Perfect World Programming presents

Spring in a Vert.x World

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Who am I?

- Developed mod-spring-appcontext Vert.x module (really just a jar)

- One man of Perfect World Programming LLC - where I do training and consulting, except for the past year and a half

- Chief Software Architect for Z4 Poker, LLC where we are using Vert.x to build the fastest biggest online Poker application

Who Cares?

Topics

- Why use Spring within your Vert.x applications

- Why inject Vert.x into your Spring applications. (You got peanut butter in my chocolate)

- mod-spring-appcontext

- Demo

Why use Spring within your Vert.x applications

- You already have code that you want to re-use in your Vert.x application and that code is already using Spring

- You want to use dependency injection in your Vert.x application

- You want your Vert.x application to be able to send things on the eventBus to your Spring application

- You want to take advantage of the many Spring projects in your Vert.x application

Why inject Vert.x into your Spring applications

- You want your Spring application to be able to send things on the eventBus to your Vert.x application

mod-spring-appcontext

- Vert.x module - sort of

  - Current version works best as a dependency jar

    - requires a little more work than I would have liked

  - Future version will be a plain module

    - I wrote the module with earlier versions of Vert.x which had a different classloader design

  - Will allow us to configure it with config.json

https://github.com/bytor99999/mod-spring-appcontext
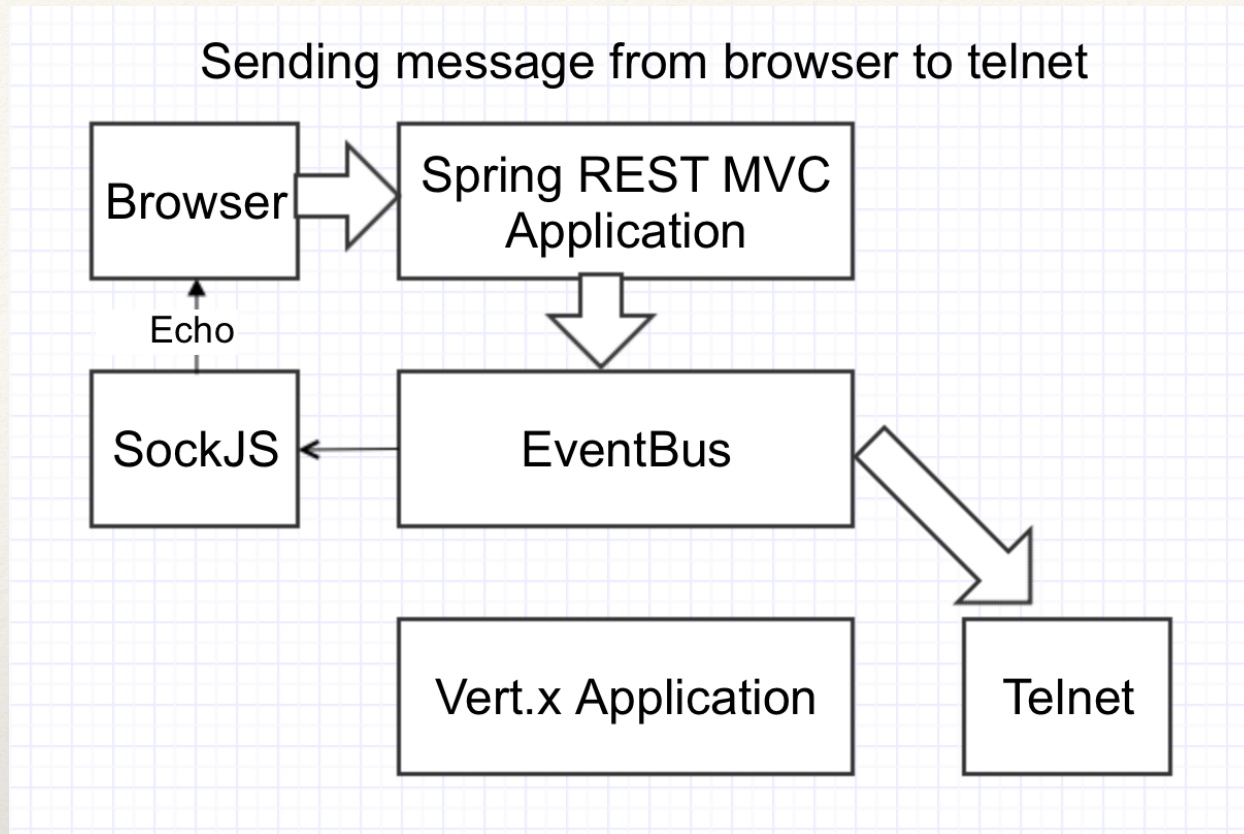
mod-spring-appcontext - how to use

❖ Use xml or Spring @Configuration class

❖ Add the mod-spring-appcontext jar file as a dependency to your project

❖ Now in code: Create a JsonObject to store some meta data

   ❖ "configFiles" property takes a JsonArray of config files

   ❖ "configType" property says what type of Spring config files are you using xml or @Configuration

❖ If you want Vert.x injected into your beans (optional) call
   `SpringApplicationContextHolder.setVertx(vertx);`

❖ Then create the ApplicationContext by calling
   `SpringApplicationContextHolder.createApplicationContext(configFiles);`

❖ Now get your beans.

DEMO!!!

https://github.com/bytor99999/SpringInAVertxWorld
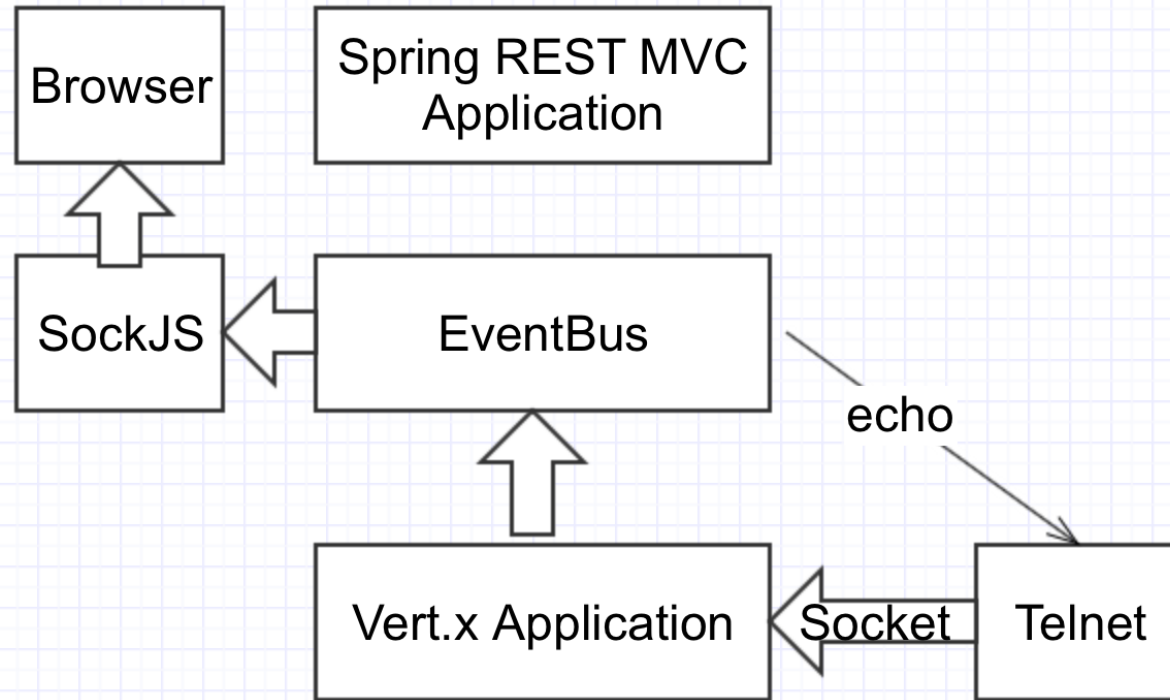
Sending message from browser to telnet

Pushing message from Spring onto EventBus

Vert.x embedded in Spring MVC Web App

Message sent by injected EventBus

Sending message from telnet to browser

Using Web Sockets to push

Spring embedded in Vert.x

The Handler is defined as a Spring bean.

Thank you very much. Unless we still have time for a different topic? Then lets talk some more.

Because we have extra time

- Discussion on Vert.x addressing granularity:
  - Coarse grained. Address per verticle type
  - Fine grained. Addressing via application data
    - address per userID
    - address per tableID
    - address per casino
  - Mid grained. Addressing per action type.
    - address on table sit down
    - address on player betting
    - address on avatar change

Because we have extra time

- Possible Other Topics -

  - Different types of Verticles, Verticle versus Worker Vertical

  - Storing state in Verticles

  - Classloaders

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2 Select session from schedule

3 Evaluate: +1 0 -1

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