

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.

```

  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

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

```

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

```

Authorization

Docs

Protection Against Exploits

Docs

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