Distributed PUB/SUB Exercise

The goal of this exercise is to build a small service-oriented system consisting of a producer service which generates random numbers and an Agular based web application to configure the producer and to display the results in a xy-Graph. The services should communicate through Redis PUB/SUB.

Angular UI

Webserver

Redis Server

Producer

Producer:

* Small c# application generating random numbers
* Configurable interval for number generation
* 2 independent number generators to simulate a **two-axis** system
* Intervals can be changed by Angular UI by sending an update interval message
* Publish generated numbers trough Redis
* Number generation can be started and stopped by the Angular UI individually

UI:

* Two pages
* 1 Configuration page to setup / define the interval for the two “axis”.
* 1 Page to display the values generated and start and stop the individual axis
  + Actual number per “axis”
  + XY-Graph per “axis”
* Nice Layout
  + Up to your imagination

Webserver:

* Small nodejs application.

Platform is your choice:

* Winodws, Linux, Mac are welcome