

Hedera Testnet Setup Guide

Quick Setup (5 minutes)

Step 1: Get Your Free Testnet Account

- 1. Visit Hedera Portal: https://portal.hedera.com/register
- 2. Create Account: Sign up with email (it's free)
- 3. Go to Testnet Section: After login, click on "Testnet" in the dashboard
- 4. Create Testnet Account: Click "Create Testnet Account"
 - You'll automatically get 10,000 test HBAR (free testnet tokens)
 - Save your **Account ID** (format: 0.0.1234567)
 - Save your Private Key (keep this secret!)

Step 2: Add Credentials to Your App

- 1. Open src/config/hedera.config.ts
- 2. Replace the placeholder values:

```
export const HEDERA_TESTNET_CREDENTIALS = {
  // Replace with your actual testnet account ID from Step 1
  ACCOUNT_ID: '0.0.6566992',
  // Replace with your testnet private key from Step 1
  PRIVATE KEY:
'0x0b31261b447e9ea6288c3db9544168dc851ec2b68bddecc62e67673bf5f784f4',
  EVM_ADDRESS: '0x5d3de7f761451cbcbab2d95e8eca3a833d0927c4',
  // Keep other settings as is
 NETWORK: 'testnet',
 MAX_TRANSACTION_FEE: 100,
};
```

Step 3: Test Your Connection

- 1. Restart your app: npx expo start --clear
- 2. When you submit data to a bounty, you'll see:
 - 🎉 REAL TRANSACTION SUBMITTED TO HEDERA TESTNET!
 - A real transaction ID that works on HashScan
 - Your actual account balance

What Happens When Connected?

- Real Transactions: Your health data submissions create real blockchain transactions
- HashScan Links Work: Transaction IDs link to actual explorer pages

- HCS Messages: Metadata stored on Hedera Consensus Service
- Free Testing: Testnet HBAR has no real value test as much as you want!

Transaction Types

The app uses **Hedera Consensus Service (HCS)** for storing NFT metadata:

- Creates a topic for health data
- Each submission sends a message to the topic
- · Messages are immutable and timestamped
- Perfect for health data provenance

Verify Your Transactions

After submitting data:

- 1. Copy the transaction link
- 2. Visit HashScan: https://hashscan.io/testnet
- 3. Search for your transaction ID
- 4. You'll see the real blockchain record!

Troubleshooting

"Transaction failed" Error

- Check your account has HBAR balance
- · Verify credentials are correct in config file
- Make sure you're using testnet (not mainnet) credentials

- Private key should start with 302e... (DER format) or 0x... (hex)
- Account ID format: 0.0.1234567 (three parts separated by dots)

Need More Test HBAR?

- Testnet accounts start with 10,000 HBAR
- If you run out, create a new testnet account (it's free)
- Or use the Hedera faucet for refills

Security Notes

- ⚠ NEVER share your mainnet private keys
- ▼ Testnet keys are safe to use for testing
- For production, use secure key management services

Next Steps

1. Connect funded account

PROFESSEUR : M.DA ROS

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[&]quot;Invalid credentials format"

- 2. V Submit real transactions
- 3. Q View on HashScan explorer
- 4. of Test bounty submissions
- 5. 🖋 Ready for mainnet (when you want real value)

Links

- Get Account: https://portal.hedera.com/
- Explorer: https://hashscan.io/testnet
- **Documentation**: https://docs.hedera.com/
- Faucet: https://portal.hedera.com/faucet

4 3 / 3 **4**

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