

First Application

Bryan Hansen
twitter: bh5k

<http://www.linkedin.com/in/hansenbryan>

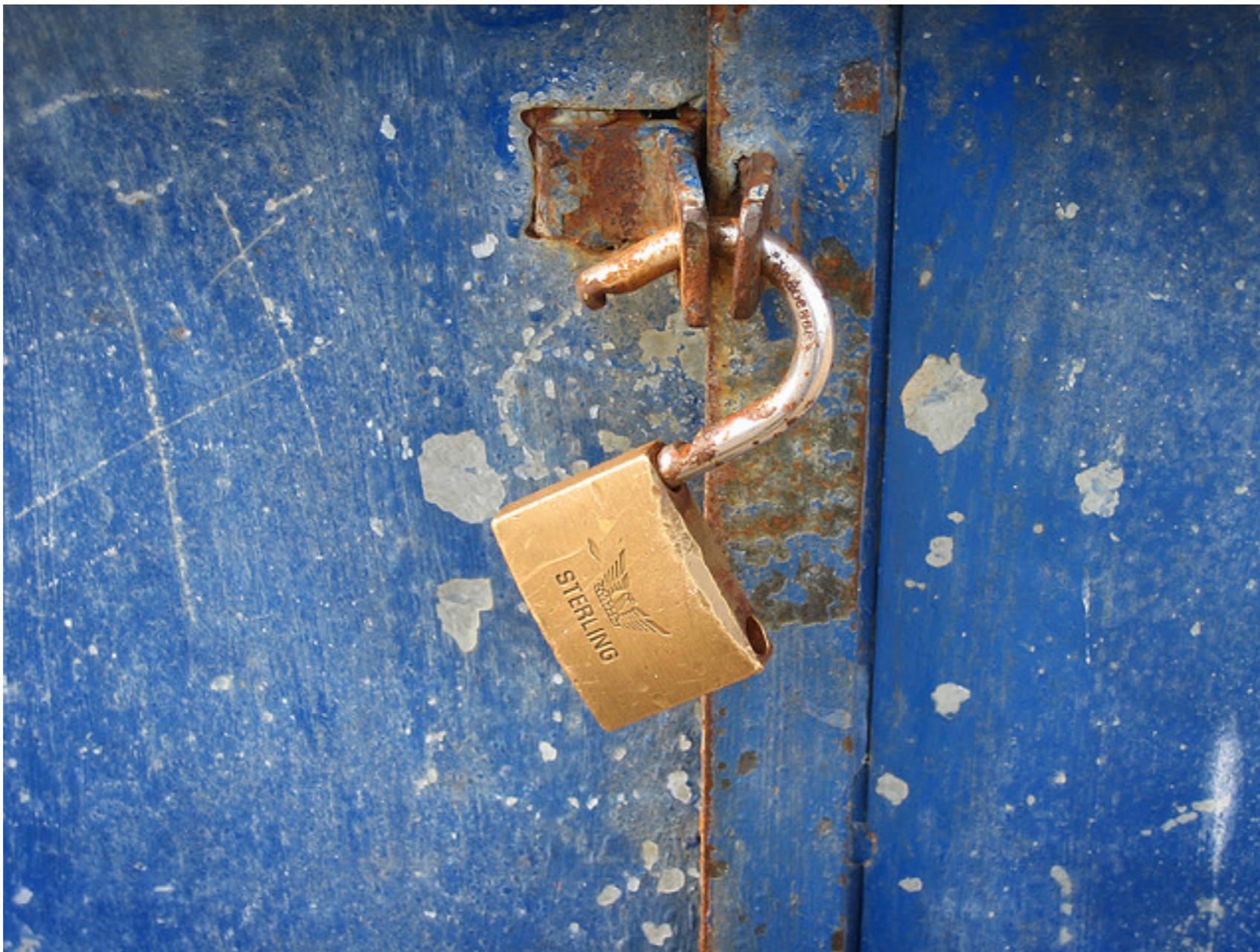


pluralsight hardcore dev and IT training

Architecture



Authentication VS Authorization



Authentication

Who
Am
I?

Authorization

Question #1:

What can
I do here?

Maven

- Need to add three jars in addition to the Spring jars

- spring-security-web
- spring-security-config
- commons-logging

```
<dependency>
    <groupId>org.springframework.security</groupId>
    <artifactId>spring-security-web</artifactId>
    <version>3.2.0.RELEASE</version>
</dependency>

<dependency>
    <groupId>org.springframework.security</groupId>
    <artifactId>spring-security-config</artifactId>
    <version>3.2.0.RELEASE</version>
</dependency>

<dependency>
    <groupId>commons-logging</groupId>
    <artifactId>commons-logging</artifactId>
    <version>1.1.1</version>
</dependency>
```

web.xml

- Just like Spring MVC, we need to bootstrap Spring Security

- Context Loader Listener

```
<listener>
    <listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>
</listener>
```

- Config Location

```
<context-param>
    <param-name>contextConfigLocation</param-name>
    <param-value>
        /WEB-INF/config/security-config.xml
    </param-value>
</context-param>
```

- Application Entry Point

```
<filter>
    <filter-name>springSecurityFilterChain</filter-name>
    <filter-class>org.springframework.web.filter.DelegatingFilterProxy</filter-class>
</filter>

<filter-mapping>
    <filter-name>springSecurityFilterChain</filter-name>
    <url-pattern>/*</url-pattern>
</filter-mapping>
```

security-config.xml

- Another XML file
 - src/main/resources
 - src/main/webapp/WEB-INF/config
- Spring Security XML namespace

```
<beans:beans xmlns:beans="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:context="http://www.springframework.org/schema/context"
    xmlns:p="http://www.springframework.org/schema/p"
    xmlns="http://www.springframework.org/schema/security"
    xsi:schemaLocation="http://www.springframework.org/schema/security
        http://www.springframework.org/schema/security/spring-security-3.2.xsd
        http://www.springframework.org/schema/beans
        http://www.springframework.org/schema/beans/spring-beans.xsd
        http://www.springframework.org/schema/context
        http://www.springframework.org/schema/context/spring-context-3.2.xsd">
```

Minimal Security Configuration

- The filter in the web.xml has to point to something in the Spring configuration
- The simplest configuration can be obtained using the http tag:

```
<http auto-config="true">
    <intercept-url pattern="/**" access="ROLE_USER"/>
</http>
```

- This specifies that every url must have be accessed by someone that has the authority of ROLE_USER
- To setup a user we must define a

```
<authentication-manager>
    <authentication-provider>
        <user-service>
            <user name="bryan" password="secret" authorities="ROLE_USER"/>
        </user-service>
    </authentication-provider>
</authentication-manager>
```

Summary

- Added maven dependencies
- Bootstrapped our security in the web.xml
- Created a configuration file
- Added the minimal configuration for security
- Created a user to test with

