

# Uptime

To maximize uptime, validators should set up a backup node. To prevent double signing, dedicated Tendermint node signers such as [tmkms](#) or [horcrux](#) can be used.

If you're new to running a validator, it's recommended to start out with tmkms to get your feet wet then ultimately make the jump to horcrux after you have a better understanding of cosmos infrastructure.

## Monitoring Tools

A popular uptime monitoring tool for Tendermint chains like Canto is [TenderDuty](#) . To get started, follow these steps:

1. Install tenderduty per the [official docs](#)
2. based on your preference (Docker or systemd).
3. Edit config.yml
4. based on your validator and preferences:
5.
  - Name the chain "Canto"
6.
  - Add chain ID (canto\_7700-1
7.
  - for mainnet)
8.
  - Add your valoper address (using cantod keys show-a --bech val
9.
  - )
10.
  - Get relevant API keys (Discord, Telegram, PagerDuty) and set your alert config
11. \*
12. Finally, start the service per the docs.
- 13.

An alternative monitoring tool is [PANIC](#) .

[Previous Troubleshooting](#) [Next Slashing](#) Last updated 1 year ago On this page