Spring Professional Exam Tutorial v5.0 Question 03

Question 03 - What is the delegating filter proxy?

DelegatingFilterProxy is an internal Spring Framework class located in package org.springframework.web.filter of spring-web module.

This class acts as a Proxy between standard Servlet Filter and Spring-managed Bean that implements Servlet Filter. DelegatingFilterProxy is registered within application container and delegates all calls to Bean registered within Spring Application Context.

We may say that it acts like a bridge between Servlet Container and Spring Application Context.

Bean to which all calls should be delegated to is located based on Filter Name provided within Filter Configuration, usually it is named springSecurityFilterChain and is an instance of FilterChainProxy.

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DelegatingFilterProxy can be registered in following ways:

- ► Servlet 3 via AbstractSecurityWebApplicationInitializer
 - Method insertSpringSecurityFilterChain will register DelegatingFilterProxy
- Servlet 2 via web.xml

```
<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>
```

springSecurityFilterChain is a default name for FilterChainProxy specified in AbstractSecurityWebApplicationInitializer#DEFAULT FILTER NAME

- Spring Boot
 - uses DelegatingFilterProxyRegistrationBean instead of regular DelegatingFilterProxy to create specialized version of DelegatingFilterProxy
 - ▶ Registered by SecurityFilterAutoConfiguration

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Role of DelegatingFilterProxy is to delegate all calls to FilterChainProxy, which contains SecurityFilterChain responsible for Web Level authentication and authorization:

