Hazelcast Documentation

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Chapter 1

Preface

Welcome to the Jet Reference Manual. This manual includes concepts, instructions, and samples to guide you on how to use Jet and build Jet applications.

As the reader of this manual, you must be familiar with the Java programming language and you should have installed your preferred Integrated Development Environment (IDE).

Chapter 2

Code Deployment

Code deployment feature enables you to distribute various resources to be used in your processors. Those resources can be a class file, JAR file or any type of file. By deploying your classes/JAR files to the cluster, you don't need to worry about restarting the cluster to update the business logic anymore. The only thing you need to do is just configure required class/JAR files for your Job and Hazelcast Jet will handle the distribution of your classes to the all nodes and loading of them when required. Hazelcast JET also provides isolation of the resources in the Job scope.

2.1 Configuration

You can use any of the following methods to specify the deployment on your JobConfig object. The specified with resource will be uploaded to the all worker nodes when the Job starts it's execution.

- /** * Add JAR to the job classLoader @param url location of the JAR file */ public void addJar(URL url)
- /** * Add JAR to the job classLoader @param url location of the JAR file * @param id identifier for the JAR file */ public void addJar(URL url, String id)

- /** * Add JAR to the job classLoader @param path path the JAR file */ public void addJar(String path)
- /*** Add resource to the job class Loader @param url source url with classes */ public void add Resource(URL url)
- /** * Add resource to the job classLoader @param file resource file */ public void addResource(File file)

2.2 Example Configuration

```
JobConfig config = new JobConfig();
String jarPath = "/path/to/jar/file.jar";
config.addJar(path);

Job job = JetEngine.getJob(hazelcastInstance, name, dag, config);
job.execute(); // The JAR file will be uploaded to the all nodes
// All the classes it contains will be loaded by the worker class loader
```

2.3 Retrieving deployed resources on the Processor

All the deployments will be available as a resource to the Processor class loader. To access those resources inside the processor you need to get a reference to the class loader, then access to the resource either using getResource(String name) or getResourceAsStream(String name) methods. Resources can be accessed via their file names or with the identifiers (if assigned any while configuring the deployment).

2.3.1 Example

2.4