



Starting point

A simple Spring Boot application
with Spring Security dependency added



Steps

Step 1: Get hold of AuthenticationManagerBuilder

Step 2: Set the configuration on it





Authentication
Manager
Builder

Authentication Manager



Spring Security app

class

Configure (Auth
Mgr
Bldr)

Extend
this class

Override
this
method

spring-boot-security / src / main / java / io / javabrain / springbootsecurity / SecurityConfiguration

1: Project

spring-boot-security

- io.javabrain.springbootsecurity
 - HomeResource
 - SecurityConfiguration
 - SpringBootSecurityApplication
 - SpringBootSecurityApplicationTests
- static
- templates
- application.properties
- Libraries

```
2
3 import org.springframework.security.config.annotation.authentication.builders.AuthenticationMa
4 import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
5 import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerA
6
7 @EnableWebSecurity
8 public class SecurityConfiguration extends WebSecurityConfigurerAdapter {
9     @Override
10     @protected void configure(AuthenticationManagerBuilder auth) throws Exception {
11         // Set your configuration on the auth object
12         auth.inMemoryAuthentication()
13             .withUser("blah")
14             .password("blah")
15             .roles("USER");
16
17
18     }
19 }
20
```

SecurityConfiguration - configure()

4: Run 6: TODO 8: Version Control Terminal 0: Messages

Build completed successfully in 1 s 126 ms (a minute ago)

16:1 LF UTF-8 4 spaces Git: master



SUBSCRIBE

spring-boot-security > src > main > java > io > javabrain > springbootsecurity > SecurityConfiguration

SpringBootSecurityApplication

Git:

1: Project

spring-boot-security

- io.javabrain.springbootsecurity
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+ Libraries

```
4 import org.springframework.security.config.annotation.authentication.builders.AuthenticationMa
5 import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
6 import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerA
7 import org.springframework.security.crypto.password.NoOpPasswordEncoder;
8 import org.springframework.security.crypto.password.PasswordEncoder;
9
10 @EnableWebSecurity
11 public class SecurityConfiguration extends WebSecurityConfigurerAdapter {
12     @Override
13     @protected void configure(AuthenticationManagerBuilder auth) throws Exception {
14         // Set your configuration on the auth object
15         auth.inMemoryAuthentication()
16             .withUser("blah")
17             .password("blah")
18             .roles("USER");
19     }
20
21     @Bean
22     public PasswordEncoder getPasswordEncoder() {
23         return NoOpPasswordEncoder.getInstance();
24     }
25 }
26
```

SecurityConfiguration > getPasswordEncoder()

4: Run 6: TODO 8: Version Control Terminal 0: Messages

Build completed successfully in 1 s 126 ms (2 minutes ago)

24:6 LF UTF-8 4 spaces Git: master



SUBSCRIBE

spring-boot-security / src / main / java / io / javabrain / springbootsecurity / SecurityConfiguration

SpringBootSecurityApplication

Git:

1: Project

spring-boot-security

- io.javabrain.springbootsecurity
 - HomeResource
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4 import org.springframework.security.config.annotation.authentication.builders.AuthenticationMa
5 import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
6 import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerA
7 import org.springframework.security.crypto.password.NoOpPasswordEncoder;
8 import org.springframework.security.crypto.password.PasswordEncoder;
9
10 @EnableWebSecurity
11 public class SecurityConfiguration extends WebSecurityConfigurerAdapter {
12     @Override
13     @protected void configure(AuthenticationManagerBuilder auth) throws Exception {
14         // Set your configuration on the auth object
15         auth.inMemoryAuthentication()
16             .withUser("blah")
17             .password("blah")
18             .roles("USER")
19             .and()
20             .withUser("foo")
21             .password("foo")
22             .roles("ADMIN");
23     }
24
25     @Bean
26     public PasswordEncoder getPasswordEncoder() {
27         return NoOpPasswordEncoder.getInstance();
28     }
29 }
```

SecurityConfiguration

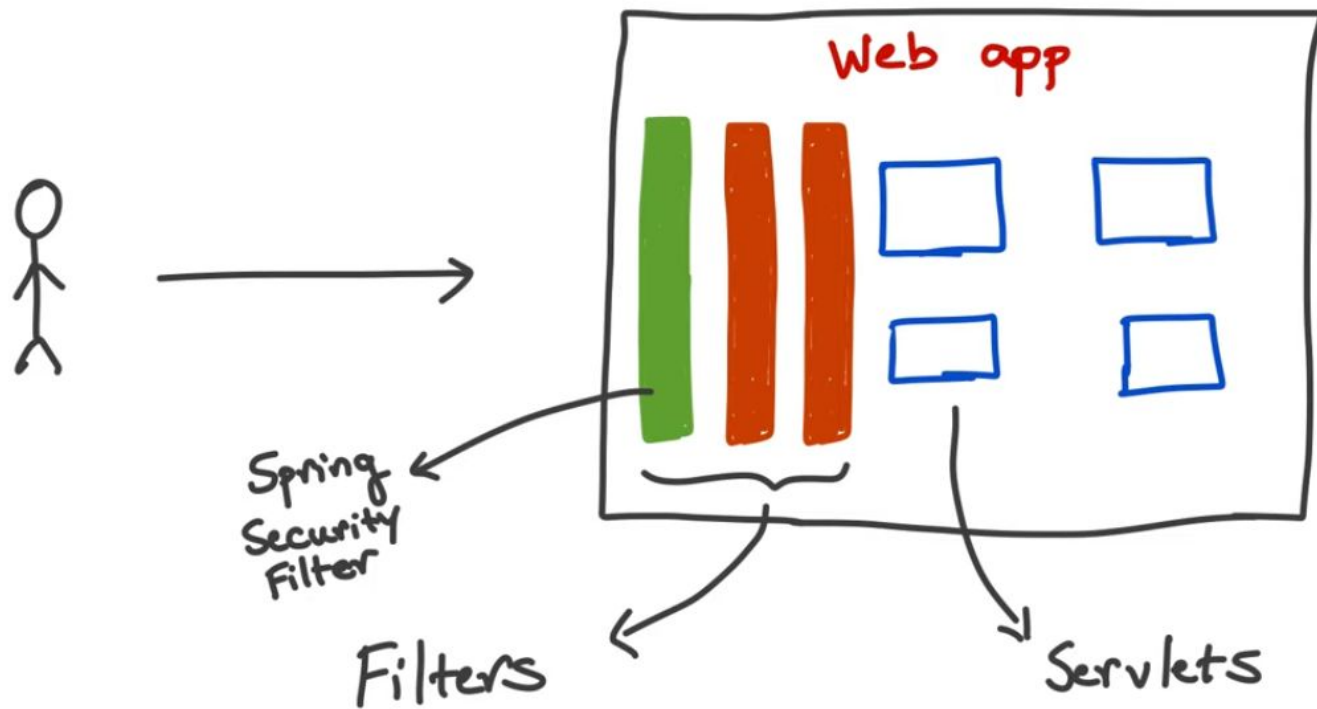
4: Run 6: TODO 8: Version Control Terminal Messages

Build completed successfully with 1 warning in 1 s 80 ms (a minute ago)

24:1 LF UTF-8 4 spaces Git: master



SUBSCRIBE



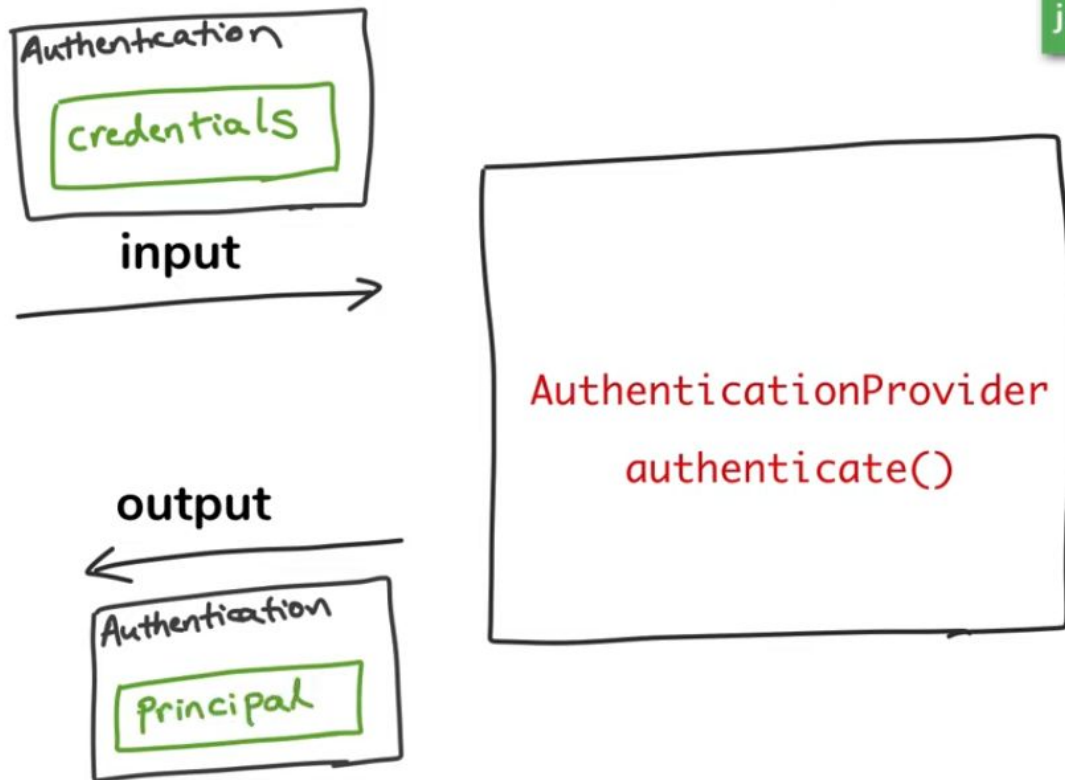
bootstrap

| authentication



Providers





org.springframework.security.authentication

Interface AuthenticationProvider

```
public interface AuthenticationProvider
```

Indicates a class can process a specific `Authentication` implementation.

Method Summary

All Methods

Instance Methods

Abstract Methods

Modifier and Type

Method and Description

`Authentication`

`authenticate(Authentication authentication)`

Performs authentication with the same contract as

`AuthenticationManager.authenticate(Authentication)`.

org.springframework.security.core

Interface Authentication

Method Summary

All Methods

Instance Methods

Abstract Methods

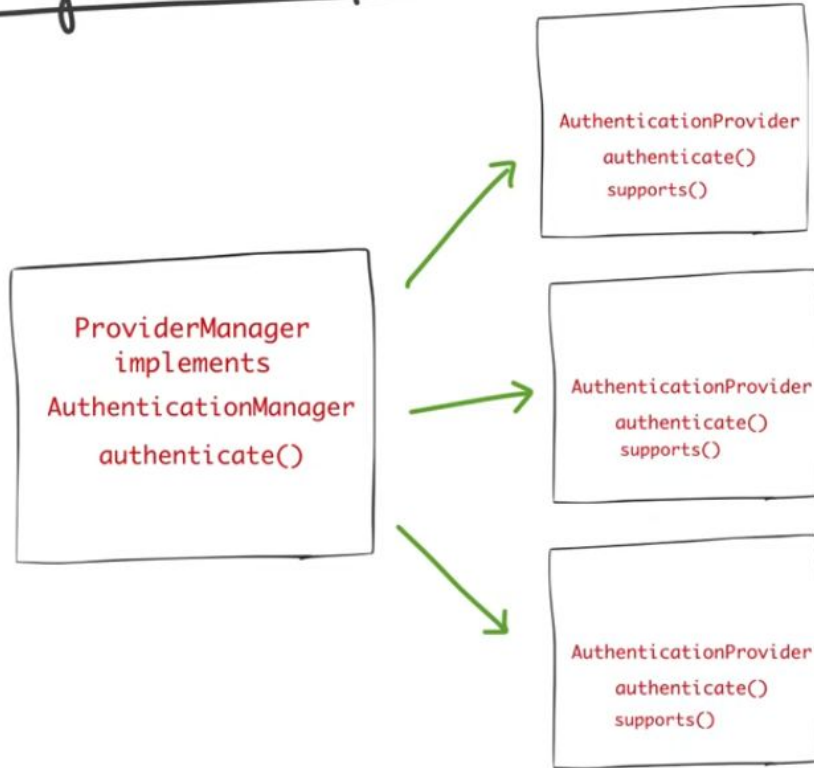
Modifier and Type

Method and Description

java.util.Collection<? extends GrantedAuthority>	getAuthorities() Set by an AuthenticationManager to indicate the authorities that the principal has been granted.
java.lang.Object	getCredentials() The credentials that prove the principal is correct.
java.lang.Object	getDetails() Stores additional details about the authentication request.
java.lang.Object	getPrincipal() The identity of the principal being authenticated.
boolean	isAuthenticated() Used to indicate to AbstractSecurityInterceptor whether it should present the authentication token to the AuthenticationManager.
void	setAuthenticated(boolean isAuthenticated) See isAuthenticated() for a full description.



Spring Security app



org.springframework.security.authentication

Interface AuthenticationProvider

public interface **AuthenticationProvider**

Indicates a class can process a specific **Authentication** implementation.

Method Summary

All Methods

Instance Methods

Abstract Methods

Modifier and Type

Method and Description

Authentication

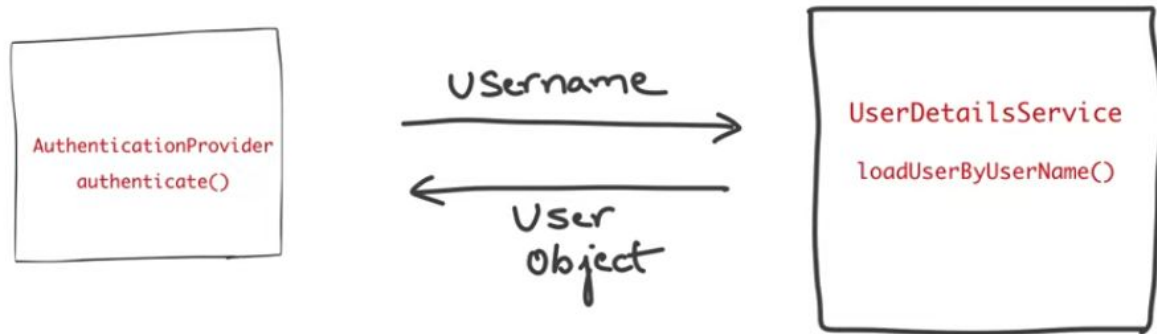
authenticate(**Authentication** authentication)
Performs authentication with the same contract as
AuthenticationManager.authenticate(Authentication) .

boolean

supports(java.lang.Class<?> authentication)
Returns true if this **AuthenticationProvider** supports the indicated **Authentication** object.







org.springframework.security.core.userdetails

Interface UserDetails

Method Summary

All Methods

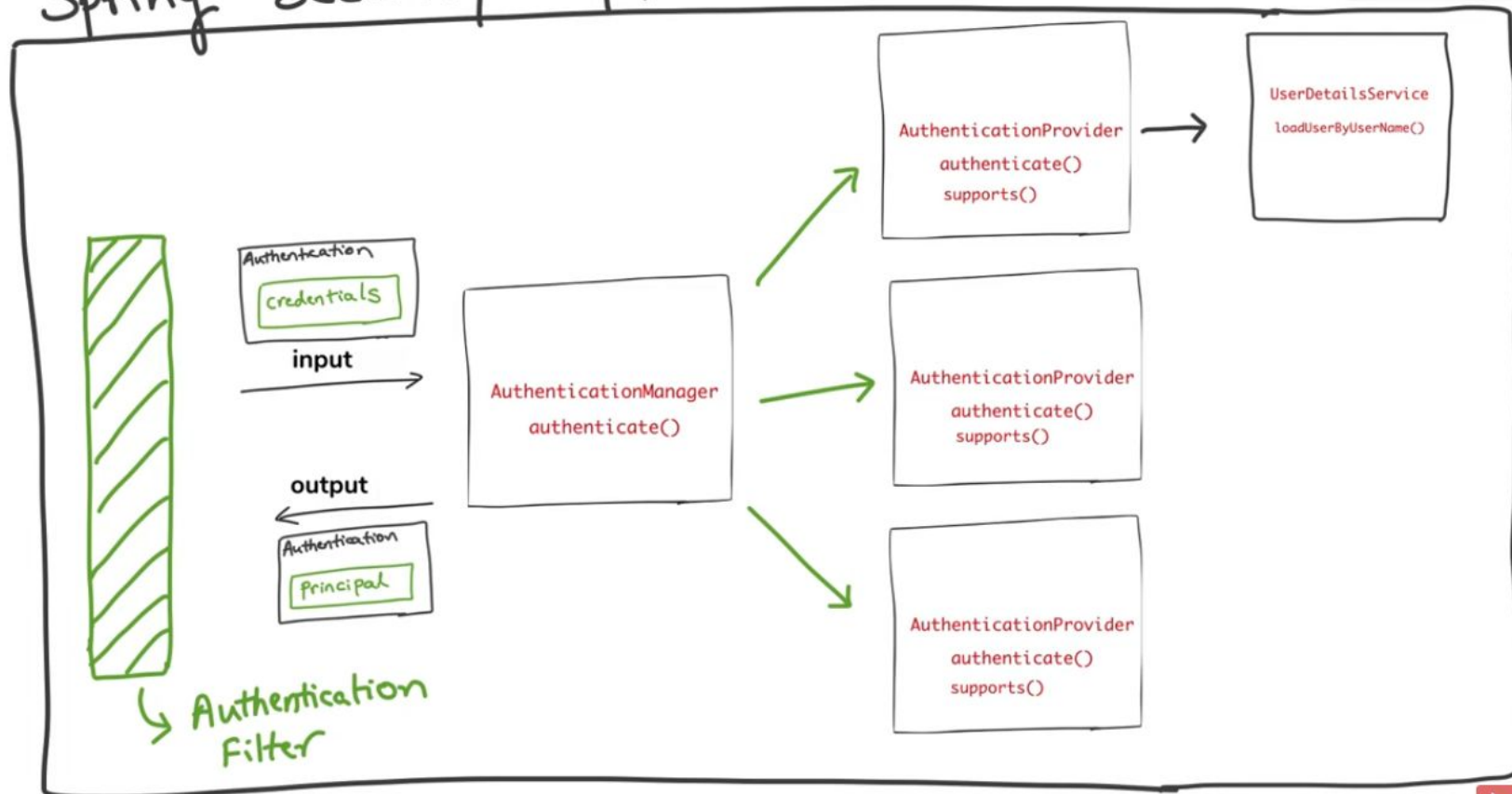
Instance Methods

Abstract Methods

Modifier and Type	Method and Description
java.util.Collection<? extends GrantedAuthority>	getAuthorities() Returns the authorities granted to the user.
java.lang.String	getPassword() Returns the password used to authenticate the user.
java.lang.String	getUsername() Returns the username used to authenticate the user.
boolean	isAccountNonExpired() Indicates whether the user's account has expired.
boolean	isAccountNonLocked() Indicates whether the user is locked or unlocked.
boolean	isCredentialsNonExpired() Indicates whether the user's credentials (password) has expired.
boolean	isEnabled() Indicates whether the user is enabled or disabled.



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