

# hazelcast-examples (0.0.1)

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Version 0.0.1, 2019-04-05 21:52:17 UTC

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# Introduction

*docker / docker-compose*

```
./mvnw
```

Resources:

- [Hazelcast getting started](#)

# Implementation

## app

*build, run and test*

```
./mvnw clean install -f ./subzero-kryo-app/pom.xml
./subzero-kryo-app/subzero-kryo-app-backend/target/*.jar &
http :8080 ololo=trololo
http :8080 hoho=ofo
http :8080
```

## pub-sub

*config*

```
public static final HazelcastInstance instance = createInstance();
public static final HazelcastInstance client = createClient();
```

*publisher*

```
final String topicName = "domainEventsTopic";
final HazelcastInstance client = Hz.client;
final Function<String, ITopic<DomainEvent>> topic = client::getTopic;
final Function<String, DomainEvent> data = message -> DomainEvent
    .builder()
    .createdAt(LocalDateTime.now())
    .type(DomainEvent.Type.NONE)
    .jsonData(JSON.stringify(singletonMap("message", message)))
    .build();

if (args.length > 0) {
    final String message = String.join(" ", args);
    topic.apply(topicName)
        .publish(data.apply(message));
}
```

*subscriber*

```
@Slf4j
@Configuration
class PubSubHzCfg {
    @Bean(name = "hzInstance", destroyMethod = "shutdown")
    HazelcastInstance hzInstance() {
        return Hz.instance;
    }

    @Bean(name = "domainEventsTopic")
    ITopic<DomainEvent> domainEventsTopic(@Qualifier("hzInstance") final
    HazelcastInstance hzInstance) {
        return hzInstance.getTopic("domainEventsTopic");
    }

    @Bean
    ApplicationRunner applicationRunner(@Qualifier("domainEventsTopic") final ITopic
    <DomainEvent> domainEventsTopic) {
        return args -> domainEventsTopic.addListener(
            message -> log.info("received message: {}",
                                message.getMessageObject(),
                                message.getPublishingMember(),
                                new Date(message.getPublishTime())));
    }
}
```

## kryo (subzero)

*config*

```
public static final Config config = createConfig();

private static Config createConfig() {
    final Config config = new Config();
    SubZero.useAsGlobalSerializer(config);
    return config;
}
```

```
@Value
@Builder
@JsonIgnoreProperties(ignoreUnknown = true)
public class DomainEvent /* implements Serializable */ {
    public enum Type {
        NONE
    }

    // we don't need any serialization, because SubZero Kryo was added globally
    // // private static final long serialVersionUID = -3158689686565990234L;
    @JsonFormat(pattern = "yyyy-MM-dd'T'HH:mm:s")
    @JsonDeserialize(using = LocalDateTimeDeserializer.class)
    @JsonSerialize(using = LocalDateTimeSerializer.class)
    final LocalDateTime createdAt;
    final Type type;
    final String jsonData;
}
```

```
./mvnw clean install -f ./subzero-kryo-app/pom.xml
./subzero-kryo-app/subzero-kryo-app-backend/target/*.jar &
http :8080 ololo=trololo
http :8080 hoho=ofo
http :8080
```

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TODO: implement documentation...

# Links

- [GitHub repo](#)
- [GitHub pages](#)