

## Download and Install

### Download the Docmosis Tornado Server

You will also need to obtain a license key to allow the server to run.

### Install OpenOffice or LibreOffice

Docmosis works well with either LibreOffice or OpenOffice. You should install the one you are most familiar with, or the one best supported by the platform on which you are running the server.

If unsure, LibreOffice is the most common starting point.

### Install Java 6 or Later

Install the latest version of Java if you do not already have it.

Note: if you have installed a 32-bit version of OpenOffice or LibreOffice you will need a 32-bit version of Java, or a 64-bit version that can run in 32-bit mode).

## Starting and Connecting

The following commands assume the Tornado distribution is called docmosisTornado.war. This name may be slightly different so you should adjust the following commands to refer to the file you downloaded.

### To launch the server

Launching the server is easy:

```
java -jar docmosisTornado.war
```

This will start the server running on port 8080 by default. The server will log what it is doing to the screen. Later when you have completed configuration, logging will move to a configured location.

### 32-Bit vs 64-Bit

If you have installed a 64-bit version of OpenOffice or LibreOffice you will need a 64-bit version of Java to run Tornado.

If you have installed a 32-bit version of OpenOffice or LibreOffice you will need a 32-bit version of Java to run Tornado.

On Windows, if OpenOffice or LibreOffice is installed under "C:\Program Files" – then it is a 64-bit version and you will need to use a 64-bit Java installed in "C:\Program Files". If OpenOffice or LibreOffice is installed under "C:\Program Files (x86)" – then it is a 32-bit version and you will need to use a 32-bit Java installed in "C:\Program Files (x86)".

On OSX, the Java installed is typically a 64 bit version. To run the server, you will most likely need to run in 32 bit mode which you can do like this:

```
java -d32 -jar docmosisTornado.war
```

## Choosing a Different Port

If you have a requirement to use a different port for the server, you can override the default as follows:

```
java -Dport=8090 -jar docmosisTornado.war
```

## Control of Logging

Logging of information by Tornado can be controlled by several command line settings:

Setting	Description
<code>log.level=debug info error</code>	Specify the level of logging to the console and log files. eg: <code>java -Dlog.level=debug -jar docmosisTornado.war</code>
<code>log4j.config.file=path</code>	Specify log4j logging configuration file. eg: <code>java -Dlog4j.config.file=c:/projects/log4j.properties -jar docmosisTornado.war</code>
<code>java.util.logging.config.file=path</code>	Specify the Java Util logging configuration file. eg: <code>java -Djava.util.logging.config.file=c:/logging.properties ..</code>

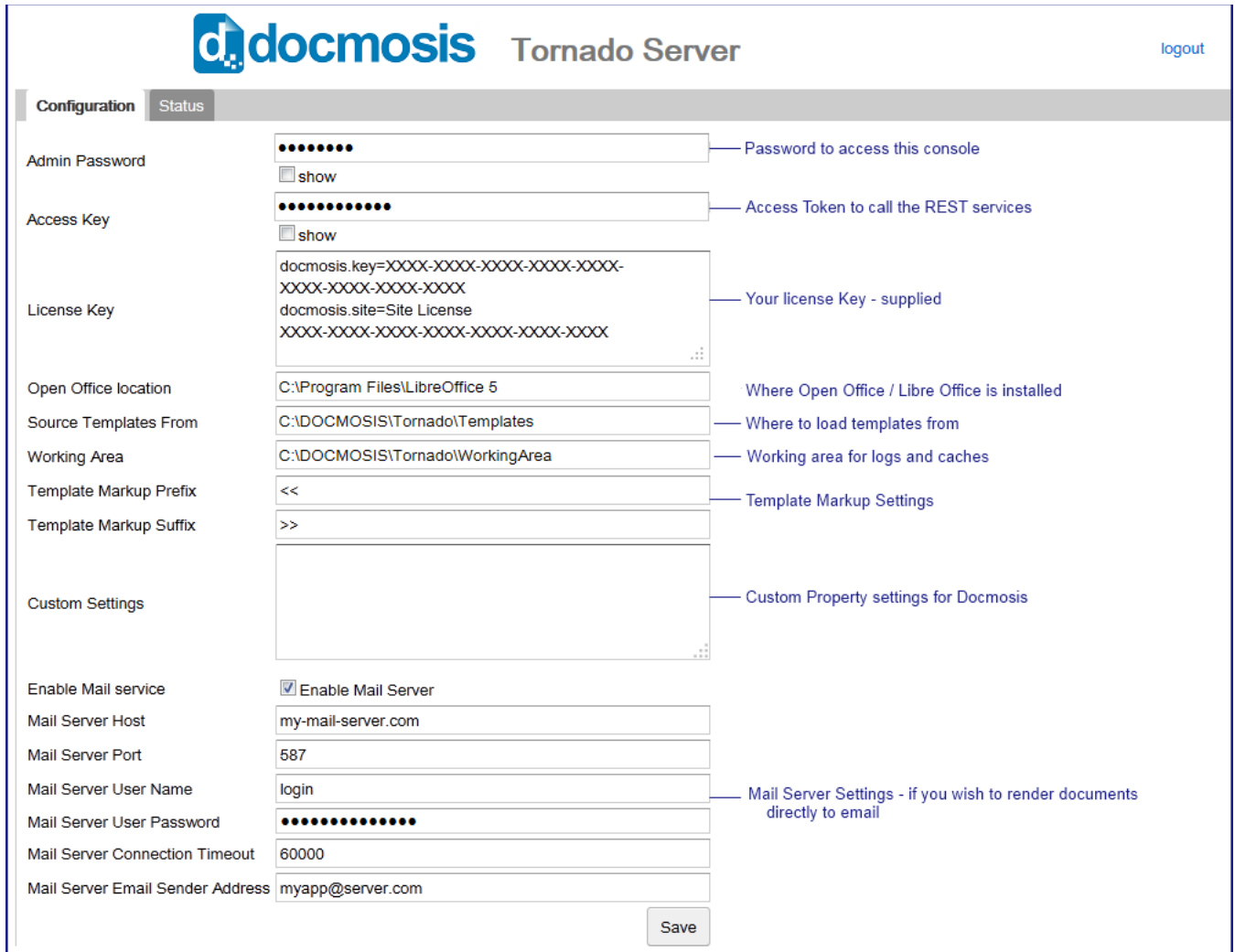
## Configuring

When Tornado first runs, it will not have a valid license key, so you cannot yet use it to generate documents.

You can connect to Tornado using any web browser by visiting this address:

```
http://localhost:8080/
```

This will present you with the Tornado Server configuration page on your first visit:



**docmosis** Tornado Server logout

**Configuration** | Status

Admin Password: Password to access this console

Access Key: Access Token to call the REST services

License Key: Your license Key - supplied

Open Office location: Where Open Office / Libre Office is installed

Source Templates From: Where to load templates from

Working Area: Working area for logs and caches

Template Markup Prefix: Template Markup Settings

Template Markup Suffix: Template Markup Settings

Custom Settings: Custom Property settings for Docmosis

Enable Mail service:  Enable Mail Server

Mail Server Host: my-mail-server.com

Mail Server Port: 587

Mail Server User Name: login

Mail Server User Password: Mail Server Settings - if you wish to render documents directly to email

Mail Server Connection Timeout: 60000

Mail Server Email Sender Address: myapp@server.com

Save

The diagram above illustrates the basics of the areas to be configured. The page provides valuable tool tips for the fields also.

## Minimum Configuration

To start with you only need to enter values for the:

- Licence Key
- OpenOffice Location
- Source Templates From
- Working Area.

Then click on Save.

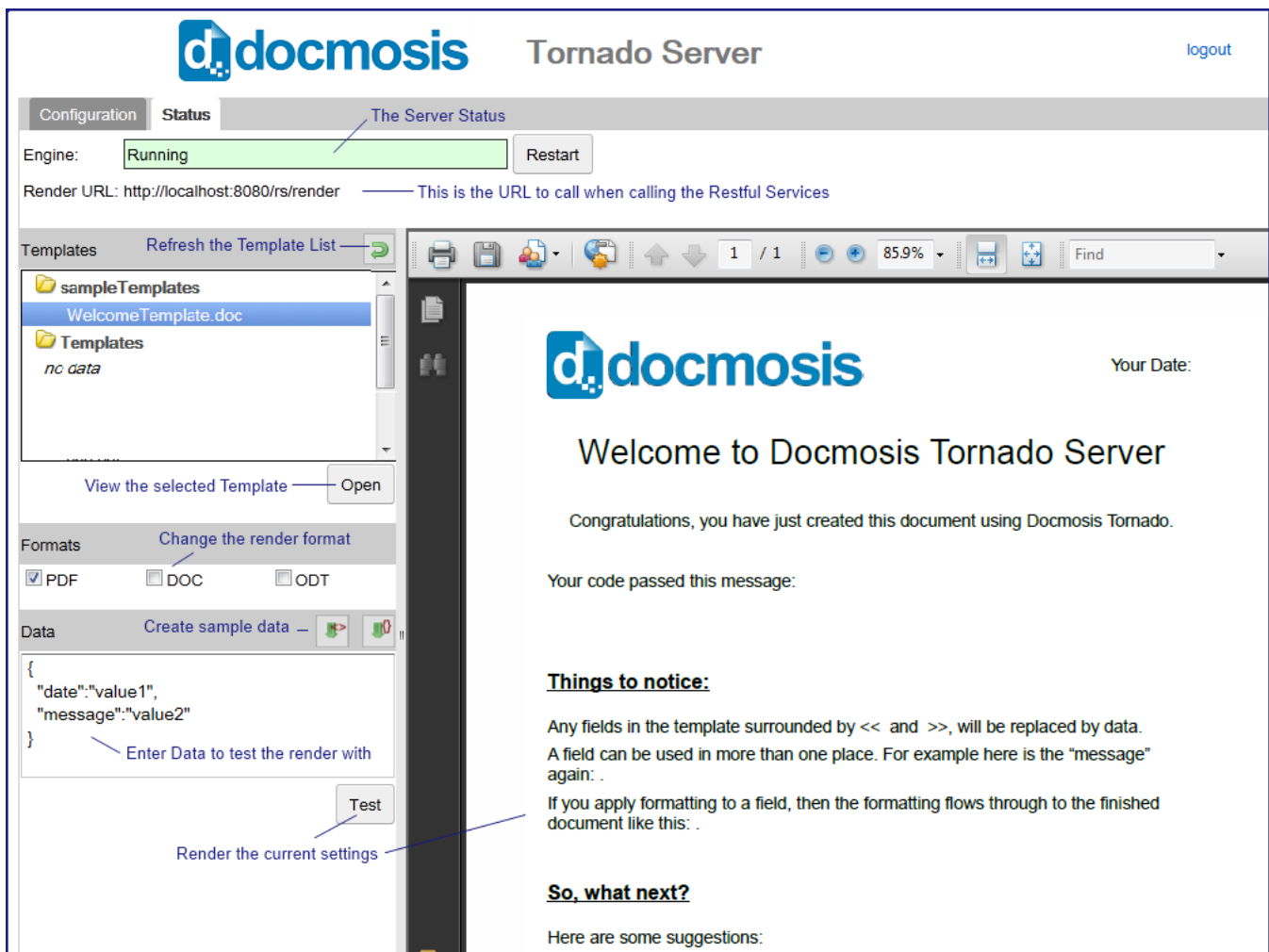
## Where Configuration Information Lives

Configuration information is saved against the account of the user running the server. This configuration is persisted in the Windows registry on Windows platforms and in the user's home directory on linux/unix based systems.

## Running the Server and Testing

Once you have completed and saved the Configuration Page, you can move to the Status page, to start the server.

In future, the server will start automatically when you run the `java -jar docmosisTornado.war` command.



The screenshot shows the Docmosis Tornado Server web interface. At the top, there is a navigation bar with the Docmosis logo, the text 'Tornado Server', and a 'logout' link. Below this is a 'Configuration' and 'Status' tab bar. The 'Status' tab is active, showing 'The Server Status'. The 'Engine' is 'Running' and there is a 'Restart' button. The 'Render URL' is 'http://localhost:8080/rs/render'. Below this is a 'Templates' section with a 'Refresh the Template List' button and a list of templates: 'sampleTemplates', 'WelcomeTemplate.doc', and 'Templates'. There is also a 'Formats' section with 'Change the render format' and options for 'PDF', 'DOC', and 'ODT'. The 'Data' section has 'Create sample data' and a 'Test' button. The main content area displays a 'Welcome to Docmosis Tornado Server' message with a 'Your Date:' field. Below this is a 'Congratulations, you have just created this document using Docmosis Tornado.' message. There is also a 'Your code passed this message:' section. A 'Things to notice:' section provides instructions on using fields in the template. A 'So, what next?' section provides suggestions. The 'Test' button is highlighted with a blue arrow pointing to it from the text 'Render the current settings'.

## Templates

The Tornado Status Page allows you to view a list of your templates and open them (if you are running the server on your local machine). You can then edit and save your templates so you can test the changes immediately. Note that this will change the templates in the path you have configured, so don't modify templates unless you mean to.

## Creating Dummy Data

From the Tornado Status Page can create dummy data (either JSON or XML) based on the template you have selected. Tornado queries the template for fields and has its “best guess” at creating data that matches the template.

Templates can contain complicated structures for repeating and nested data, so you may need to adjust the generated data structure so that it looks like your expected data.

Tornado will generate data values : “value1”, “value2” and so on – which you can change to look more like your data.

## Creating a Document

You can create a document from the Tornado Status Page.

If you render a PDF only, and your browser is configured with a PDF viewer, the output file will be displayed in the browser panel on the right.

If you choose any other formats, or combinations of formats, you will receive the rendered document as a download.

## Generating Documents from Your Application

The Tornado Status Page displays the Render URL to use for calling the Render service (just below the Engine status).

This is the URL to use with your client code / libraries to request documents to be rendered.

You should refer to the Tornado Web Services Guide in the Resources area of the Docmosis site <https://www.docmosis.com/resources/tornado.html> for details about invoking the render service.

## Comparing Tornado with Docmosis Cloud

Note that Docmosis Tornado provides only the render service. The Docmosis Cloud service provides many other services to support producing documents in a cloud environment. The render service is identical to that provided by the cloud service except for:

1. The URL is different - you will direct the requests to your local Docmosis Tornado server instead of the public Cloud Service
2. The following REST web services are provided (more details are provided in the Tornado Web Services Guide):
  - a. “render” – create a document

- b. “getTemplateStructure” – get a JSON description of the structure of a template
  - c. “convert” – convert the supplied document to another format (without any data merging)
  - d. “ping” and “status” – determine the Tornado operational status
3. Store-to directives for cloud and AWS (Amazon S3) storage are not available
  4. REST clients do not need to supply an access key (unless you set one in the configuration tab)
  5. Emailing documents is supported as long as you have configured an email gateway into Docmosis Tornado configuration

## Monitoring Tornado

Tornado includes two web service end-points to support automated monitoring:

“ping” eg <http://localhost:8080/rs/ping>

“status” eg <http://localhost:8080/rs/status>

See the Tornado Web Services Guide for details about these monitoring end-points.

## More Help

Docmosis document generation provides a large number of features controlled from both the templates and from the data. To get the most out of Docmosis, please read the Developer Guide and Template Guides on the Docmosis web site under the Resources area:

<https://www.docmosis.com/resources/all-resources.html>

We hope you enjoy using Tornado.