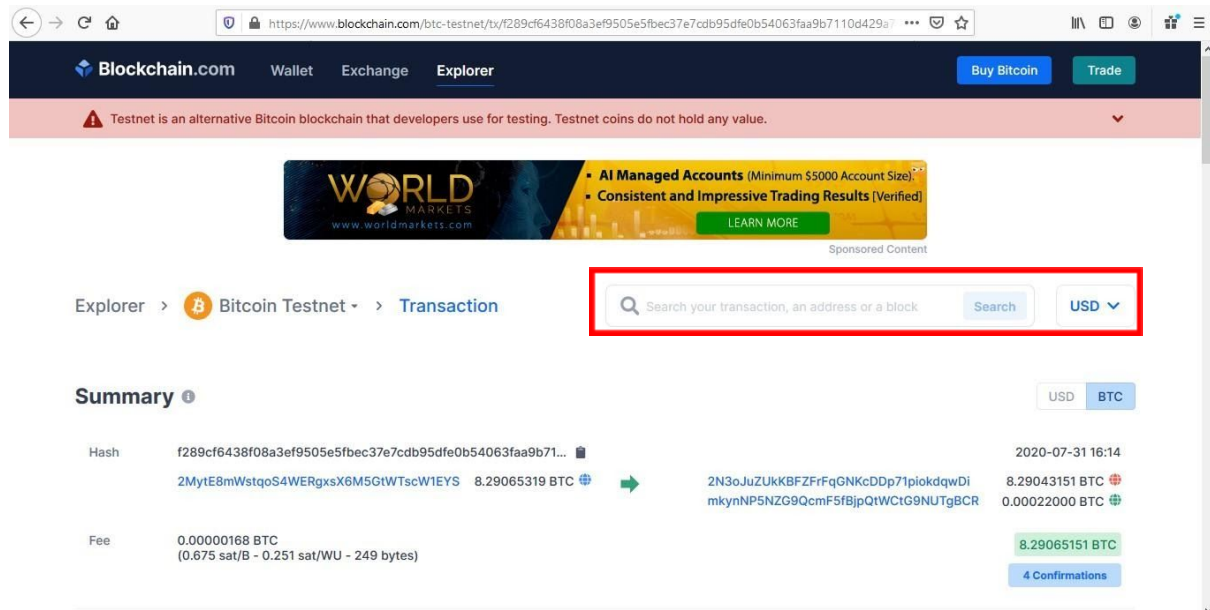
The screenshot shows the Bitcoin Testnet Faucet website after a transaction. The "BTC Address" field still contains "mkynNP5NZG9QcmF5fBjpQtWctG9NUTgBCR" and the "Amount" field contains "0.0001". The "Send testnet bitcoins" button is still present. Below the form, it says "BTC Address" and "Send coins back, when you don't need them anymore: 2NGZrVvZG92qGYqzTljCAewvPZ7JE8S8VxE". There is also a QR code. Below the QR code, it says "Last Transactions". A red box highlights the first transaction, which is "pending". A red arrow points to the "Transaction ID" field of this transaction, which contains "f289cf6438f08a3ef9505efbec37e7cdb95df0b54063faa9b7110d439a773a". The transaction amount is "-0.00022" and the fee is "0.00000168 fee". Below this, there is another transaction with ID "198513734724e2d922d539cacc3cd30f65c90163c97c6e0126d605c48ce136d8", amount "-0.00094", and fee "0.00000168 fee".

It will take around 25-30 mins to get confirmation. After receiving the confirmation, amount will be added into your account.

Step-2(a): To check balance in your account, go to this URL:

<https://www.blockchain.com/btc-testnet/blocks>

And enter your transaction id in the search block.



The screenshot shows the Blockchain.com Bitcoin Testnet Explorer interface. The URL in the browser is <https://www.blockchain.com/btc-testnet/tx/f289cf6438f08a3ef9505e5fbec37e7c9b95dfe0b54063faa9b7110d429a7>. The page has a dark blue header with navigation links: Blockchain.com, Wallet, Exchange, and Explorer. A red banner below the header states: "Testnet is an alternative Bitcoin blockchain that developers use for testing. Testnet coins do not hold any value." Below this is a sponsored advertisement for "WORLD MARKETS". The main content area shows the Explorer path: Explorer > Bitcoin Testnet > Transaction. A search bar is highlighted with a red box, containing the text "Search your transaction, an address or a block". Below the search bar is a "Summary" section with a table of transaction details. The table has two columns: "From" and "To". The "From" column shows the hash "f289cf6438f08a3ef9505e5fbec37e7c9b95dfe0b54063faa9b71..." and the amount "8.29065319 BTC". The "To" column shows the address "2N3oJuZUkKBFZFrqGNKcDDp71piokdqwDI" and the amount "8.29043151 BTC". The "Fee" section shows "0.00000168 BTC (0.675 sat/B - 0.251 sat/WU - 249 bytes)". The "Confirmations" section shows "4 Confirmations".

Hash	Amount
f289cf6438f08a3ef9505e5fbec37e7c9b95dfe0b54063faa9b71...	8.29065319 BTC
2N3oJuZUkKBFZFrqGNKcDDp71piokdqwDI	8.29043151 BTC

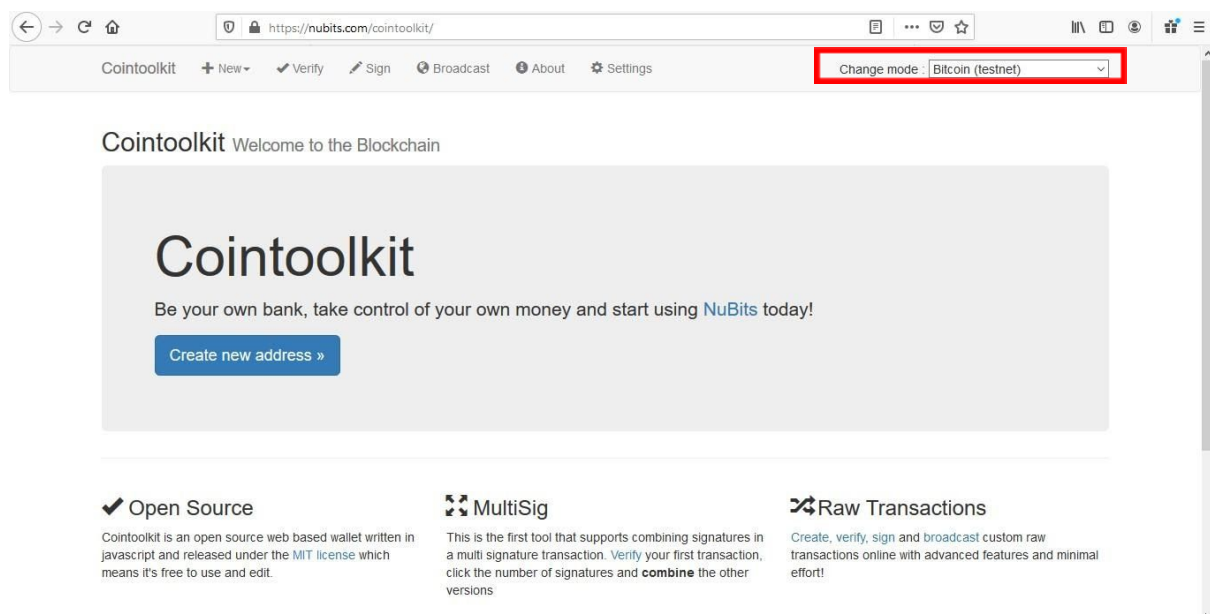
Fee: 0.00000168 BTC (0.675 sat/B - 0.251 sat/WU - 249 bytes)

Confirmations: 4

Step-3: Now we have bitcoin in our wallet. To send them to other account or to spend them, go to this URL:

<https://nubits.com/cointoolkit/>

Click change the mode to “Bitcoin(testnet)”



The screenshot shows the Cointoolkit website. The URL in the browser is <https://nubits.com/cointoolkit/>. The page has a dark blue header with navigation links: Cointoolkit, New, Verify, Sign, Broadcast, About, and Settings. A red box highlights the "Change mode" dropdown menu, which is currently set to "Bitcoin (testnet)". Below the header is a large grey box with the text "Cointoolkit Welcome to the Blockchain" and "Be your own bank, take control of your own money and start using NuBits today!". Below this is a button that says "Create new address >". At the bottom of the page are three sections: "Open Source", "MultiSig", and "Raw Transactions".

Change mode: Bitcoin (testnet)

Cointoolkit Welcome to the Blockchain

Be your own bank, take control of your own money and start using NuBits today!

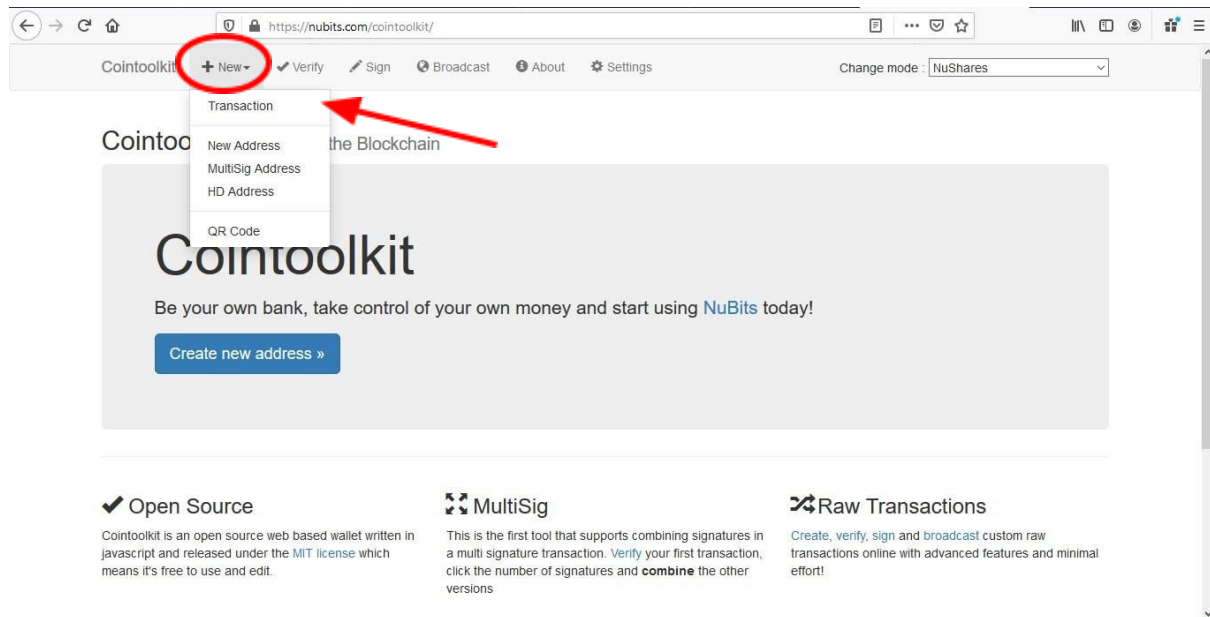
Create new address >

Open Source
Cointoolkit is an open source web based wallet written in javascript and released under the MIT license which means it's free to use and edit.

MultiSig
This is the first tool that supports combining signatures in a multi signature transaction. Verify your first transaction, click the number of signatures and combine the other versions

Raw Transactions
Create, verify, sign and broadcast custom raw transactions online with advanced features and minimal effort!

Step-4: Now Click on “New” and click “Transaction”



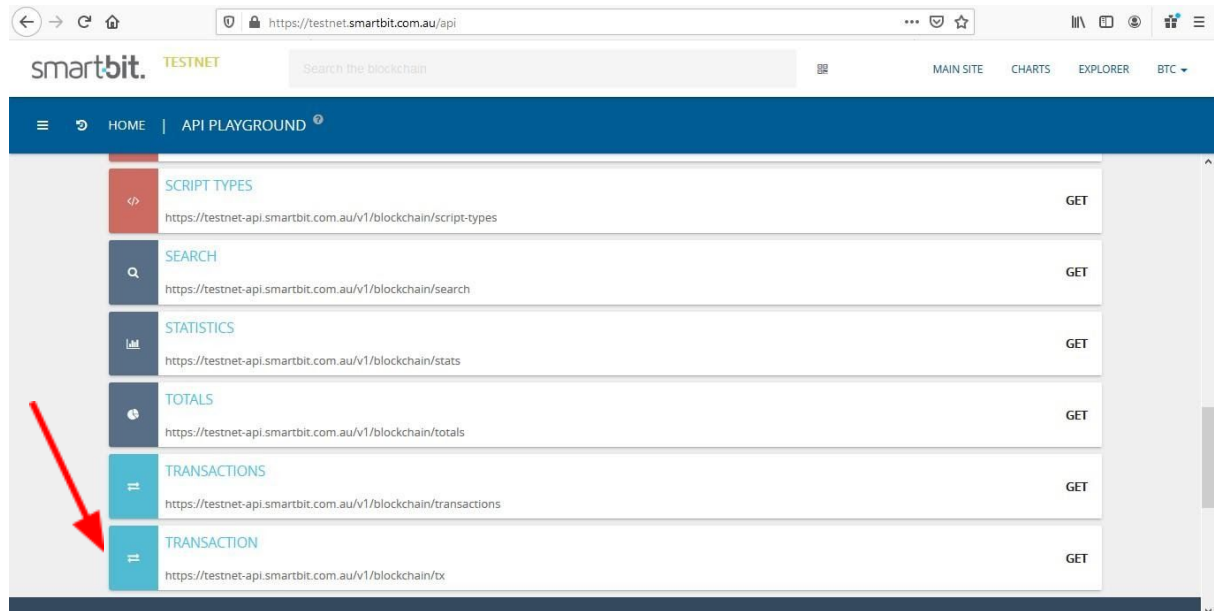
Step-5: To perform transaction, we need some other data as shown in below figures:

- a) Public key of receiver
- b) Our transaction id
- c) Value of n
- d) script

Step-6: To get the parameters of input go to this URL:

<https://testnet.smartbit.com.au/api>

Go to the end of the page and click on “TRANSACTION” tab.



Step-6(a): Go to the “PARAMETERS” tab and enter your transaction id that we noted earlier and click on the “GET” button.

The screenshot shows the smartbit API Playground interface. The browser address bar displays `https://testnet.smartbit.com.au/api`. The page has a navigation bar with "HOME" and "API PLAYGROUND" tabs. The "TRANSACTION" section is active, showing the URL `https://testnet-api.smartbit.com.au/v1/blockchain/tx`. The "PARAMETERS" tab is selected and highlighted with a red box. Below the tabs, there are two columns: "Required:" and "Optional:". Under "Required:", the "Transaction ID:" field contains the long hexadecimal string `289cf6438f08a3ef9505e5fbec37e7cdb95dfe0b54063faa9b7110d429a773a`, which is also highlighted with a red box. A red arrow points to this field with the text "Enter Your Transaction Id Here". Under "Optional:", there are checkboxes for "Multi-Transaction:", "OP_RETURNS:", and "HEX:". A "RESET" button is located to the right of these options. At the bottom, the "cURL:" field shows the full API endpoint with the transaction ID. A large blue "GET" button is at the bottom right, with a red arrow pointing to it.

Step-6(b): In the Response section, Find the transaction id in the below figure: “txid” field will be your transaction id.

The screenshot shows the "RESPONSE" section of the API Playground. It displays a JSON object with the following fields: `"success": true`, `"transaction": {`, `"txid": "289cf6438f08a3ef9505e5fbec37e7cdb95dfe0b54063faa9b7110d429a773a"` (highlighted with a red box), `"hash": "5f8b291a373e829e3db71a1989f0586280690a43868baf75bbd7eb95103bfea4"`, `"block": 1782017`, `"confirmations": 4`, `"version": "2"`, `"locktime": 1782016`, `"time": 1596193453`, `"first_seen": 1596192277`, `"propagation": null`, `"double_spend": false`, `"size": 249`, `"vsize": 168`, `"input_amount": "8.29065319"`, `"input_amount_int": 829065319`, `"output_amount": "8.29065151"`, `"output_amount_int": 829065151`, `"fee": "0.00000168"`, `"fee_int": 168`, `"fee_size": "1.00000000"`, `"coinbase": false`, `"input_count": 1`, and `"inputs": [`.

Step-6(c): Now scroll down to the output section and find the field that represents your transaction. In our case we transfer the 0.00022000 bitcoin to our account that is the second pain in the output section.

```
    },
    "output_count": 2,
    "outputs": [
      {
        "addresses": [
          "2N3oJuZUKKBFZFrFqGNKcDDp71piokdqw0i"
        ],
        "value": "8.29043151",
        "value_int": 829043151,
        "n": 0,
        "script_pub_key": {
          "asm": "OP_HASH160 73c2aca744446d480717b728dbb64073b64dee83 OP_EQUAL",
          "hex": "a91473c2aca744446d480717b728dbb64073b64dee8387"
        },
        "req_sigs": 1,
        "type": "scripthash",
        "spend_txid": "b400733f023d79b10bc1364b4e2ec88fd5444f523aedd276dd38d4fe2fb949"
      },
      {
        "addresses": [
          "mkynNP5NZG9QcmF5fBjPQtKtGmUTgBCR"
        ],
        "value": "0.00022000",
        "value_int": 22000,
        "n": 1,
        "script_pub_key": {
          "asm": "76a9143beb9318a7c34191bd9b1f133768e8bb818a30f88ac OP_EQUALVERIFY OP_CHECKSIG",
          "hex": "76a9143beb9318a7c34191bd9b1f133768e8bb818a30f88ac"
        }
      }
    ]
  }
}
```

This is the value that transferred in our account

Value of n

Value for script field

Step-7: Now we have all the values that are required, so now put these values in the respective field.

So, output will be as shown in below picture:

Lock Time
The locktime indicates the earliest time a transaction can be added to the block chain.

Network
The settings page can be used to select alternative networks of which you can retrieve your unspent outputs and broadcast a signed transaction into.

Outputs (0.00021000) Inputs (0.00000000)

Enter the address and amount you wish to make a payment to.

Address: 2NGZrVvZG92qGYqzTLjCAewvPZ7JE8S8VxE
Amount: 0.00021000
Identity: +

Transaction Fee: 0.00

Generate

This page uses javascript to generate your addresses and sign your transactions within your browser, this means we never receive your private keys, this can be independently verified by reviewing the source code on [github](#). You can even [download](#) this page and host it yourself or run it offline!

Donations accepted here

And input will become as shown in below figure:

Lock Time
The locktime indicates the earliest time a transaction can be added to the block chain.

Network
The settings page can be used to select alternative networks of which you can retrieve your unspent outputs and broadcast a signed transaction into.

Outputs (0.00021000) Inputs (0.00022000)

Enter the details of inputs you wish to spend.

Transaction ID: 438f08a3ef9505e5fbec37e7cd95dfe0b54063faa9b7110d429a773a
N: 1
Script: 191bdb9b1f133768e0bb618e30f88ac
Amount: 0.00022000 + -

Transaction Fee: 0.00001000

Generate

This page uses javascript to generate your addresses and sign your transactions within your browser, this means we never receive your private keys, this can be independently verified by reviewing the source code on [github](#). You can even [download](#) this page and host it yourself or run it offline!

Donations accepted here

Note: As we want to transfer whole money, so we put 0.00022000 in the input amount field and 0.00021000 in output amount field and 0.00001000 is the fee.

Step-8: Now Click on Generate button and will see something as shown in below figure:

The screenshot shows a web browser window with the URL <https://nubits.com/cointoolkit/#newTransaction>. The interface includes tabs for 'Outputs (0.00021000)' and 'Inputs (0.00022000)'. Below these, a form prompts the user to 'Enter the address and amount you wish to make a payment to.' with fields for 'Address' (containing '2NGZrVVZG92qGYqzTLjCAewvPZ7JE8S8VxE'), 'Amount' (containing '0.00021000'), and 'Identity'. A 'Transaction Fee' field is set to '0.00001000'. A 'Generate' button is located at the bottom left. The main section, titled 'Transaction', displays a long hexadecimal string: '01000000013a779a420d11b7a9fa6340b5e0df95db7c7ec3be5f5e50f93e8a03864cf89f2010000001976a9143beb931847c34191bdb9b1f133768e0bb818e30f88acffffff0108520000000000000017a914ffd0dbb44402d5f8f12d9ba5b484a2c1bb47da428700000000'. Below the string, it indicates 'Size: 108 bytes'. A 'Continue to Sign' button is on the right. A disclaimer at the bottom states: 'This page uses javascript to generate your addresses and sign your transactions within your browser, this means we never receive your private keys, this can be independently'.

Now Click on “Continue to Sign” button to sign the transaction.

Step-9: To sign the transaction you need to enter your private key that we captured when we created our wallet. Now click on “Sign” button.

The screenshot shows the Cointoolkit website interface for signing a transaction. The browser address bar shows `https://nubits.com/cointoolkit/#sign`. The navigation bar includes links for Cointoolkit, New, Verify, Sign, Broadcast, About, and Settings. A dropdown menu for 'Change mode' is set to 'Bitcoin (testnet)'. The main heading is 'Sign Transaction' with a subtext 'once a transaction has been verified'. Below this, it says 'Once you have verified a transaction you can sign and then broadcast it into the network.' The 'Private key' section has a text input field with a 'Show' button. A red arrow points to the input field with the text 'Put your private key here'. Below the input field, a long hexadecimal string is displayed. At the bottom, there is a 'Sign' button and a disclaimer: 'This page uses javascript to generate your addresses and sign your transactions within your browser, this means we never receive your private keys, this can be independently verified by reviewing the source code on github. You can even download this page and host it yourself or run it offline!'. A footer link 'Donations accepted here' is also present.

Sign Transaction once a transaction has been verified

Once you have verified a transaction you can sign and then broadcast it into the network.

Private key

Put your private key here

0100000013a779a420d11b7a9fa6340b5e0df95db7c7ec3be5f5e50f93e8af03864cf89f2010000001976a9143beb931847c34191bdb9b1f133768e0bb818e30f88acffffffff01085200000000000017a914ffdd0dbb44402d5f8f12d9ba5b484a2c1bb47da428700000000

Sign

This page uses javascript to generate your addresses and sign your transactions within your browser, this means we never receive your private keys, this can be independently verified by reviewing the source code on github. You can even download this page and host it yourself or run it offline!

Donations accepted [here](#)

Step-10: After clicking the sign button you will see something like below screen. This website will not broadcast your transaction. To broadcast transaction we need to go to another side and we need to copy the raw transaction.

Sign Transaction once a transaction has been verified

Once you have verified a transaction you can sign and then broadcast it into the network.

Private key

..... Show

01000000013a779a420d11b7a9fa6340b5e0df95db7c7ec3be5f5e50f93e8af03864cf89f2010000001976a9143beb931847c34191bdb9b1f133768e0bb818e30f88acffffff010852000000000000017a914f1d0dbb44402d5f8f12d9ba5b484a2c1bb47da428700000000

Raw Transaction

Signed transaction

The above transaction has been signed:

01000000013a779a420d11b7a9fa6340b5e0df95db7c7ec3be5f5e50f93e8af03864cf89f2010000008a473044022047c6cbd9eae1d4711274df173635ead6c9e6b4f2a225f062163e1421c35bc4a022059ae3fb80a904f1d194e1362a345c683d05c54fa0eb0560155f4413fa3a4da4014104a2ea4faa7c805b4f673abf0c0c15ebcc3b0e44da3bb9b9646ca39b54c006a8988d906ea893fd6c4da36e4cc2e0968f5adb4ca2e9b310a75a95c5564105a8b6fbffffff01085200000000000000017a914f1d0dbb44402d5f8f12d9ba5b484a2c1bb47da428700000000

Size: 221 bytes

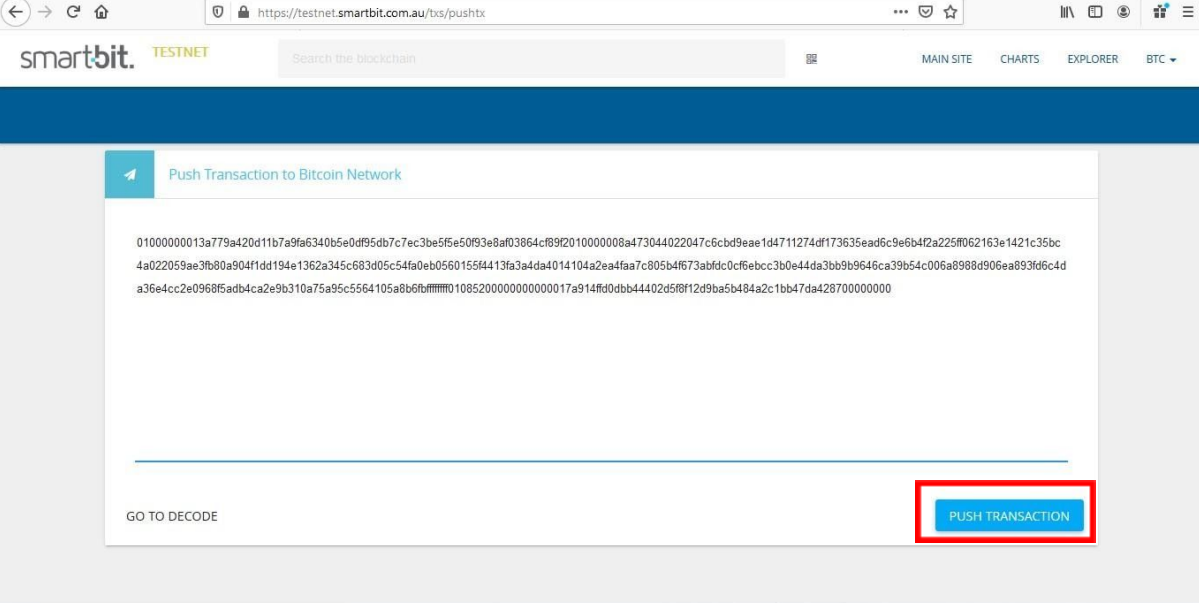
Verify ✓ and share Or Broadcast

Sign

Step-11: Now go to this URL:

<https://testnet.smartbit.com.au/txs/pushtx>

And paste your raw transaction here and click on “PUSH TRANSACTION” button.



The screenshot shows a web browser window with the URL <https://testnet.smartbit.com.au/txs/pushtx>. The page is titled "Push Transaction to Bitcoin Network". It features a large text input field containing a long hexadecimal string representing a raw transaction. Below the input field, there is a "GO TO DECODE" link on the left and a "PUSH TRANSACTION" button on the right, which is highlighted with a red rectangular border.

smartbit. TESTNET Search the blockchain

MAIN SITE CHARTS EXPLORER BTC

Push Transaction to Bitcoin Network

01000000013a779a420d11b7a9fa6340b5e0df95db7c7ec3be5f5e50f93e8af03864cf89f2010000008a473044022047c6cbd9eae1d4711274df173635ead6c9e6b4f2a225f062163e1421c35bc4a022059ae3fb80a904f1dd194e1362a345c683d05c54fa0eb0560155f4413fa3a4da014104a2ea4faa7c805b4f673abfbc0cf6ebcc3b0e44da3bb9b9646ca39b54c006a8988d906ea893fd6c4da36e4cc2e0968f5adb4ca2e9b310a75a95c5564105a8b6fbf01085200000000000017a914fdd0dbb44402d5f8f12d9ba5b48a2c1bb47da428700000000

GO TO DECODE

PUSH TRANSACTION

Step-12: You successfully performed the transaction. To check you can click on the link provided on the screen.

