

	TRACKS 1.041 WINDOWS INSTALLATION & USB DRIVE EXTRAS	
	Installing tracks is part scavenger hunt, part Do-It-Yourself project. Follow these steps exactly and you will have a successful personal install on Windows, using MySQL and The Uniform Server.	<p>These instructions are entirely NOT my own. They were created first by John Leonard of www.jjleonard.co.uk. (See http://www.jjleonard.co.uk/?p=102), and bsag following the release of Tracks 1.041. They were adapted to the following form to update the Windows installation instructions, and modified for clarity. (Hopefully). The "Extras" sections, and any errors in construction or translation are entirely my own.</p> <p>The instructions are for Ruby 182-15, Uniform Server 3.3, and Tracks 1.041. They are valid as of 05/13/06.</p>
	To follow this, just do everything in the Instructions column. It is advised that you read the Comments column before executing its step.	
STEP	INSTRUCTIONS	COMMENTS
	GATHERING THE GOODS.	
1	Create a new folder c:\garage\	This is just a dummy folder into which you will download several things you need for your installation. This is just a temporary storage area from which you will install programs to other places. When you are done, you can delete it, but if you have to start over, it is all in one place.

7	<p>Extract the ruby-mysql-0.2.6.tar.gz you downloaded to c:\garage \</p> <p>Copy only the mysql.rb file from the extracted set and paste it to C:\ruby\lib\ruby\1.8\</p>	<p>To unzip a tar.gz file in Windows: Right-click to the file. Choose Extract All. It will extract a file called ruby-mysql-0.2.6.tar. Right click this file and then extract it to c:\garage \. Then in here find the mysql.rb file and copy as indicated. Delete everything else that you just unzipped.</p>
8	<p>Double click npp.3.6.Installer.exe and install Notepad++ anywhere you please.</p>	<p>Notepad++ is an excellent free text editor that is used to modify several files in Tracks. Do not use Notepad or Wordpad to edit the files. It will be hard and if using Wordpad, Tracks will not work.</p>
	<p>SMALL MODIFICATIONS.</p>	
9	<p>In My Computer or Windows Explorer, locate c:\Uniform Server\diskw\www\tracks-1.41 and rename the 'log.tmpl' folder to 'log'.</p>	<p>We rename one folder in the Tracks directory.</p>

10	<p>Locate C:\Uniform Server \diskw\www \tracks-1.41\config\</p> <p>In that folder rename database.yml.tpl' to 'database.yml'.</p> <p>Rename 'environment.db.tpl' to 'environment.db'</p>	<p>We rename two files in the Tracks '\config' subdirectory.</p>
11	<p>Open the database.yml file in Notepad++.</p> <p>Leave all the 'database' lines alone.</p> <p>In each line, 'user:', change the user to 'tracks'.</p> <p>In each 'password' line, type the password as "password"</p>	<p>VERY IMPORTANT. Do this exactly. You can change the passwords later.</p> <p>So, in database.yml you are changing the user and password entries in 'development', 'test', and 'production'.</p> <p>In Uniform Server's MySQL you might be a little confused at first since your database will be called 'tracks' and your user will also be 'tracks'. The username and password are of course optional names. However, if you set names and passwords in MySQL <u>they will have to be the same</u> as in those declared in the three sections of database.yml.</p>
	<p>CREATING THE DATABASE IN MSQL UNDER THE UNIFORM SERVER.</p>	<p>THESE STEPS ARE IMPORTANT: Follow them to the letter. Do not check or uncheck anything that is not mentioned. If it fails, the easiest thing might be to uninstall the Uniform Server and go back to step# 4.</p>

12	<p>Go to c:\Uniform Server \, and doubleclick on 'start.bat'.</p> <p>You'll be presented with a purple webpage proclaiming 'Uniform Server 3.3' at the top.</p>	<p>Start the Uniform Server. This will briefly show a command window, and then your web browser will open. Internet explorer will show an information bar - click that, select 'Allow Blocked Content', and click 'yes' on the Security Warning box that appears.</p> <p>If you are running Service Pack 2 on Windows XP, the firewall will pop up an alert window, warning that the Apache HTTP Server is attempting to run. Click 'Unblock' to continue.</p> <p>Other firewall software may ask for permissions. Grant them all.</p>
13	<p>Click on the 'Run MySQL server' link in the left pane of the browser window.</p> <p>You will get a message saying "MySQL server started."</p>	<p>To create our database, we need to start the MySQL server. As before, a command window will open briefly, and another security alert will appear, this time about mysqld-opt. Click 'Unblock' and 'back' on the 'MySQL server started' page that appears. <i>Clicking on the 'unblock' buttons will tell the Windows Firewall that these programs can be run freely in future. If you wish to change this setting later, visit 'control panel - windows firewall - exceptions tab', and uncheck any applications you wish to disable again.</i></p>
14	<p>In the lower left pane, click on "PhpMyAdmin"</p>	<p>We use PhpMyAdmin to create and alter MySQL databases. You may need to refresh the page (F5 or click the refresh button) to get the page to show up in your browser.</p>
15	<p>To create our Tracks database, enter the name 'tracks' in the textbox in the 'create a new database' section on the right, and click 'create'.</p>	<p>We've already called the database 'tracks' when we edited the 'database.yml' file. I'd recommend that as it's easier to recall later what the database is used for. <i>If you do change the database name to something else, remember to edit the 'database.yml' file to reflect the new name. If you don't Tracks will look for a database that doesn't exist!</i></p>

16	Once the database is created, click the little 'home' icon in the left hand pane of the screen (top), and then click the 'privileges' item below the blue "MySQL" header in the right-hand pane.	Pay attention here. This will take us to the screen that creates a user.
17	Click 'add a new user' and enter the user name 'tracks' and password 'password' as you entered in the 'database.yml' file. Leave the host field blank. Scroll down to the bottom of the page and click the 'Go' button.	Enter the user name and password you entered in the 'database.yml' file earlier.
18	The screen refreshes to show the privileges available to the user 'tracks' on the database 'tracks'.	
19	Click the 'check all' link to tick all of the boxes under 'Data', 'Structure' and 'Administration'. Then click the 'go' button.	BE CAREFUL HERE. Just tick the boxes as indicated. Nothing more or less. After you click 'go' breathe.
	POPULATING THE DATABASE.	Leave the Uniform Server Browser windows open. The database now gets populated through commands issued through a DOS command line.
20	Hit the windows 'Start' key. Select 'Run'. In the resulting window, type 'cmd'. A command window opens.	Open a command prompt.

21	Then type: cd c: \Uniform Server\diskw \www\tracks-1.041	Navigate inside your tracks directory. The command prompt will be in the tracks directory.
22	Type: rake db:migrate	Look out for error messages. If you get them, go back and make sure you ticked the right permissions in the Uniform Server. If all is in order, wait and you will see some command prompt goodness showing you that the database fields have been created.
23	After the migrate has completed, if you want some test contents in your database (recommended), type: rake db:fixtures:load	If successful, you will not see as much command prompt goodness as when you created the database fields.
24		
	MORE SMALL MODIFICATIONS.	
25	Open Windows explorer and navigate to: c:\Uniform Server\diskw \www\tracks-1.041 \public\	We need to alter the first line of four text files found in c:\Uniform Server\diskw\www\tracks-1.041\public\. They are all named "dispatch.*": dispatch.rb, dispatch.bak, dispatch.cgi, & dispatch.fcgi.
26	One at a time, open in Notetab++: dispatch.rb, dispatch.bak, dispatch.cgi, & dispatch.fcgi. In each file, change the first line from: #!/usr/bin/env ruby to #c:/ruby/bin/ruby	These first lines are the "shebang" lines ("!"). Change nothing else. After changing each file, be sure to save the changes. Close Notetab++.
27		
	STARTING TRACKS.	

28	<p>Open a command prompt, and navigate to the tracks folder.</p> <p>As the webserver is running, it's as simple as:</p> <p>Type: w: Then Type: cd www \tracks-1.041</p>	<p>If typing w: does not change the prompt to 'w:' just type: cd c:\Uniform Server\diskw\www\tracks-1.041</p> <p>Your prompt will be in the tracks folder as a result.</p>
29	<p>Type: ruby script/server - environment=production</p>	<p>There will be a pause, then the command prompt will fill up with code. You may get another Windows Security Alert, this time about the Ruby Interpreter. Click 'Unblock' to continue.</p> <p>Now, leave the command prompt open. This is the Ruby interpreter that is running Tracks. If you close the window, Tracks will stop dead.</p>
30	<p>Open your browser, and in the address bar type: http://localhost:3000</p>	<p>Use Firefox. If all is well, you will get a login screen.</p> <p>Success! Pat yourself on the back. Really, actually pat your self.</p>
31	<p>For the login, the default admin user has a username of 'admin' and a password of 'abracadabra'. Put these in.</p>	<p>You can alter the admin password or add other users within Tracks after it has started.</p>
32	<p>The Tracks HOME Page will appear. Your example data will be showing.</p>	<p>Success again! Learn Tracks. Get organized.</p>
	<p>STOPPING TRACKS.</p>	

33	<p>To stop the whole setup:</p> <ol style="list-style-type: none"> 1) In Tracks, choose 'Logout' 2) In the command window: Ctrl-C 3) In the Uniform Server window: 'Stop MySQL' then 'Shutdown Server' 4) Close any remaining windows. 	
	CLEANUP.	
34	<p>If you are satisfied and don't want to have any of your install files saved, delete c:\garage\ and all its contents.</p>	
	EXTRAS.	
	<p>EXTRA #1: INSTALL TRACKS ON A STICK (Portable USB Flash Drive).</p>	<p>Since the Uniform Server and Tracks are both self contained within their directories, Tracks under U/S can be installed and operated entirely on a USB flash drive. The one exception is that any machine using this install needs to have Ruby installed as well. (See step --). If you are just using it on a home and office machine, this is easy.</p> <p>Beware: depending on the speed of your USB drive, this installation of Tracks may operate significantly more slowly than a normal disk installation. This is primarily due to speed considerations of flash drives. Newer flash drives on USB 2.0 ports will run faster.</p>

	These steps start after Step 26 (above)	
35	<p>Plug in your flash drive.</p> <p>Open Windows Explorer and point it to your flash drive's root. Note the drive letter.</p>	<p>Windows assigns a drive letter (E:, F:, G:, etc) to USB peripherals. Depending on what other USB peripherals are plugged in at the time, this can change. It should make no difference to this install.</p>
36	Copy/Paste C:\windows\system32\Cmd.exe to the root of your flash drive.	Do not <u>Cut</u> and Paste or you will lose "Cmd.exe" functionality within your main operating system.
37	<p>Cut and Paste your entire c:\Uniform Server\ directory to the root directory of your flash drive.</p> <p>You will be left with something like: E:\Uniform Server\</p>	<p>Recall, Tracks is contained within C:\Uniform Server\ already.</p> <p>You may choose to only <u>copy</u> C:\Uniform Server\ to the flash drive. But remember, the USB drive installation is entirely self-contained and separate from your install on C:\. In essence, you would create two independent installations of Tracks.</p>
38	<p>To start Tracks, Start Uniform Server as in Steps 12 and 13.</p> <p>Then, double click Cmd.exe in your flash drive.</p> <p>Then proceed to Step 28 to start Tracks.</p>	<p>Get Uniform Server and MySQL running.</p> <p>Get a command prompt under root of the USB Drive.</p> <p>Enter the Tracks start command in a command prompt.</p>
	EXTRA #2: START TRACKS USING A BATCH FILE	This can be done in either the regular Windows install or the installation on a flash drive. It eliminates having to type the commands in Step 28 and 29.

39	<p>Open Notetab++ to a new document.</p> <p>Type the following:</p> <pre>echo on cd \Uniform Server \diskw\www\tracks-1.041 \ ruby script/server - environment=production</pre> <p>Save the document as "TracksRun.bat"</p>	We create one batch file.
40	Place TracksRun.bat in the root of your flash drive. If you are using the regular C:\install, place the file in C:\.	We move this file into root.
41	To start Tracks, as at Step 28, double click TracksRun.bat.	With the Uniform Server and My SQL running already (Steps 12 & 13).
	EXTRA #3: START WHOLE PACKAGE (UNIFORM SERVER, MySQL, & TRACKS) USING THE BATCH FILE AND A VISUAL BASIC SCRIPT.	Again, this can be done in either the regular Windows install or the installation on a flash drive.
42	Open Windows Explorer. Cut and Paste TracksRun.bat into X:\Uniform Server\.	Here "X:\" represents the root drive of either your disk or your flash drive.
43	Open X:\Uniform Server \Disk Start.vbs in Notepad++	Uniform Server comes with this Visual Basic script to help startup of the server and MySql at the same time. We alter this file and save it with a new name.

<p>44</p>	<p>Alter the line (19) that begins:</p> <pre>t=MsgBox("Start the MySQL Database Server?"...</pre> <p>by replacing "Start the MySQL Database Server?" with "Start Tracks and the MySQL Database Server?"</p> <p>Then, before the last two lines of the file add:</p> <pre>WScript.sleep(10000) WShell.run "TracksStart.bat "</pre>	<p>We alter one line to change a message prompt given by this script.</p> <p>We add two lines near the end to pause the script for 10 seconds and then to call the batch file you just made: TracksStart.bat</p>
<p>45</p>	<p>'Save as' this document with the new title "TracksServerStart.vbs" into X:\Uniform Server\</p>	<p>Here save the changes as a new file entirely. Be careful that you are not saving the changes as the original "Disk Start.vbs"</p>
<p>46</p>	<p>Double click TracksServerStart.vbs to start the Uniform Server and then start Tracks.</p>	<p>Upon starting, Uniform Server will present two windows:</p> <ul style="list-style-type: none"> - Specify a Disk Drive... - Start Tracks and the MySQL Database Server? <p>Hit 'Enter' at each.</p> <p>Your anti-virus software might raise a flag at the script. Grant permission.</p> <p>The Uniform Server will start in a new browser window. Then Tracks will start. See Comment step 48, below.</p>
	<p>EXTRA #3 Option: Batch File the whole startup package to one file in the root directory.</p>	<p>If you want you can incorporate Steps 42-46 into a new batch file in the root of your USB drive, or in c:\.</p> <p>This file will call up the <u>whole startup process</u> in one double-click.</p>

47	<p>Create a new document in Notetab++</p> <p>Type these lines:</p> <pre>echo on cd \uniform server\ "TracksServerStart.vbs"</pre> <p>Save the document as "#StartupTracks.bat" in the root directory of your drive (eg. X:\).</p>	<p>We create a batch file in the root of your USB flash drive, or in C:\, that will start the whole package - Uniform Server\MySQL\and Tracks in that order - using one double-click.</p>
48	<p>Double-click: #StartupTracks.bat</p>	<p>A couple of command windows will open in the process. See Comment step 46. Startup takes time. Make sure that the last command window reads:</p> <pre>=> Booting WEBrick... => Rails application started on http://0.0.0.0:3000 => Ctrl-C to shutdown server; call with --help for options [2006-05-25 01:35:18] INFO WEBrick 1.3.1 [2006-05-25 01:35:18] INFO ruby 1.8.4 (2005-12-24) [i386-mswin32] [2006-05-25 01:35:18] INFO WEBrick:: HTTPServer#start: pid=2108 port=3000</pre> <p>before pointing your browser to http://localhost:3000 (step 30)</p>
49	<p>To Login/Stop Tracks, see Steps 31 & 32.</p>	<p>Success! Pat yourself on the other side of your back now.</p>
	<p>Use your Tracks on any machine with Ruby entirely from your USB drive.</p>	<p>Learn Tracks. Get organized. Enjoy.</p>