Install celestia-app

This tutorial will guide you through installing celestia-app, bothfrom source and witha pre-built binary

Celestia-app is the software that allows you to run validator nodes and provide RPC endpoints.

Building binary from source

This section of the tutorial presumes you completed the steps insetting up your own environment.

The steps below will create a binary file namedcelestia-appd insideHOME/go/bin folder which will be used later to run the node. Be sure to select the correct network to install the binary for.

1. Remove any existing copy of celestia-app, clone the repository, and change into the directory:
2. bash
3. cd
4. HOME
5. rm
6. -rf
7. celestia-app
8. git
9. clone
10. https://github.com/celestiaorg/celestia-app.git
11. cd
12. celestia-app
13. cd
14. HOME
15. rm
16. -rf
17. celestia-app
18. git
19. clone
20. https://github.com/celestiaorg/celestia-app.git
21. cd
22. celestia-app
23. Check out to the desired version, based on the network you will use:
24. Mainnet Beta
25. Mocha
26. Arabica
27. bash
28. git
29. checkout
30. tags/v2.3.1
31. git
32. checkout
33. tags/v2.3.1
34. bash
35. git
36. checkout
37. tags/v2.3.1-mocha
38. git
39. checkout
40. tags/v2.3.1-mocha
41. bash
42. git
43. checkout
44. tags/v3.0.0-arabica
45. git
46. checkout
47. tags/v3.0.0-arabica
48. Build and install thecelestia-appd
49. binary:
50. bash
51. make
52. install
53. make
54. install

55. To check if the binary was successfully installed you can run the binary using the--help
56. flag:
57. sh
58. celestia-appd
59. --help
60. celestia-appd
61. --help

You will see an output with the menu forcelestia-appd . Learn more on thehelpful CLI commands page

Installing a pre-built binary

Installing a pre-built binary is the fastest way to get started with your Celestia consensus node. Releases after celestia-app v1.3.0 should have these binaries available.

The steps below will download a binary file namedcelestia-appd . Depending on the setup that you choose during installation, thecelestia-appd binary will be available at either:

- HOME/celestia-app-temp/celestia-appd
- /usr/local/bin/celestia-appd

Pre-built binaries are available for:

- Operating systems: Darwin (Apple), Linux
- Architectures: x86_64 (amd64), arm64

To install the latest pre-built binary you can run this command in your terminal:

bash bash

-c

"(curl

-sL https://docs.celestia.org/celestia-app.sh)" bash

-c

"(curl

-sL https://docs.celestia.org/celestia-app.sh)" Follow the instructions in the terminal output to choose your installation preferences.

You will see an output with the menu forcelestia-appd . Learn more on thehelpful CLI commands page

Viewthe script to learn more about what it is doing.

Ports

When interacting with a consensus node, you may need to open ports on your machine to allow communication between nodes, such as bridge nodes. It is essential that specific ports are accessible. Make sure that your firewall allows connections to the correct ports.

If you run a node on a cloud server, make sure that the ports are open on the server's firewall. If you run a node at home, make sure that your router allows connections to the correct ports.

For example, validator ports 9090 and 26657 need to be accessible by the bridge, and port 2121 is required for P2P connections for all node types.

The following ports are used by Celestia app nodes:

Port Protocol Address Description Enabled by default on node Flag 2121 TCP/UDP localhost P2P true N/A 9090 HTTP 0.0.0.0 gRPC true --grpc.address string 26657 TCP localhost RPC false (only open to localhost) --rpc.laddr string [][Edit this page on GitHub] Last updated: Previous page Install celestia-node Next page Docker images []