

Running a Solana RPC Node

1. Install the Solana CLI

In order to run a Solana node, you must first install Solana CLI. This software is necessary to run a Solana RPC node. The first step is to ensure that you've gotten the proper archive:

For Testnet

```
wget https://github.com/solana-labs/solana/archive/refs/tags/v1.16.5.tar.gz tar -xvf v1.16.5.tar.gz cd solana-1.16.5
```

For Mainnet

`https://github.com/solana-labs/solana/archive/refs/tags/v1.14.20.tar.gz tar -xvf v1.14.20.tar.gz cd solana-1.14.20` Once you've switched to the unarchived directory, you'll need to run the `cargo-install-all` script and `solana-install` command as shown below:

```
./scripts/cargo-install-all.sh . export
```

PATH

`PWD /bin: PATH solana-install init` This should be sufficient to start your instance of SolanaCLI, but you will not be serving RPC until completing the additional steps listed below.

2. Start the RPC Node

Create a Validator Keypair

Input the following command to generate validator keypair for use in the next step:

```
solana-keygen new -o validator-keypair.json
```

Run the solana-validator

command

Take a moment to review the template below and make any changes as needed for your custom configuration.

```
solana-validator \ --identity /home/sol/validator-keypair.json \ --known-validator  
5D1fNXzvv5NjV1ysLjirC4WY92RNsVH18vjmcSzZd8on \ --known-validator  
dDzy5SR3AXdYwVqbDEkVFdvSPCtS9ihF5kJKHctXoFs \ --known-validator  
eoKpUABi59aT4rR9HGS3LcMecfut9x7zJyodWWP43YQ \ --known-validator  
7XSY3MrYnK8vq693Rju17bbPkCN3Z7KvvfJx4kdrsSY \ --known-validator  
Ft5fbkqNa76vnsjYNwjDZUXoTWpP7VYm3mtsaQckQADN \ --known-validator  
9QxCLckBiJc783jnMvXZubK4wH86Eqqvashtwvcskv \ --only-known-rpc \ --full-rpc-api \ --no-voting \ --ledger /mnt/ledger \ -  
-accounts /mnt/accounts \ --log /home/sol/solana-rpc.log \ --rpc-port 8899  
  
\ --rpc-bind-address 0.0.0.0 \ --private-rpc \ --dynamic-port-range 8000-8020 \ --entrypoint  
entrypoint.testnet.solana.com:8001 \ --entrypoint entrypoint2.testnet.solana.com:8001 \ --entrypoint  
entrypoint3.testnet.solana.com:8001 \ --expected-genesis-hash 4uhcVJyU9pJkvQyS88uRDiswHXSCkY3zQawwpjk2NsNY \  
--wal-recovery-mode skip_any_corrupted_record \ --limit-ledger-size Once the command returns successful, you're now  
ready to serve RPC!
```

3. Apply to our Provider Incubation Program

In our current state of Testnet, there is an additional stage to pass through before you can become a provider on the Lava Network. Please fill out the [application form](#) for our Provider Incubation Program. Feel free to drop a line in our [Discord](#) once you've completed this step!

4. Setup your Provider on Lava Network

Once you've been accepted - to set up your provider on the Lava Network, you can refer to the [provider setup](#)

[documentation](#) available elsewhere in our docs. This should provide you with the necessary information to configure and operate your provider node. [Edit this page](#) [Previous](#) [Getting Solana RPC](#) [Next](#) [Starknet x Lava](#)