How to Farm - Subspace Network

By Subspace Network

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Guide to farming on the Subspace Network

This article was updated on August 30, 2022, to reflect the new minimum hardware requirements for farming on the Subspace Network.

Subspace Network → https://subspace.network/ is designed to be a massively scalable and distributed infrastructure for Web3, powering rich experiences built on various chains. With its modular architecture and decoupled execution, Subspace is the Web3 native infrastructure providing critical services like data availability, archival storage, and trustless cross-chain bridging for a multi-chain future. Furthermore, Subspace was created to be open and permissionless from day one so that anyone with a laptop could participate in the network from anywhere in the world and get rewarded for their contributions.

Different from many proof-of-work (PoW) or proof-of-stake (PoS) networks, you don't need any specialized hardware or any capital investment to participate as a Subspace consensus node operator (farmer). In fact, **you won't even need to stake any tokens to run a farmer node either.** Of course, you can also run the node in the background on your laptop without affecting your daily usage.

Recommended Minimum Hardware Requirements

- 2 dedicated CPU cores
- 4GB of RAM (8GB suggested)
- 60GB of hard drive space

In short, if you can play a game or watch Netflix on your computer, it can most likely also run a node. The farmer node can run natively on macOS, Windows, and Linux operating systems. In addition, some community members were able to run a farmer node on Raspberry Pi, though it is not officially supported (yet).

Reward Composition

There are two sources of rewards in the near term for farmers

- Block Reward — by participating in the consensus and contributing to the network security
- Storage Fee — paid by application developers for permanent on-chain storage (NFT, metaverse, data feeds, etc.)

Getting Started

There are a few options to get your farmer node up and running. We outline them below in order of complexity, based on the level of technical knowledge required.

Command Line Interface and Docker (medium)

This path is for the technically-savvy users. The nodes have to be configured and managed via CLI. In addition to CLI, we provide a Docker image to standardize the process across platforms. Link to detailed instructions → https://docs.subspace.network/protocol/farm/farming/.

Source code (expert)

If you are an experienced developer and want to inspect the source code to compile it yourself, here is the link to the GitHub repository → https://github.com/subspace/subspace/blob/main/docs/development.md.

Desktop Farmer application — GUI (coming soon)

The GUI is easy to set up and use, like any other application installed on your computer.

The network reached over 25k active community-run nodes during the Aries testnet, making Subspace one of the most decentralized networks. The project is currently in the Gemini incentivized testnet stage.

Thank you for your interest in the Subspace Network, we'd love to have you part of our global community. Don't forget to join our Discord → http://discord.gg/subspace-network or Telegram → https://t.me/subspace_network to get the latest updates.