

# Build the Optimism Geth Source

## 1. Cloning op-geth Repository

```
temp@DESKTOP-47VGQDK:~/home/optimism$ cd ..
temp@DESKTOP-47VGQDK:~/home$ git clone https://github.com/ethereum-optimism/op-geth.git
d op-geth
git fetch --tag --all
giCloning into 'op-geth'...
t checkout v1.101408.0remote: Enumerating objects: 127987, done.
remote: Counting objects: 100% (96/96), done.
remote: Compressing objects: 100% (66/66), done.
remote: Total 127987 (delta 39), reused 56 (delta 29), pack-reused 127891 (from 1)
Receiving objects: 100% (127987/127987), 177.28 MiB | 9.88 MiB/s, done.
Resolving deltas: 100% (89578/89578), done.
temp@DESKTOP-47VGQDK:~/home$ cd op-geth
temp@DESKTOP-47VGQDK:~/home/op-geth$ git fetch --tag --all
temp@DESKTOP-47VGQDK:~/home/op-geth$ git checkout v1.101408.0
Note: switching to 'v1.101408.0'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-c` with the switch command. Example:

```
git switch -c <new-branch-name>
```

Or undo this operation with:

```
git switch -
```

Turn off this advice by setting config variable `advice.detachedHead` to false

HEAD is now at 5c2e75862 triedb/pathdb: support v0 journal format (#368)

```
temp@DESKTOP-47VGQDK:~/home/op-geth$
```

## 2. Compiling Geth

```
github.com/ethereum/go-ethereum/ethclient
golang.org/x/crypto/blake2b
golang.org/x/crypto/ed25519
github.com/jedisct1/go-minisign
github.com/naoina/go-stringutil
github.com/naoina/toml/ast
github.com/naoina/toml
github.com/ethereum/go-ethereum/core/txpool
github.com/ethereum/go-ethereum/core/txpool/blobpool
github.com/ethereum/go-ethereum/core/txpool/legacypool
github.com/ethereum/go-ethereum/eth/protocols/eth
github.com/ethereum/go-ethereum/eth/protocols/snap
github.com/ethereum/go-ethereum/eth/gasprice
github.com/ethereum/go-ethereum/eth/gasestimator
github.com/ethereum/go-ethereum/eth/downloader
github.com/ethereum/go-ethereum/internal/ethapi
github.com/ethereum/go-ethereum/eth/tracers
github.com/ethereum/go-ethereum/miner
github.com/ethereum/go-ethereum/eth/fetcher
github.com/ethereum/go-ethereum/eth/filters
github.com/ethereum/go-ethereum/eth/ethconfig
github.com/ethereum/go-ethereum/ethstats
github.com/ethereum/go-ethereum/graphql
github.com/ethereum/go-ethereum/eth
github.com/dop251/goja
github.com/ethereum/go-ethereum/eth/tracers/live
github.com/ethereum/go-ethereum/eth/tracers/native
go.uber.org/automaxprocs/internal/cgroups
go.uber.org/automaxprocs/internal/runtime
go.uber.org/automaxprocs/maxprocs
github.com/ethereum/go-ethereum/eth/catalyst
github.com/ethereum/go-ethereum/internal/jsre
github.com/ethereum/go-ethereum/eth/tracers/js
github.com/ethereum/go-ethereum/console
github.com/influxdata/influxdb-client-go/v2/api/write
github.com/influxdata/influxdb-client-go/v2/internal/write
github.com/influxdata/influxdb-client-go/v2/api
github.com/influxdata/influxdb-client-go/v2
github.com/ethereum/go-ethereum/metrics/influxdb
github.com/ethereum/go-ethereum/cmd/utlis
github.com/ethereum/go-ethereum/beacon/blsync
github.com/ethereum/go-ethereum/cmd/geth
Done building.
Run "./build/bin/geth" to launch geth.
temp@DESKTOP-47VGQDK:~/home/op-geth$
```

