

Staking on Solana

Note before reading: All references to increases in values are in absolute terms with regards to balance of SOL. This document makes no suggestion as to the monetary value of SOL at any time.

By staking your SOL tokens, you help secure the network and [earn rewards](#) while doing so.

You can stake by delegating your tokens to validators who process transactions and run the network.

Delegating stake is a shared-risk shared-reward financial model that may provide returns to holders of tokens delegated for a long period. This is achieved by aligning the financial incentives of the token-holders (delegators) and the validators to whom they delegate.

The more stake delegated to a validator, the more often this validator is chosen to write new transactions to the ledger. The more transactions the validator writes, the more rewards the validator and its delegators earn. Validators who configure their systems to be able to process more transactions earn proportionally more rewards and because they keep the network running as fast and as smoothly as possible.

Validators incur costs by running and maintaining their systems, and this is passed on to delegators in the form of a fee collected as a percentage of rewards earned. This fee is known as a commission. Since validators earn more rewards the more stake is delegated to them, they may compete with one another to offer the lowest commission for their services.

You risk losing tokens when staking through a process known as slashing. Slashing involves the removal and destruction of a portion of a validator's delegated stake in response to intentional malicious behavior, such as creating invalid transactions or censoring certain types of transactions or network participants.

When a validator is slashed, all token holders who have delegated stake to that validator lose a portion of their delegation. While this means an immediate loss for the token holder, it also is a loss of future rewards for the validator due to their reduced total delegation. More details on the slashing roadmap can be found [here](#).

Rewards and slashing align validator and token holder interests which helps keep the network secure, robust and performant.

How do I stake my SOL tokens?#

You can stake SOL by moving your tokens into a wallet that supports staking. The wallet provides steps to create a stake account and do the delegation.

Supported Wallets#

Many web and mobile wallets support Solana staking operations. Please check with your favorite wallet's maintainers regarding status

Solana command line tools#

- Solana command line tools can perform all stake operations in conjunction with
- a CLI-generated keypair file wallet, a paper wallet, or with a connected
- Ledger Nano. [Staking commands using the Solana Command Line Tools](#)
- .

Create a Stake Account#

Follow the wallet's instructions for creating a staking account. This account will be of a different type than one used to simply send and receive tokens.

Select a Validator#

Follow the wallet's instructions for selecting a validator. You can get information about potentially performant validators from the links below. The Solana Foundation does not recommend any particular validator.

The site solanabeach.io is built and maintained by one of our validators, Staking Facilities. It provides a some high-level graphical information about the network as a whole, as well as a list of each validator and some recent performance statistics about each one.

- <https://solanabeach.io>

To view block production statistics, use the Solana command-line tools:

- [solana validators](#)
- [solana block-production](#)

The Solana team does not make recommendations on how to interpret this information. Do your own due diligence.

Delegate your Stake#

Follow the wallet's instructions for delegating your stake to your chosen validator.

Stake Account Details#

For more information about the operations and permissions associated with a stake account, please see [Stake Accounts](#)