Spring Security OAuth2 Plugin - Reference Documentation

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1 Introduction to the Spring Security OAuth2 Plugin

The OAuth2 plugin adds OAuth 2.0 support to a Grails application that uses Spring Security. It depends or

Under the covers, <u>Spring Security OAuth version 2.0.2.RELEASE</u> is used by the plugin to provide OAut the underlying library.

This plugin provides support for Grails domain classes necessary for providing OAuth 2.0 authorization combination of Spring Security Core's methods, i.e. request maps, annotations, intercept maps and careful

1.1 Change Log

• 2.0-RC4

- Fix for Grails 2.5.0 (issue #76)
- Add support for basic authentication (issue #80)
- Fix access token header format in the docs (issue #84)
- Throw exception on validation code save (issue #90)
- Fixes and enhancements for additional information (issue #87)
- Add support for unlimited refresh tokens (issue #75)

• 2.0-RC3

- Upgrade to Spring OAuth 2.0.6.RELEASE (issue #63)
- Fix problems with updating access tokens (issues #49, #50, and #68)
- Add TravisCI build
- Ensure Set-Cookie header is not set in response
- Fix handling of scope parameter (issue #64)

• 2.0-RC2

- Resolves session vulnerability (issue #42)
- Upgrade to Spring Security OAuth2 2.0.4.RELEASE
- Supports authorization auto-approval
- Minor tweaks to domain models

• 2.0-RC1

- Complete overhaul of the plugin
- Requires/supports Spring Security Core 2.0-RC4
- Uses Spring Security OAuth2 2.0.2.RELEASE

• 1.0.5.2

• Fix #13 - Make clientSecret optional in client configuration structure

• 1.0.5.1

- Merge pull request #21 (Burt's cleanup)
- Use log wrapper instead of log4j
- Depends on Grails 2.0 or greater (consistent with core plugin)

• 1.0.5

• Initial release of plugin compatible with spring security core 2.0-RC2

2 Getting Started

The following assumes that the Spring Security Core plugin has been installed and its required domain class

2.1 Install Plugin

Install the OAuth2 plugin by adding a dependency in grails-app/conf/BuildConfig.groovy:

```
plugins {
compile ":spring-security-oauth2-provider:2.0-RC3"
}
```

This has a dependency on the Spring Security Core plugin, which will be installed if necessary.

2.2 Create Domain Classes

Run the <u>s2-init-oauth2-provider</u> script to generate the required domain classes.

2.3 Secure Authorization and Token Endpoints

Update the Core plugin's rules for the authorization and token endpoints so they are protec grails-app/conf/Config.groovy:

```
grails.plugin.springsecurity.controllerAnnotations.staticRules = [
'/oauth/authorize.dispatch': ["isFullyAuthenticated() and (request.g
'/oauth/token.dispatch': ["isFullyAuthenticated() and request.ge
...
```

The endpoints are standard Spring MVC controllers in the underlying Spring Security OAuth2 implementa

The additional restrictions on the allowed HTTP methods are to ensure compliance with the OAuth 2.0 spe

2.4 Add Client Provider

The recommended way of authenticating clients is by using a HTTP Basic authorization header, for which the clientCredentialsAuthenticationProvider to the list of providers recognized by the Co

```
grails.plugin.springsecurity.providerNames = [
    'clientCredentialsAuthenticationProvider',
    'daoAuthenticationProvider',
    'anonymousAuthenticationProvider',
    'rememberMeAuthenticationProvider'
]
```

The order is important. The clientCredentialsAuthenticationProvider must occur first to

2.5 Exclude client_secret From Logs

Update the params exclusion list in grails-app/conf/Config.groovy so client secrets are not log

```
grails.exceptionresolver.params.exclude = ['password', 'client_secret']
```

2.6 (Optional) Customize Error and Confirm Access Views

When the plugin is installed, two views are copied for the error and confirm access pages. They are located

2.7 Client Registration

At this point your application is a proper OAuth 2.0 provider. You can now register c grails-app/conf/Bootstrap.groovy as follows:

2.8 Controlling Access to Resources

Access to resources is controlled by the Spring Security Core plugin's access control mechanisms. Addimethods in OAuth2SecurityExpressionMethods for what is available in the plugin.

Using SPeL is the only tested and confirmed way to enforce OAuth 2.0 specific restrictions on resource ac

The following controller illustrates the use of OAuth 2.0 SPeL:

```
class SecuredOAuth2ResourcesController {
@Secured(["#oauth2.clientHasRole('ROLE_CLIENT')"])
    def clientRoleExpression()
        render "client role expression"
@Secured(["ROLE_CLIENT"])
    def clientRole() {
       render "client role"
@Secured(["#oauth2.clientHasAnyRole('ROLE_CLIENT', 'ROLE_TRUSTED_CLIENT')"])
    def clientHasAnyRole() {
        render "client has any role"
@Secured(["#oauth2.isClient()"])
    def client() {
        render "is client"
@Secured(["#oauth2.isUser()"])
    def user() {
        render "is user"
@Secured(["#oauth2.denyOAuthClient()"])
    def denyClient()
        render "no client can see"
@Secured(["permitAll"])
    def anyone() {
        render "anyone can see"
def nobody() {
        render "nobody can see"
@Secured(["#oauth2.clientHasRole('ROLE_TRUSTED_CLIENT') and #oauth2.isClient() and
    def trustedClient() {
        render "trusted client"
@Secured(["hasRole('ROLE_USER') and #oauth2.isUser() and #oauth2.hasScope('trust'
    def trustedUser() {
       render "trusted user"
@Secured(["hasRole('ROLE_USER') or #oauth2.hasScope('read')"])
    def userRoleOrReadScope()
        render "user role or read scope"
```

The filter chains must be configured to ensure stateless access to the token endpoint and any OAuth 2.0 res

Please consult the section on <u>Filter Chain Configuration</u> for more information.

2.9 Trouble Shooting

If you encounter a NullPointerException while using the OAuth2 plugin, you might have run int version at the time of this writing (1.1.6) seems to have fixed this issue. To resolve the NullPointerI

If an instance of one of the GORM backed classes that the plugin uses cannot be saved, an OAuth2Va consumer has the flexibility to determine how to deal with this type of error. The typical reason for this thrown exception can be inspected for further information about the Errors.

3 Example Flows

The following examples assume you have followed the steps outlined in the Getting Started section for an

After retrieving an access_token via one of the flows, you must include this in the Authorization

For example, if you receive 7b9a989e-3702-4621-a631-fbd1a996fc94 as the access_toker requesting a protected resource.

3.1 Authorization Code Grant

The authorization code grant flow is initiated by directing your browser to the authorization endpoint:

```
http://localhost:8080/oauth2-test/oauth/authorize?response_type=code&client_id=my
```

You will be redirected to the login page. After signing in, you will be prompted to confirm the request. Do

```
http://myredirect.com/?code=139R59
```

The authorization code included in the query can be exchanged for an access token via the token endpoint:

```
http://localhost:8080/oauth2-test/oauth/token?grant_type=authorization_code&code=
```

Also consider this CURL example where the client is authenticated using HTTP Basic:

```
curl -X POST -u my-client: \
  -d "grant_type=authorization_code" \
  -d "code=139R59" http://localhost:8080/oauth2-test/oauth/token
```

You'll receive the access_token in the response:

3.2 Implicit Grant

The implicit grant is similar to the authorization code grant and can be initiated by directing your browser

```
http://localhost:8080/oauth2-test/oauth/authorize?response_type=token&client_id=m
```

Upon confirmation, your browser will be redirected to the following URL:

```
http://myredirect.com/#access_token=4e22ad4f-08ae-49dc-befb-2c9821af04d1&token_ty
```

The access_token can be extracted from the URL fragment.

3.3 Resource Owner Password Credentials Grant

The resource owner password grant is performed by requesting an access token from the token endpoint:

```
http://localhost:8080/oauth2-test/oauth/token?grant_type=password&client_id=my-cl
```

Also consider this CURL example where the client is authenticated using HTTP Basic:

```
curl -X POST -u my-client: \
-d "grant_type=password" \
-d "username=my-user" \
-d "password=my-password" \
-d "scope=read" http://localhost:8080/oauth2-test/oauth/token
```

The access_token is included in the response:

```
{
    "access_token": "1d49fc35-2af6-477e-8fd4-ab0353a4a76f",
    "token_type": "bearer",
    "refresh_token": "4996ba33-be3f-4555-b3e3-0b094a4e60c0",
    "expires_in": 43199,
    "scope": "read"
}
```

3.4 Client Credentials Grant

The client credentials grant is performed by authenticating the client via the token endpoint:

```
http://localhost:8080/oauth2-test/oauth/token?grant_type=client_credentials&clien
```

Also consider this CURL example where the client is authenticated using HTTP Basic:

```
curl -X POST -u my-client: \
-d "grant_type=client_credentials" \
-d "scope=read" http://localhost:8080/oauth2-test/oauth/token
```

The access_token can be extracted from the response:

3.5 Refresh Token Grant

The refresh token grant is performed by exchanging a refresh token received during a previous authorization

```
http://localhost:8080/oauth2-test/oauth/token?grant_type=refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&refresh_token&r
```

Also consider this CURL example where the client is authenticated using HTTP Basic:

```
curl -X POST -u my-client: \
  -d "grant_type=refresh_token" \
  -d "refresh_token=269afd46-0b41-45c2-a920-7d5af8a38d56" \
  -d "scope=read" http://localhost:8080/oauth2-test/oauth/token
```

The above assumes that 269afd46-0b41-45c2-a920-7d5af8a38d56 is the value of the refresh to

The access_token is included in the response:

4 Required Domain Classes

The plugin uses regular Grails domain classes backed by GORM. There are four required domain classes r

The s2-init-oauth2-provider script will create the domain classes for you in a specified package and updat needs. If you change the default property names, you will need to update grails-app/conf/Config



The maxSize constraints in the generated domain classes have been set to reasonable defaul example), or have many authorities attached to a single user.

The below discussion assumes the s2-init-oauth2-provider script has been run with com. yourapp specif classes.

4.1 Client Class

Information from the Grails client domain class will be extracted to create a ClientDetails instance for The generated class will look like this:

```
package com.yourapp
class Client {
private static final String NO_CLIENT_SECRET = ''
transient springSecurityService
String clientId
    String clientSecret
Integer accessTokenValiditySeconds
    Integer refreshTokenValiditySeconds
Map<String, Object> additionalInformation
static hasMany = [
            authorities: String,
            authorizedGrantTypes: String,
            resourceIds: String,
            scopes: String,
            autoApproveScopes: String,
            redirectUris: String
    ]
static transients = ['springSecurityService']
static constraints = {
        clientId blank: false, unique: true
        clientSecret nullable: true
accessTokenValiditySeconds nullable: true
        refreshTokenValiditySeconds nullable: true
authorities nullable: true
        authorizedGrantTypes nullable: true
resourceIds nullable: true
scopes nullable: true
        autoApproveScopes nullable: true
redirectUris nullable: true
        additionalInformation nullable: true
def beforeInsert() {
        encodeClientSecret()
def beforeUpdate() {
        if(isDirty('clientSecret')) {
            encodeClientSecret()
protected void encodeClientSecret()
        ed void encodeClientSecret() {
  clientSecret = clientSecret ?: NO_CLIENT_SECRET
        clientSecret = springSecurityService?.passwordEncoder ? springSecuritySer
```

The client secret is encoded using the same strategy that is configured by the Core plugin for handling pass

4.2 Access Token Class

This class represents an access token than has been issued to a client on behalf of a user. The authentication

```
package com.yourapp
class AccessToken {
String authenticationKey
    byte[] authentication
String username
    String clientId
String value
    String tokenType
Date expiration
    Map<String, Object> additionalInformation
static hasOne = [refreshToken: String]
    static hasMany = [scope: String]
static constraints = {
        username nullable: true
        clientId nullable: false, blank: false
        value nullable: false, blank: false, unique: true
        tokenType nullable: false, blank: false
        expiration nullable: false
        scope nullable: false
        refreshToken nullable: true
        authenticationKey nullable: false, blank: false, unique: true
        authentication nullable: false, minSize: 1, maxSize: 1024 * 4
additionalInformation nullable: true
static mapping = {
        version false
        scope lazy: false
```

4.3 Refresh Token Class

This class represents a refresh token issued as part of one of the grants that supports issuing a refresh tol configuration for more. The authentication object serialized is an instance of OAuth2Authentication

```
package com.yourapp

class RefreshToken {

String value
    Date expiration
    byte[] authentication

static constraints = {
       value nullable: false, blank: false, unique: true
       expiration nullable: true
       authentication nullable: false, minSize: 1, maxSize: 1024 * 4
    }

static mapping = {
       version false
    }
}
```

If a non-expiring refresh token is desired, the client issuing the refresh token should be configured to re 2.0.6.RELEASE. A non-expiring GORM refresh token will be stored with a null expiration. When readi returned for processing by Spring Security OAuth. Otherwise an instance of OAuth2RefreshToken wi

4.4 Authorization Code Class

This class represents an authorization code that has been issued via the authorization endpoint as part o Security OAuth 2.0.

```
package com.yourapp

class AuthorizationCode {

byte[] authentication
    String code

static constraints = {
        code nullable: false, blank: false, unique: true
        authentication nullable: false, minSize: 1, maxSize: 1024 * 4
    }

static mapping = {
        version false
    }
}
```

5 Optional Domain Classes

The plugin provides support for using a GORM backed ApprovalStore with the ApprovalStor application is configured to use the UserApprovalSupport.APPROVAL_STORE method of auto-app

The <u>s2-init-oauth2-approval</u> script will create the required domain class for you in a specified package and needs. If you change the default property names, you will need to update grails-app/conf/Config

The below discussion assumes the s2-init-oauth2-approval script has been run with com.yourapp specif

5.1 Approval Class

This class represents a prior scoped approval granted to a client by a user.

```
package com.yourapp

class Approval {
String username
    String clientId

String scope
    boolean approved

Date expiration
    Date lastModified

static constraints = {
        username nullable: false, blank: false
        clientId nullable: false, blank: false
        scope nullable: false, blank: false
        expiration nullable: false
        lastModified nullable: false
        lastModified nullable: false
    }
}
```

6 Domain Class Properties

No default class name is assumed for the required domain classes. They must be specified in grails-ar the grails.plugin.springsecurity.oauthProvider namespace.

6.1 Client Class Properties

| Property | Default Value | N |
|--|-------------------------------|---------|
| clientLookup.className | null | C |
| clientLookup.clientIdPropertyName | 'clientId' | С |
| clientLookup.clientSecretPropertyName | 'clientSecret' | C |
| client Look up. access Token Validity Seconds Property Name | 'accessTokenValiditySeconds' | C |
| client Look up. refresh Token Validity Seconds Property Name | 'refreshTokenValiditySeconds' | C |
| clientLookup.authoritiesPropertyName | 'authorities' | C |
| clientLookup.authorizedGrantTypesPropertyName | 'authorizedGrantTypes' | C |
| clientLookup.resourceIdsPropertyName | 'resourceIds' | C |
| clientLookup.scopesPropertyName | 'scopes' | C |
| clientLookup.autoApproveScopesPropertyName | 'autoApproveScopes' | C cl |
| clientLookup.redirectUrisPropertyName | 'redirectUris' | C |
| clientLookup.additionalInformationPropertyName | 'additionalInformation' | С |

6.2 Access Token Class Properties

| Property | Default Value | Meaning |
|--|-------------------------|-------------|
| accessTokenLookup.className | null | Access tok |
| accessTokenLookup.authenticationKeyPropertyName | 'authenticationKey' | Access tok |
| accessTokenLookup.authenticationPropertyName | 'authentication' | Access tok |
| accessTokenLookup.usernamePropertyName | 'username' | Access tok |
| accessTokenLookup.clientIdPropertyName | 'clientId' | Access toko |
| accessTokenLookup.valuePropertyName | 'value' | Access tok |
| accessTokenLookup.tokenTypePropertyName | 'tokenType' | Access tok |
| accessTokenLookup.expirationPropertyName | 'expiration' | Access tok |
| accessTokenLookup.refreshTokenPropertyName | 'refreshToken' | Access toko |
| accessTokenLookup.scopePropertyName | 'scope' | Access tok |
| access Token Look up. additional Information Property Name | 'additionalInformation' | Access toke |

Currently only 'bearer' tokens are supported.

6.3 Refresh Token Class Properties

| Property | Default Value | Meaning |
|---|------------------|--------------------------------|
| refreshTokenLookup.className | null | Refresh token class name. |
| refresh Token Look up. authentication Property Name | 'authentication' | Refresh token class serialized |
| refreshTokenLookup.valuePropertyName | 'value' | Refresh token class value fie |
| refreshTokenLookup.expirationPropertyName | 'expiration' | Refresh |

6.4 Authorization Code Class Properties

| Property | Default Value | Meaning |
|--|------------------|-------------------------|
| authorizationCodeLookup.className | null | Authorization code clas |
| authorization Code Look up. authentication Property Name | 'authentication' | Authorization code clas |
| authorizationCodeLookup.codePropertyName | 'code' | Authorization code clas |

7 Configuration

The plugin is pessimistic by default, locking down as much as possible to guard against accidental se properties below exist in the grails.plugin.springsecurity.oauthProvider namespace.

7.1 Plugin

The following properties define whether the plugin is active and where the required filters are registered in

| Property | Default Value |
|---|--|
| active | true |
| filterStartPosition | SecurityFilterPosition.X509_FILTER.order |
| clientFilterStartPosition | SecurityFilterPosition.DIGEST_AUTH_FILTER.or |
| statelessFilterStartPosition | SecurityFilterPosition.SECURITY_CONTEXT_FILT |
| exceptionTranslationFilterStartPosition | SecurityFilterPosition.EXCEPTION_TRANSLATION |
| basicAuthenticationFilterStartPosition | SecurityFilterPosition.BASIC_AUTH_FILTER.org |
| registerStatelessFilter | true |
| registerExceptionTranslationFilter | true |
| registerBasicAuthenticationFilter | true |
| realmName | Grails OAuth2 Realm |

7.2 Endpoint URLs

The endpoint URLs used by the underlying Spring Security OAuth 2.0 implementation can be changed usi

| Property | Default Value | Meaning |
|----------------------------|-------------------------|---|
| authorizationEndpointUrl | '/oauth/authorize' | Authorization endpoint URL. |
| tokenEndpointUrl | '/oauth/token' | Token endpoint URL. |
| user Approval Endpoint Url | '/oauth/confirm_access' | URL of the view to display for confirming |
| userApprovalParameter | 'user_oauth_approval' | The name of the parameter submitted in false) access. |
| errorEndpointUrl | '/oauth/error' | URL of the view to display if an error occlient's redirect URI. This is usually the car |

When changing the URL for the authorizationEndpointUrl or tokenEndpointUrl, you mexample, your grails-app/conf/Config.groovy will look like this:

```
grails.plugin.springsecurity.controllerAnnotations.staticRules = [
'/oauth/authorize.dispatch': ["isFullyAuthenticated() and (request.g
'/oauth/token.dispatch': ["isFullyAuthenticated() and request.ge
...
```

To change the authorization Endpoint Url to /authorize, you will need to make the following

The URL mapping must include the .dispatch suffix in order integrate with the underlying Spring MV

7.3 Token Services

The following properties apply to how tokens are issued and how long they are valid. If a client has defined

| Property | Default Value | Meaning |
|--|-------------------|-------------------------------------|
| tokenServices.registerTokenEnhancers | true | Whether registered TokenEnha: |
| tokenServices.accessTokenValiditySeconds | 60 * 60 * 12 | The length of time that an access |
| token Services. refresh Token Validity Seconds | 60 * 60 * 24 * 30 | The length of time that a refresh t |
| tokenServices.reuseRefreshToken | false | Whether a new refresh token shou |
| tokenServices.supportRefreshToken | true | Whether a refresh token can be is |

7.4 Token Enhancers Configuration

By default, the plugin will register a TokenEnhancerChain with an empty list of TokenEnhance registered Spring beans implementing the TokenEnhancer interface.

If more control over the ordering of the enhancers in the chain is desired, set the tokenServicetokenEnhancerChain, so the plugin consumer can get a handle to it for more fine grained configuration.

This bean is aliased under the name tokenEnhancer. This is the bean that is registered with the tokenEnhancer bean.

7.5 Supported Grant Types

The following properties determine which of the standard grant types the application can support. Individu

| Property | Default Value | Meaning |
|------------------------------|----------------------|--|
| grantTypes.authorizationCode | true | Whether the Authorization Code Grant is supported. |
| grantTypes.implicit | true | Whether the Implicit Grant is supported. |
| grantTypes.clientCredentials | true | Whether the Client Credentials Grant is supported. |
| grantTypes.password | true | Whether the Resource Owner Password Credentials is sup |
| grantTypes.refreshToken | true | Whether Refresh Token Grant is supported. |

7.6 Additional Authorization Constraints

The plugin enforces the following restrictions on authorization request params:

| Property | Default Value | Meaning |
|--|------------------|---|
| authorization.requireRegisteredRedirectUri | true | Whether a client is required to have registered a r <i>URI Manipulation</i> and <i>RFC 6749 Section 10.15</i> : |
| authorization.requireScope | true | Whether the scope for each access token requeste |

7.7 User Approval Configuration

The plugin provides support for the three UserApprovalHandler implementations provided by the auto-approval used by the application. The following properties determine which method of auto-approval

| Property | Default Value | Meaning | |
|--------------------------|----------------------|---|--|
| auto | EXPLICIT | Determines which method of auto-approval to use. Token_store or Approval_store. | |
| handleRevocationAsExpiry | false | When configured to use an approval store for auto-app false) outright. | |
| approvalValiditySeconds | 60 * 60 * 24 * 30 | When configured to use an approval store for auto-app | |
| scopePrefix | 'scope.' | When configured to use an approval store for auto-app | |

The auto property determines which of the three UserApprovalHandler provided by Spring OAuth
The default option is to require explicit approval for every authorization and is equivalent to setting auto

```
grails.plugin.springsecurity.oauthprovider.approval.auto = UserApproval.EXPLICIT
```

Auto-approval based on previously issued access tokens is supported via the TokenStoreUserApprov

```
grails.plugin.springsecurity.oauthprovider.approval.auto = UserApproval.TOKEN_STO
```

Auto-approval based on prior approvals is supported via the ApprovalStoreUserApprovalHandle

```
grails.plugin.springsecurity.oauthprovider.approval.auto = UserApproval.APPROVAL_
```

The plugin will configure the TokenStoreUserApprovalHandler and ApprovalStoreUserAp

Please consult Spring OAuth directly for more information on the usage of the TokenStore and Appro-

7.8 Default Client Configuration

An application can use the following properties to define the default values that will be used when creating access token unless they have explicitly registered support for the requested grant type.

| Property | Default Value | Meaning |
|---|----------------------|---|
| defaultClientConfig.resourceIds | [] | Resources the client is authorized to a |
| default Client Config. authorized Grant Types | [] | Grant types the client supports. |
| defaultClientConfig.scope | [] | Scope to use for each access token req |
| defaultClientConfig.autoApproveScopes | [] | Scopes to auto-approve for authorizati |
| defaultClientConfig.registeredRedirectUri | null | URI to redirect the user-agent to durin |
| defaultClientConfig.authorities | [] | Roles and authorities granted to the cl |
| default Client Config. access Token Validity Seconds | null | The length of time that an access toker |
| default Client Config. refresh Token Validity Seconds | null | The length of time that a refresh token |
| defaultClientConfig.additionalInformation | [:] | Additional information about the clien |

7.9 Filter Chain Configuration

Spring Security Core plugin's securityContextPersistenceFilter stores state in the HTTP ses

By default, the OAuth2 plugin will register the statelessSecurityContextPersistenceFilt is provided as a convenience for the plugin consumer, so they can remove one filter or the other to easily a the registerStatelessFilter configuration option to false.

The plugin registers an OAuth2AuthenticationProcessingFilter under the bean name oauth

The plugin registers a ClientCredentialsTokenEndpointFilter under the bean name clien requests. The plugin also registers a BasicAuthenticationFilter under the bean name oauth2E is the recommended method in the OAuth 2.0 specification.

Finally, the plugin registers an ExceptionTranslationFilter under the bean name oaut HttpSessionRequestCache instance that the Spring Security Core plugin provided ExceptionTranslatered automatically by the plugin but can be disabled by setting the registerExceptionTransl

The following filter chain configuration is recommended:

The oauth2ProviderFilter and stateful securityContextPersistenceFilter securityContextPersistenceFilter removed, the statelessSecurityContextPexceptionTranslationFilter will allow the oauth2ExceptionTranslationFilter to ta

The securityContextPersistenceFilter and exceptionTranslationFilter are also r filter is responsible for authenticating the OAuth 2.0 access token included in the request.

It is recommend that filter chain(s) for non-OAuth 2.0 resources have all OAuth 2.0 specific fil clientCredentialsTokenEndpointFilter, basicAuthenticationFilter and oa rememberMeAuthenticationFilter are removed from the filter chains for the token endpoint and