## Thiết lập RegTest

```
PS C:\Users\piece> bitcoind -regtest -server -fallbackfee="0.0002" -maxfeerate="0.5"
Error: Error parsing command line arguments: Invalid parameter -maxfeerate=0.5
PS C:\Users\piece> bitcoind -regtest -server -fallbackfee="0.0002"
2025-10-08T06:46:22Z Bitcoin Core version v28.1.0 (release build)
2025-10-08T06:46:22Z Script verification uses 15 additional threads
2025-10-08T06:46:22Z Using the 'x86_shani(1way,2way)' SHA256 implementation
2025-10-08T06:46:22Z Using RdSeed as an additional entropy source
2025-10-08T06:46:22Z Using RdRand as an additional entropy source
2025-10-08T06:46:22Z Default data directory C:\Users\piece\AppData\Local\Bitcoin
2025-10-08T06:46:22Z Using data directory C:\Users\piece\AppData\Local\Bitcoin\regtest
2025-10-08T06:46:22Z Config file: C:\Users\piece\AppData\Local\Bitcoin\bitcoin.conf (not found, skipping)
2025-10-08T06:46:22Z Command-line arg: fallbackfee="0.0002"
2025-10-08T06:46:22Z Command-line arg: regtest=""
2025-10-08T06:46:22Z Command-line arg: server=""
2025-10-08T06:46:22Z Using at most 125 automatic connections (2048 file descriptors available)
2025-10-08T06:46:22Z scheduler thread start
2025-10-08T06:46:22Z Binding RPC on address ::1 port 18443
2025-10-08T06:46:22Z Binding RPC on address 127.0.0.1 port 18443
2025-10-08T06:46:22Z Using random cookie authentication.
2025-10-08T06:46:22Z Generated RPC authentication cookie C:\Users\piece\AppData\Local\Bitcoin\regtest\.cookie
2025-10-08T06:46:22Z Permissions used for cookie: rw-rw-rw-
2025-10-08T06:46:22Z Starting HTTP server with 4 worker threads
2025-10-08T06:46:22Z Using wallet directory C:\Users\piece\AppData\Local\Bitcoin\regtest\wallets
2025-10-08T06:46:22Z init message: Verifying wallet(s)…
2025-10-08T06:46:22Z Using /16 prefix for IP bucketing
2025-10-08T06:46:22Z init message: Loading P2P addresses…
2025-10-08T06:46:22Z Loaded 1 addresses from peers.dat  0ms
2025-10-08T06:46:22Z init message: Loading banlist…
2025-10-08T06:46:22Z SetNetworkActive: true
```

## Khởi tạo 2 miners + 2 users

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\piece> bitcoin-cli -regtest createwallet "miner1"
{
  "name": "miner1"
}
PS C:\Users\piece> bitcoin-cli -regtest createwallet "miner2"
{
  "name": "miner2"
}
PS C:\Users\piece> bitcoin-cli -regtest createwallet "user1"
{
  "name": "user1"
}
PS C:\Users\piece> bitcoin-cli -regtest createwallet "user2"
{
  "name": "user2"
}
PS C:\Users\piece> |
```

Miner1 sinh Block



```
PS C:\Users\piece> $miner1_add = bitcoin-cli -regtest -rpcwallet=miner1 getnewaddress
PS C:\Users\piece> $miner1_add
bcrt1qwz9004u7cv9mwla0d4nld484rg4vwlhxnqdpun
PS C:\Users\piece> bitcoin-cli -regtest generatetoaddress 100 $miner1_add
[
  "3ea9172f93a99e8037c764d41d37083b7ecd26e684e35c5ab03f92240355b95a",
  "407f913ecdad18ae7b859f2f66a21ad3934097a361cd50b2edee0e6dcb110f8e",
  "1306b4d198d5f84227acce2ff3f69fd3e5e89e2fc9b9f22a4d96d764398ad729",
  "26ba3c76a2297c042091b7b37d06fa3e60fa8848255ea15faf8128c0cc6bf3ed",
  "34b7ffbd5afb3e77e0617f7d9cbbc98f47857f6583a0e7c12a34aafb2c0d2200",
  "1aa238856c0e066d15c1bb2fc475ea78b06f99ac06e34471e50f14bec525daa6",
  "401e304228815b40cb4d860246959ef8a8d6501b011d51115ad88004c4bd4ea4",
  "735d2ac85e1c815f740642d8709416ffca2f0f2f5e7544889334b03c554606ef",
  "702f82a4ca388655ebba53570c552656010393d8c6b1a37cabbd4a1a589f43bc",
  "56993d75dad54128b63f1ef72c21f9f88a29d663bda66be4a8e696c7e58c566d",
  "2723f01cd63f3f5416925d447f0ff355f7443dc335a265f0f3440dee4e31d97c",
  "3c6f46f9163c368bd7d82c54b9364e84ecb42401c7da2d29fd9c00d86744cacd",
  "7139595df1a43601e00320166300a1dbc3f4ef832e936e28d7d490e838175e7e",
  "0db04f078576df78461b387a60469c2a749072b9b10708d8f57233af8d866adb",
  "13f13a608fd540e939b8e6e1ae48ec7613650cce099d697f806d71477b4ce55e",
  "568c9ba1e7105d7ce4797d551ae01984f36cb8e8b1a097f256c7f9d928a353b8",
  "005e76f1797b16c23367cda4903c244f8fba88858b20cd0bd7403cabff16e0f7",
  "650655e607b8d7da8db63e36929ee33d3190d52ba58a5350f3beb429b443f6c8",
  "364f835db411bd7caba78045f47f6f33496f739add7faa1b74b3c8b88d88c83c",
  "281d62f4d0bdc0c41635998c66562b7e6cb8d9193d30a75229f49c5d7fc42597",
  "044736a36238664220ea3de57032504a81996eedfd221658ca3b6202c368556a",
  "30b207316717911d9d3aea4b6b95f6070fed2fb9490d5a72afceda55b16531d6",
  "5a834c5612d4d184b7b024de68d5a3f485a948a75ad122fb687416562803edda",
  "0320ffa4086e8077dc7e4d83b6ddff5c24663ba48e4205e979185102f137fb72",
  "715a3eb4b7baf8d5f4a6b879792399834b68bce8cd2be636694f56858c6167f9",
```

Kiểm tra số dư của miner1



```
  "7e46924f9144d182afe6f2cfe801b9c92f7e6d5af32a490680d14d4e025f0d84",
  "21f343913d8f2dba1e272448f79f661915b69b43bfbbc9a2a87bfd393bc32669",
  "1263462615340cb9756008fc243d2f7843c94dcf29ecae2173137b5ddabdd3c5",
  "45d82fc6ad00888f257ac8f2f4ecebd8425c88d83dc2d94b042d2fc2295ff4be",
  "4308e24ccc0f536cd557064e1559e68b59da5ede3bf6d03009fd94dbf41d6d42",
  "694ec199d4fa19adb6a487e38904dfd11c37020741b3690413ac7eb1a1f9ce9e",
  "31024ec584619025be5b9e65a07c234c52b595b8699d13fa9541383c3cbac151",
  "07302caf458375f424dbbad7b119f142f7b3027e581b1c649d0c4f10bef9934",
  "2b10391d5024ab7d07bfbe84f9638140c76dcaa0ab6110de0eaca8b97be9bccb",
  "5ccdeb5fe69667b0899db862603df382b5a6f24c6dd1e7a5eb477df4f9460724",
  "5a90f3ed3ff2db6ea26d33d0647a5a4a14dfa304a1e808fbd68a1a5ada5de8ac",
  "1560a539f0c96a27ce265c23aaf13da1990f8816eda7c79fad7a8dcf8cbb18de",
  "716e1d30fece72ea352891194c31c643302e5d7ed6e3327f217607c351b8f7ed",
  "4c504899cb0a6052b533b9cab838de4f8033037d40db7c85a43d7f439bb39d8c",
  "3ba823dc05742e07db7878774f69d17c73d68a25e3de2a3b3c942c6d124aaf4f",
  "48ff0f4063b98be626fb27849263d9a85797614f73a4a3036765d43928b98ed1",
  "7642f612bfd095632e9bec26e8ef63c17184eb92141caa44f99e8d8ec7ade9e1",
  "7cfc0982b65a0da4c2bcde32f32c730247db5506513176f7746dafa44626f39d",
  "714ab8a47533e876d5faba8b28472e5979030de4dc036ce250c5a8f0ad950f14",
  "71a0b68c73a37aba1c6170030a38dae2cc5d3fdbcdefbe0a28e9c9bcfb0fb3ea",
  "7e1904a7d48bdcf6dbb381706d36abeb7bac4c9f1e965aff1f26eb5de39cc5ea",
  "4e33d9c701d96f1d088090a6620ed3d1302391b3db2f78f29ed729b5eb423598",
  "103012482bcba7d70a4c3d4c20ba56052109666517eba655f3bc29a7ef62aeb3",
  "3fe9bdf8011b304b2bfdc90877814fa8227ca3de6eb6bc0d25c569ff1977e5c2",
  "76883373142095ea5bec56d56378e999a7b9abc1fffdc5625fe8a012c222b98f",
  "1d49a358e022db58cbb99808792108a1ca05e44ce9c2673e07258b7b7a44d47c"
]
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=miner1 getbalance
5.24214974
PS C:\Users\piece>
```

Miner1 chuyển coin cho User1

```
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=miner1 getbalance
4.24198913
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=user1 getbalance
1.00000000
PS C:\Users\piece> $txid1 = bitcoin-cli -regtest -rpcwallet=miner1 sendtoaddress $user1_add 1
PS C:\Users\piece> bitcoin-cli -regtest generatetoaddress 1 $miner1_add
[
  "42b024f3306b32a342ec5e69478757ab197a97417ec6beae11ca6f7bb27f1cd1"
]
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=miner1 getbalance
3.24139421
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=user1 getbalance
2.00000000
PS C:\Users\piece>
```

User1 chuyển coin cho User2

```
  "396dc36da2f64b29ed373484caa85c2106b0285343f39b244a5e461f35dc0a7e",
  "4408ff790f0d111965c33cb68337fddb160b3e81285e04685e1fcc6305217ffc",
  "71c9cefea5627bfadeb48136931397dad45e68b54a726a272ac27d5be1f40139",
  "6eabf75579b0f807f9da4027376a2e170a4f6e59122a9141792c62b7fc0174aa",
  "4eb4335c5d45904ec801909503d6183c5cbb349b7a88bd899b1c1f7080461238",
  "3c141da3771ebd141c5445c557e9732bb8fd4485ec47018f52f9fe3c8524e83f",
  "75a9c5484103f6dff7a8921aa4f94eb14b421444c908f893a41fa331439b06b8a",
  "746ef268273a5605421a2069489a3bf34b410970d378bb357031168ff742cf44",
  "6fe243636d033936edb12a99143f801bf057c78ff77c58ace82c7239031295cf"
]
PS C:\Users\piece> $user2_add = bitcoin-cli -regtest -rpcwallet=user2 getnewaddress
PS C:\Users\piece> $user2_add
bcrt1qr5l52wdhvx32dl638e7lcyzqel88asyrcz4rc3
PS C:\Users\piece> $txid2 = bitcoin-cli -regtest -rpcwallet=user1 sendtoaddress $user2_add 1
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=user1 getbalance
0.99995840
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=user2 getbalance
0.00000000
PS C:\Users\piece> $txid1 = bitcoin-cli -regtest -rpcwallet=miner1 sendtoaddress $user1_add 1
PS C:\Users\piece> bitcoin-cli -regtest generatetoaddress 1 $miner1_add
[
  "78d94758ec57bbecd24eb6fab1ca8a4a66a8364ad596db5bc1920c3c311c1975"
]
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=miner1 getbalance
2.27194938
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=user1 getbalance
1.99995840
PS C:\Users\piece> bitcoin-cli -regtest -rpcwallet=user2 getbalance
1.00000000
PS C:\Users\piece>
```