

Testing the Spring Boot Project



Dan Bunker

www.linkedin.com/in/bunkerdan

Getting Started with Spring Boot Testing

spring-boot-starter-test

Always start with the starter

JUnit

For all your unit testing
needs (<http://junit.org>)

Hamcrest

Matching and assertions
(<http://hamcrest.org>)

Mockito

Mock objects and verify
(<http://mockito.org>)

Spring Test

Testing tools and
integration testing support

Demo

Add the spring-boot-starter-test dependency

Construct a test

Running tests

Demo

Declarative, readable matching rules

Integration Testing Challenges

Traditional Spring Apps

Containers are difficult to test

Spring Context needs to be available

App/Test startup can be slow

Database state needs to be consistent

Spring Boot Apps

No container, easier to start app

Spring Context auto configuration

App/Test startup can be slow

Database state needs to be consistent

Demo

@RunWith(SpringJUnit4ClassRunner.class)

@SpringApplicationConfiguration

Demo

Web integration test == calling REST API

@WebIntegrationTest

Summary

spring-boot-starter-test dependency

JUnit, Hamcrest, Mockito, Spring Test

Basic unit test

Mocked unit test

Hamcrest result matching and assertions

Integration test

Web integration test