

http-backend

The backend is a server that uses SSE Server Side Events

Client subscribe to vaultstream/tokens

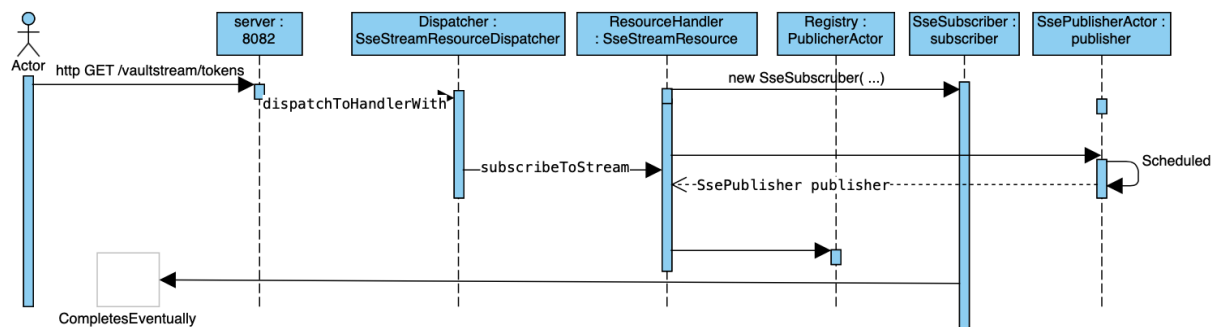


Figure: Server side diagram for how backend builds up incoming listening to vaultstream/tokens. This takes place when http-frontend starts up.

streamName is mapped in *vlingo-http.properties*
in key *sse.stream.name.tokens* – here text after last dot is the streamName

GeneratePrivateToken

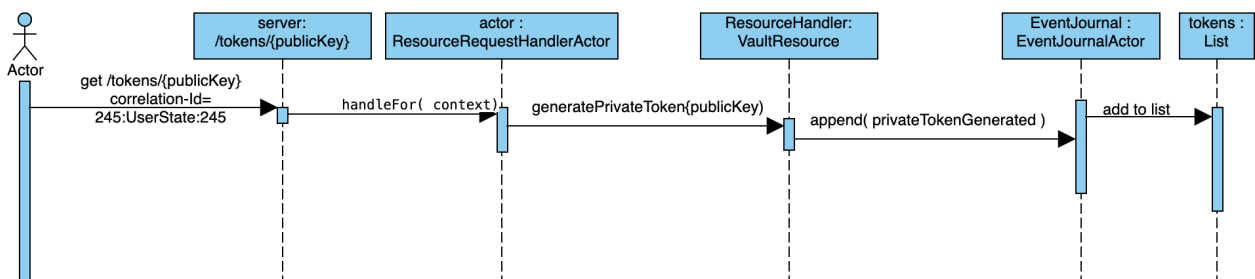


Figure: a private token is generated from backend server by REST call to /tokens/{publicKey}

The correlation-Id must be set to something to match back on.

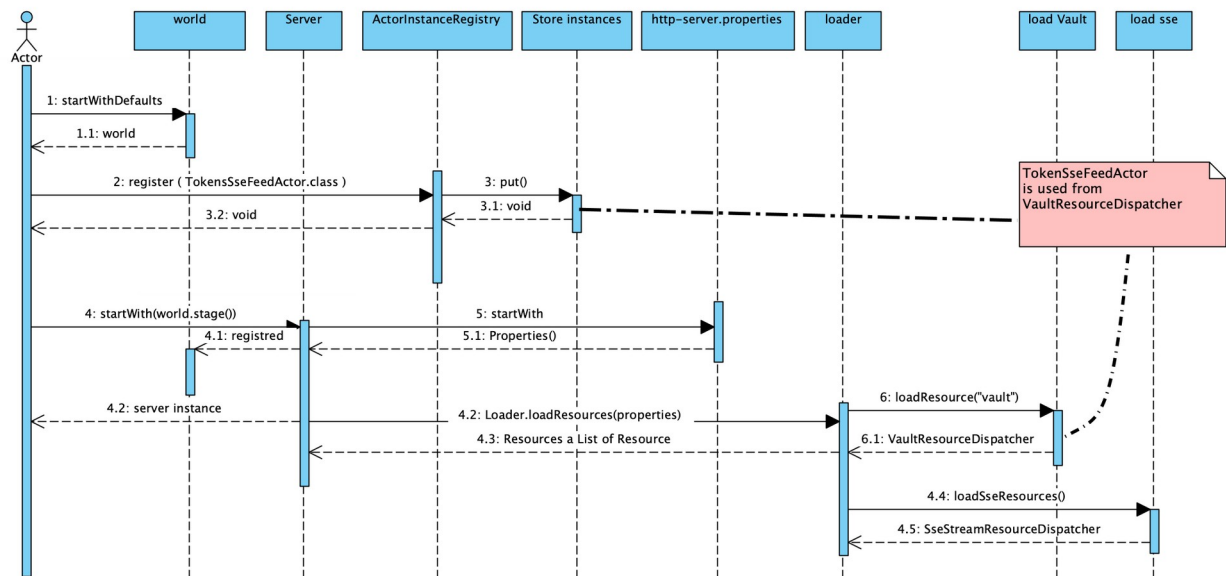
Define server

To define the http web server (class `Server`) this sample uses two components from `vlingo-http` plugin. A vault component and a sse component.

This is basic what happens when server is declared.

1. A factory for `TokenSseFeedActor` is declared and stored in static factory
2. server reads property file called `http-server.properties`
3. Load web resources
 - a) Load vault
 - b) Load sse

A precondition to the server is that `TokenSseFeedActor`'s factory must be declared because that `ActorInstanceRegistry` works together with properties in `http-server.properties`.



Vlingo is designed with basics programming patterns

- Components are immutable
- Components are added with using a fluent configuration.
- World contains stages that contains actors.
- World is **NOT** immutable – actors are born and actors are retired and taken out.
- World can be terminated – and a new world can be started. This helps testing here each test in a test case can have it's own world.
- Actors are born, updated and removed – actors are NOT immutable.

These patterns are in progress and some older code does not 100% live up to all this.

Improvements

In general nothing should be "hidden"

Fluent Building World