Spring Professional Exam Tutorial v5.0 Question 05

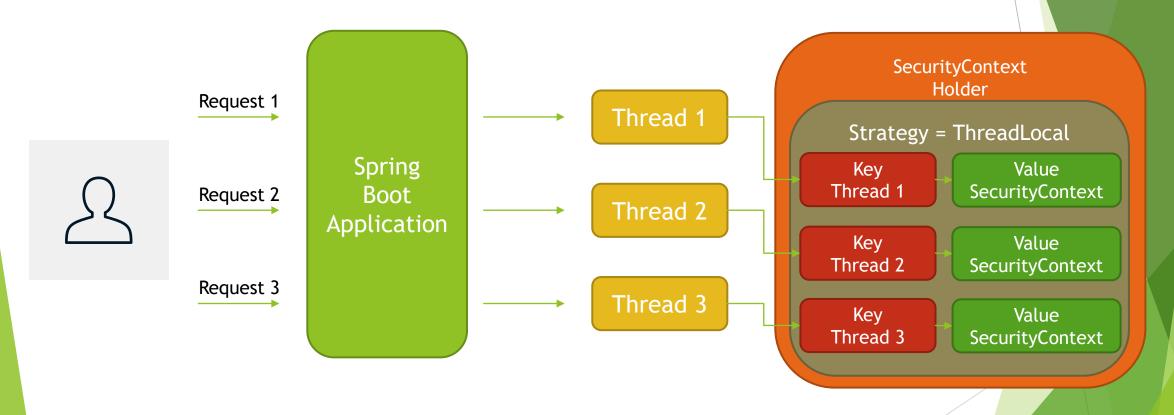
SecurityContext is an interface, allowing you to access security information associated with the current thread of execution. Interface provides two methods:

- getAuthentication provides currently authenticated principal, or an authentication request token
- setAuthentication sets currently authenticated principal, or removes the authentication

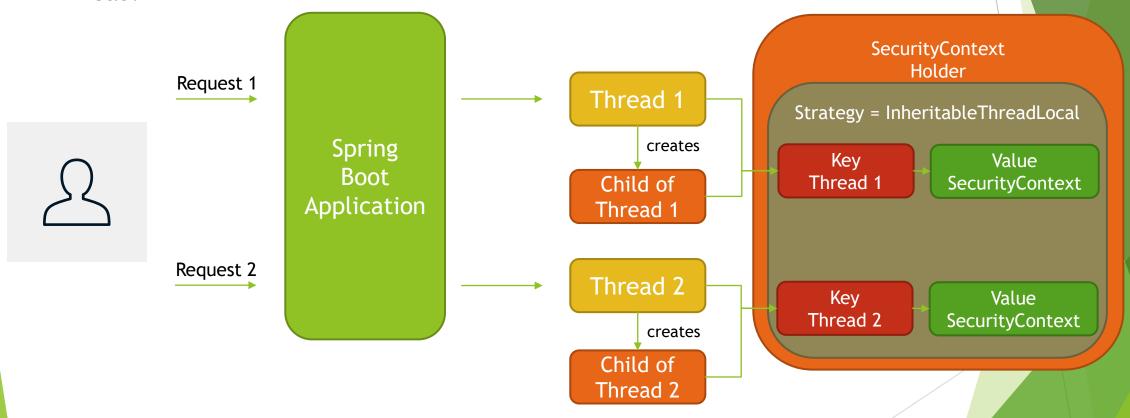
SecurityContext can be accessed via SecurityContextHolder, which allows access in three modes:

- ► MODE THREADLOCAL
- ► MODE INHERITABLETHREADLOCAL
- ► MODE GLOBAL

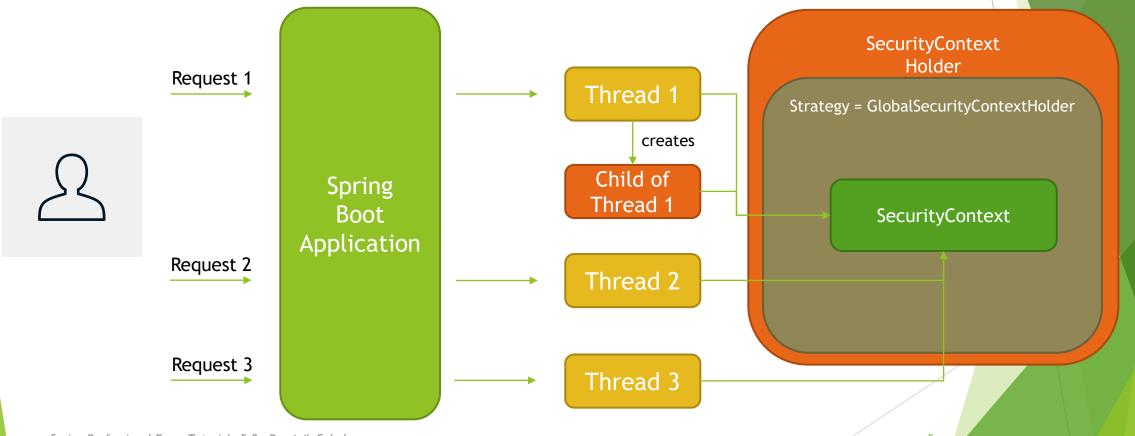
SecurityContextHolder is set to MODE_THREADLOCAL by default, it allows each Thread to access it's own dedicated SecurityContext.



When SecurityContextHolder is set to MODE_INHERITABLETHREADLOCAL, then child threads are allowed to access same SecurityContext as parent Thread.



When SecurityContextHolder is set to MODE_GLOBAL, then all threads within JVM are accessing same SecurityContext, this mode is usually used by standalone desktop applications, such as Java Swing based clients.



Mode of SecurityContextHolder can be changed via:

- Property spring.security.strategy
- Programmatically SecurityContextHolder#setStrategyName

Allowed values are:

- ► MODE THREADLOCAL (default)
- ► MODE INHERITABLETHREADLOCAL
- MODE GLOBAL

SecurityContext allows you to access or set currently used Authentication object.

Authentication object represents the token for an authentication request or an authenticated principal, once the authentication request has been processed. Authentication object contains following methods:

- getPrincipal identity of the principal being authenticated
- getAuthorities collection of authorities granted to the principal
- getCredentials credentials that prove the principal is correct
- getDetails additional details about the authentication request, address, certificate, serial number etc.
- ▶ isAuthenticated, setAuthenticated for internal use by AbstractSecurityInterceptor, AuthenticationManager to control required amount of for re-authentications