

Rethink Real Time

Lab2 – Java/NodeJS/.NET

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What will you learn ?

Creating and running a Diffusion Publisher & Subscriber:

1. Java
2. NodeJS
3. .NET (C#)

Sending and receiving Diffusion messages:

4. Java (Advanced)

But First!

The examples are configured to run against a **LOCAL** Diffusion server instance. If you've created a Diffusion Cloud instance or using one of the provided ones, you'll need to update the source to point to this.

You'll need to change one or more of:

1. Host
2. Port
3. Principal
4. Credentials



Java

Compiling the examples:

```
mvn dependency:copy-dependencies  
mvn install
```

This will download all dependencies, compile with maven and create a .jar in the target directory.

Running the examples:

```
java -cp "target/Lab1-0.0.1-SNAPSHOT.jar:target/dependency/*" com.diffusion.training.lab1.HelloWorldPublisher  
java -cp "target/Lab1-0.0.1-SNAPSHOT.jar:target/dependency/*" com.diffusion.training.lab1.HelloWorldSubscriber
```

Shortcut!

Execute publisher.sh (mac/Linux) or publisher.bat (Windows)



NodeJS

Install dependencies:

```
npm install
```

Running the examples:

```
node publish.js  
node subscribe.js
```



.NET (C#)

Compiling and running the examples using Visual Studio:

Open the PubSub.sln file in Visual Studio (**NOT** Visual Studio Code).

Select either the publish or subscribe project before running.

*Make sure the **Target Framework** is set appropriately (i.e. what is installed).*

Compiling the examples using .NET Core:

Run `dotnet build PubSub.sln` from the same directory as **PubSub.sln**.

This will compile the projects to two separate DLLs.

Running the examples:

```
dotnet Publish/bin/Debug/net6.0/PubSub.dll
```

```
dotnet Publish/bin/Debug/net6.0/Subscribe.dll
```

You may need to change **net6.0** to the version of the framework compiled against.

DIFFUSION DATA™

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Q & A ?

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Thank You !