

```
aryan@wirelessprv-10-192-24-213 ~ % solana --version
solana-cli 1.18.20 (src:00000000; feat:4215500110, client:SolanaLabs)
aryan@wirelessprv-10-192-24-213 ~ % solana config set --url https://api.testnet.solana.com
Config File: /Users/aryan/.config/solana/cli/config.yml
RPC URL: https://api.testnet.solana.com
WebSocket URL: wss://api.testnet.solana.com/ (computed)
Keypair Path: /Users/aryan/.config/solana/id.json
Commitment: confirmed
```

```
aryan@wirelessprv-10-192-24-213 ~ % solana config get
Config File: /Users/aryan/.config/solana/cli/config.yml
RPC URL: https://api.testnet.solana.com
WebSocket URL: wss://api.testnet.solana.com/ (computed)
Keypair Path: /Users/aryan/.config/solana/id.json
Commitment: confirmed
```

```
aryan@wirelessprv-10-192-24-213 ~ % solana-keygen new -o validator-keypair.json
(Generating a new keypair)
```

For added security, enter a BIP39 passphrase

NOTE! This passphrase improves security of the recovery seed phrase NOT the keypair file itself, which is stored as insecure plain text

(BIP39 Passphrase (empty for none):

Wrote new keypair to validator-keypair.json

```
=====
pubkey: CjQZLjMK287EGMUQPs9y7FjV162nHwjTJd5UE8YfvrXv
=====
```

(Save this seed phrase and your BIP39 passphrase to recover your new keypair:
strong leaf minor chat jaguar sail strong double music fault spy gravity

```
=====
aryan@wirelessprv-10-192-24-213 ~ % solana-keygen new -o vote-account-keypair.json
(Generating a new keypair)
```

For added security, enter a BIP39 passphrase

(NOTE! This passphrase improves security of the recovery seed phrase NOT the keypair file itself, which is stored as insecure plain text

BIP39 Passphrase (empty for none):

Wrote new keypair to vote-account-keypair.json

```
=====
pubkey: 3KAZLVosfZ5FZBLtjurWvohniNkPMDsqb4vqbNXUsL9M
=====
```

(Save this seed phrase and your BIP39 passphrase to recover your new keypair:
shoot please habit travel acoustic weird audit state sugar remove bicycle lift

```
=====
aryan@wirelessprv-10-192-24-213 ~ % solana-keygen new -o authorized-withdrawer-keypair.json
(Generating a new keypair)
```

For added security, enter a BIP39 passphrase

NOTE! This passphrase improves security of the recovery seed phrase NOT the keypair file itself, which is stored as insecure plain text

BIP39 Passphrase (empty for none):

Wrote new keypair to authorized-withdrawer-keypair.json

=====

pubkey: 7NMRhJ2aTJ9mJpt7hUqKvW4tdzrVbqVhVg3UCCHo9NUJ

=====

Save this seed phrase and your BIP39 passphrase to recover your new keypair:

(direct special kidney stone mother tortoise trust tag frost photo dirt obey

=====

aryan@wirelessprv-10-192-24-213 ~ % solana config set --keypair ./validator-keypair.json

Config File: /Users/aryan/.config/solana/cli/config.yml

RPC URL: https://api.testnet.solana.com

WebSocket URL: wss://api.testnet.solana.com/ (computed)

Keypair Path: ./validator-keypair.json

Commitment: confirmed

aryan@wirelessprv-10-192-24-213 ~ % solana balance

0 SOL

aryan@wirelessprv-10-192-24-213 ~ % solana airdrop 1

Requesting airdrop of 1 SOL

Error: airdrop request failed. This can happen when the rate limit is reached.

aryan@wirelessprv-10-192-24-213 ~ % solana airdrop 10

Requesting airdrop of 10 SOL

Error: airdrop request failed. This can happen when the rate limit is reached.

aryan@wirelessprv-10-192-24-213 ~ % solana airdrop 10

Requesting airdrop of 10 SOL

Error: airdrop request failed. This can happen when the rate limit is reached.

aryan@wirelessprv-10-192-24-213 ~ % solana address

CjQZLjMK287EGMUQPs9y7FjV162nHwjTJd5UE8YfvrXv

aryan@wirelessprv-10-192-24-213 ~ % solana balance

10 SOL

aryan@wirelessprv-10-192-24-213 ~ % solana balance

20 SOL

aryan@wirelessprv-10-192-24-213 ~ % solana create-vote-account -ut \

--fee-payer ./validator-keypair.json \

./vote-account-keypair.json \

./validator-keypair.json \

./authorized-withdrawer-keypair.json

Signature: 3amU2brFZteNZxnXHnb4eifN89NBzkR1P3F8Y7zQRWGntvF9JZeVAVE5egPy58gmR9V5HooJZAqVzcyBxo14LSQn

aryan@wirelessprv-10-192-24-213 ~ % solana vote-account 3KAZLVosfZ5FZBLtjurWvohniNkPMDsqb4vqbNXUsL9M

Account Balance: 0.0270744 SOL

Validator Identity: CjQZLjMK287EGMUQPs9y7FjV162nHwjTJd5UE8YfvrXv

Vote Authority: {772: "CjQZLjMK287EGMUQPs9y7FjV162nHwjTJd5UE8YfvrXv"}

Withdraw Authority: 7NMRhJ2aTJ9mJpt7hUqKvW4tdzrVbqVhVg3UCCHo9NUJ

Credits: 0

Commission: 100%

Root Slot: ~

```

Root Slot: ~
Recent Timestamp: 1970-01-01T00:00:00Z from slot 0

aryan@wirelessprv-10-192-24-213 ~ % solana-test-validator
Ledger location: test-ledger
Log: test-ledger/validator.log
^C Initializing...                               Waiting for fees to stabilize 1...
Identity: G5GKLydTAbCsZzP6bhSBteLWiBv15TB9axgvdGYdnm5Y
Genesis Hash: 8UEhDLat8fPN8qHws6tBZ6VkJ5DLx1aToZPRNHGSwuxs
Version: 1.18.20
Shred Version: 30704
Gossip Address: 127.0.0.1:1024
TPU Address: 127.0.0.1:1027
JSON RPC URL: http://127.0.0.1:8899
^C 00:03:39 | Processed Slot: 464 | Confirmed Slot: 464 | Finalized Slot: 432 | Full Snapshot Slot: 432
aryan@wirelessprv-10-192-24-213 ~ % solana balance
Error: RPC request error: cluster version query failed: error sending request for url (http://127.0.0.1:8899/): error trying to connect: tcp connect error: Connection refused (os error 61)
aryan@wirelessprv-10-192-24-213 ~ % solana-test-validator
--faucet-sol argument ignored, ledger already exists
Ledger location: test-ledger
Log: test-ledger/validator.log
^C Initializing...                               Waiting for fees to stabilize 1...
Identity: G5GKLydTAbCsZzP6bhSBteLWiBv15TB9axgvdGYdnm5Y
Genesis Hash: 8UEhDLat8fPN8qHws6tBZ6VkJ5DLx1aToZPRNHGSwuxs
Version: 1.18.20
^C 00:27:31 | Processed Slot: 3901 | Confirmed Slot: 3901 | Finalized Slot: 3869 | Full Snapshot Slot: 3801 | Incremental Snapshot Slot: - | Transactions: 3900 |
    | @499.980515000    ^C 00:27:31 | Processed Slot: 3901 | Confirmed Slot: 3901 | Finalized Slot: 3869 | Full Snapshot Slot: 3801 | Incremental Snapshot Slot: - |
    | Transactions: 3900 | @499.980515000    ^C 00:27:32 | Processed Slot: 3903 | Confirmed Slot: 3903 | Finalized Slot: 3871 | Full Snapshot Slot: 3801 | Increment
    ^C 00:27:32 | Processed Slot: 3903 | Confirmed Slot: 3903 | Finalized Slot: 3871 | Full Snapshot Slot: 3801 | Incremental Snapshot Slot: - | Transactions: 3902
    ^C 00:28:45 | Processed Slot: 4058 | Confirmed Slot: 4058 | Finalized Slot: 4026 | Full Snapshot Slot: 4001 | Incremental Snapshot Slot: - | Transactions: 4057
    |

```

```

aryan@wirelessprv-10-192-24-213 ~ % solana config set --url http://127.0.0.1:8899
Config File: /Users/aryan/.config/solana/cli/config.yml
RPC URL: http://127.0.0.1:8899
Websocket URL: ws://127.0.0.1:8900/ (computed)
Keypair Path: ./validator-keypair.json
Commitment: confirmed
aryan@wirelessprv-10-192-24-213 ~ % solana genesis-hash
8UEhDLat8fPN8qHws6tBZ6VkJ5DLx1aToZPRNHGSwuxs
aryan@wirelessprv-10-192-24-213 ~ % solana balance
5000000000 SOL
aryan@wirelessprv-10-192-24-213 ~ % solana address
CjQZLjMK287EGMUQPs9y7FjV162nHwjTJd5UE8YfvrXv
aryan@wirelessprv-10-192-24-213 ~ % solana address
CjQZLjMK287EGMUQPs9y7FjV162nHwjTJd5UE8YfvrXv
aryan@wirelessprv-10-192-24-213 ~ % solana balance
5000000000 SOL
aryan@wirelessprv-10-192-24-213 ~ % solana transfer EPhgPANA5Rh2wa4V2jxt7YbtWa3Uyw4sTeZ13cQjDDB8 1
Error: The recipient address (EPhgPANA5Rh2wa4V2jxt7YbtWa3Uyw4sTeZ13cQjDDB8) is not funded. Add '--allow-unfunded-recipient' to complete the transfer
aryan@wirelessprv-10-192-24-213 ~ % solana transfer EPhgPANA5Rh2wa4V2jxt7YbtWa3Uyw4sTeZ13cQjDDB8 1
^C --allow-unfunded-recipient

```

```

aryan@wirelessprv-10-192-24-213 ~ % solana config set --url http://127.0.0.1:8899
Config File: /Users/aryan/.config/solana/cli/config.yml
RPC URL: http://127.0.0.1:8899
Websocket URL: ws://127.0.0.1:8900/ (computed)
Keypair Path: ./validator-keypair.json
Commitment: confirmed
aryan@wirelessprv-10-192-24-213 ~ % solana genesis-hash
8UEhDLat87PN8qHWs6tBZ6VKJ5DLx1aToZPRNHGSwuxs
aryan@wirelessprv-10-192-24-213 ~ % solana balance
500000000 SOL
aryan@wirelessprv-10-192-24-213 ~ % solana address
CjQZLjMK287EGMUQPs9y7FjV162nHwjTJd5UE8YfvrXv
aryan@wirelessprv-10-192-24-213 ~ % solana address
CjQZLjMK287EGMUQPs9y7FjV162nHwjTJd5UE8YfvrXv
aryan@wirelessprv-10-192-24-213 ~ % solana balance
500000000 SOL
aryan@wirelessprv-10-192-24-213 ~ % solana transfer EPhgPAna5Rh2wa4V2jxt7YbtWa3Uyw4sTeZ13cQjDDb8 1
Error: The recipient address (EPhgPAna5Rh2wa4V2jxt7YbtWa3Uyw4sTeZ13cQjDDb8) is not funded. Add '--allow-
unfunded-recipient' to complete the transfer
aryan@wirelessprv-10-192-24-213 ~ % solana transfer EPhgPAna5Rh2wa4V2jxt7YbtWa3Uyw4sTeZ13cQjDDb8 1 --allow-
unfunded-recipient

Signature: 5qti6shriieCps5SryRXUy3XFCWFwx4VdYwDUhahWnyUuny2wjFPQ4s3aCTgjVDWyuTjKq2EB4ChT73aAw4KRM2ro

aryan@wirelessprv-10-192-24-213 ~ % solana logs
Streaming transaction logs. Confirmed commitment
Transaction executed in slot 649:
  Signature: X2aHgDYdkZr5tLyC9jQKcB77Za8QyvkvhVFXByspL33oVBrWuPELYiTKiqligGy2rLYZGZksTg8XN4vRdd8qcfA
  Status: Ok
  Log Messages:
    Program 11111111111111111111111111111111 invoke [1]
    Program 11111111111111111111111111111111 success

```