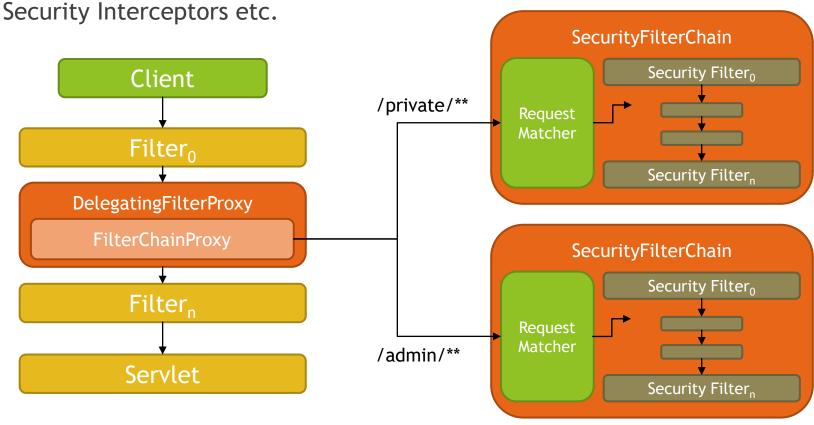
Spring Professional Exam Tutorial v5.0 Question 04

Security Filter Chain is a collection of Spring Managed Filters that are responsible for authentication and authorization. Usually they include functionalities like Username & Password Authentication, Logout Management, Session Management,



SecurityFilterChain is an interface located in package org.springframework.security.web of spring-web module.

This interface specifies a contract for behavior that associates request URL to list of security filters.

Spring provides one implementation of this interface called DefaultSecurityFilterChain which uses request matchers to check if list of security filters should be applied to specified url.

Some of the request matchers that can be used include

AntPathRequestMatcher, MvcRequestMatcher, RequestHeaderRequestMatcher, MediaTypeRequestMatcher etc.

Security Filters are implementation of Servlet Filter and are usually managed by Spring Context.

FilterChainProxy holds list of SecurityFilterChains and upon request searches for the first SecurityFilterChain that matches request.

Upon request being matched, SecurityFilterChain is picked up and list of Filters is being fetched from SecurityFilterChain.

After that FilterChainProxy executes Filters from SecurityFilterChain.

FilterChainProxy is a registered bean in Spring Context and takes default name specified inside

AbstractSecurityWebApplicationInitializer#DEFAULT_FILTER_NAME which is springSecurityFilterChain.

FilterChainProxy is fetched from the context based on name within DelegatingFilterProxy.

Spring usually includes following Filters within Security Filter Chains:

- WebAsyncManagerIntegrationFilter
- SecurityContextPersistenceFilter
- HeaderWriterFilter
- CsrfFilter
- LogoutFilter
- UsernamePasswordAuthenticationFilter
- RequestCacheAwareFilter
- SecurityContextHolderAwareRequestFilter
- AnonymousAuthenticationFilter
- SessionManagementFilter
- ExceptionTranslationFilter
- FilterSecurityInterceptor

Spring provides API to customize list of used Security Filters, by extending WebSecurityConfigurerAdapter and overriding configure method.