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Install Moodle with RollCall

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Title page 1

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This page intentionally starts on an odd page, so that it is on the right half of an open book from the readers point of view. This is the reason why the previous page was blank (the previous page is the back side of the cover)

Install Moodle with RollCall

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Foreword

This is just another title page placed between table of contents and topics

Top Level Intro

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1 RollCall and Moodle Introduction

RollCall's connection with Moodle is a perfect solution to solve the challenge of integrating a Learning Management System with school administration. Moodle (<u>www.moodle.org</u>) is an open-source (free) Learning Management System used by thousands of schools to provide on-line learning via the web. RollCall supports connecting the administration of a class and registered students (tracking academic information for printing transcripts) with Moodle's on-line content (tests, assignments, video, chat and forums), giving you and your students a simplified way of utilizing the two systems in an integrated manner.

PowerVista RollCall is a school administration software application designed to streamline record keeping for adult education, training, post secondary and trade education organizations.

RollCall contains a "Curriculum" module that allows organizing assignments, resources, schedules and other information needed for tracking a student's academic performance in a particular class. This information is also useful for accreditation agencies, and was developed using publicly available information about curriculum/syllabus design. However, RollCall is not a Learning Management System (LMS), and doesn't have the content management features integrated into LMS systems. A majority of RollCall users plan to implement a hybrid approach, mixing traditional classroom learning environments with on-line LMS content. Sometimes entire classes in a degree granting program will be on-line. In other cases, some assignments for a particular class are on-line, while others are classroom or lab oriented.

It works like this:

- Install RollCall Web Portals and Moodle on the same server.
- Connect an existing RollCall class to its counterpart inside Moodle.
- A Student logs into their web portal, and every class that connects to Moodle shows the Moodle logo, when they press the link, they go directly to the Moodle class in the Moodle web pages.
- If they aren't currently registered in Moodle (a new student), they are automatically setup in Moodle with their RollCall user id and password.
- If they aren't currently registered for the class, they are automatically registered.
- When the Instructor assigns a final grade for a Moodle class, the grade is automatically transferred to RollCall. In RollCall, the gpa points and any awarded credits or hours get assigned and the Student's Degree Program information automatically updated.

Installation and Setup Notes:

1. <u>Moodle is already on another server or is hosted by another company</u>: You have two choices, you can put the main Moodle login URL into the RollCall LMS setup page, and the student will be redirected to that page from RollCall. They will log in as they do today, with whatever user name and password they currently have. You will have to setup new students/registrations as you do today, and grades will not automatically transfer. Your second choice is to download, install and setup Moodle according to the instructions below. Then, you need to use Moodle functions to export/import your Moodle data to the new installation. The student user name becomes their RollCall id and their password becomes their RollCall password. They don't have to login separately to Moodle, they will be automatically logged in by the software. You don't have to enter registrations, new students or grades.

2. <u>The installation is too complicated</u>: It is complicated, because it is interlacing 4 more/less independently developed pieces of software together. PowerVista doesn't have any authority over the installation or setup of Moodle, PHP or IIS and so we can only provide instructions that use those software's functionality. It takes about 3.5 hours to install and you need someone with systems experience do the installation. They need to be able to use Windows Explorer, edit files, and have a

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basic understanding of how the web works. We will be happy to do the installation for you for a flat fee, contact us for more information.

3. <u>Instructors don't use their web portal to manage classes</u>: No, not yet. They will use the direct URL as <your domain>/Moodle . That will be a future enhancement.

4. <u>What are the next enhancements?</u> We plan to make an automatic login for instructors to Moodle. We plan to connect individual assignment/exams grading to individual Moodle assignment/exams grading. Right now, we are only transferring final grades.

Top Level Intro

This page is printed before a new top-level chapter starts



2 Installing Moodle with RollCall

This document contains instructions for installing Moodle on the same computer that hosts RollCall Enterprise Edition. At the conclusion of the installation, you will have a working copy of Moodle, accessible by the same web site that hosts RollCall web portals and exchanges information directly with the RollCall database.

Requirements:

- * An installed, licensed copy of RollCall Enterprise Edition, version 5.1 or higher
- * An installed, licensed copy of RollCall Web Portals, version 5.1 or higher

* Microsoft Internet Information Services installation, version 7.0 or higher that you can access as an administrator

* Administrator rights for installing software on the server

Step 1: IIS Changes

Log into your server as an Administrative user. Use the same login as that for the original installation for RollCall, to have access to the same desktop and permissions. Open Server Manager and select World Wide Web Services -> Application Development Features and ensure the following extras are checked.

a. Application Development

- i. ASP.NET
- ii. .NET Extensibility
- iii. CGI
- iv. ISAPI Extensions
- v. ISAPI Filters
- b. Security

i. Basic Authentication

Step 2: Download and Install PHP

a. **Download** the latest Non Thread Safe *Installer* (not zip or debug) x86 VC9 version of PHP from:

http://windows.php.net/download and save it to the **Desktop** on your server. As of this writing, that is version 5.3.26

- b. Run the downloaded MSI from your desktop.
- c. Install PHP to c:\php. The default will be c:/Program Files (x86).
- d. Select IISFastCGI from the list and click Next.
- e. Accept the default install. Click Next and then Install.



Step 3: Setup IIS for PHP

a. Open Server Manager and expand Roles down into Web Server/Internet Information and Services. Click on your server.

b. Scroll down the page to **Handler Mappings** under the **IIS** Group (see above picture by the black arrow) and open the Feature.

- c. Click the Actions menu and select Add Module Maping....
- d. Fill in the small form with the following information
 - 1. Request path: *.php
 - 2. Module: FastCGIModule
 - 3. Executable: C:\php\php-cgi.exe
 - 4. Name: PHPviaFastCGI
- e. Click OK to add this extension to IIS. Click 'Yes' on the dialog to allow this ISAPI.

Step 4: Test PHP

a. If it is not already, install RollCall Web Portals version 5.1 on your server and publish the pages to your web site.

b. Open the browser installed on the server and navigate to http://localhost/testphp.php. If you have configured PHP

correctly with Internet Information Servers your page will load and at the top you will have the title of **PHP Version**

5.2.5 .

c. If you get a 'File Not Found' error, open your web site (see a. above), choose **Edit Site-** >**Bindings** and add a binding for localhost, all IP Addresses, port 80.

Step 5: Setup PHP to work with Moodle

a. Change the default php.ini file to work with Moodle. Choose the option below that fits your situation.

- If you installed PHP to the c:/ folder on your server and your web site is located in c:/ inetpub/wwwroot, you can Application Server/Server/RCWeb/Packages folder to c:/php/php.ini, replacing the existing file.
- 2. If you installed to different location(s), use Notepad to edit the existing file and set the following information:
 - i. Search for doc_root and after the = add the root of your website
 - ii. Search for upload_tmp_dir. Change both upload_tmp_dir and session.

save_path on the next line to <your</pre>

- php path>\sessions.
- iii. Navigate to the top of the page and search for ;cgi.fix_pathinfo and remove the ; comment from the start

of the line.

- iv. Save the php.ini file.
- b. Restart IIS services by opening a command prompt and typing **IISreset** and pressing **Enter**.
- c. Open a browser and **navigate** to http://localhost/testPHP.php and ensure the page loads.

d. Search for **session.save_path** within the page and check that this has changed to the new location set in step ii.

Step 6: Folders and Permissions

- a. Navigate to c:\php and create a new folder called sessions.
- b. Right click on the new **sessions** folder and select **properties**.
- c. Select the Security Tab and click on Edit.
- d. Click Add and click on Locations... and select your local server and click OK.
- e. Type **IUSR** which is the default user that runs the website in IIS. If you setup a different user, enter that name

instead.

- f. Give the IUSR user write access. Checking Modify will also check Write.
- g. Click **OK** twice to confirm these changes
- h. Use Windows Explorer to navigate to c:\inetpub and create the folder c:

\inetpub\moodledata.

i. Use the steps above to give **IUSR write** permission to the Moodle data folder.

Step 7: Connect SQL Server to PHP

a. Download from <u>http://www.microsoft.com/en-us/download/details.aspx?id=20098</u> (choose version 2.0 of the install)

- b. Install to a new folder
- c. Open the install folder and copy php_sqlsrv_53_nts.dll to c:\php\ext.
- d. If you edited the php.ini file in step 5 b., you need to edit it again as follows:
 - i. Open c:\php\php.ini and navigate to the bottom of the page.
 - ii. Add the code

[PHP_SQLSRV] extension=php_sqlsrv_53_nts_vc9.dll on the last lines and save the file.

e. Restart IIS by opening a command prompt, type iisreset and press Enter

Step 8: Configure Moodle

a. Open RollCall, choose Administration-> Lookup Tables, Class/Registration/LMS and select the LMS Setup tab.

b. Enter a 'friendly name' for this LMS.

c. Enter the login page path. The login path will be <u>http://www.<your</u> domain name>/ moodle/login/index.php if you

follow these instructions.

d. Check 'Use AutoLogin Window' if you want RollCall's Student web portal to automatically add a registration for the

student in Moodle and redirect them to the class web page when they press the 'moodle' button. If you leave it

unchecked, the student will be directed to the main Moodle login site where they must add themselves and select

the class. You need to set Moodle up to allow self-registration OR setup each student manually.

e. Choose the 'class' level for this integration.

f. Enter a user id for the Moodle database and a password. You will use these exact values when installing the Moodle

software, so write down the password.

g. Do not skip writing down the password.

Step 9: Install Moodle

a. Download **Moodle 2.5** from <u>http://download.moodle.org/</u> You would like the .zip format.

b. **Extract** the content of the downloaded zip file in **c:\inetpub\wwwroot**, or whatever is your root path for your website.

c. Navigate to http://<your_domain>/moodle to display the Moodle Installation page

d. Select the language you want to use and click Next.

e. The Moodle install will automatically enter the Data Directory c:\inetpub\moodledata . If you receive an error message

from this screen you have not set the permissions correctly on the server.

f. Select SQL*Server Microsoft (native/sqlsrv) for the database driver and click Next.

g. Fill the online form:

i. Database host: <computer name>\PVRollCall

ii. Database name: moodle_DB

iii. Database user: the user you entered in RollCall's LMS Setup page

iv. Database password: the password you wrote down earlier (you did write it down?)

h. **Select** the content of the next page and copy it to the clip board (CTL-C). Open Notepad or create a file named

config.php in the **c:\inetpub\wwwroot** folder. Paste (CTL-V) the content into the file and **Save** it.

i. Click Next in the Moodle install web page and confirm the term and conditions.

j. Moodle will now complete a check on the state of your environment. Everything should have a status of OK. You do

not need to worry about the internationalisation extension. Click on **Continue.**

- k. Moodle creates tables the Microsoft SQL Server database. On completion, click Continue
- I. Give your admin account for Moodle a complex password (this is not the database password, it is the admin user
- password) Also complete the other fields required. At the bottom click Update Profile.
- m. Open RollCall and select File-> ODBC Changes.

Step 10: Connect Moodle to RollCall

- a. Log into Moodle and expand Site Administration.
- b. Expand Plugins and Authentication, Manage Authentication, enable External Database and select Settings
- c. Fill in the form fields to match the pictures below.

Navigation 🖃 📧				
Home			External database	
My home				
Site pages			check whether a given username and password is valid. If the account is a new one, then information from other fields may	
My profile	also be copied	across into Moodle.		
Courses				
Courses	Host	RollCallWeb	The computer hosting the database server.	
Admin bookmarks	Database	odbc_mssql 🔻	The database type (See the ADOdb documentation for details)	
bookmark this page	Use sybase quotes	Yes 👻	Sybase style single quote escaping - needed for Oracle, MS SQL and some other databases. Do not use for MySQL!	
Administration 🖃 🗉	DB name		Name of the database itself	
My profile settings	DB user	RCMoodle	Username with read access to the database	
 Site administration Notifications 	Password	M00dle**	Password matching the above username	
Registration	Table	Student	Name of the table in the database	
Users	Username	ld	Name of the field containing usernames	
Courses	field			
Grades	Password field	Password	Name of the field containing passwords	
Badges				
Location	Password	Plain text 👻	Specify the format that the password field is using. MD5 hashing is useful for connecting to other common web applications like PostNuke.	
Language	Torriat		appications like Fostivake.	
Plugins			Use "internal" if you want to the external DB to manage usernames & email addresses, but Moodle to manage	
Plugins overview			passwords. If you use "internal", you must provide a populated email address field in the external DB, and you must execute both admin/cron.php and auth/db/cli/sync_users.php regularly. Moodle will send an email to new	
Install add-ons			users with a temporary password.	
Activity modules				
Assignment plugins	External db	utf.8	Encoding used in external database	
Course formats	encoding			
Blocks	SQL setup		SQL command for special database setup, often used to setup communication encoding - example for MvSQL	
Message outputs	command		and PostgreSQL: SET NAMES 'utf8'	
 Authentication 				
Manage authentication	Debug ADOdb	No 🕶	Debug ADOdb connection to external database - use when getting empty page during login. Not suitable for production sites.	
Sector External	Password-		Here you can specify a location at which your users can recover or change their username/password if they've	
database	change URL		forgotten it. This will be provided to users as a button on the login page and their user page. If you leave this blank	
Email-based self-registration			the button will not be printed.	
Manual	Cron synchronization script			
accounts	Removed ext	Keep internal 👻	Specify what to do with internal user account during mass synchronization when user was removed from external	
No login	user	iveeh iireinai	source. Only suspended users are automatically revived if they reappear in ext source.	
Enrolments				

		Data mapping
First name	FirstName	These fields are optional. You can choose to pre-fill some Moodle user fields with information from the external database
	Update local On creation -	fields that you specify here. If you leave these blank, then defaults will be used.
	Update external Never -	i you leave trese brank, then delauts will be used.
	Lock value Unlocked if empty -	In either case, the user will be able to edit all of these fields after they log in.
Surname		
	Update local On creation -	
	Update external Never -	
	Lock value Unlocked if empty 👻	
Email address		
	Update local On creation -	
	Update external Never -	
	Lock value Unlocked if empty -	
City/town		
	Update local On every login -	
	Update external Never -	
	Lock value Unlocked if empty -	
Country	Country	
	Update local On creation -	
	Update external Never -	
	Lock value Unlocked if empty -	
Language		
	Update local On creation -	
	Update external Never -	
	Lock value Unlocked +	



d. Expand Plugins and Enrolments and select External Database. Fill in the form as below:

Home ► Site administration ► F	Plugins ► Enrolments ► Extern	al database		Blocks editing o
avigation 🖃 द			Changes saved	
ome				
My home	External database			
Site pages				
My profile Courses	You can use an external database (of nearly any kind) to control your enrolments. It is assumed your external database contains at least a field containing a course ID, and a field containing a user ID. These are compared against fields that you choose in the local course and user tables.			
dmin bookmarks 🖃 🗉			External database connection	
bookmark this page	Database driver odbc_mssql Default: Empty			
dministration 🗔 💽	enrol_database dbtype		name, type of the external database engine.	
My profile settings				
 Site administration 	Database host enrol_database dbhost	RCWeb	Default localhost	
Registration		Type database server IP	address or host name	
 Advanced features Users 	Database user	RCMoodle	Default Empty	
 Courses Grades 	enrol_database dbuser			
 Badges 	Database password		Unmask	
 Location Language 	enor_catabase copass			
✓ Plugins	Database name enrol_database dbname		Default: Empty	
Plugins overview Install add-ons				
Activity modules	Database encoding enrol_database dbencoding	utf-8	Default utf-8	
 Assignment plugins 	Database setup command		Default: Empty	
 Course formats Blocks 	enrol_database dbsetupsql	SQL command for speci	al database setup, often used to setup communication encoding - exa	ample for MySQL and PostgreSQL: SET NAMES
Message outputs		'utf8'		
 Authentication Enrolments 				
Manage enrol plugins	Use sybase quotes enrol_database dbsybasequoting		te escaping - needed for Oracle, MS SQL and some other databases.	Do not use for MvSQL!
Cohort sync				Charles and Charles and Charles
	SOL command for special	nafta auto atua	used to setup communication encoding - example for MySQL	and PostgreSOL SET NAMES 'utf8'
	our command for special	database setup, oten t	see to setup communication encouning - example for myoqu	and rostgreode. Der NAMEO bito
Use sybase quotes	Default No			
nrol_database dbsybasequoting		escaping - needed for (Dracle, MS SQL and some other databases. Do not use for M	VSQL!
Debug ADOdb	Default No			
enrol_database debugdb	Debug ADOdb connection	to external database -	use when getting empty page during login. Not suitable for pro	duction sites!
			Local field mapping	
Local course field enrol_database local course field	idnumber 👻 Default: idn	umber		
Local user field enrol_database localuserfield	username 👻 Default idnu	mber		
Local role field enrol_database localrolefield	shortname - Default sho	rtname		
Local category field	id V Default id			
enrol_database localcategoryfield	Default is			
			Description and super-	
			Remote enrolment sync	
Remote user enrolment table	Remote user enrolment dbo.LMSRegistration Default. Empty			
enrol_database	Specify the name of the ta	pie that contains list of	user enrolments. Empty means no user enrolment sync.	

		Remote enrolment sync		
Remote user enrolment	dbo.LMSRegistration	Default: Empty		
table enrol_database remoteenroltable	Specify the name of the table	that contains list of user enrolments. Empty means no user enrolment sync.		
Remote course field	LMSClassCode	Default Empty		
enrol_database remotecoursefield	The name of the field in the re	emote table that we are using to match entries in the course table.		
Remote user field enrol_database remoteuserfield		Default: Empty		
	The name of the field in the re	emote table that we are using to match entries in the user table.		
Remote role field		Default Empty		
enroi_database [remoteroieneid	The name of the field in the re	emote table that we are using to match entries in the roles table.		
Default role	Student - Defau	ilt Student		
	The role that will be assigned	I by default if no other role is specified in external table.		
Ignore hidden courses	Default No			
enroi_database ignorehiddencourses	If enabled users will not be en	If enabled users will not be enrolled on courses that are set to be unavailable to students.		
External unenrol action	Unenrol user from course	✓ Default: Unenrol user from course		
enrol_database unenrolaction	Select action to carry out whe course during course unenrolr	en user enrolment disappears from external enrolment source. Please note that some user data and settings are purged from ment.		
		Greation of new courses		
Remote new courses table		Default Empty		
enrol_database newcoursetable	Specify of the name of the tab	ble that contains list of courses that should be created automatically. Empty means no courses are created.		
New course full name field enrol_database newcoursefullname	fullname	Default: fullname		
New course short name	shortname	Default shortname		
field enrol_database newcourseshortname				
New course ID number field enrol_database newcourseidnumber	idnumber	Default idnumber		
New course category field enrol_database newcoursecategory		Default Empty		
Default new course	Miscellaneous Y Default Mis	scellaneous		
category enrol_database defaultcategory	Miscellaneous Default Miscellaneous The default category for auto-created courses. Used when no new category id specified or not found.			
New course template		Default Empty		
enrol_database templatecourse	Optional: auto-created course	es can copy their settings from a template course. Type here the shortname of the template course.		

Step 12: Setup Moodle Courses to link with RollCall Classes

a. Instructors and Administrators will access Moodle through Moodle's default login page, Students will access Moodle either through the default login page OR

using the Student web portal by pressing the 'moodle' button on registrations that link with Moodle courses.

b. When you setup a Moodle course, set the "Course ID Number" to a unique value that you can link to RollCall. We

suggest using the id+section+term as the id number, as this is guaranteed to be unique. It also helps answer student questions by making it easy to figure out which Moodle courses link to which RollCall classes.

c. Open RollCall, use Class Maintenance-> Form View, and enter the Moodle course Id Number in the LMS Class Code

field.

d. If you wish to have grades transferred directly from Moodle to RollCall, setup a grade policy that has high/low values that correspond with the number ranges in Moodle and attach the policy to the Moodle class. When a final grade is

entered in Moodle, Moodle will lookup the text result in the classes' grade policy using the high/low value. The

associated grade and gpa points (if any) and awarded credit will be automatically added for the registration in

RollCall.

2.1 Welcome topic

Enter topic text here.

2.2 Second topic

Enter topic text here.

Endnotes 2... (after index)

