

Lección 7 - IMDG II

Tecnologías del sector financiero

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Práctica 1: Event listener sobre caché de órdenes.

En el 'listener' se han añadido las funcionalidades para llevar la cuenta sobre los eventos que se han registrado para llevar la cuenta, y para poder actualizarlos después. Para ello se ha usado un 'hash map', que ha ido coleccionando todos los eventos.

Al ejecutarlo deja la siguiente traza:

```
Members [2] {
  Member [localhost]:5701 - a6b3957a-244c-4ad6-b0ed-c922cc1ca2b2 this
  Member [localhost]:5702 - 09ce38c4-9fdd-4505-86ad-6c4e80ef70dc
}

dic 10, 2018 4:32:23 PM com.hazelcast.internal.partition.impl.PartitionStateManager
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Initializing cluster partition table arrangement...
Se han acumulado 30000 unidades.
Se han acumulado 30000 unidades.
Se han acumulado 30000 unidades.
Se han acumulado 30000 unidades.
Se han acumulado 30000 unidades.
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Se han acumulado 30000 unidades.
Se han acumulado 30000 unidades.
dic 10, 2018 4:32:25 PM com.hazelcast.internal.partition.impl.MigrationManager
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Shutdown request of [localhost]:5702 is handled
dic 10, 2018 4:32:25 PM com.hazelcast.internal.partition.impl.MigrationManager
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Re-partitioning cluster data... Migration queue size: 135
dic 10, 2018 4:32:26 PM com.hazelcast.nio.tcp.TcpIpConnection
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Connection[id=1, /127.0.0.1:5701->/127.0.0.1:58145, endpoint=[localhost]:5702, alive=false, type=MEMBER] closed. Reason: Removing member [localhost]:5702, uuid: 09ce38c4-9fdd-4505-86ad-6c4e80ef70dc, requested by: [localhost]:5702
dic 10, 2018 4:32:26 PM com.hazelcast.internal.cluster.ClusterService
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Removing Member [localhost]:5702 - 09ce38c4-9fdd-4505-86ad-6c4e80ef70dc
dic 10, 2018 4:32:26 PM com.hazelcast.internal.cluster.ClusterService
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2]

Members [1] {
  Member [localhost]:5701 - a6b3957a-244c-4ad6-b0ed-c922cc1ca2b2 this
}
```

El 'adder' deja la siguiente traza:

```
Members [2] {
  Member [localhost]:5701 - a6b3957a-244c-4ad6-b0ed-c922cc1ca2b2
  Member [localhost]:5702 - 09ce38c4-9fdd-4505-86ad-6c4e80ef70dc this
}

dic 10, 2018 4:32:23 PM com.hazelcast.core.LifecycleService
INFORMACIÓN: [localhost]:5702 [dev] [3.7.2] [localhost]:5702 is STARTED
dic 10, 2018 4:32:25 PM com.hazelcast.core.LifecycleService
INFORMACIÓN: [localhost]:5702 [dev] [3.7.2] [localhost]:5702 is SHUTTING_DOWN
dic 10, 2018 4:32:26 PM com.hazelcast.instance.Node
INFORMACIÓN: [localhost]:5702 [dev] [3.7.2] Shutting down connection manager...
dic 10, 2018 4:32:26 PM com.hazelcast.nio.tcp.TcpIpConnection
INFORMACIÓN: [localhost]:5702 [dev] [3.7.2] Connection[id=1, /127.0.0.1:58145->localhost/127.0.0.1:5701, endpoint=[localhost]:5701, alive=false, type=MEMBER] closed. Reason: TcpIpConnectionManager is stopping
dic 10, 2018 4:32:26 PM com.hazelcast.instance.Node
INFORMACIÓN: [localhost]:5702 [dev] [3.7.2] Shutting down node engine...
dic 10, 2018 4:32:26 PM com.hazelcast.instance.NodeExtension
INFORMACIÓN: [localhost]:5702 [dev] [3.7.2] Destroying node NodeExtension.
dic 10, 2018 4:32:26 PM com.hazelcast.instance.Node
INFORMACIÓN: [localhost]:5702 [dev] [3.7.2] Hazelcast Shutdown is completed in 477 ms.
dic 10, 2018 4:32:26 PM com.hazelcast.core.LifecycleService
INFORMACIÓN: [localhost]:5702 [dev] [3.7.2] [localhost]:5702 is SHUTDOWN
```

Práctica 2: Búsquedas y modificaciones con EntryProcessor.

El output conseguido en la tarea es el siguiente:

```
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2]

Members [1] {
    Member [localhost]:5701 - e538e04f-1d93-449f-a705-3780aebd869c this
}

dic 10, 2018 4:29:27 PM com.hazelcast.core.LifecycleService
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] [localhost]:5701 is STARTED
dic 10, 2018 4:29:27 PM com.hazelcast.internal.partition.impl.PartitionStateManager
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Initializing cluster partition table arrangement...
dic 10, 2018 4:29:28 PM com.hazelcast.core.LifecycleService
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] [localhost]:5701 is SHUTTING_DOWN
dic 10, 2018 4:29:28 PM com.hazelcast.internal.partition.impl.MigrationManager
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Shutdown request of [localhost]:5701 is handled
dic 10, 2018 4:29:28 PM com.hazelcast.instance.Node
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Shutting down connection manager...
dic 10, 2018 4:29:28 PM com.hazelcast.instance.Node
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Shutting down node engine...
dic 10, 2018 4:29:28 PM com.hazelcast.instance.NodeExtension
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Destroying node NodeExtension.
dic 10, 2018 4:29:28 PM com.hazelcast.instance.Node
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] Hazelcast Shutdown is completed in 46 ms.
dic 10, 2018 4:29:28 PM com.hazelcast.core.LifecycleService
INFORMACIÓN: [localhost]:5701 [dev] [3.7.2] [localhost]:5701 is SHUTDOWN
El total negociado del día ha sido de 965500 ordenes
```

Esto se ha conseguido extrayendo la orden desde el Map, ya que no se puede editar directamente en el. Luego se ha sumado de nuevo para tenerlo disponible en el set.