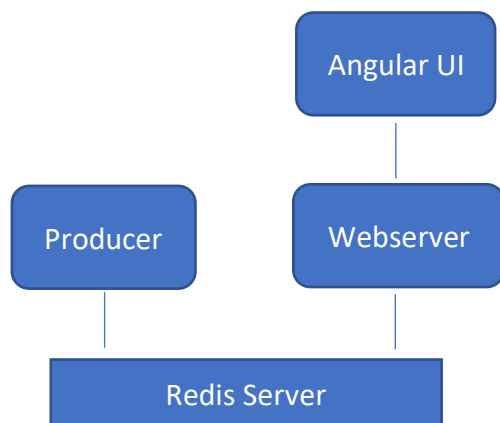


## Distributed PUB/SUB Exercise

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



### 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 through 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:

- Windows, Linux, Mac are welcome