

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.

```

▼ 1 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](#)

```

▼ 1 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](#)

```

▼ 1 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
  ▼ 1 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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