

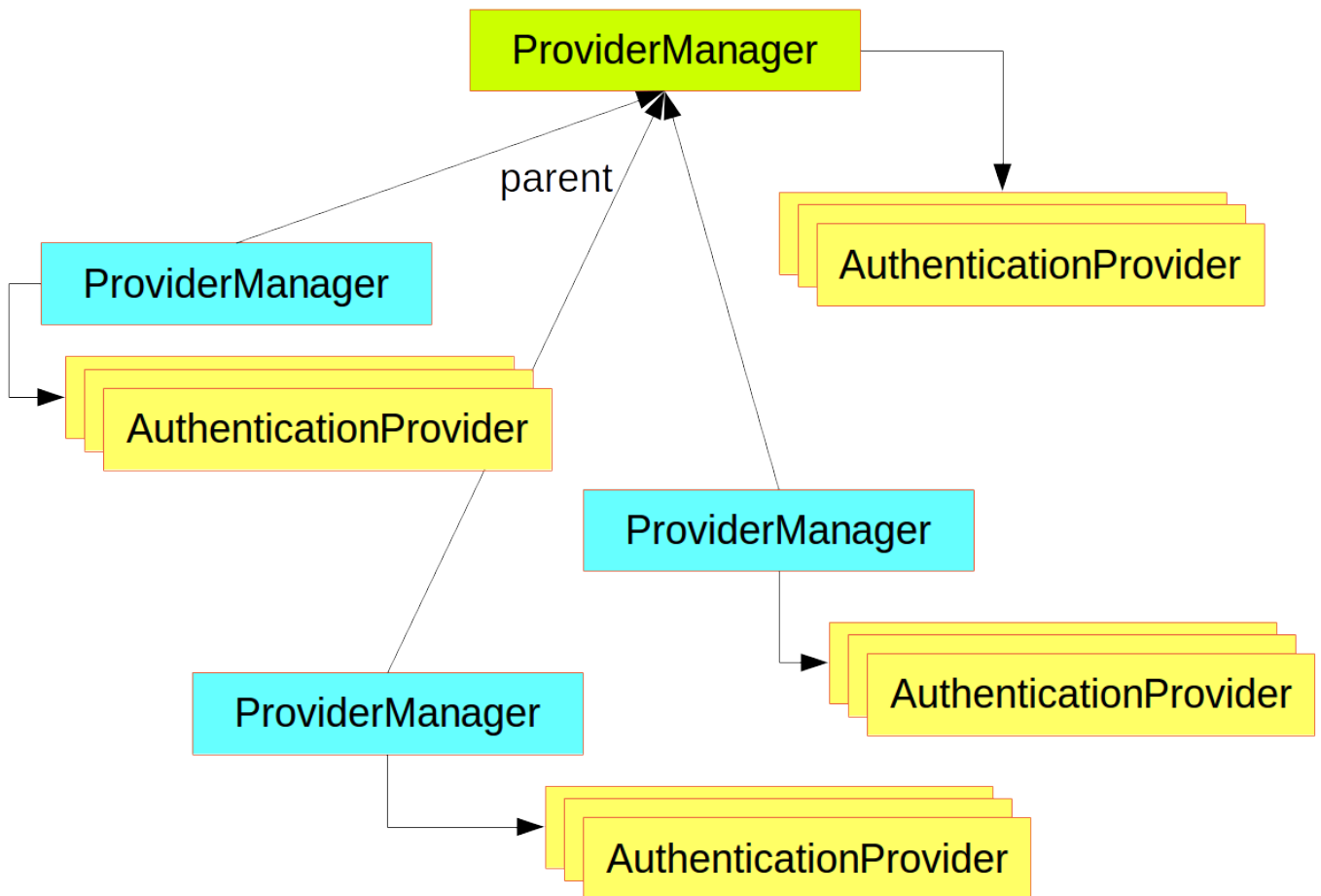
Spring Security

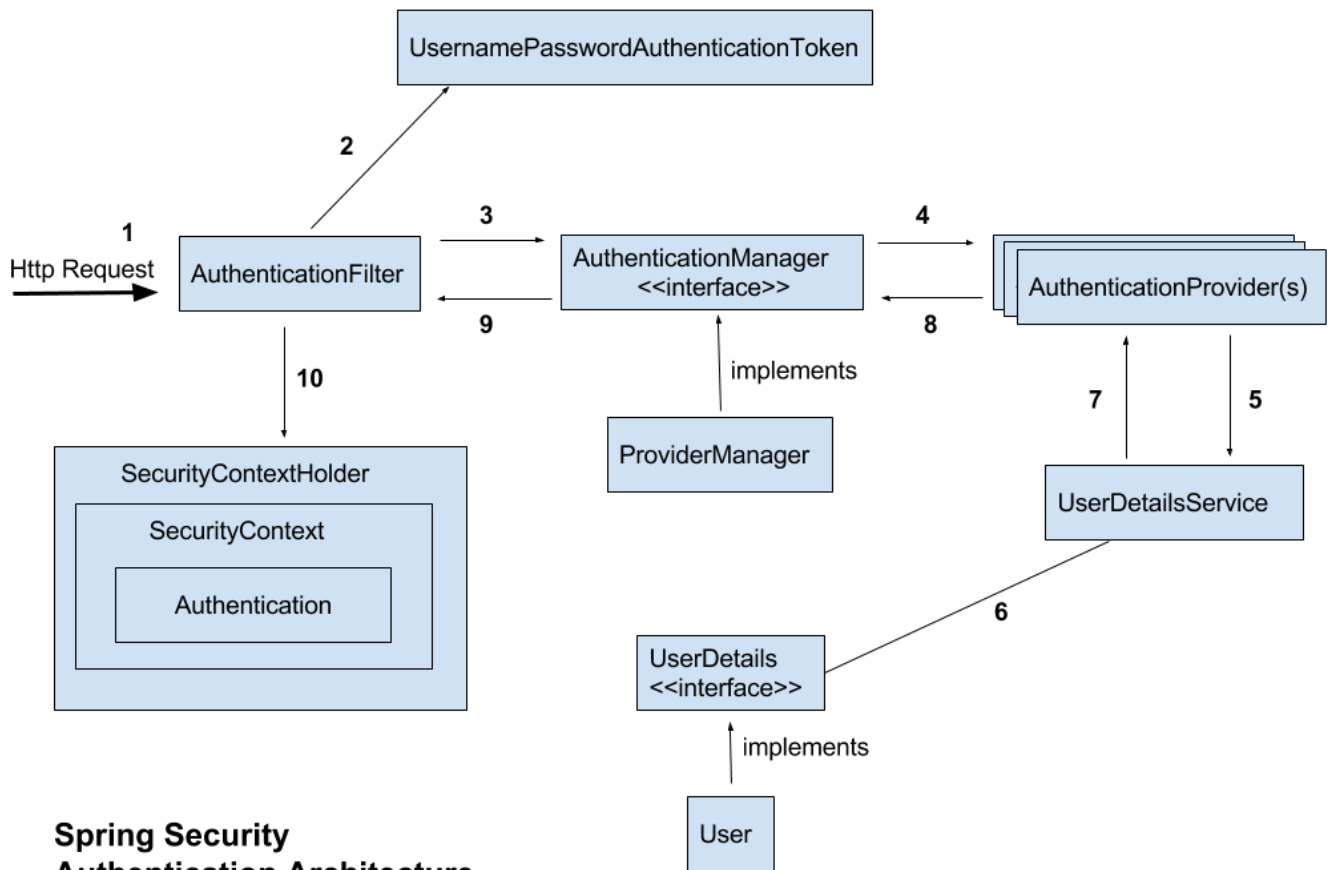
SpringBoot 기준으로 서술

Java, Spring

Overview

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





Documents

- [Spring Security Architecture](#)
- [\[Docs\] 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 : 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.

```

▼ I AuthenticationManager - org.springframework.security.authentication
  C^F AuthenticationManagerDelegator - org.springframework.security.config.annotation.authentication.configuration.AuthenticationConfiguration
  C^F AuthenticationManagerDelegator - org.springframework.security.config.method.GlobalMethodSecurityBeanDefinitionParser
  C^F AuthenticationManagerDelegator - org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter
  C^S NoopAuthenticationManager - org.springframework.security.oauth2.client.filter.OAuth2ClientAuthenticationProcessingFilter
  C^S NoOpAuthenticationManager - org.springframework.security.access.intercept.AbstractSecurityInterceptor
  C OAuth2AuthenticationManager - org.springframework.security.oauth2.provider.authentication
  C ProviderManager - org.springframework.security.authentication
  
```

AuthenticationProvider

- [AuthenticationProvider](#)

```

▼ I AuthenticationProvider - org.springframework.security.authentication
  ▼ C^ AbstractJaasAuthenticationProvider - org.springframework.security.authentication.jaas
    C DefaultJaasAuthenticationProvider - org.springframework.security.authentication.jaas
    C JaasAuthenticationProvider - org.springframework.security.authentication.jaas
  ▼ C^ AbstractUserDetailsAuthenticationProvider - org.springframework.security.authentication.dao
    C DaoAuthenticationProvider - org.springframework.security.authentication.dao
    C AnonymousAuthenticationProvider - org.springframework.security.authentication
    C^F NullAuthenticationProvider - org.springframework.security.config.authentication.AuthenticationManagerBeanDefinitionParser
    C^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](#)

```

▼ 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
  ▼ C JdbcDaoImpl - org.springframework.security.core.userdetails.jdbc
    C JdbcUserDetailsManager - org.springframework.security.provisioning
    C^F UserDetailsServiceDelegator - org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter
  ▼ I UserManager - 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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Last update: **2021/04/27 15:21**

