

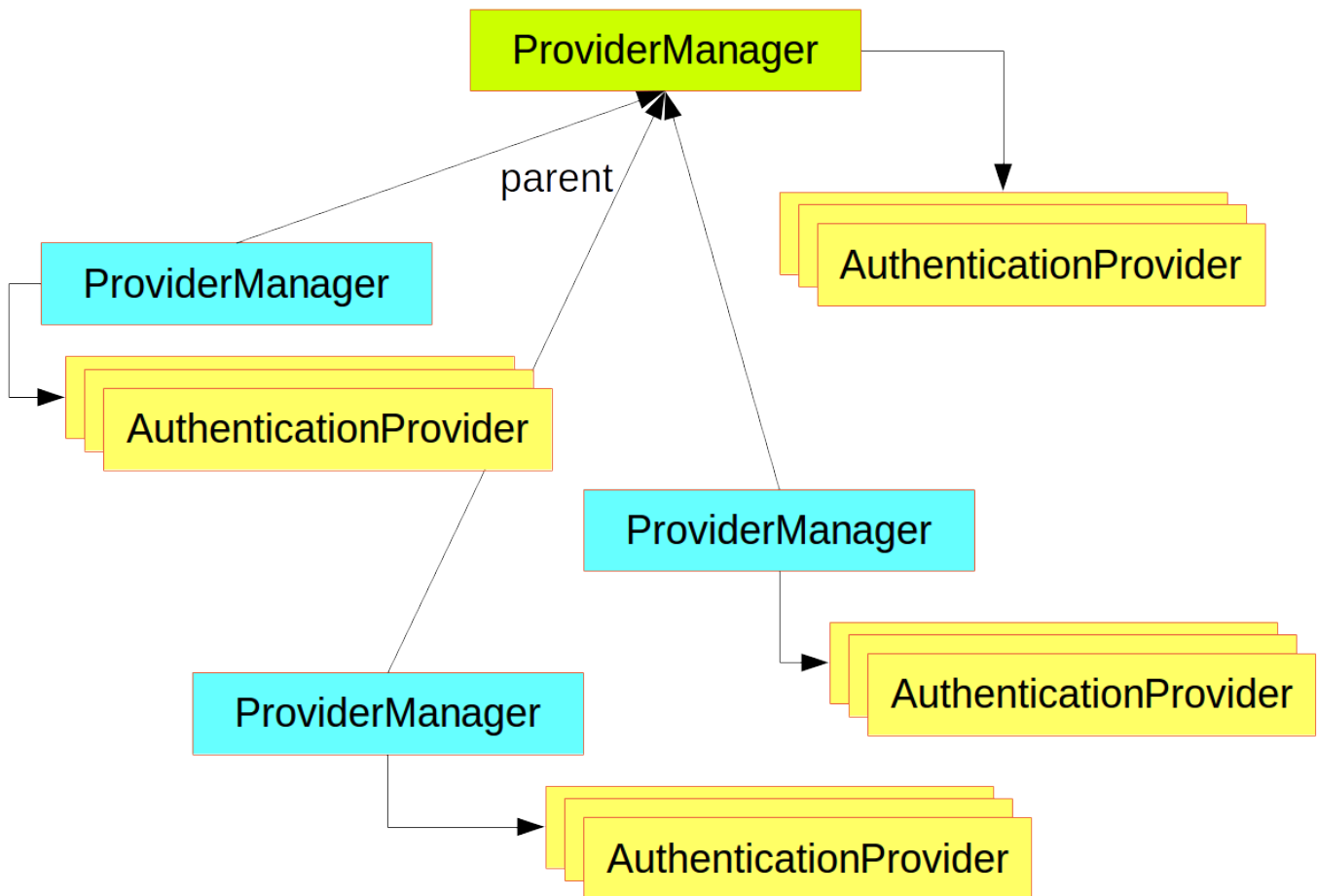
Spring Security

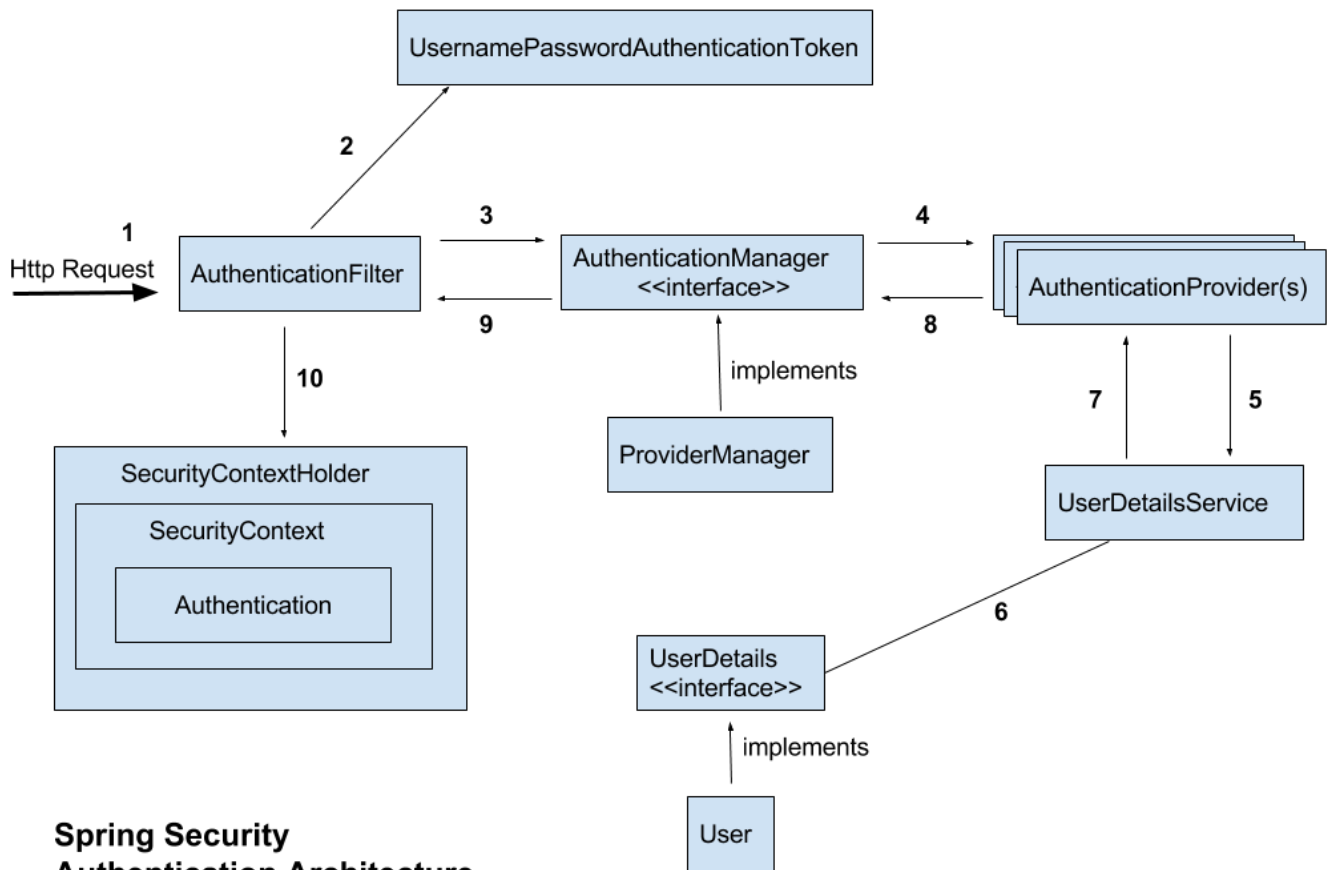
SpringBoot 기준으로 서술

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

- 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 --> UserDetails : 서비스 주입 후 authenticate()에서 사용자 정보를 꺼내어 사용
  
```

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.

```

v [I] AuthenticationManager - org.springframework.security.authentication
  [SF] AuthenticationManagerDelegator - org.springframework.security.config.annotation.authentication.configuration.AuthenticationConfiguration
  [SF] AuthenticationManagerDelegator - org.springframework.security.config.method.GlobalMethodSecurityBeanDefinitionParser
  [SF] AuthenticationManagerDelegator - org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter
  [S] NoOpAuthenticationManager - org.springframework.security.oauth2.client.filter.OAuth2ClientAuthenticationProcessingFilter
  [S] NoOpAuthenticationManager - org.springframework.security.access.intercept.AbstractSecurityInterceptor
  [C] OAuth2AuthenticationManager - org.springframework.security.oauth2.provider.authentication
  [C] ProviderManager - org.springframework.security.authentication
  
```

AuthenticationProvider

- [AuthenticationProvider](#)

```

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

UserDetailsService

- [UserDetailsService](#)
 - [UserDetails](#)

```

v [I] UserDetailsService - org.springframework.security.core.userdetails
  [C] CachingUserDetailsService - org.springframework.security.config.authentication
  [C] ClientDetailsUserDetailsService - org.springframework.security.oauth2.provider.client
  [C] DatabaseUserDetailsService - com.mastering.spring.springboot
  [C] InMemoryUserDetailsService - com.mastering.spring.springboot
  v [C] JdbcDaoImpl - org.springframework.security.core.userdetails.jdbc
    [C] JdbcUserDetailsManager - org.springframework.security.provisioning
  [SF] UserDetailsServiceDelegator - org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter
  v [I] UserDetailsManager - org.springframework.security.provisioning
    [C] InMemoryUserDetailsManager - org.springframework.security.provisioning
    [C] JdbcUserDetailsManager - org.springframework.security.provisioning
  
```

Authorization

[Docs](#)

Protection Against Exploits

[Docs](#)

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