

Spring Security

SpringBoot 기준으로 서술

Java, Spring

Overview

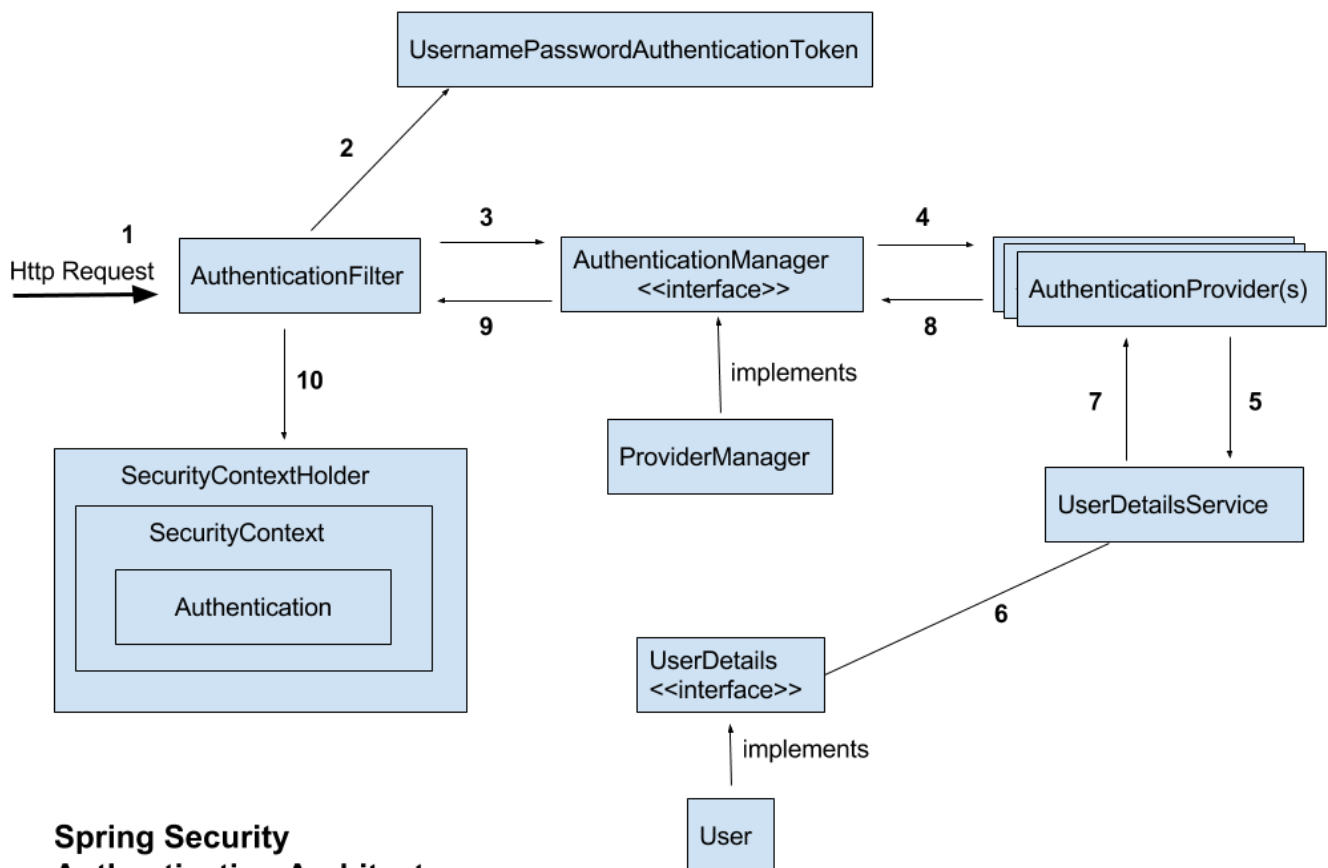
- Authentication : 인증. “유효한 사용자인가?”
- Authorization : 허가(권한 부여). 유효한 사용자가 이 작업을 할 수 있는가?

Documents

- [Spring Security Architecture](#)
- [Spring Security : Authentication Architecture](#)
- [\[Docs\] Spring Security - Servlet Applications](#)
- [Samples](#)

Authentication

Docs



Spring Security Authentication Architecture

Chathuranga Tennakoon
www.springbootdev.com

- 모두 Interface

classDiagram class AuthenticationManager { authenticate(Authentication authentication) Authentication } class AuthenticationProvider { authenticate(Authentication authentication) Authentication supports(Class~?~ authentication) boolean } class UserDetailsService { loadUserByUsername(String username) UserDetails } class UserDetails { getAuthorities() Collection~? extends GrantedAuthority~ getPassword() String isAccountNonExpired() boolean isAccountNonLocked() boolean isCredentialsNonExpired() boolean isEnabled() boolean } AuthenticationManager --> AuthenticationProvider : authRequest AuthenticationProvider <..> UserDetailsService : 서비스 주입 후 authenticate()에서 사용자 정보를 꺼내어 사용 UserDetailsService -- UserDetails

AuthenticationManager

- AuthenctaionManager
 - 기본 구현체 : [ProviderManager](#)
 - [AuthenticationManagerBuilder](#) : [WebSecurityConfigurerAdapter](#) 의 `configure(AuthenticationManagerBuilder auth)` Method로 “auth” 인자를 사용할 수 있는데, 이 인자의 “userDetailsService(T userDetailsService)”로 “UserDetailsService” 주입이 가능함.

```

AuthenticationManager - org.springframework.security.authentication
  AuthenticationManagerDelegator - org.springframework.security.config.annotation.authentication.configuration.AuthenticationConfiguration
  AuthenticationManagerDelegator - org.springframework.security.config.method.GlobalMethodSecurityBeanDefinitionParser
  AuthenticationManagerDelegator - org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter
  NoOpAuthenticationManager - org.springframework.security.oauth2.client.filter.OAuth2ClientAuthenticationProcessingFilter
  NoOpAuthenticationManager - org.springframework.security.access.intercept.AbstractSecurityInterceptor
  OAuth2AuthenticationManager - org.springframework.security.oauth2.provider.authentication
  ProviderManager - org.springframework.security.authentication

```

AuthenticationProvider

- AuthenticationProvider

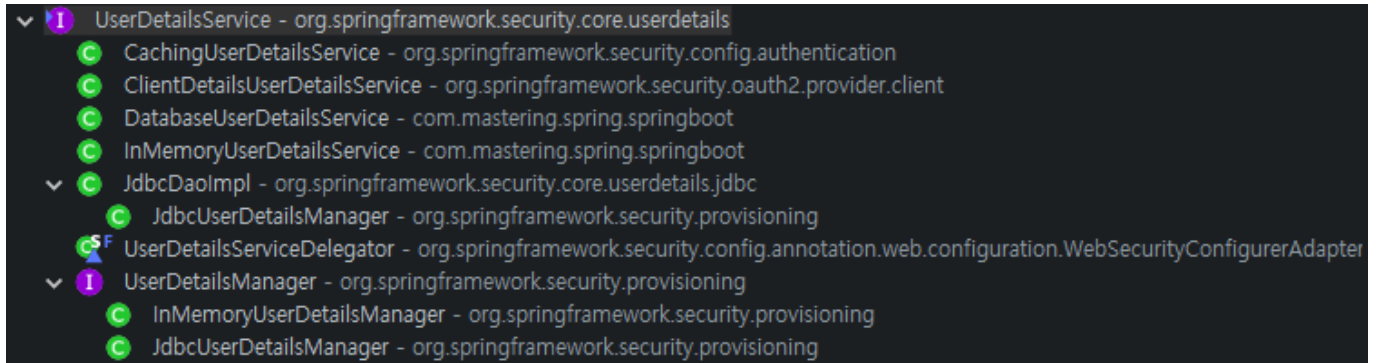
```

AuthenticationProvider - org.springframework.security.authentication
  AbstractJaasAuthenticationProvider - org.springframework.security.authentication.jaas
    DefaultJaasAuthenticationProvider - org.springframework.security.authentication.jaas
    JaasAuthenticationProvider - org.springframework.security.authentication.jaas
  AbstractUserDetailsAuthenticationProvider - org.springframework.security.authentication.dao
    DaoAuthenticationProvider - org.springframework.security.authentication.dao
    AnonymousAuthenticationProvider - org.springframework.security.authentication
    NullAuthenticationProvider - org.springframework.security.config.authentication.AuthenticationManagerBeanDefinitionParser
    OidcAuthenticationRequestChecker - org.springframework.security.config.annotation.web.configurers.oauth2.client.OAuth2LoginConfigurer
    PreAuthenticatedAuthenticationProvider - org.springframework.security.web.authentication.preauth
    RememberMeAuthenticationProvider - org.springframework.security.authentication
    RemoteAuthenticationProvider - org.springframework.security.authentication.rcp
    RunAsImplAuthenticationProvider - org.springframework.security.access.intercept
    TestingAuthenticationProvider - org.springframework.security.authentication

```

UserDetailsService

“UserDetailsService에는 UserDetails loadUserByUsername(String username)”만 있는데, 여기서 UserDetails는 이름, 비밀번호, 인증/인가등의 기본적인 사용자 정보를 담은 Class.



또 다른 사용자 정보를 담은 Bean을 만들기보다 이를 상속해서 사용하는게 일을 덜 할 수 있으리라 판단된다.

마음에 드는 구현체가 없다면 이 Interface를 상속받아서 재정의.

자식 Interface인 [UserDetailsManager](#)는 비밀번호 변경, 사용자 생성/삭제/갱신, 사용자 존재 여부등의 기능이 추가로 있음.

Authorization

Docs

Protection Against Exploits

Docs

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