

# Using Snap Sync for Node Operators

This guide reviews the optional feature of Snap Sync for node operators, including benefits and how to enable the feature.

Snap Sync significantly improves the experience of syncing an OP Stack node. Snap Sync is a native feature of go-ethereum that is now optionally enabled on op-node & op-geth. Snap Sync works by downloading a snapshot of the state from other nodes on the network and is then able to start executing blocks from the completed state rather than having to re-execute every single block. This means that performing a Snap Sync is significantly faster than performing a full sync.

- For OP Mainnet, node operators will be able to sync without having to download the [bedrock datadir](#)
- .
- This also enables nodes to join the network after Ecotone activates without requiring a [blob archiver](#)
- .
- Archive nodes are also fully supported.

## Enable Snap Sync for Your Node

⚠ For snap sync, op-geth nodes should expose port 30303 TCP and 30303 UDP to easily find other op-geth nodes to sync from.

- If you set the port with `--discovery.port`
- , then you must open the port specified for UDP.
- If you set `--port`
- , then you must open the port specified for TCP.
- The only exception is for sequencers and transaction ingress nodes. Choose one of the following options to enable snap sync:
  - Option 1:
    - Snap sync, no required datadir on OP Mainnet. This is the recommended option because op-node
    - tells op-geth
    - to snap sync and then op-geth
    - downloads the state at tip and once complete switches to inserting blocks one by one.

op-node op-geth --syncmode = execution-layer ( not

default ) \* Option 2: \* Archive sync with required [datadir](#) \* for OP Mainnet, but no required datadir for other OP Stack networks. \* This option is faster for archive nodes than other options because `--syncmode=full` \* means op-geth \* executes every block in the chain.

op-node op-geth --syncmode = execution-layer ( not

default ) \* Option 3: \* Continue using current sync approach (before Ecotone) where op-node \* reads from L1 and inserts blocks into op-geth \* . \* This option might be preferred for decentralized developer groups who need to confirm everything on the chain.

op-node op-geth --syncmode = consensus-layer ( default )

## Next Steps

- See the [Node Configuration](#)
- guide for additional explanation or customization.
- To enable snap sync for your chain, see [Using Snap Sync for Chain Operators](#)
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- If you experience difficulty at any stage of this process, please reach out to [developer support \(opens in a new tab\)](#)
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