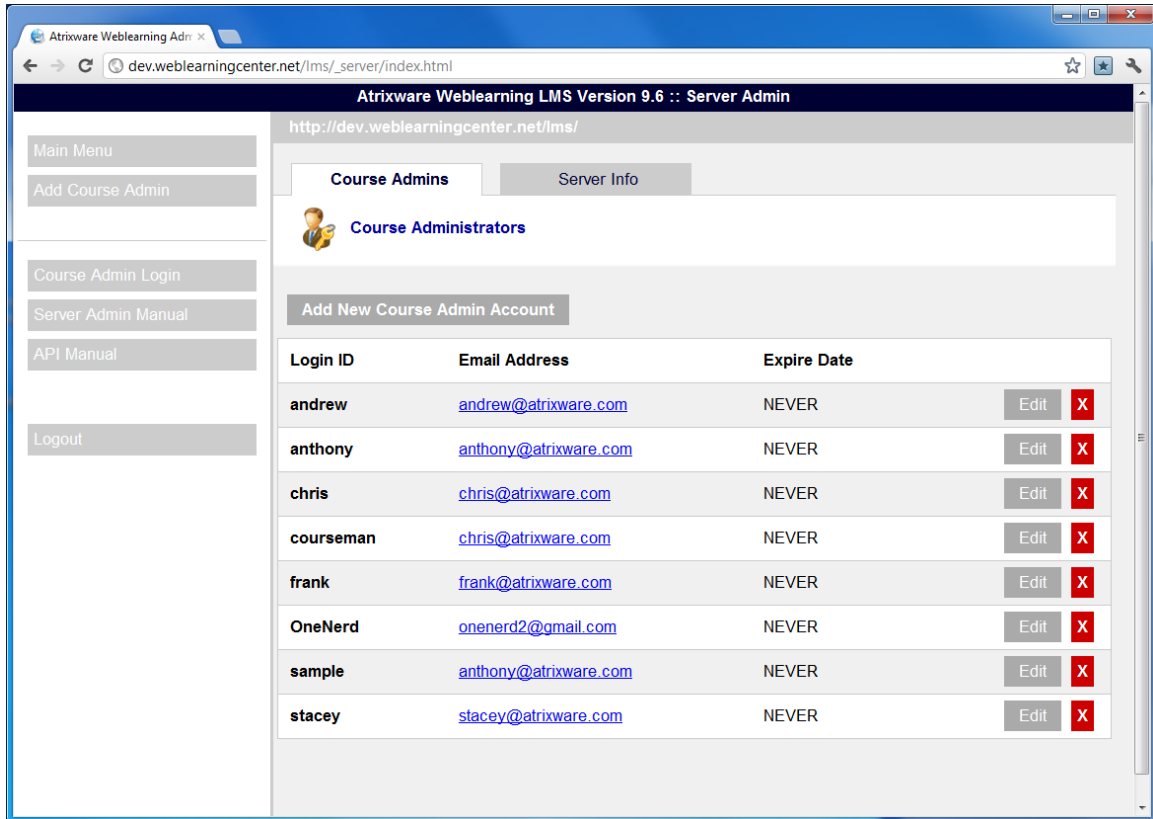


ATRIXWARE

Documentation



Weblearning 9.64 LMS Server Administrator Guide

*The Installation, Configuration and Customization Guide for
Weblearning Enterprise, Enterprise Gold & Enterprise
Platinum Edition Server Administrators*

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Weblearning 9.64 Learning Management System Server Administrator Guide

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Who this Manual is for

If you are reading this manual, it is assumed that you are the administrator of the server, or at a minimum, the designated person that will act as the administrator of the Weblearning system.

The *Weblearning 9.64 LMS* has two different core levels of administration.

A “*course administrator*” is a person that creates online learning content, including courses, quizzes, and presentations, and works with students, scores, etc. If this identifies you, then refer to the “*Weblearning Course Administrators Guide*”.

The “*server administrator*”, which this documentation covers, is the person that sets up the Weblearning system, configures the system-wide settings, and can add, remove, and modify *course administrators*. There can be only a single Server Administrator (*one login for the server admin*) on a *Weblearning 9.64* system.

Installing the Weblearning LMS 9.64

This section discusses how to install the *Weblearning 9.64 LMS* onto your server. Setup should take anywhere from 15 minutes to several hours depending on your existing server setup and knowledge of your server operating system. If you get stuck, please feel free to contact Atrixware for assistance.

System Requirements

In order to use the *Weblearning 9.64 LMS*, your server will need to meet the following *minimum* requirements:

1. Linux, Unix, Windows Server
2. Apache (1.3 or 2.x)
3. PHP 5.2 + (*with MYSQL and GDLIB library*)
4. MySql 4.1.2 +
5. ZEND Optimizer (*available free from www.zend.com if not already installed*)
6. 1GB Ram (*or minimum required by your server operating system*)
7. 250mb drive space (*or more depending on your usage*)

Note for Microsoft Windows Server Installations:

Although you can configure IIS to recognize PHP and MySql, in order for Atrixware to support the installation, you will need to use the Apache web server software. Also, while Linux and Unix distributions already have Apache, PHP, and MySql installed, you will need to install these packages on Windows. We do not install those components, but for extremely easy setup, check out the XAMPP installer for Windows (available here at the time of this writing: <http://www.apachefriends.org/en/xampp.html>), which installs everything you need via a standard Windows installer.

Provide Server information to Atrixware

Atrixware compiles the *Weblearning 9.64 LMS* specifically for your server. Therefore, they will request a minimum of the following information from you:

1. Name of your server (*example: www.yoursite.com*)
2. Unix/Linux filesystem path (*or Windows path*) to your web server (*example: /home/apache/website1/ or c:/inetpub/*)

After you provide this information, you will receive your *Weblearning 9.64 LMS* files either on CD-Rom, or, inside a .zip file. Place them somewhere on your computer (*and extract them from the ZIP file if needed*). You will need access to the files for the next steps.

Setting up your Database

This section discusses setting up the database using either a visual GUI (*example: PhpMyAdmin*) or the MySQL command-line tool.

If you are using PHPMYADMIN or similar GUI

Most servers now have the *PhpMyAdmin* web-based database software installed. If this applies to your server, simply use *PhyMyAdmin* to create a new database, making sure you remember the name of the database as well as the username and password needed to access the database (*which you will need later to put into a configuration file*).

There is no need to create the tables (*this will be done automatically by the setup script*).

If you are using the MySQL command line tool

1. From a command prompt, type in the following to log into the MySQL command-line utility (*replace {username} and {password} with the appropriate values*). Note that the username will need to have rights to create a database.

```
[~/home]# mysql -u{username} -p{password}
```

2. Create a database by issuing the following command (*replace {database_name} with the name of the database – such as “weblearn9” minus the quotes*).

```
mysql> create database {database_name};
```

If everything was done correctly, your database is now ready. There is no need to create the tables (*this will be done automatically by the setup script*). Remember the name of the database as well as the username and password needed to access the database (*which you will need later to put into a configuration file*).

Copy the Weblearning LMS Files

It is important that you follow these steps in order, and complete each step in full.

1. Remove any *index.htm* or *index.html* files from the web root folder for this server so they don't interfere with the *Weblearning 9.64 LMS* system.
2. From the *Weblearning 9.64 LMS* files you received from Atrixware, locate all files and folders in the */server_files/* folder.
3. Copy all files and folders from inside the */server/* folder directly into your server's web root folder (*the /server/ folder represents your server web root folder*).

***** IMPORTANT *****

*If you are using FTP, you will need to use BINARY transfer for the **/lms/_library/** folder and files since the .php files are not actually text files (but instead compiled binary files).*

4. **If you are using a Linux or Unix server**, you will need to issue a *chmod 777* on the */lms/* folder. This is required in order to allow the *server administrator* application to create the directories that will hold the course administrator accounts, and to allow each *course administrator* to upload files and to export *Microsoft Excel* reports
5. In a plain-text editor (*such as notepad.exe*), open up the file (*on your server*) named */lms/_library/___config.php*, and modify at least the following settings (*all settings are discussed in detail later in this manual*):
 - a. *The server admin password (your desired server admin password)*
 - b. *The name of the Database (you set up previously)*
 - c. *The database username and password*

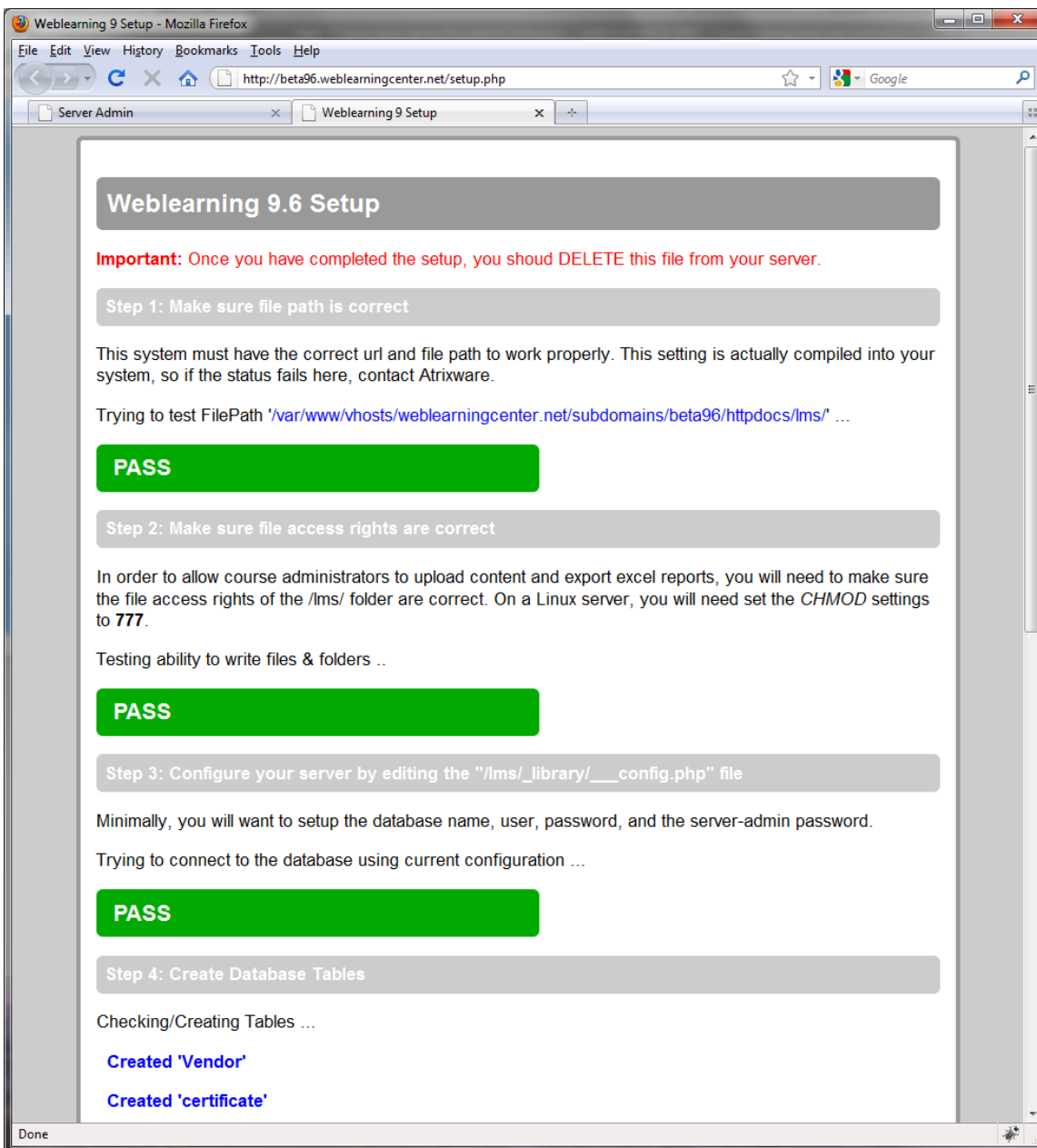
**** MAKE SURE YOU SAVE THE FILE *****

Run the Setup Script

The *Weblearning 9.64 System* includes a setup script, which goes through a series of server checks to see if your server is set up properly for the *Weblearning 9.64 System*, and will also create the database tables. To run the setup script, go to the following URL:

<http://www.your-server.com/setup.php> (replace with your server name)

A screen similar to the following will appear:



If your server is set up correctly, each section will have a “*PASS*” status, and an indicator at the bottom of the page will tell you that the server is set up properly.

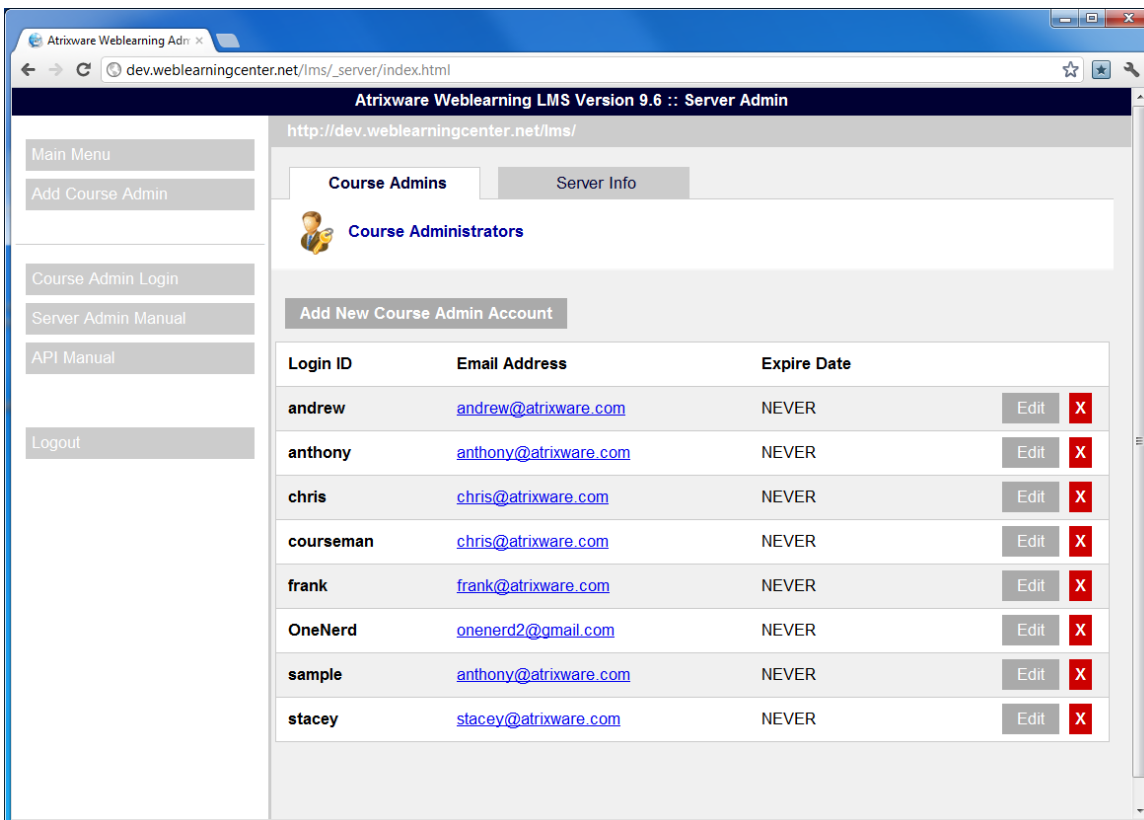
If there is a problem, a message will appear (*FAIL*) and will instruct you on what needs to be fixed.

You should delete or rename this file once you have completed the setup.

Logging in as Server Admin for the First Time

1. Open a web browser and go to *http://your.servername.com/server.php*
2. Login using “*admin*” as the username, and the password you previously set up.

If everything is set up properly, you should see a screen resembling the following (*but with no course administrators yet listed*):



Common Problems and Solutions

*Tip: To get information about your PHP installation, you can go to the setup page and click the **GET PHP INFO** button.*

The following are common issues and solutions for solving them:

Problem:

When I go to www.mysite.com/server.php and/or www.mysite.com/setup.php, I don't get anything – or I get a 'page not found' error.

Solution:

Make sure you copied the files to the correct place (*they should have been copied directly into your web root folder – the one Apache uses as the root folder where all http documents will go*).

Problem:

I get a message saying that the Zend Optimizer is not installed, a “Fatal Error”, a “Server Error 500”, or just a blank page.

Solution:

First, make sure you do in fact have the ZEND optimizer installed on your server (*go to www.zend.com, make sure you have the correct binary, and have followed the installation instructions*).

Next, make sure you have uploaded the .php files in the `/_library/` folder as binary files (*many FTP clients will upload .php files as plain-text*).

Problem:

I get error messages on the screen in various pages, with some pages functioning properly, and some not at all.

Solution:

There are dozens of PHP settings, and your server may have some settings that conflict with the Weblearning code. For this issue, contact Atrixware so they can evaluate your PHP/MySQL configuration and see what setting(s) need to be modified.

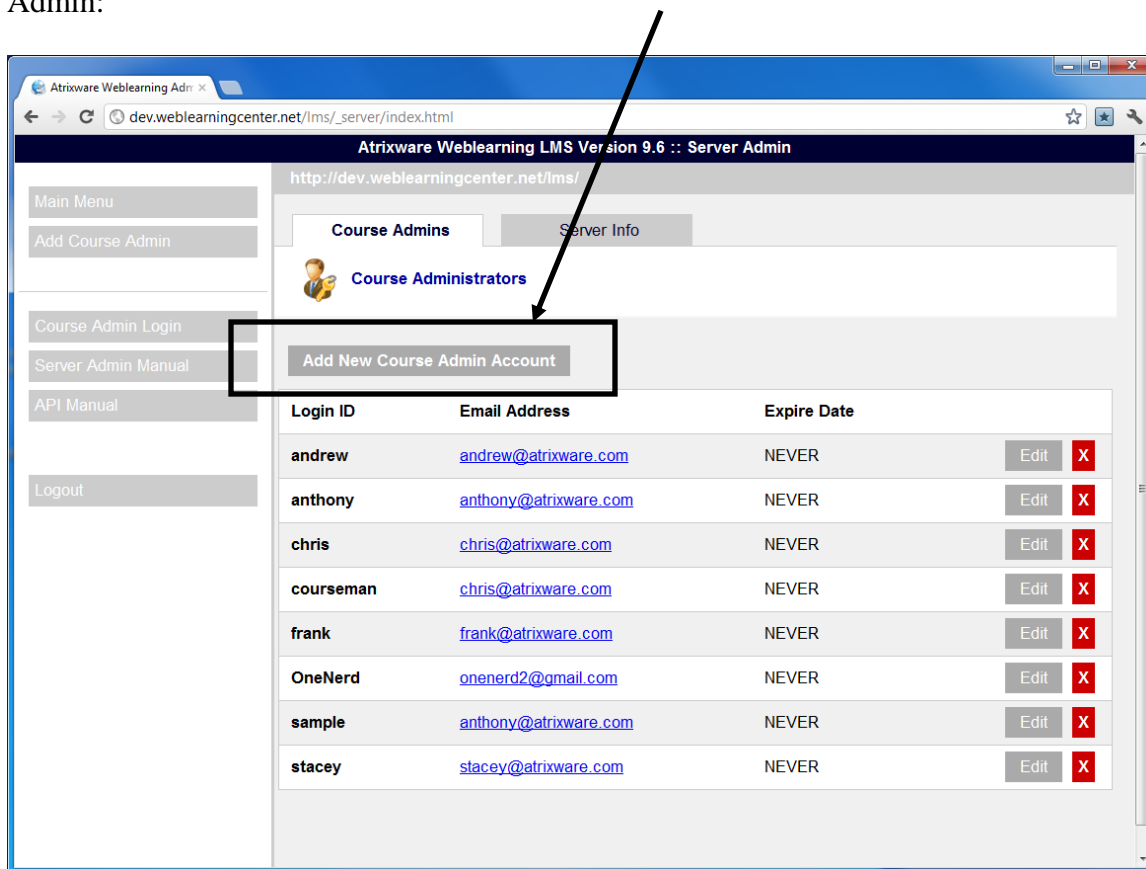
Working with Course Administrators

The bulk of your work will be in dealing with *course administrator* accounts. Each course administrator can have their own question bank, quizzes, presentations, files, students, scores, and more.

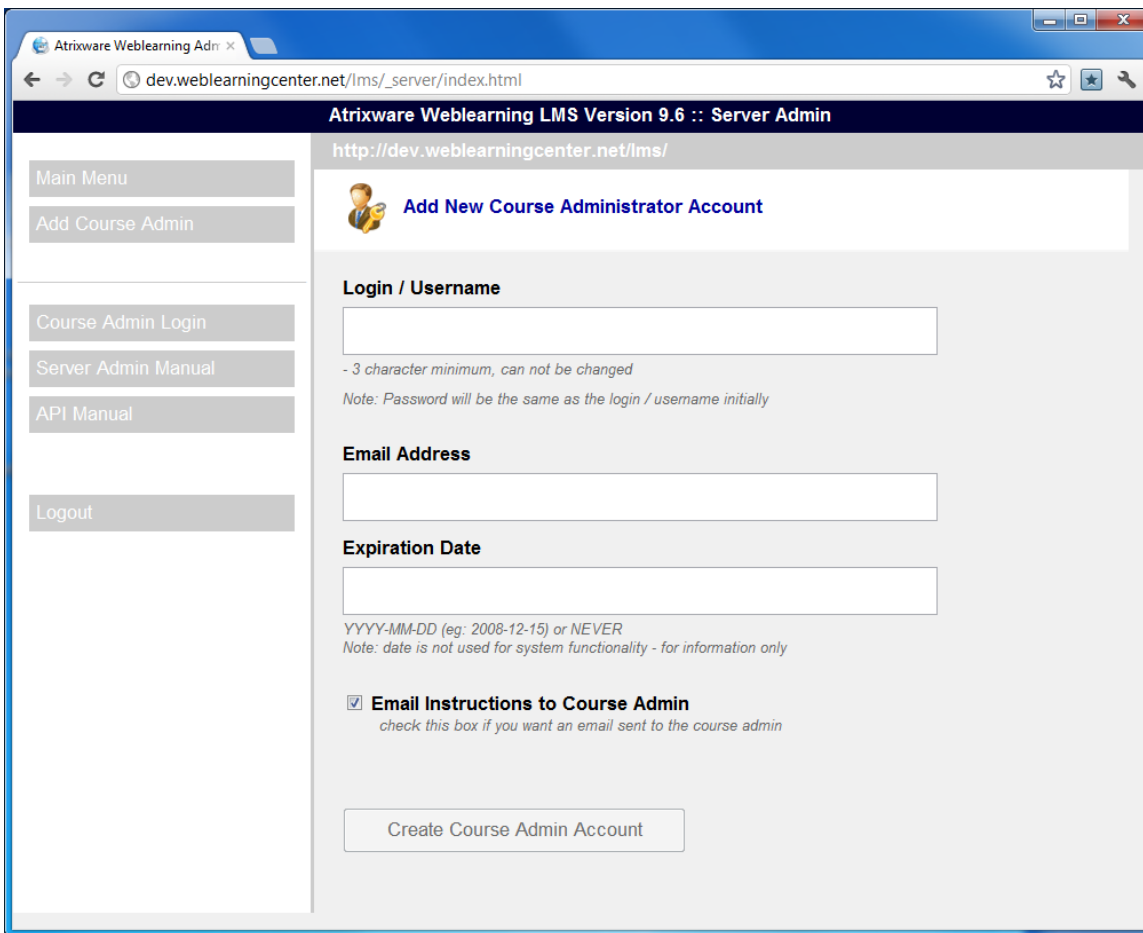
This section will discuss adding, modifying, and removing *course administrator* accounts.

Add a Course Administrator

1. Log into the Server Administrator application, and click the link to add a New Course Admin:



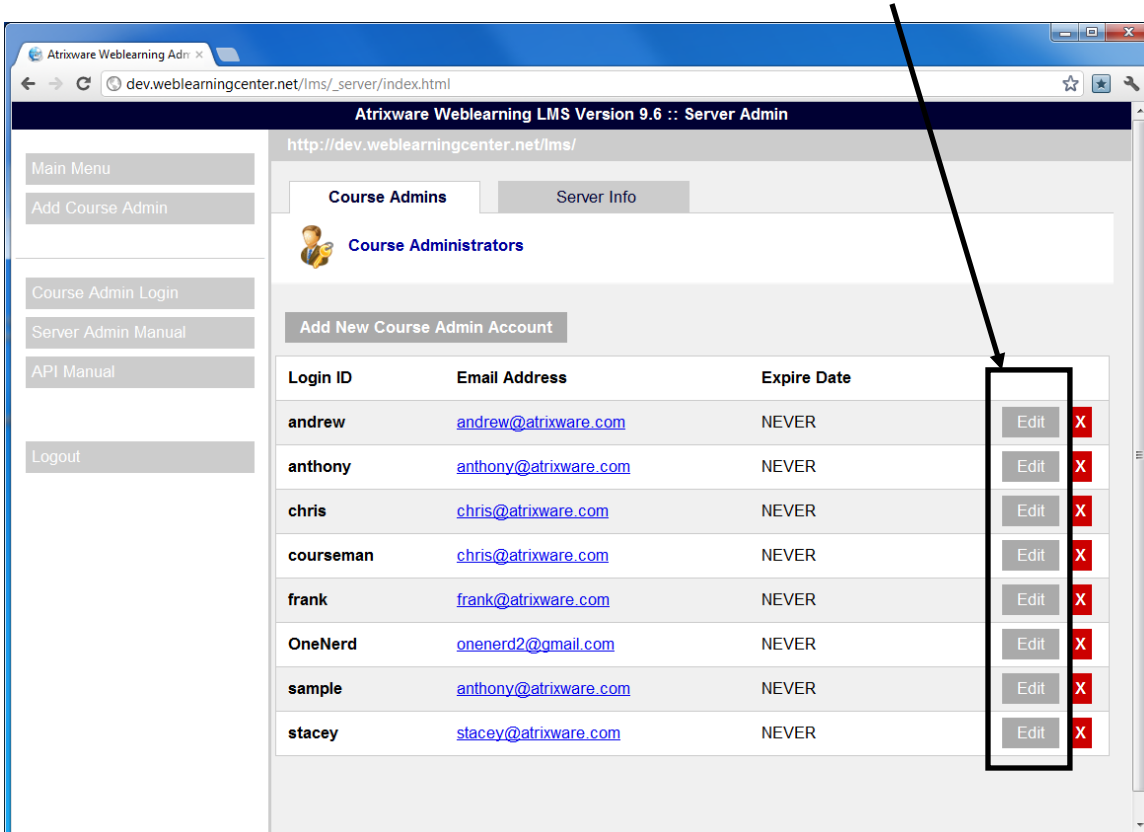
2. Enter in the required information. Note that the *expiration date* field is not a functional field, but is instead only informational (*and therefore is optional*).



3. The course admin will be sent an email (*using the email address you entered*) with instructions for accessing their account (*unless you uncheck the checkbox*). If you have it turned on in the configuration file, you (*the server admin*) will also receive the same email.

Modify a Course Administrator

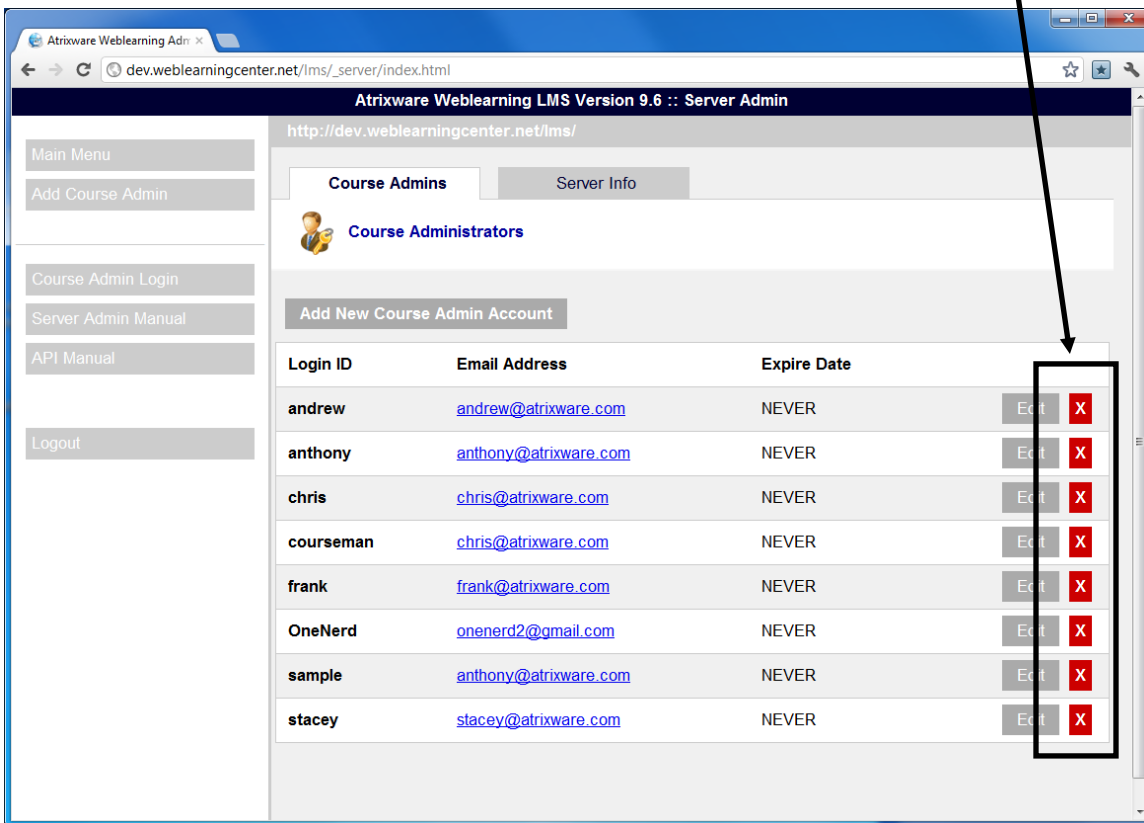
1. Log into the Server Administrator application, click the appropriate MODIFY link:



2. Make the appropriate changes to the course administrator.

Delete a Course Administrator

1. Log into the Server Administrator application and click the appropriate DELETE link (a confirmation box will verify your decision).



Defining Configurations for your Server

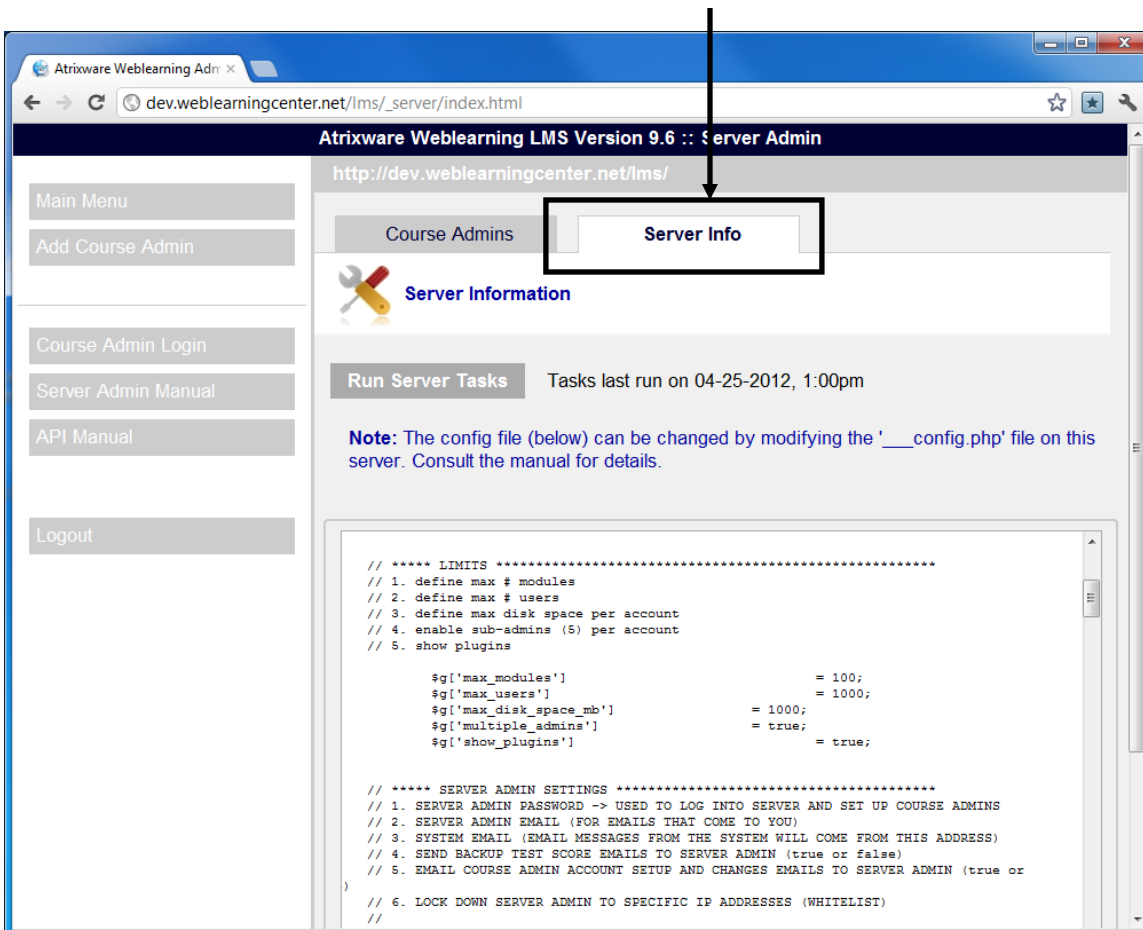
This section discusses configuring the various settings in the configuration file. The file we are going to be using varies depending on your server and exact license, but is usually named something similar to “/lms/_library/___config.php”. Open this file inside of a text editor (*or whatever application you usually use to edit PHP files*).

NOTE: You can add a ___config.php file inside each course administrator’s folder to override system-level settings for each course admin.

For example, if you have a course admin named ‘instructor1’, their folder would be <http://{yourserver}/lms/instructor1/>, so the config file would be named http://{yourserver}/lms/instructor1/___config.php.

Note that the file needs to be a valid .php file, so should start with a **<?php** and end with **?>**. Any variable/value pair can be copied/pasted from the server level config file into this file (and then the value modified).

You can **view** (but not modify) the settings (but not change them) from the **SERVER INFO** tab on the **Main Menu** of the *Server Administrator* application:



Database Settings

In this section, there are four variables, one each for the database name, hostname, user, and password. These are the minimal items you will need to set up in order to run the setup script for your system, and these items will need to be valid in order for the *Weblearning 9.64 LMS* to operate properly.

Limits

In this section, there are six items that pertain to limits on each course admin account as well as on the system. Typically for an Enterprise license you host, you would set this all to high numbers, but a good start would be modules = 250, users = 5000, disk space = 20000, and true for all others.

Server Administrator Settings

In this section, you set up the information relating to the server administrator, **including the server admin password**. Each item is described in the file, and all (*except for the password*) relate to email addresses/functionality.

Security Settings

In this section, you set up the details pertaining to sending security alerts, revealing or hiding user passwords, and creating ‘allowed’ ip addresses for the server admin app, course admin app, and user courses.

API Settings

In this section, you set turn on/off API access, and set up API keys for use with the API. You can set the `require_api_key` value to `false` if you need to use older versions of the API.

User Experience Settings

In this section, you set up user (*learner/student*) experience settings. There’s quite a bit here (*about a dozen configuration items*). Everything is commented, but here is some additional information on some items that can use some additional clarification:

Use High-Stakes Mode

When this is set to `true`, each time a user accesses a quiz (*graded quizzes only*), the system will prevent them from re-accessing it until a submission is received back from the module/quiz (*at which point, the `onpass/onfail/oncomplete/onincomplete` rules will be used*). When this is set to `false`, each time a user accesses a (*graded*) quiz, the system will allow them to re-access it until a submission is received back from the module/quiz (*at which point, the `onpass/onfail/oncomplete/onincomplete` rules will be used*).

Javascript Popup Code

This controls the size and function of the popup window in which modules (*quizzes and presentations*) are displayed.

Icon Sets

The `$g[‘icon_set’]` global variable holds the icon set to use inside courses. There are two icon sets packed in with the Weblearning system (default, and classic). The path to the

icon sets is here: {server_url}/images/pt/iconsets/{iconset_name}. Therefore, you can create your own iconset folder and populate it with icons you want to use (each which should be a 64x64 png file). You can view the filenames for each by visiting the /default/ and /classic/ folders. In addition, each individual course admin can override the icons by creating a folder in their account named 'iconset' inside their _images folder, and uploading icons for each item they want changed (using same filenames). These act as the default set of icons used for your course learning objects.

Meta Tags

The metatag_course and metatag_module enable you to place metatags as part of the headers of courses and modules. This is designed to enable you to change the character encoding to your desired character set.

Course Admin Experience Settings

In this section, you can configure various course administrator settings and *defaults (most which can be changed by the course admin from inside their panel)*.

Offline Activity Types

In this section, set up (add, change or remove) the names of the offline activity types.

Gradebook Settings

In this section, you can configure gradebook settings – specifically, the way quiz averages are calculated (*either use the 'highest score' attempts or the 'most recent score' attempt towards the course average*).

System Feeds

In this section, you can set up the locations of the various feeds used by Weblearning (*like news, help, plugins, etc*). Typically you would leave these at their defaults, although if you are selling your content in the system to other course admins, you may want to deliver your own custom feeds as opposed to the Atrixware feeds.

User Table Custom Field Names

In this section, you can configure the actual ‘field names’ for the custom 1 through custom 15 user data fields that are part of a users database record.

Time Zone Settings

In this section, you can configure the system timezone override, as well as the format that times and dates will be displayed in the system pages and reports.

User Display Settings

In this section, you can configure how users appear (how they are identified) in reports (for example, *last-name*, *first-name*, or *first-name last-name*, etc).

Shared Question Bank Settings

In this section, you can configure how (if at all) slides and questions should be shared across multiple course administrators, and what rights they will have if they did not author the item.

Files and Uploads Settings

In this section, you configure the upload settings, what kind of files can be uploaded, and whether or not to turn on file sharing across multiple admins.

Error/Debugging Config

In this section, you can turn on error debugging and emailing (useful if you are having issues with your server and need an Atrixware tech to troubleshoot your issue).

OTHER / LEGACY SETTINGS

In this section, you can configure options for enabling deprecated/replaced/older features and functions (*which are usually set to false, but are available for backward compatibility reasons*).

The “Don’t Change These Items” Section

In this section, there are a bunch of settings that you would almost never change. The first two dozen or so are variables that actually pull their values from the config templates folder (*and therefore, you should change the contents of those files, not the code in the config here – See section on config templates later in this documentation*). The remaining items pertain to system resources and tasks, and should remain at defaults.

Other Configurations Not in the Configuration File

There are various additional configurations you can set on your system that are not in the settings file, and they are as follows.

Course Templates

There are a handful of course templates located in the **{yourserver}/lms/_templates/course/** folder. Each of these will be an option course administrators can use when they create new courses. You can add your own if you want by starting with the **{yourserver}/lms/_templates/coursetemplate_template.txt** file, and/or remove ones that are there.

Config Templates

There are about two dozen config templates, which are typically full-html page templates (*sometimes just plain text*) that are used by the system as defaults or as actual dynamic templates.

They are located here: http://{yourserver}/lms/_templates/config_templates/

Here is a breakdown of what each one is for:

course_email.php:

this is the default email that invitations use

pass_report.php:

this is the default report used for onpass responses

fail_report.php:

this is the default report used for onfail responses

finish_report.php:

this is the default report used for presentation oncomplete responses

paused_report.php:

this is the default report used for presentation onincomplete responses

course_enroll.php:

this is the default layout used for the course enrollment page

course_login.php:

this is the default layout used for the course login page

course_not_found.php:

this is the message displayed when a user goes to a non-existent course

certificate.php:

this is the default layout used for certificates

portal_score_report.php:

this is the layout used for verbose score history reports

admin_score_report.php:

this is the layout used for user detail reports in the course admin reports section

admin_print_score_report.php:

this is the layout used for printed user detail reports in the course admin reports section

email_body_admin.php:

this is the default contents and layout of the report emailed to the course admin when a user completes a graded quiz

email_body_student.php:

this is the default contents and layout of the report emailed to the student when they complete a graded quiz

email_q_layout_admin.php:

this is the default question contents and layout of the report emailed to the course admin when a user completes a graded quiz

email_q_layout_student.php:

this is the default question contents and layout of the report emailed to the student when they complete a graded quiz

html_q_layout_student.php:

this is the default question contents and layout of the report displayed to the student when they complete a graded quiz

html_q_layout_admin.php:

this is the default question contents and layout of the report available to the course admin (in the admin_score_report.php)

As you can see, there are quite a bit. In addition, **each template file can use placeholders for dynamic data**. To understand what placeholders can be used in each template, you can view the template inside the course admin panel (*where the placeholders are listed right below the content/layout area*), or, for some templates, you can open them up inside a text editor and the available placeholders will be identified inside of the comments section.

Other folders in the templates folder

The templates folder contains a bunch of files used by the system, many which can be modified or added.

1. The **/images/** folder contains images used by some of the text editor toolbar plugins. These can be added to or some removed.
2. The **/skins/** folder contains the css (*cascading style sheet*) skins used by your modules. You can add your own, or remove those you don't want to use. By looking at an existing skin, you will see the structure to use – for more information, contact Atrixware.
3. The **/slides/** folder contains starting templates for the selectable layouts drop-down box along the bottom of all text editors in the system, which can be added to, or removed. By looking at an existing layout template, you will see the structure to use – for more information, contact Atrixware.
4. The **/library/js/** folder contains global Javascript files for all modules delivered in your system. Any changes to these files will affect all modules already published as well as those to be published. Unless you need to modify core functionality of a function, we recommend you add additional code in the **/_plugins/mod/xxx.php** file instead (*see section on plugins*). For more information, contact Atrixware.

Changing the Default Course Banner Image

The filename that holds the default logo that appears above the course login screens is located in the `/lms/images/` folder, and is named `title-logo.jpg`. You can replace this file with your own. It must be a .jpg file, and for best results, should be exactly 150 pixels high. The default course width is 800 pixels, but admins can change that. Therefore, it is suggested that the minimum width be 800 pixels as well (if you know the exact width your course admins are using for their courses, make this banner width the same). *This will act as the default image banner for the courses on the server, and will be used unless course admins upload their own banners on top of their courses.*

Changing the System/Course Directory Banner Image

The filename that holds the banner that appears on your systems course directory page (<http://www.yourserver.com/>) is located in the `/lms/images/` folder, and is named `admin_title_logo.jpg`. You can replace this file with your own – it must be named the same, and must be a .jpg file.

Changing the Certificate Border Image

The filename that holds the certificate border screens is located in the `/lms/images/` folder, and is named `cert.jpg`. You can replace this with your own image.

The `_plugins` folder

The `_plugins` folder has been expanded enormously in the 9.6x versions.

The `/ca/` folder

This folder contains multiple folders.

First, the `/custom/` folder can hold custom versions of any core php file (*any file inside the `/lms/_library/core/` folder*). When you visit a page inside the course admin panel, it will first look to see if a custom version of that page exists and if it does, it will use the custom version as opposed to the core version. **This enables us to customize your system if necessary without modifying any core files.**

The `/courses/`, `/files/`, `/questions/`, `/quizzes/`, `/reports/` and `/users/` folders each can contain plugin module scripts specifically for those tabs inside the course admin panel. You can write your own scripts using the **API** (*see the documentation on the Weblearning 9.6 API for more information*), or purchase plugin-modules for your system that will wind up in here. *Have a look at the `/_template/` folder for example plugin scripts to use as starting points if you would like to write your own plugins.*

The `/tasks_ca/` folder holds task scripts that can be automated and/or manually executed from inside the course admin panel.

The **/tasks_server/** folder holds task scripts that can be automated and/or manually executed from inside the course admin panel.

The /enroll_form/ folder

This folder contains both proctor and student enrollment forms. The system will use **form_proctor.php** and **form_student.php**. Some additional templates/starting points are in the folder as well. To make the system use a different enrollment form, simply turn the file(s) you want to use into the filename *form_student.php* and/or *form_proctor.php*. For more information, contact Atrixware.

The /mod/ folder

This folder contains 3 files, *practice.php*, *presentation.php*, and *quiz.php*. Each one is included by the corresponding module type (practice quiz, presentation, or graded quiz). This enables you to add any php, html, css and/or Javascript code to your learning content that should be included by default.

As of version 9.62, just about every core JavaScript function can be overridden by creating a function in these files. Each core function can be overridden by creating a JavaScript function prefixed with *o_{functionname}*. Here are the function names:

```
o_showWrong( in_extra_content )
o_showRight( in_extra_content )
o_auto_save_quiz()
o_auto_save_presentation()
o_pause_quiz()
o_resume_quiz()
o_startTimer()
o_update_timer()
o_IncElapsedTime()
o_getWindowSize( in_axis )
o_sizedivs()
o_gonext()
o_goprev()
o_hide_slide( in_slide_id )
o_show_slide( in_slide_id )
o_prevent_next( in_length_of_time_in_seconds, optional_auto_next )
o_update_next_button_timer()
o_prevent_back( in_length_of_time_in_seconds )
o_update_back_button_timer()
```

The result of this is extremely powerful – you can easily change the way online quizzes and presentations operate to meet your specific requirements.

The /pt/ folder

This folder contains other folders which enable scaling and customization of the functionality of course pages.

First, this folder contains */smarty/* folder (which holds the *main.php* script that is included to the course page logic) and a */placeholders/* folder.

Smarty is the system used to enable dynamic display of information in your courses based on certain *criteria* (for example, *show this section if the user is from a certain company, has passed a certain quiz, etc*). You can add additional logic conditions as well as make available additional data to the smarty objects by utilizing this file (*main.php*).

Inside the **/placeholders/** folder can reside multiple folders, and each folder will represent a custom placeholder that can be used inside your course layouts, which in turn will run the script 'main.php' inside the folder.

For example, if you create a folder named **/sample/** inside the placeholders folder, then you will be able to use a placeholder **[[[SAMPLE]]]** inside your courses. When the **[[[SAMPLE]]]** placeholder is encountered, it will output the result of the script named **/placeholders/sample/main.php**. The net result is that you can write custom placeholders that run custom scripts and display anything you want (*many plugins take advantage of this*). Note that the course admin design section will recognize the custom placeholders available and will let your course admins drag & drop the placeholders into the layout.

As of version 9.62, a **/course_pages/** folder exists, and inside the **/course_pages/** folder are 7 php script files (initially empty) which are called by all online course pages (page_1.php through page_4.php, enroll_page.php and login_page.php are called by each course page respectively, and the all_pages.php script is called only by course pages 1-4 but not the login or enrollment page). This gives you the ability to customize the functionality of your online courses using PHP.

The *_plugin_settings* folder

The **_plugins_settings** folder has been expanded in the 9.62 version. You may not see this folder initially, but if you have any plugins installed, or, are using the Weblearning Enterprise Gold version, this folder will eventually get created and populated.

The */WLP####/* folder

Plugins store setting for each course admin in these folders. Each folder will typically use an xml file to hold settings. For example, the settings for a course admin named instructor1 for the plugin id of WLP010 would be **/WLP010/instructor1/setting.xml**.

The */placeholders/* folder

Some plugins (usually custom modules plugins, and also the SCORM modules available in higher-end Weblearning Systems) use this folder to store course placeholders for individual course administrators. Beneath the placeholders folder, each course admin will have a folder, and inside that will be one folder per placeholder.