

# Running a NEAR RPC Node

## Requirements

Before you start, ensure that your machine meets the following [minimum requirements](#) :

- Recommended
- Minimum

CPU: 8-Core (16-Thread) Intel i7/Xeon or equivalent with AVX support RAM: 20GB DDR4 Storage: 1TB SSD - NVMe SSD  
recommended OS: MacOS / Linux CPU: 8-Core (16-Thread) Intel i7/Xeon or equivalent with AVX support RAM: 12GB  
DDR4 Storage: 500GB SSD OS: MacOS / Linux tip Installing NEAR will also require a current installation of [Rust](#) ,[Git](#) , as well as many common dev tools (python ,docker ,awscli , &protobuf-compiler ).

## Install

### Getnearcore

Clone the NEARnearcore repo to your machine and switch to it.

```
git clone https://github.com/near/nearcore cd nearcore git fetch origin --tags Get the latest release .
```

```
git checkout tags/ < RELEASE TAG HERE
```

```
-b mynode
```

### Compile the latest stable release

Ensure you're in the correct folder (/nearcore/ ) & run the following command:

make release caution make release will cause thenearcore to compile. Compilation is a time-intensive process and can take ~30 minutes or longer on recommended hardware.

### Configure the release folder

With one command you can create the required directory structure -- generating a config.json, node\_key.json, and downloading a genesis.json for your respective chain-id choice.

- Mainnet
- Testnet

```
./target/release/neard --home ~/.near init --chain-id mainnet --download-genesis --download-config ./target/release/neard --home ~/.near init --chain-id testnet --download-genesis --download-config
```

### Start your Node!

Run the following command to initiate your node!

## Get a data backup

```
aws s3 --no-sign-request cp s3://near-protocol-public/backups/mainnet/rpc/latest . LATEST = ( cat latest ) aws s3 --no-sign-request cp --no-sign-request --recursive s3://near-protocol-public/backups/mainnet/rpc/ LATEST ~/.near/data
```

## Start the Node!

```
./target/release/neard --home ~/.near run
```

### Configure your Provider

After you've gotten things together with your node. You can set things in motion with a provider. Use the following template(s) to set up your provider config file:

- Mainnet Example
- Testnet Example

endpoints : -

api-interface : jsonrpc chain-id : NEAR network-address : address :

"127.0.0.1:port" disable-tls :

true node-urls : -

url : https : //endpoint/mainnet/erpc

metrics-listen-address :

":port" endpoints : -

api-interface : jsonrpc chain-id : NEART network-address : address :

"127.0.0.1:port" disable-tls :

true node-urls : -

url : https : //endpoint/testnet/erpc

metrics-listen-address :

":port"

## NEAR ipRPC

Want to reach more developers and get more rewards as a node runner? NEAR offers Incentivized Public RPC (ipRPC) endpoints to developers in its ecosystem. By signing up here, you can be first in line to being one of our premier providers contributing to decentralized public goods. [Sign up now!](#)

## 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 on the Lava Network. [Edit this page](#) [Previous](#) [Getting NEAR RPC](#) [Next](#) [Optimism x Lava](#)