# **Command Line Arguments**

About the Arguments:

BLOCK\_ENGINE\_URL, RELAYER\_URL, and SHRED\_RECEIVER\_ADDR reference addresses on the<u>mainnet</u> and<u>testnet</u> connection pages.

- · --tip-payment-program-pubkey
- · Address of the tip payment program
  - The tip payment program address can be foundhere
  - Read more about the programhere
- --tip-distribution-program-pubkey
- Address of the tip distribution program
  - The tip payment program address can be foundhere
  - Read more about the programhere
- --merkle-root-upload-authority
- Authority that uploads MEV airdrop merkle roots to the validator's MEV "piggy bank".
  - This authority automates the airdrop and claim process, so stakers don't need to manually claim rewards.
  - if you set it to Jito -GZctHpWXmsZC1YHACTGGcHhYxjdRqQvTpYkb9LMvxDib
  - · , Jito will run the airdrop and claim process for you.
  - If you set it to any other address, you will need to run thelaim workflow
  - yourself.
- --commission-bps
- the MEV commission your validator takes (stored in basis points)
- --relayer-url
- · Address the validator connects to in order to get packets from the relayer
  - The relayer URLs are availablehere
- --block-engine-url
- Address of the block engine where the validator connects
  - The block engine URLs are availablehere
- --shred-receiver-address
- · Address where shreds are sent
  - The shred receiver addresses are availablehere

Mainnet Arguments

Please look atmainnet connection information for the values of BLOCK\_ENGINE\_URL, RELAYER\_URL, and SHRED\_RECEIVER\_ADDR.

Copy BLOCK\_ENGINE\_URL= RELAYER\_URL= SHRED\_RECEIVER\_ADDR= solana-validator \ --tip-payment-program-pubkey T1pyyaTNZsKv2WcRAB8oVnk93mLJw2XzjtVYqCsaHqt \ --tip-distribution-program-pubkey 4R3gSG8BpU4t19KYj8CfnbtRpnT8gtk4dvTHxVRwc2r7 \ --merkle-root-upload-authority GZctHpWXmsZC1YHACTGGcHhYxjdRqQvTpYkb9LMvxDib \ --commission-bps 800 \ --relayer-url {RELAYER\_URL} \ --block-engine-url {BLOCK\_ENGINE\_URL} \ --shred-receiver-address {SHRED\_RECEIVER\_ADDR}

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#### **Testnet Arguments**

Please look attestnet connection information for the values of BLOCK\_ENGINE\_URL, RELAYER\_URL, and SHRED RECEIVER ADDR.

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 $\label{lock_engine_url} Copy BLOCK_ENGINE_URL= RELAYER_URL= SHRED_RECEIVER_ADDR= solana-validator \ --tip-payment-program-pubkey DCN82qDxJAQuSqHhv2BJuAgi41SPeKZB5ioBCTMNDrCC \ --tip-distribution-program-pubkey F2Zu7QZiTYUhPd7u9ukRVwxh7B71oA3NMJcHuCHc29P2 \ --merkle-root-upload-authority GZctHpWXmsZC1YHACTGGcHhYxjdRqQvTpYkb9LMvxDib \ --commission-bps 800 \ --relayer-url {RELAYER_URL} \ --block-engine-url {BLOCK_ENGINE_URL} \ --shred-receiver-address {SHRED_RECEIVER_ADDR} \ --tip-payment-program-pubkey BLOCK_ENGINE_URL \ --shred-receiver-address \ SHRED_RECEIVER_ADDR \ --tip-payment-program-pubkey BLOCK_ENGINE_URL \ --tip-payment-payment-program-pubkey BLOCK_ENGINE_URL \ --tip-payment-payment-program-pubkey BLOCK_ENGINE_URL \ --tip-payment-pay$ 

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### **Changing Command Line Arguments**

Several configuration parameters for the Jito-Solana validator can be changed at runtime - including some of the Jito-specific CLI arguments - without the need to restart a running validator. To see a list of validator admin RPC operations for your Solana version, runsolana-validator help and examine the list of subcommands.

#### Test Admin RPC

If you have never used the admin RPC before, we suggest you start with the monitor command to avoid making unwanted changes to your running validator. Runsolana-validator monitor --help to see the documentation for the monitor command (same syntax to get other commands help).

After runningsolana-validator -I monitor, you should see something like the following:

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Copy Ledger location: /solana/ledger Identity: 2Nnw9RZvT2qeKq74rkw8hWDJZUDSKxiBarmQMFxHzzCt Genesis Hash: 4uhcVJyU9pJkvQyS88uRDiswHXSCkY3zQawwpjk2NsNY 697:54:24 | Processed Slot: 210229427 | Confirmed Slot: 210229425 | Finalized Slot: 210229388 | Full Snapshot Slot: 210227247 | Incremental Snapshot Slot: 210229270 | Transactions: 264554057258 | ©1599.903590025

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If this doesn't work, check your ledger path. All admin RPC commands will require the ledger path.

# Changing Jito-Specific Config

Currently, there are 3 admin RPC commands to adjust Jito-specific validator configuration, and for versions starting with Jito-Solana v1.14.18, the ability to change identity at runtime is fully supported.

Command Action set-block-engine-config Set configuration for connection to a block engine set-identity Set the validator identity set-relayer-config Set configuration for connection to a relayer set-shred-receiver-address Changes shred receiver address These commands allow you to set (or change) the URLs for Jito connections. E.g., runningsolana-validator -l set-block-engine-config --block-engine-url https://nyc.testnet.block-engine.jito.wtf willl set the block engine URL to point to Jito Labs' testnet block engine in NY.

Other URLs can be set with similar syntax, as well as a few other flags and relayer heartbeat configuration.

## Identity Hotswap

For Jito-Solana 1.14.18 and up, the ability to change identity at runtime is fully supported.

Command Action set-identity Set the validator identity You can follow standard procedures for changing a validator's identity at runtime. Connections to backend services will be automatically reset and attempted under the new identity. The following 2 guides provide detailed instructions: MVines Guide

# Pumpkin's Guide

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