



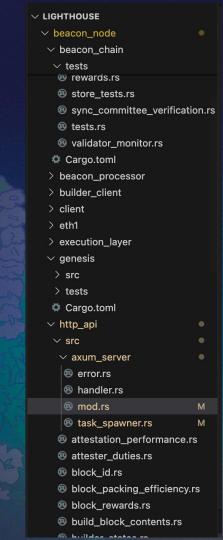
Introduction





The reasons for the transition

- Ease of use: "warp's type system forces to handle types in a difficult manner, sometimes leading to allocate components on the heap"
- Moving to modular approach: make the api's endpoint definitions more modular by defining trait functions, and have a BeaconApi trait
- Unify stack



Scopes limitation

Limited to beacon node API endpoints



Developer challenges: moving fast?

Only removing the warp crate and replaced it by the axum?

Testing performances: conditions

- Warmed up with initial requests
- Sent 100 requests per type of endpoint
- Comparison against warp for total execution time and average response time per request

Testing performances' results



Transition timeline

Optimize task spawner

Prepare global plan to transition

Deliver the tasks :D

2 day - 1 week

Refactor axum task spawner to be initiated with the server initialization

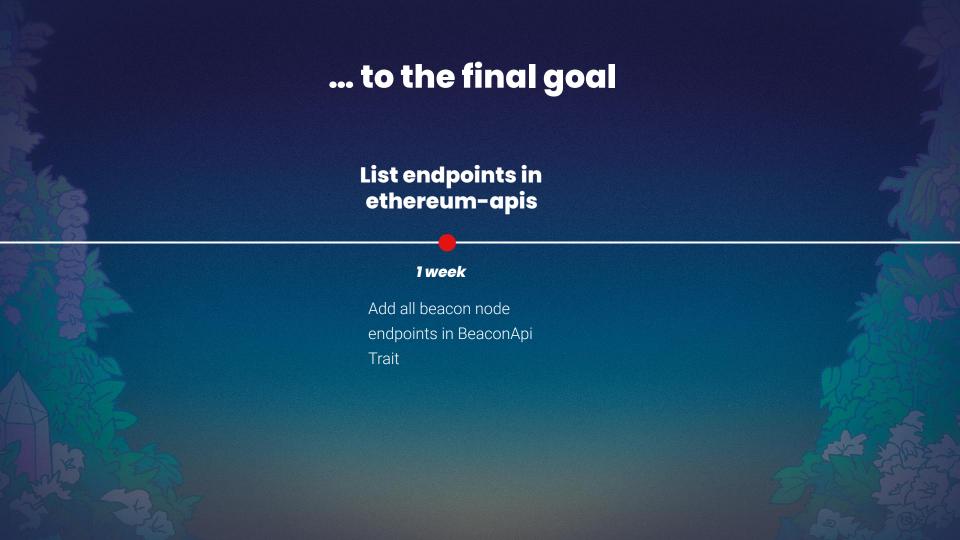
Check tests

1 week

Open issue tracking and split into smallest issues with lighthouse's team

1 month

Deliver task by task following the issues list





Personal insights

- Learned to break down huge refactors into manageable pieces
- Familiarity with Beacon Node API: got used to the beacon node API part of the Lighthouse repository
- Better developer instincts: smarter reflexes for approaching complexes tasks as a developer

Thanks for the guidance and help,

Let's continue to transition.