

<u>Spring Security</u> / <u>Servlet Applications</u> / <u>Authentication</u> / <u>Username/Password</u> / <u>Password Storage</u> / <u>DaoAuthenticationProvider</u>

DaoAuthenticationProvider

<u>DaoAuthenticationProvider</u> is an <u>AuthenticationProvider</u> implementation that uses a <u>UserDetailsService</u> and <u>PasswordEncoder</u> to authenticate a username and password.

This section examines how DaoAuthenticationProvider works within Spring Security. The following figure explains the workings of the <u>AuthenticationManager</u> in figures from the <u>Reading the</u> Username & Password section.

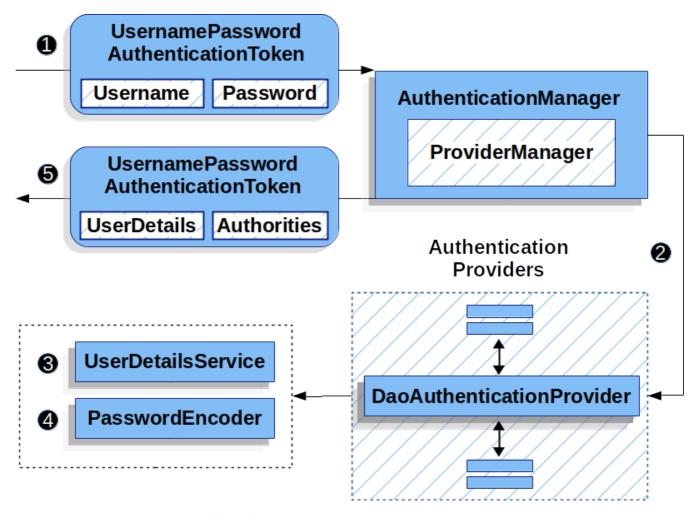


Figure 1. DaoAuthenticationProvider Usage

The authentication Filter from the <u>Reading the Username & Password</u> section passes a UsernamePasswordAuthenticationToken to the AuthenticationManager, which is implemented by <u>ProviderManager</u>.



- 3 DaoAuthenticationProvider looks up the UserDetails from the UserDetailsService.
- 4 DaoAuthenticationProvider uses the <u>PasswordEncoder</u> to validate the password on the UserDetails returned in the previous step.
- When authentication is successful, the <u>Authentication</u> that is returned is of type UsernamePasswordAuthenticationToken and has a principal that is the UserDetails returned by the configured UserDetailsService. Ultimately, the returned UsernamePasswordAuthenticationToken is set on the <u>SecurityContextHolder</u> by the authentication Filter.









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