Serverless CQRS Kotlin Setup

Set up your development environment

To develop & run a function with Kotlin and IntelliJ, install the following software:

Java Developer Kit (JDK), version 8 →
https://docs.microsoft.com/en-us/azure/developer/java/fundamentals/java-jdk-long-term-support

Apache Maven, version 3.0 or higher → https://maven.apache.org/

IntelliJ IDEA Community version with Maven (latest version)→
https://www.jetbrains.com/idea/download/#section=windows

Azure CLI → https://docs.microsoft.com/en-us/cli/azure/

Version 2.x of the Azure Functions Core Tools. It provides a local development environment for writing, running, and debugging Azure Functions. → https://docs.microsoft.com/en-us/azure/azure-functions/functions-run-local?tabs=windows%2Ccsharp%2Cbash#v2

For additional information about set up go to the following URL if needed
https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-maven-kotlin-intellij

Running the API

Get the repo here → https://github.com/timhamelin/ServerlessCQRSKotlin.git

Once you have checked out the code, you will need the following set up on your workstation:
1. A local installation of EventStoreDB is required to run this project. Make sure that the event store database is installed and running. This can be verified by loading http://localhost:2113/web/index.html#/ The default username/password is admin/changeit. Commands cannot be issued to the hotel reservation system without an active event store.

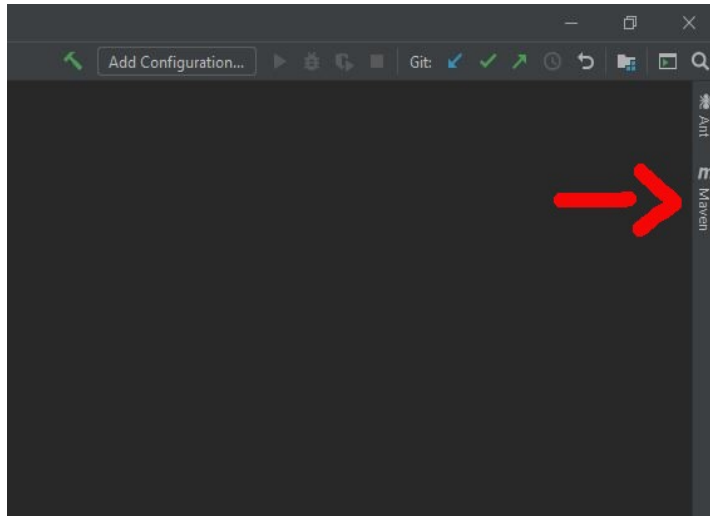There are 2 methods of installing event store.
1. You can find installation instructions at https://www.eventstore.com/.
2. A docker-compose.yml file has also been provided in the repositories root directory. Execute the command docker-compose up in the root directory if you have docker installed.
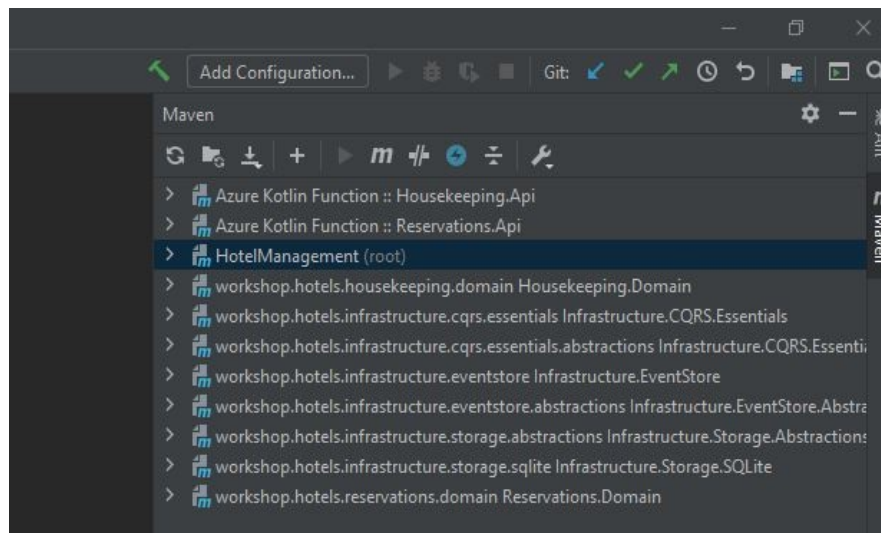
Open HotelManagement with Intellij IDEA

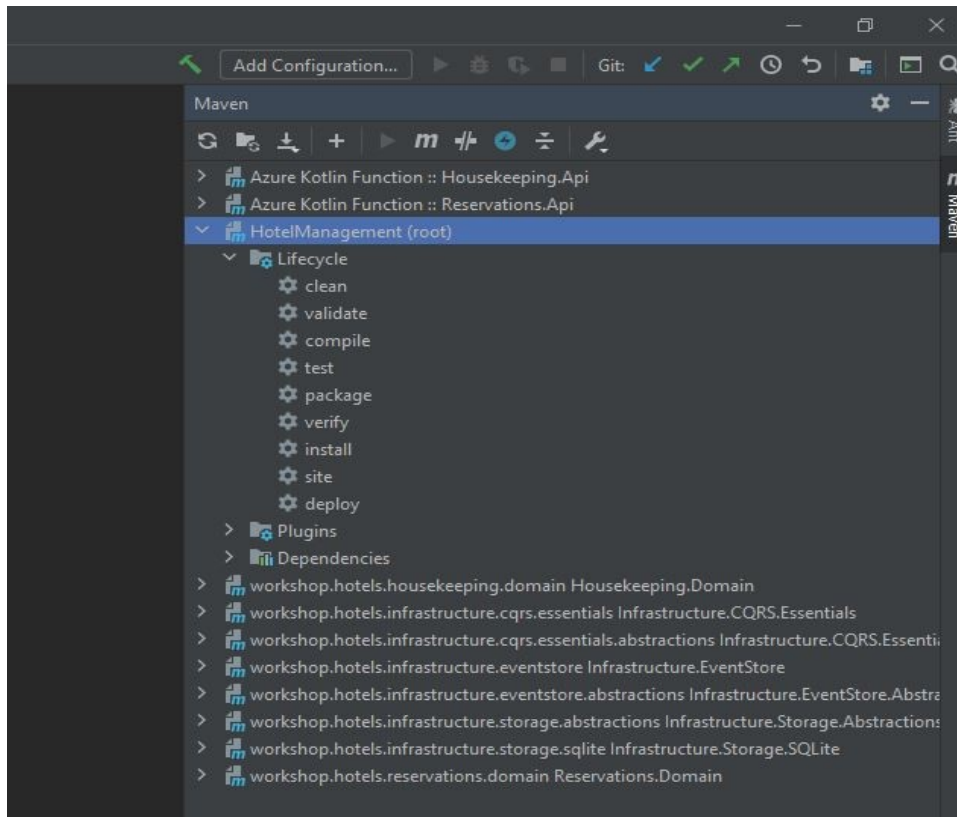To run one of the APIs do the following steps to package up dependencies and run

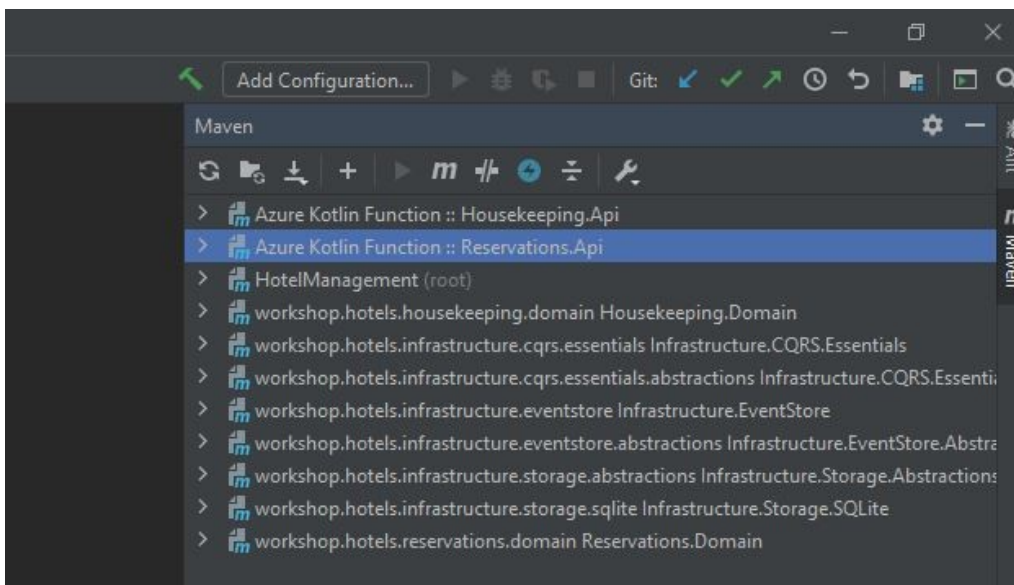1. Select Maven on the right side of Intellij
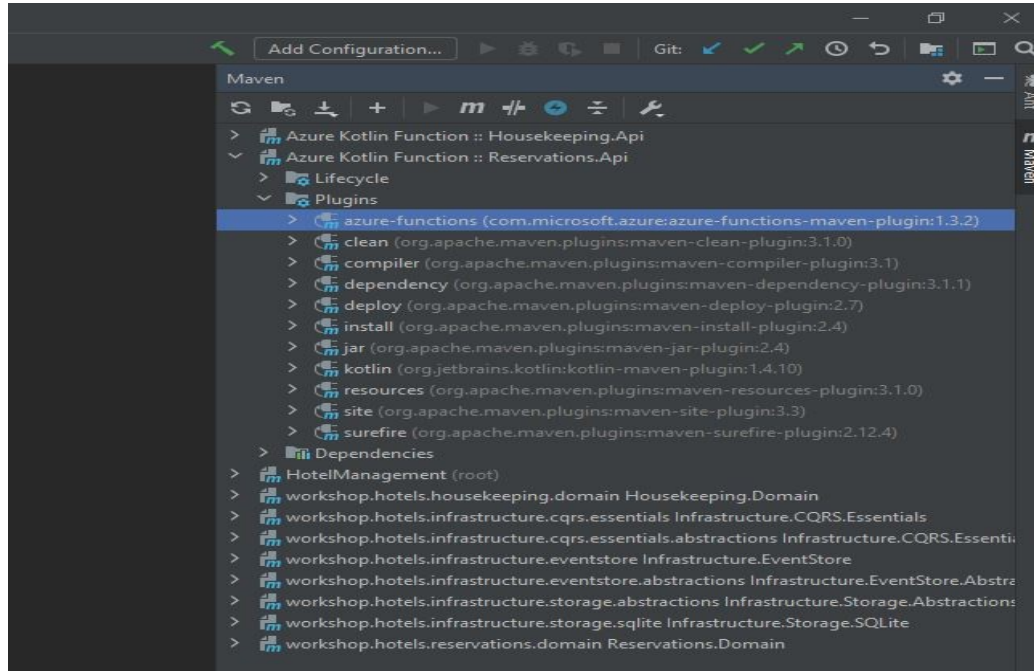

2. Expand HotelManagement

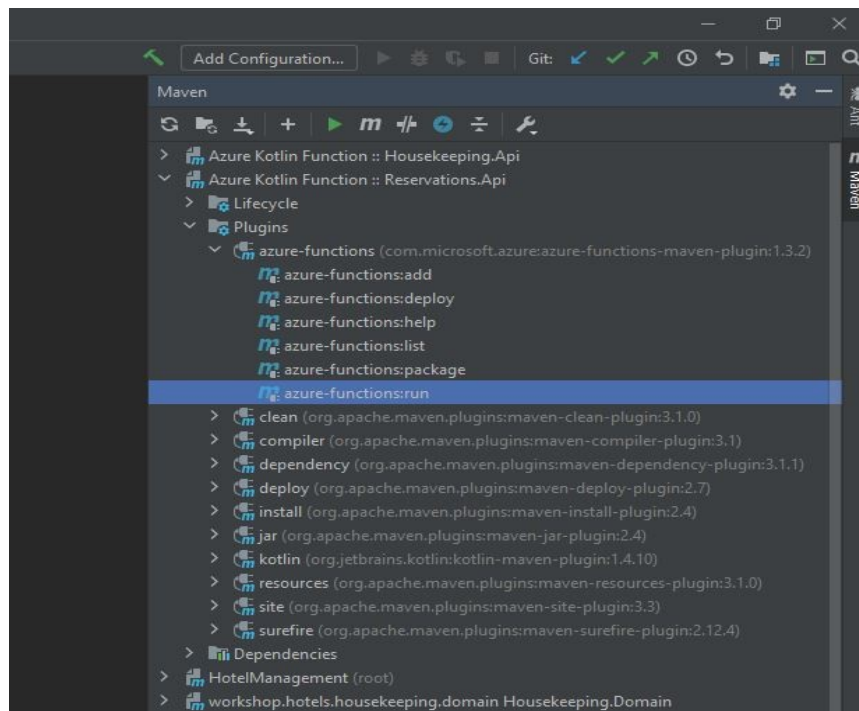3. Expand Lifecycle. Run clean, followed by package

4. Expand Azure Kotlin Function :: Reservations.api

5. Expand Plugins. Expand azure-functions

6. Run azure-functions:run

For additional information about debugging azure functions locally using IntelliJ IDEA go to the following URL

https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-maven-kotlin-intellij