Multi-tenancy

In a typical GoQuorum or Hyperledger Besu privacy-enabled network, each participant (tenant) uses their own GoQuorum or Besu node and Tessera node. Tessera can be configured to manage multiple key pairs owned by one tenant. This model is costly to run and scale as more tenants join the network.

Multi-tenancy allows multiple tenants to use the same GoQuorum or Besu node, with each tenant having its own private state. Each tenant can perform all operations (create, read, and write) on any contract in its private state. Multi-tenancy provides a user experience similar to a user running their own managed node.

In GoQuorum, you can enable multi-tenancy via multiple private states (MPS), which allows each tenant to have access to multiple private states.

The public state remains publicly available to all tenants, and private states are logically separated.

For more information about GoQuorum multi-tenancy via MPS, see the GoQuorum multi-tenancy documentation. For more information about Besu multi-tenancy, see the Besu multi-tenancy documentation.

Use GoQuorum multi-tenancy

To use GoQuorum multi-tenancy via MPS:

- 1. You must have:
- 2.
- Tessera version21.4.0
- 3.
- or later installed.
- 4.
- GoQuorum version21.4.2
- 5.
- o r later installed.
- 6. If running an earlier GoQuorum or Tessera version upgrade your existing nodes to enable MPS and multi-tenancy
- 7. This includes running the Tessera multi-tenancy migration tool
- 8. to upgrade Tessera to support multi-tenancy.
- 9. Configure multi-tenancy via MPS
- 10. This includesconfiguring MPS in Tessera
- 11. .
- 12. You can alsoadd a new tenant to a multi-tenant node
- 13. .

Use Besu multi-tenancy

To use Besu multi-tenancy, you mustcreate a privacy-enabled network.

Configure multi-tenant Besu and Tessera nodes according to the <u>Besu multi-tenancy configuration tutorial</u>. <u>Edit this page</u> Last updatedonOct 9, 2023 bydependabot[bot] <u>Previous Privacy groups Next How to</u>