

Chain Operator Best Practices

The following information has some best practices around running the OP Stack's off-chain components.

Best Practices

Correct Release Versions

Chain and node operators should always run the latest production releases of the OP Stack's off chain components. Our latest releases, notes, and changelogs can be found on GitHub. op-node releases can be found [here\(opens in a new tab\)](#) and op-geth releases can be found [here\(opens in a new tab\)](#).

- Production releases are always tags, versioned as/v
- . For example, anop-node
- release might be
- versioned asop-node/v1.7.5
- .
- Tags of the formv
- , such asv1.7.7
- , indicate releases of all
- Go code only, andDO NOT
- include smart contracts.
- In the monorepo, this means thesev
- releases contain allopp-*
- components, and exclude allcontracts-*
- components.
- op-geth
- embeds upstream geth's version inside its own version as follows:vMAJOR.GETH_MAJOR GETH_MINOR
GETH_PATCH.PATCH
- . Basically, geth's version is
- our minor version. For example, if geth is atv1.12.0
- , the correspondingop-geth
- version would bev1.101200.0
- . Note that we pad out to three
- characters for the geth minor version and two characters for the geth patch
- version. Since we cannot left-pad with zeroes, the geth major version is not
- padded.

Incremental Upgrade Rollouts

When upgrading your nodes, take a staggered approach. This means deploying the upgrade gradually across your infrastructure and ensuring things work as expected before making changes to every node.

Isolate Your Sequencer

You can isolate your sequencer node, by not connecting it directly to the internet. Instead, you could handle your ingress traffic behind a proxy. Have the proxy forward traffic to replicas and have them gossip the transactions internally.

Assumptions

op-proposer assumes archive mode

Theop-proposer currently assumes thatop-geth is being run in archive mode. This will likely be updated in a future network upgrade, but it is necessary for L2 withdrawals at the moment.

[Troubleshooting Preinstalls](#)