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Everytime we run the application, the application will automatically create new docker image, that we can deploy database separately

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Connect datasource through docker db port

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A diagram of a software structure

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After creating billing service -> go to github link and add the dependencies in pom.xml

Next create billing\_service.proto in the main folder

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Binding the port based on the host port and grbc port

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Run option is –network internal

After configuration the billing service into Patient Service, need to configure the patient service configuration in intelliJ

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1. Kafka

Synchronous message

* gRPC and REST are synchronous – good for 1-1 microservice communication
* But what about 1 to many microservice communication

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Kafka Broke is similar to server that store and deliver messages to consumers

A diagram of a company

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Topic – categorize channel

Producer – store code of microservice container any data that broker need

gRPC: 1-1 microservice communication, when you need an immediate response(i.e synchronous)

Kafka: 1-to-many microservice communicate, do not need an immediate response(i.e asynchronous)

* First thing – setup kafka broker (server that runs kafka)

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A diagram of a software application

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When we remove the bind port so we cannot access it on the internet but it is still running internal