Running an Avalanche RPC Node

Requirements

Before you start, ensure that your machine meets the followingminimum requirements :

CPU: Equivalent of 8 AWS vCPU RAM: 16 GiB Storage: 1 TiB OS: Ubuntu 20.04 or MacOS >= 12 Network: sustained 5Mbps up/down bandwidth Go version >= 1.19.6

Install AvalancheGo

AvalancheGo is a go implementation of an Avalanche node. This software is necessary to run a Avalanche RPC node. AvalancheGo can be installed automatically on a local machine using a shell bash script or manually with some commands.There are detailed guides for bothautomatic installation andmanual installation available in the Avalanche docs.

Automated Script

To do automated install using the AvalancheGo install script, input the following into a terminal:

wget -nd -m https://raw.githubusercontent.com/ava-labs/avalanche-docs/master/scripts/avalanchego-installer.sh ; \ chmod

755 avalanchego-installer.sh ; \

For Mainnet Installation, run the following command:

./avalanchego-installer.sh

For Testnet Installation, run the following command:

./avalanchego-installer.sh --fuji This will begin an automated script install with prompts that allow you to configure your node. When you're asked whether the RPC port should be private or public- be sure to selectpublic ! The node will start once the script completes.

Manual Binary Build

To manually build and install AvalancheGo, input the following into a terminal:

git clone https://github.com/ava-labs/avalanchego.git cd avalanchego ./scripts/build.sh

To run your Node on the Mainnet, run the following command:

./build/avalanchego

To run your Node on the Testnet, run the following command:

./build/avalanchego --network-id

fuji Your node will take time to sync after it has been started. Please allow it time to sync to the latest block.

Configure your Provider

tip Avalanche has a specific use case for adding websockets to their Provider Endpoints. This is because only C chains support websocket endpoints whereas X/P chains do not. To read about the differences between different Avalanche chain types, inspect theirdocumentation / An example yaml is provided below. You can also find it in the Lava Monorepohere .

endpoints : -

api-interface : jsonrpc chain-id : AVAX network-address : 127.0.0.1 : 2221 node-urls : -

url : ws : //127.0.0.1 : 3333/C/rpc/ws internal-path :

"/C/rpc"

c chain like specified in the spec

-

url : https : //127.0.0.1 : 3334/C/avax internal-path :

"/C/avax"

c/avax like specified in the spec

-

url : https : //127.0.0.1 : 3335/X internal-path :

"/X"

x chain like specified in the spec

-

url : https : //127.0.0.1 : 3336/P internal-path :

"/P"

p chain like specified in the spec

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 theapplication form for our Provider Incubation Program. Feel free to drop a line in ourDiscord once you've completed this step!

Setup your Provider on Lava Network

Once you've been accepted - to set up your provider on the Lava Network, you can refer to theprovider 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 Avalanche RPC Next Axelar x Lava