INSTALLING RACHEL ON SYNOLOGY

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To add RACHEL to a Synology server there are a few stages to go through.

First we need to ready the server for web use. Then we have to obtain a copy of the RACHEL files and move these to a rachel folder in the web folder. This is not as easy as it sounds because the RACHEL files are rather large and unzipping them needs 7-zip. It won't work if you extract them with windows. You also need to make some changes to php.ini to allow for large file sizes.

Once they have been added to the folder then we run phpmyadmin, create a sphider_plus database and import sphider_plus.sql

To setup the server for web publishing we install Web Station through the Package Centre (Center). To do this open Package Centre through the Main Menu or there may be a shortcut on the “Desktop”. Then we search for the package found under the Utilities tab and click Install.

Then we install Apache HTTP Server 2.2 and PHP 5.6: found under the Developer tab
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Once these are installed open Web Station, through the Main Menu:

The **Default server status** should appear as "Normal", If it doesn't check if Web Station is running through the Package Centre. It is also necessary to enable **Personal website** which is done under the **General Settings** tab.
Go to Web Station → General Settings. Set the HTTP back-end server to Apache HTTP Server 2.2 and set PHP: to PHP 5.6 After that click on "Enable Personal Website". Click on Apply to proceed.

Now go to PHP Settings. Pick PHP 5.6 and click on “Enable PHP cache”. You can also enable the PHP extensions you may need to use. This is not necessary for a RACHEL install.
Now click on “Advanced Settings” and click on the Core tab. You will need to change these settings in order to proceed. Change them as they appear on the following screenshots. After that click on OK, and then on Apply. Use the max and memory filters to help

Items to change:
max_execution_time 3600
post_max_size 512M
upload_max_filesize 512M
memory_limit 512M
Now click on Virtual Host, and then on Create.

Now we'll have to choose whether the Virtual Host is name-based or port-based. We'll choose Name-based. Next we write the Hostname we want to use rachel, check or write the ports we want to use, select the folder where the Document Root from our website is located, use Browse to navigate to the web folder and create a rachel sub-folder. Finally pick our HTTP backend server of choice and the version of PHP we want to use. Afterwards click on OK.
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It’ll require us to set read permissions for the http group. Click on Yes to do it automatically.
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The Synology is now ready for the RACHEL files themselves.

So copy the RACHEL files from ftp.worldpossible.org

Move these files into the web folder on the server that has just been created.
Next we'll install MariaDB and phpMyAdmin through the Package Center.
Open phpMyAdmin through the Main Menu. Username is root and there is no password.

Click on the Databases tab. Then Create database to create a search engine database called sphider_plus. (Standard for php)

To make Rachel work we need to change the password of the root user from blank to rachel. Click on “User accounts” and click on Edit privileges on root (host name localhost) change the password to rachel
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Click on “Change password”. Set it to rachel and select Native MySQL authentication. Afterwards click on Go. Because of the password change we will have to login again.

Now we click on the sphider_plus database we just created and click on the Import tab.
Next click on Browse and select the SQL file that contains the `sphider_plus` database. You can download the file from here. ([https://drive.google.com/drive/folders/0Bx0F7czrVU4dX2tDdDFMNNnMyX3M](https://drive.google.com/drive/folders/0Bx0F7czrVU4dX2tDdDFMNNnMyX3M)) Now click on Go.
Now just check that rachel is working correctly. In my case I need to go to 192.168.3.152/rachel/.
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