

# Configuration Details

The Ed-Fi ODS / API is configurable in a number of ways. Since the source code is available to licensees, one could argue that everything is configurable. But, what we're discussing in this section are things like settings and options that do not require a change to the compiled code.

Key configuration points include:

- OAuth endpoints
- OAuth key retrieval site location
- Instance type information (e.g., Sandbox, Shared Instance)
- Bulk upload directory
- Key retrieval maximum tries
- Token timeout value

Detail about the configurations can be found in the tables below.

## Required Configuration Settings

Some configuration must be done for every ODS / API platform instance. Examples of required configurations include database connection strings, SMTP server locations, and similar.

To make it easier for developers to install and run the Ed-Fi ODS / API, the default download from source control is pre-configured with values appropriate for a developer or single-server test instance of the system.

Application	Location	Setting Name	Value	Description
EdFi.Ods.Admin.Web	Web.config	OAuthUrl	Example: http://site-address:port/oauth	Points to the root of the authorization API in the Ed-Fi ODS website.
EdFi.Ods.SecurityConfiguration.Administration.Web	Web.config	KeyRetrievalSite	Example: http://site-address:port/	Points to the Key Retrieval tool application. The link in the email body uses this address as the root address of the Key Retrieval Tool site.
EdFi.Ods.WebApi	Web.config	owin:appStartup	Sandbox, SharedInstance, etc.	The component settings for the API. See the Developers' Guide for more information on this setting.
EdFi.Ods.WebApi	Web.config	BulkOperationWorkingFolder	Example: c:\temp	A temporary storage area used to assemble bulk upload data.
EdFi.Ods.WebApi	Web.config	DescriptorNamespacePrefix	Example: http://www.ed-fi.org	The default namespace for creating and finding descriptors if none are supplied. More information on descriptors and descriptor namespaces can be found at <a href="#">Ed-Fi Descriptors</a>
EdFi.Ods.SwaggerUI	Web.config	swagger.webApiMetadataUrl	Example: http://site-address:port/metadata/{section}/api-docs	The location of the Swagger metadata in the Ed-Fi ODS / API

A deployment to a staging or production instance is usually more involved, and requires additional configuration. Required configurations for a production instance can be found in the [Deployment](#) section of this documentation.

## Optional Configuration Settings

Although this list of settings is not exhaustive, other important and useful optional configuration values include:

Application	Location	Setting Name	Value	Description
Key Retrieval Web App	Web.config	MaxChallengeRetries	Default Value: 3	This is the number of tries a vendor is allowed to enter the correct activation code to retrieve the key and secret.
EdFi.Ods.SwaggerUI	Web.config	swagger.prepopulatedKey	Example: populatedTemplate	Optionally provides the value to prefill in the "key" field of auth.
EdFi.Ods.SwaggerUI	Web.config	swagger.prepopulatedSecret	Example: populatedTemplateSecret	Optionally provides the value to prefill in the "secret" field of auth.

## Developers' Guide Contents

Find out more about how to develop platforms based on the Ed-Fi ODS / API v2.4:

EdFi.Ods. Admin.Web	Web.config	<initialization>	<p>Example:</p> <pre data-bbox="521 180 792 1020"> &lt;initialization enabled="true"&gt;   &lt;users&gt;     &lt;add name=" Test Admin" email=" test@ed-fi.org" password=" ***REMOVED***" admin="true"&gt;       &lt;sandboxes&gt;         &lt;sandbox name="Populated Demonstration Sandbox" key=" populatedSandbox" secret=" populatedSandboxSecret" type="Sample" refresh="true" /&gt;         &lt;sandbox name="Minimal Demonstration Sandbox" key=" minimalSandbox" secret=" minimalSandboxSecret" type="Minimal" refresh="true" /&gt;       &lt;/sandboxes&gt;     &lt;/add&gt;   &lt;/users&gt; &lt;/initialization&gt; </pre>	<p>Custom configuration section for defining automatically created user accounts and sandboxes. Also configures automatic refreshes of sandboxes to a clean state. Each user entry will be created with the given email/password, and the sandboxes defined underneath it will also be created for the type and key/secret values.</p>
EdFi.Ods. WebApi	Web.config	QueueAutoCreate	Example: 1	Whether or not a message queue should be created if it is not found. For Azure or Active Directory queues, this should be 0.
EdFi.Ods. WebApi	Web.config	CommitUploadCommandMessageEndPoint	Example: localhost	The server hosting the message queues.
EdFi.Ods. WebApi	Web.config	BearerTokenTimeoutMinutes	Example: 30	The amount of time that an inactive token remains valid.