Upgrading Servers Posted March 1st, 2024

Notes on upgrading to apache2.4.58/ php-8.3.1 Jan 11, 2024

- need to have knowledge
- a) laravel
- b) symphony
- c) codeigniter
- d) nosql
- e) reactis
- these are good blog topics
- more topics
- a) postgresql
- b) mongodb
- c) git

5:30pm - look at codeigniter

Php Configuration: https://www.codeigniter.com/user\_guide/intro/requirements.html

codeigniter requires a number of php extensions a) intl = php configure --enable-intl b) mbstring = php configure --enable-mbstring c) ison = included by default d) mysqlnd = php configure --with-msqli=mysqlnd e) curl = php configure --with-curl f) imagick = pecl install imagick g) gd = php configure --with-gd = php8 configure --enable-gd h) simplexml = enabled by default i) memcache = installed via pecl j) memcached = installed via pecl k) redis = installed via pecl I) dom = enabled by default m) libxml = enabled by default n) xdebug = pecl install xdebug

5:33pm - need to upgrade dev2 to php 8 I build php from source Latest php version is 8.3.1 downloadable from http://php.net

pecl has a problem due to cacert.pem configure php.ini openssl.cafile=/usr/local/ssl/cacert.pem cd /usr/local/ssl wget http://curl.haxx.se/ca/cacert.pem This will download the cacert.pem with the update ca certs To see the cacert locations: php -r "print\_r(openssl\_get\_cert\_locations());"

6:30pm - apache is out of data. Latest version is apache-2.4.58

7:11pm - so upgrade of php impacts the pearpkgs included by the software. Had to modify pearpkgs/Pear.pm Found bug in pearpkgs/MDB2/Mysqli.php

10:18pm - so it turns out that you can configure the php.ini to format the error outputs so its a little nicer in php.ini

html\_errors=On error\_prepend\_string="

error\_append\_string =

";

12:32am - so since I upgraded mariadb when I switched servers the database will not accept a blank string into an integer.

This turns out to be a configuration set mariadb (mariadb is a version of mysql) select @@sql\_mode edit /etc/my.cnf.d/mariadb-server.cnf add sql\_mode=""

2:41am - recompiling php to include zlib ./configure --with-zlib

3:56am - added browscap ini item in php.ini browscap=/usr/local/lib/php/php\_browscap.ini

4:09am - build apache 2.4.58 and of course rebuild php-8.3.1

2:42pm - php upgrade fails because its missing oniguruma-devel package. which apparently does not exist on redhat os 8.2

to get it: https://github.com/kkos/oniguruma download zip, and unzip it. Probably ignore the INSTALL read file.

to build it: yum install automake yum install autoconf autoreconf -fi ./configure make make install

then modify your build script for php-8.3.1 add before configure export PKG\_CONFIG\_PATH=\$PKG\_CONFIG\_PATH:/usr/local/lib/pkgconfig

6:41pm - got php-8.3.1 to compile without mbstring had to add CFLAGS=-fPIC to configure statement and remove -enable-mbstring need to enable zip and imagick -\*-\*+90

4:53pm install imagick on groupcorners.com so the standard install pecl install imagick - fails in php 8.3.0 So get the source from http://github.com/imagick unzip imagick-master cd imagick-master phpize ./configure make make install copy imagick.so from no-debug\* under /usr/local/lib/php/extensions to /usr/local/lib/php/extensions

10:06pm - so mbstring fails to compile in php. a) the LDFLAGS in configure is not honored, so you need to add any thing in CFLAGS b) gcc is used to compile php, gcc uses binutils to link the objecs. Apparently the binutils on redhat 8.9, which groupcorners is running is not high enough version. Apparently I need a version higher that 2.32 (groupcorners is running 2.30)

So.. the answer is recompile binutils, and recompile gcc - and use the new gcc to compile php.

11:54pm rebuilt php-8.3.1 with new gcc successfully. mbstring now compiles.