DIFFUSION DATA™
Rethink Real Time

Lab 1 – Setting up Diffusion

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What will you learn ?

Installation & setting up a topic:

1. Several options:
   a. Docker
   b. Locally
   c. Diffusion Cloud
2. Setting up a topic in the console

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Docker

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Installation – Docker

Pull the latest version of the Diffusion® image:

docker pull pushtechnology/docker-diffusion:6.9.0

Run the image (**image_id** is the ID of the image to run):

docker run –p 8080:8080 image_id

To find a valid **image_id** you can:

docker images

Diffusion® is now running in a container on your system!

Installation - Locally

To install Diffusion on your local machine, download the free trial version from
https://www.diffusiondata.com/try-diffusion-on-premise

Make sure you have one of the following compatible versions of Java installed:

1. Java 8 JDK (1.8.0_131-b11 or higher)
2. Java 11 JDK (11.0.3 GA or higher, Hotspot JVM)

Run the **diffusion-installer-6.x.x.jar** file you just downloaded.

You can select which Diffusion® components to install. The defaults are fine.

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Installation - Locally

Once Diffusion® is installed, navigate to the directory where you installed it and run the startup script.

You should see Diffusion®'s startup logs in the terminal.

By default, Diffusion®'s web console will now be running at **localhost:8080** with admin credentials set to **admin / password**.

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Installation - Locally

On macOS or Linux, from the terminal, run either:

sh bin/diffusion.sh

sh bin/diffusion_java11.sh

On Windows, either from Windows Explorer, Windows Powershell or the Command Terminal, run either:
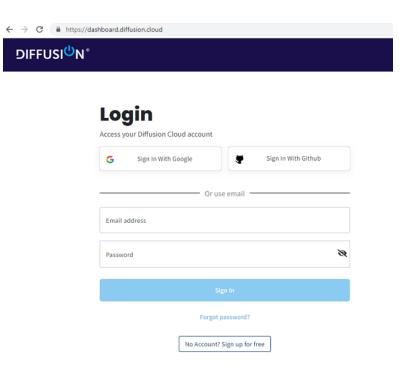
bin\diffusion.bat

bin\diffusion_java11.bat

Cloud

Creating a Diffusion Cloud Account

To create an account:

1. Go to https://dashboard.diffusion.cloud

2. Sign up for a free Diffusion® Cloud account, or login using your Google™ or GitHub account. (This may have changed since this was written)
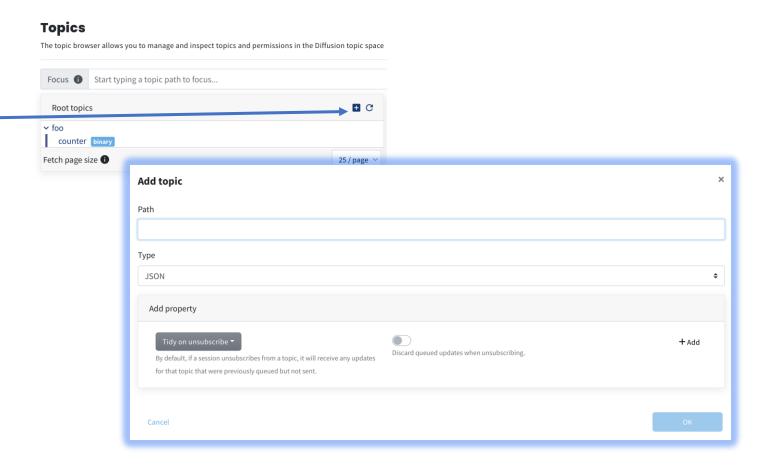
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Create a Topic

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On-Premise - Topics

Creating a new topic:

1. Click the **+** icon.
2. Choose a path: /test
3. Choose a type, set JSON for this.

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On-Premise - Topics

Setting topic value:

1. Click the **Edit** button.
2. Set some JSON, remember that keys are wrapped in double quotes (").
3. Click S**ave**.

Subscribing to topic:

1. Click **Subscribe to topic**.
2. The subscription appears in the **Topic Subscriptions** window.

To be useful, we'll need a code based client!

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Q & A ?

Thank You !