Available Solana Clusters

Solana maintains several different clusters with different purposes.

Before you begin make sure you have firstinstalled the Solana command line tools

Explorers:

- http://explorer.solana.com/
- http://solanabeach.io/

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Devnet

- Devnet serves as a playground for anyone who wants to take Solana for a
- test drive, as a user, token holder, app developer, or validator.
- · Application developers should target Devnet.
- Potential validators should first target Devnet.
- Key differences between Devnet and Mainnet Beta:* Devnet tokens arenot real
 - Devnet includes a token faucet for airdrops for application testing
 - Devnet may be subject to ledger resets
 - Devnet typically runs the same software release branch version as Mainnet Beta,
 - but may run a newer minor release version than Mainnet Beta.
- · Gossip entrypoint for Devnet:entrypoint.devnet.solana.com:8001
- · Metrics environment variable for Devnet:

export

SOLANA_METRICS_CONFIG

"host=https://metrics.solana.com:8086,db=devnet,u=scratch_writer,p=topsecret" * RPC URL for Devnet:https://api.devnet.solana.com

Examplesolana

command-line configuration

solana config set --url https://api.devnet.solana.com

Examplesolana-validator

command-line

solana-validator \ --identity validator-keypair.json \ --vote-account vote-account-keypair.json \ --known-validator dv1ZAGvdsz5hHLwWXsVnM94hWf1pjbKVau1QVkaMJ92 \ --known-validator dv2eQHeP4RFrJZ6UeiZWoc3XTtmtZCUKxxCApCDcRNV \ --known-validator dv4ACNkpYPcE3aKmYDqZm9G5EB3J4MRoeE7WNDRBVJB \ --known-validator dv3qDFk1DTF36Z62bNvrCXe9sKATA6xvVy6A798xxAS \ --only-known-rpc \ --ledger ledger \ --rpc-port 8899

\ --dynamic-port-range 8000 -8020 \ --entrypoint entrypoint.devnet.solana.com:8001 \ --entrypoint entrypoint2.devnet.solana.com:8001 \ --entrypoint entrypoint3.devnet.solana.com:8001 \ --entrypoint entrypoint5.devnet.solana.com:8001 \ --expected-genesis-hash EtWTRABZaYq6iMfeYKouRu166VU2xqa1wcaWoxPkrZBG \ --wal-recovery-mode skip_any_corrupted_record \ --limit-ledger-size The_-known-validator s are operated by Solana Labs

Testnet

- Testnet is where the Solana core contributors stress test recent release features on a live
- · cluster, particularly focused on network performance, stability and validator
- · behavior.
- Testnet tokens arenot real

- Testnet may be subject to ledger resets.
- Testnet includes a token faucet for airdrops for application testing
- Testnet typically runs a newer software release branch than both
- · Devnet and Mainnet Beta
- Gossip entrypoint for Testnet:entrypoint.testnet.solana.com:8001
- Metrics environment variable for Testnet:

export

SOLANA_METRICS_CONFIG

"host=https://metrics.solana.com:8086,db=tds,u=testnet_write,p=c4fa841aa918bf8274e3e2a44d77568d9861b3ea" * RPC URL for Testnet:https://api.testnet.solana.com

Examplesolana

command-line configuration

solana config set --url https://api.testnet.solana.com

Examplesolana-validator

command-line

solana-validator \ --identity validator-keypair.json \ --vote-account vote-account-keypair.json \ --known-validator 5D1fNXzvv5NjV1ysLjirC4WY92RNsVH18vjmcszZd8on \ --known-validator dDzy5SR3AXdYWVqbDEkVFdvSPCtS9ihF5kJkHCtXoFs \ --known-validator Ft5fbkqNa76vnsjYNwjDZUXoTWpP7VYm3mtsaQckQADN \ --known-validator eoKpUABi59aT4rR9HGS3LcMecfut9x7zJyodWWP43YQ \ --known-validator 9QxCLckBiJc783jnMvXZubK4wH86Eqqvashtrwvcsgkv \ --only-known-rpc \ --ledger ledger \ --rpc-port 8899

\ --dynamic-port-range 8000 -8020 \ --entrypoint entrypoint.testnet.solana.com:8001 \ --entrypoint entrypoint2.testnet.solana.com:8001 \ --expected-genesis-hash 4uhcVJyU9pJkvQyS88uRDiswHXSCkY3zQawwpjk2NsNY \ --wal-recovery-mode skip_any_corrupted_record \ --limit-ledger-size The identities of the--known-validator s are:

- 5D1fNXzvv5NjV1ysLjirC4WY92RNsVH18vjmcszZd8on
 - Solana Labs
- dDzy5SR3AXdYWVqbDEkVFdvSPCtS9ihF5kJkHCtXoFs
 - MonkeDAO
- Ft5fbkqNa76vnsjYNwjDZUXoTWpP7VYm3mtsaQckQADN
 - · Certus One
- eoKpUABi59aT4rR9HGS3LcMecfut9x7zJyodWWP43YQ
 - SerGo
- 9QxCLckBiJc783jnMvXZubK4wH86Eqqvashtrwvcsgkv
 - Algo|Stake

Mainnet Beta

A permissionless, persistent cluster for Solana users, builders, validators and token holders.

- Tokens that are issued on Mainnet Beta arereal
- SOL
- Gossip entrypoint for Mainnet Beta:entrypoint.mainnet-beta.solana.com:8001
- · Metrics environment variable for Mainnet Beta:

export

SOLANA METRICS CONFIG

Beta:https://api.mainnet-beta.solana.com

Examplesolana

command-line configuration

solana config set --url https://api.mainnet-beta.solana.com

Examplesolana-validator

command-line

solana-validator \ --identity ~/validator-keypair.json \ --vote-account ~/vote-account-keypair.json \ --known-validator 7Np41oeYqPefeNQEHSv1UDhYrehxin3NStELsSKCT4K2 \ --known-validator GdnSyH3YtwcxFvQrVVJMm1JhTS4QVX7MFsX56uJLUfiZ \ --known-validator DE1bawNcRJB9rVm3buyMVfr8mBEoyyu73NBovf2oXJsJ \ --known-validator CakcnaRDHka2gXyfbEd2d3xsvkJkqsLw2akB3zsN1D2S \ --only-known-rpc \ --ledger ledger \ --rpc-port 8899

\--private-rpc\\--dynamic-port-range 8000\--entrypoint entrypoint.mainnet-beta.solana.com:8001\\--entrypoint entrypoint2.mainnet-beta.solana.com:8001\\--entrypoint entrypoint4.mainnet-beta.solana.com:8001\\--entrypoint entrypoint5.mainnet-beta.solana.com:8001\\--expected-genesis-hash 5eykt4UsFv8P8NJdTREpY1vzqKqZKvdpKuc147dw2N9d\\--wal-recovery-mode skip_any_corrupted_record\\--limit-ledger-size info The above four--known-validator s are operated by Solana Labs. Previous Overview of a Solana Cluster Next Benchmark a Cluster