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VERAE TIME × ZAPIER

## verae-tree-node

site/packages/verae-tree-node/README.md

# verae-tree-node

Bloom-filtered WORM store for Merkle **leaf** proofs. Only the Merkle **root** is sealed on the chain.

**Forgejo:** <https://git.georgelambert.org/marchon/verae-tree-node>

**Catalog:** <https://zapier.georgelambert.org/packages/verae-tree-node/README.pdf>

**User lookup guide:** <https://zapier.georgelambert.org/user-docs/09-lookup-tree-nodes.pdf>

When Zapier submits a **batch**, middleware builds a Merkle tree of item SHA-256s, seals **only the root** on `api.veraetime.net`, and puts each leaf proof on a sharded tree node. A later lookup of a leaf that is not on the main chain fans out `verae.archive.query` with `kinds: ["tree"]`. Nodes that do not hold the leaf send **nothing**.

## Run

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```
cd packages/verae-tree-node
npm test
```

Fleet **keepFloor min=3**. Pause does not count toward the floor.

## Addresses

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Same as archive-worm, with `kind=tree`: `verae.archive.put` / `query` / `reply.<id>` (hit only).

## Depends on

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- NATS (private)
- archive-aggregator for bulk lookup
- fleet replica floor
- chain holds the root only

Clone: `ssh://git@git.georgelambert.org:2223/marchon/verae-tree-node.git`