INSTALL AND CONFIGURE OPEN LITESPEED WEB SERVER IN CENTOS7

OpenLiteSpeed is the Open Source edition of LiteSpeed Web Server Enterprise.

Both servers are actively developed and maintained by the same team, and are held to the same high-quality coding standard.

OpenLiteSpeed contains all of the essential features found in LiteSpeed Enterprise, and represents our commitment to support the Open Source community.

It specially designed for handling huge web traffic such as corporate data center.This web server is shipped with a control panel and it replaces the Apache web server. You can use open litespeed web server inset of the apache webser with php and mysql.Its a high performance web server and it is faster than apache web server. It is far more advance than the apache web server.it has built in admin tools,monitoring,logging and a easy used interface for setting up virtual host and block or allow content.

Install litespeed webserver with php and mysql in centos

1) install the ‘epel-release’ repository

=>yum install epel-release -y

```
[root@localhost ~]# yum install epel-release -y
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: mirror.dhakacom.com
 * extras: mirror.dhakacom.com
 * updates: mirror.dhakacom.com
base                                                                    | 3.6 kB  00:00:00
extras                                                                  | 3.4 kB  00:00:00
updates                                                                 | 3.4 kB  00:00:00
(1/4): base/7/x86_64/group_gz                                           | 166 kB  00:00:03
(2/4): extras/7/x86_64/primary_db                                       | 215 kB  00:00:03
(3/4): base/7/x86_64/primary_db                33% [==============      ] 289 kB/s | 4.6 MB  00:00:32 ETA
```

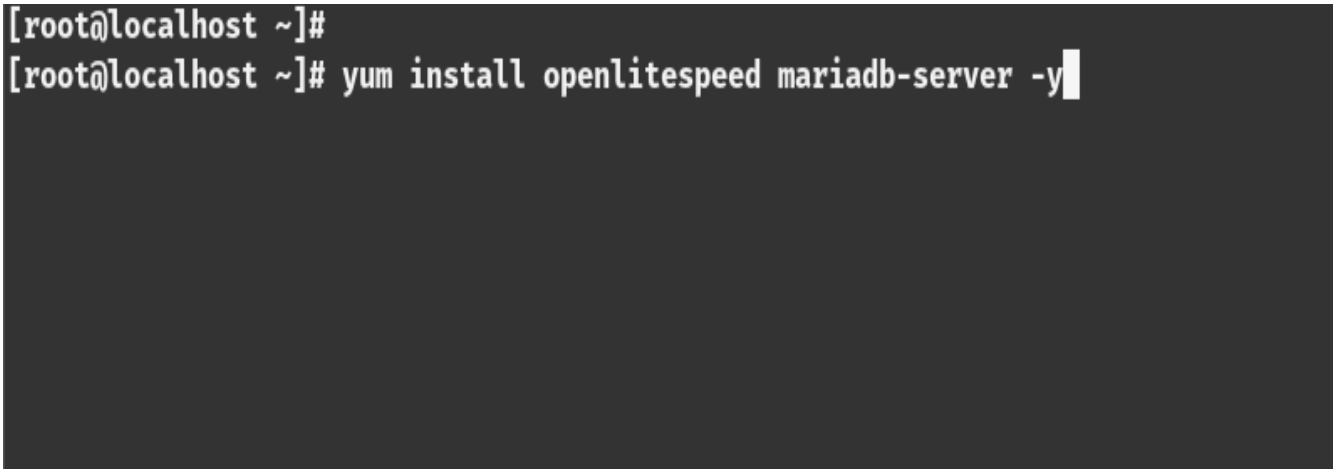
2) install the lite-speed web server repository

=>rpm -ivh http://rpms.litespeedtech.com/centos/litespeedrepo-1.1-1.el7.noarch.rpm

```
[root@localhost ~]#
[root@localhost ~]# rpm -ivh http://rpms.litespeedtech.com/centos/litespeed-repo-1.1-1.el7.noarch.rpm
Retrieving http://rpms.litespeedtech.com/centos/litespeed-repo-1.1-1.el7.noarch.rpm
Preparing...                          ################################# [100%]
Updating / installing...
   1:litespeed-repo-1.1-1.el7.centos  ################################# [100%]
[root@localhost ~]#
```

3) install the ‘mariadb-server’ and ‘litespeed’ web server because we will work with php and mariadb with the litespeed webserver

=>yum install openlitespeed mariadb-server -y



4) install the php and php-mysql library

=> yum install lsphp56 lsphp56-mysql -y

```
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# yum install lsphp56 lsphp56-mysql -y
```

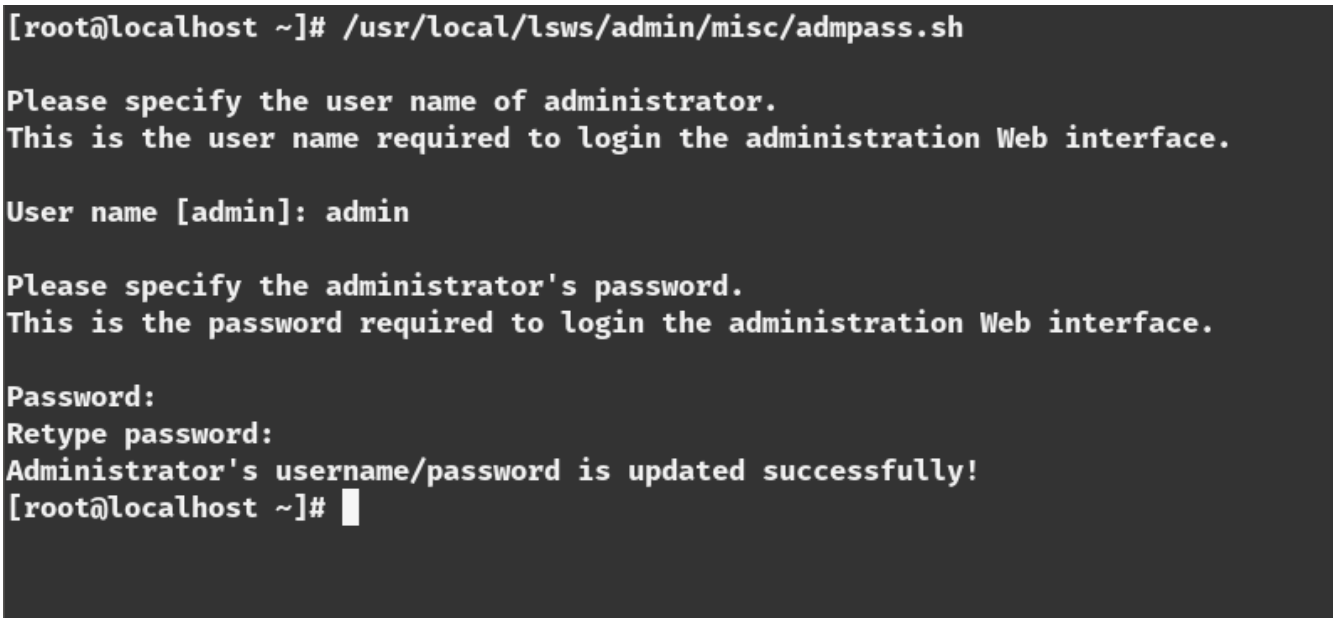
[you can install another version if you want,for example lsphp70,lsphp72,lsphp60 etc]

5) change the admin password of the web server admin panel

=>/usr/local/lsws/admin/misc/admpass.sh

[give the admin name and password]

```
[root@localhost ~]#
[root@localhost ~]# /usr/local/lsws/admin/misc/admpass.sh
```



6) create a link with the php executable

=>ln -sf /usr/local/lsws/lsphp56/lsphp /usr/local/lsws/fcgi-bin/lsphp5

```
[root@localhost ~]#
[root@localhost ~]# ln -sf /usr/local/lsws/lsphp56/bin/lsphp /usr/local/lsws/fcgi-bin/lsp
lsperld.fpl  lsphp        lsphp5
[root@localhost ~]# ln -sf /usr/local/lsws/lsphp56/bin/lsphp /usr/local/lsws/fcgi-bin/lsphp5
[root@localhost ~]#
```

7) Start the mariadb server

=>systemctl start mariadb

```
[root@localhost ~]#
[root@localhost ~]# systemctl start mariadb
```

8) Enable the database server for running on boot time

=>systemctl enable mariadb

```
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# systemctl enable mariadb
```

9) Change the mariadb root password

=>mysql_secure_installation

[enter the root password and change the default password]

```
[root@localhost ~]#
[root@localhost ~]# mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
      SERVERS IN PRODUCTION USE!  PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user.  If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.

Set root password? [Y/n] Y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
 ... Success!
```

10) see the status of the openlitespeed server

=>systemctl status lsws
or
=>service lsws status

```
[root@localhost ~]#
[root@localhost ~]# service lsws status
litespeed is running with PID 9789.
[root@localhost ~]#
```

```
[root@localhost ~]# systemctl status lsws
● lsws.service - LSB: lshttpd
   Loaded: loaded (/etc/rc.d/init.d/lsws; bad; vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:systemd-sysv-generator(8)
[root@localhost ~]#
```

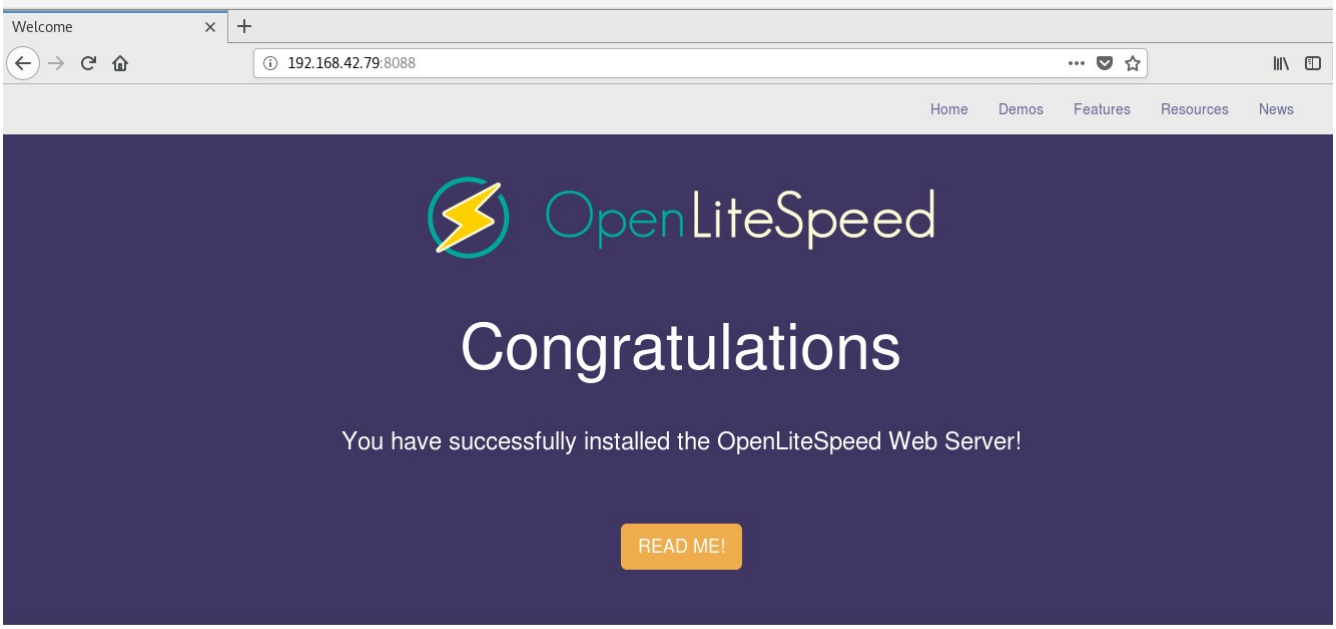
11)open Terminal and type

=>ifconfig

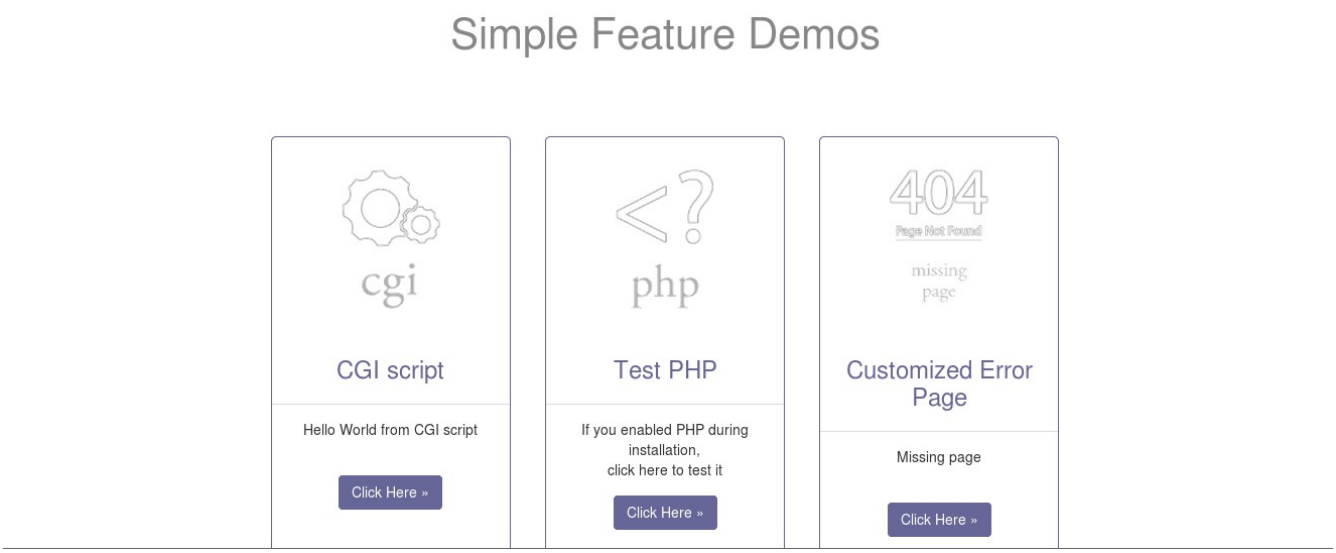
12) go to the addres of your host with the browser

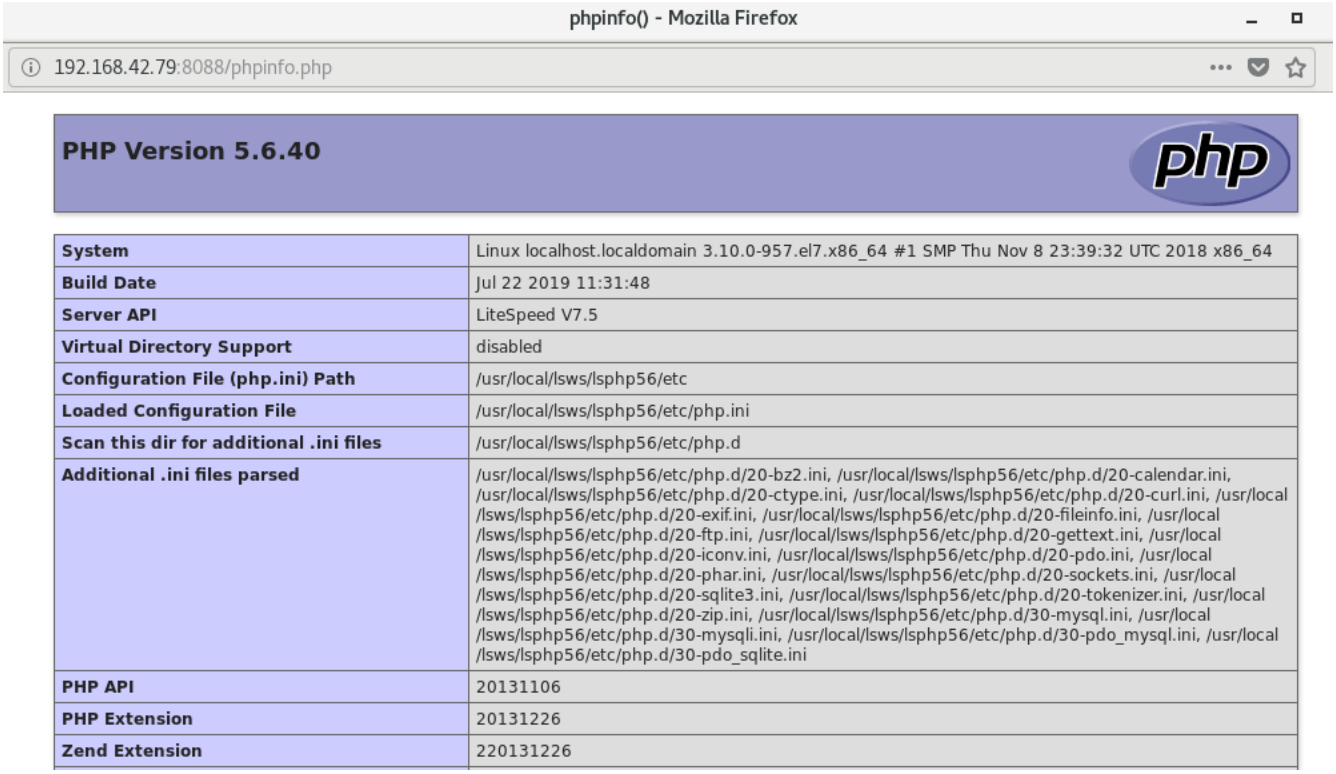
=><ip_address>:8088

[8088 port is the main web server port]



13)Test the installed php by clicking this button

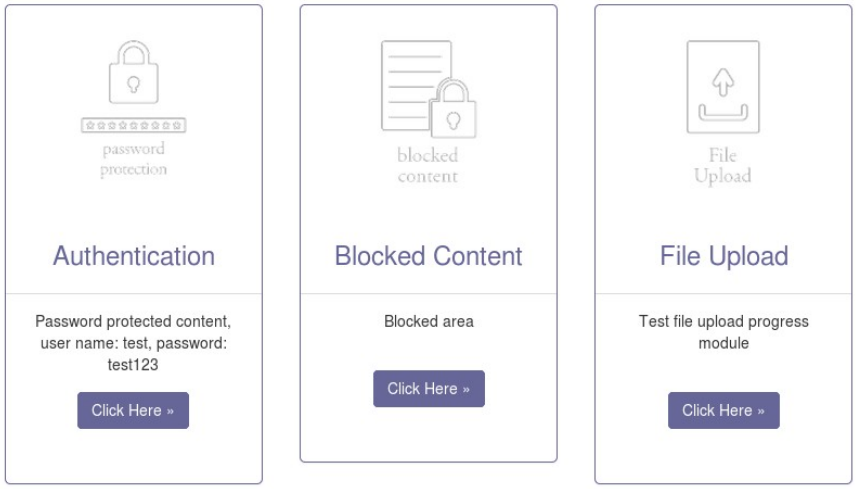




System	Linux localhost.localdomain 3.10.0-957.el7.x86_64 #1 SMP Thu Nov 8 23:39:32 UTC 2018 x86_64
Build Date	Jul 22 2019 11:31:48
Server API	LiteSpeed V7.5
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/usr/local/lsws/lsphp56/etc
Loaded Configuration File	/usr/local/lsws/lsphp56/etc/php.ini
Scan this dir for additional .ini files	/usr/local/lsws/lsphp56/etc/php.d
Additional .ini files parsed	/usr/local/lsws/lsphp56/etc/php.d/20-bz2.ini, /usr/local/lsws/lsphp56/etc/php.d/20-calendar.ini, /usr/local/lsws/lsphp56/etc/php.d/20-ctype.ini, /usr/local/lsws/lsphp56/etc/php.d/20-curl.ini, /usr/local/lsws/lsphp56/etc/php.d/20-exif.ini, /usr/local/lsws/lsphp56/etc/php.d/20-fileinfo.ini, /usr/local/lsws/lsphp56/etc/php.d/20-ftp.ini, /usr/local/lsws/lsphp56/etc/php.d/20-gettext.ini, /usr/local/lsws/lsphp56/etc/php.d/20-iconv.ini, /usr/local/lsws/lsphp56/etc/php.d/20-pdo.ini, /usr/local/lsws/lsphp56/etc/php.d/20-phar.ini, /usr/local/lsws/lsphp56/etc/php.d/20-sockets.ini, /usr/local/lsws/lsphp56/etc/php.d/20-sqlite3.ini, /usr/local/lsws/lsphp56/etc/php.d/20-tokenizer.ini, /usr/local/lsws/lsphp56/etc/php.d/20-zip.ini, /usr/local/lsws/lsphp56/etc/php.d/30-mysql.ini, /usr/local/lsws/lsphp56/etc/php.d/30-mysqli.ini, /usr/local/lsws/lsphp56/etc/php.d/30-pdo_mysql.ini, /usr/local/lsws/lsphp56/etc/php.d/30-pdo_sqlite.ini
PHP API	20131106
PHP Extension	20131226
Zend Extension	220131226

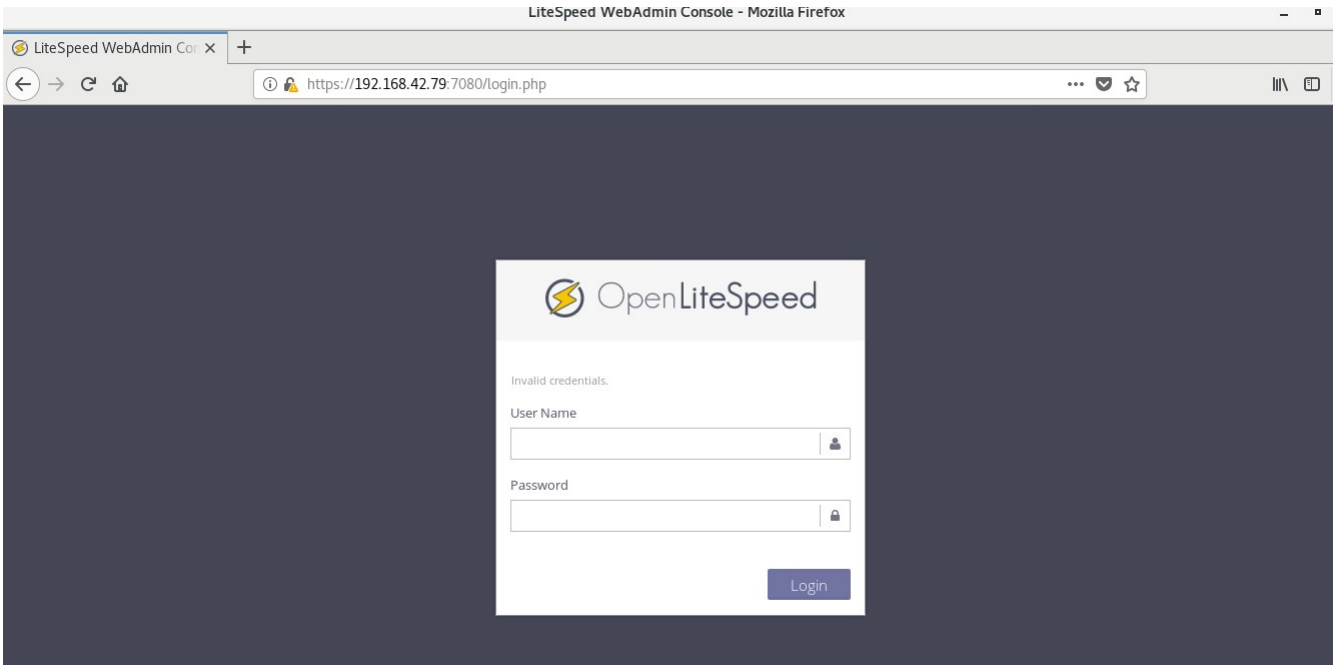
[if this page shows that means php working perfectly]

14)you can change the settings of the blocked content and the upload file permission here



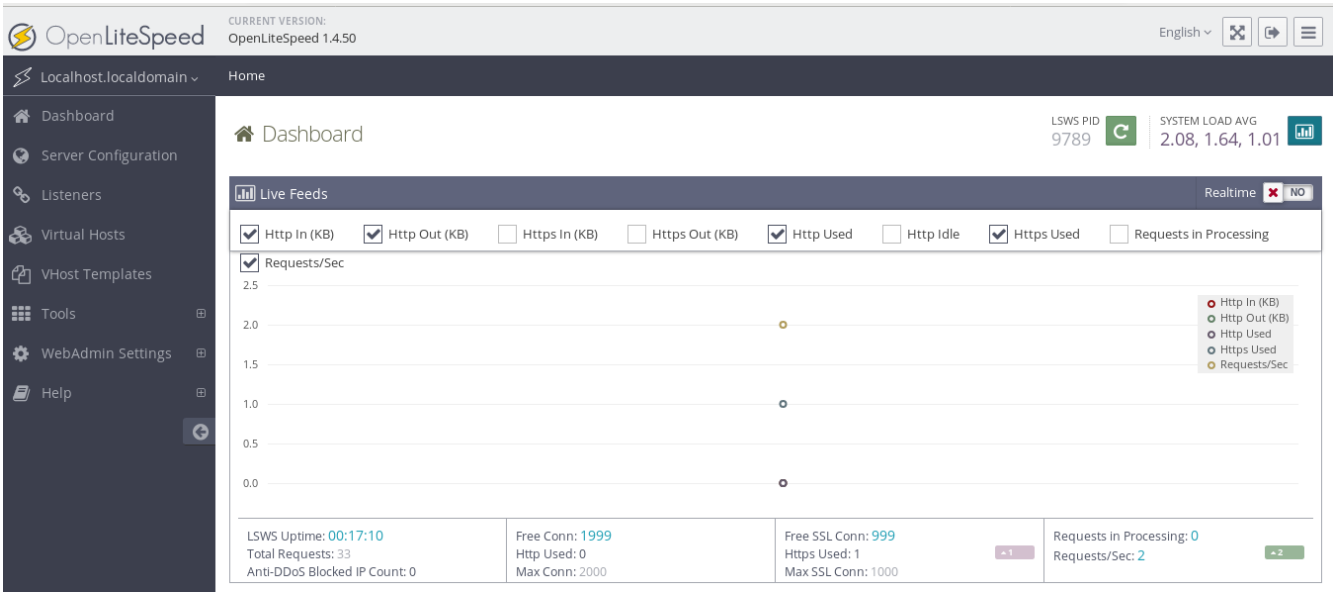
15) Go to the admin panel

=><your_ip>:7080



[7080 port is the admin port for the webserver]

16)you can check all the status here



RUN A PHP CODE IN THIS SERVER:

1) go to '/usr/local/lsws/Example/html' directory

=>cd /usr/local/lsws/Example/html

2) you can remove the existing content here [optional]

=>rm -rf *

3) add a php file name 'index.php' with you favorite text editor

=>vim index.php

```
<?php
    echo "Working Perfectly";
?>
```

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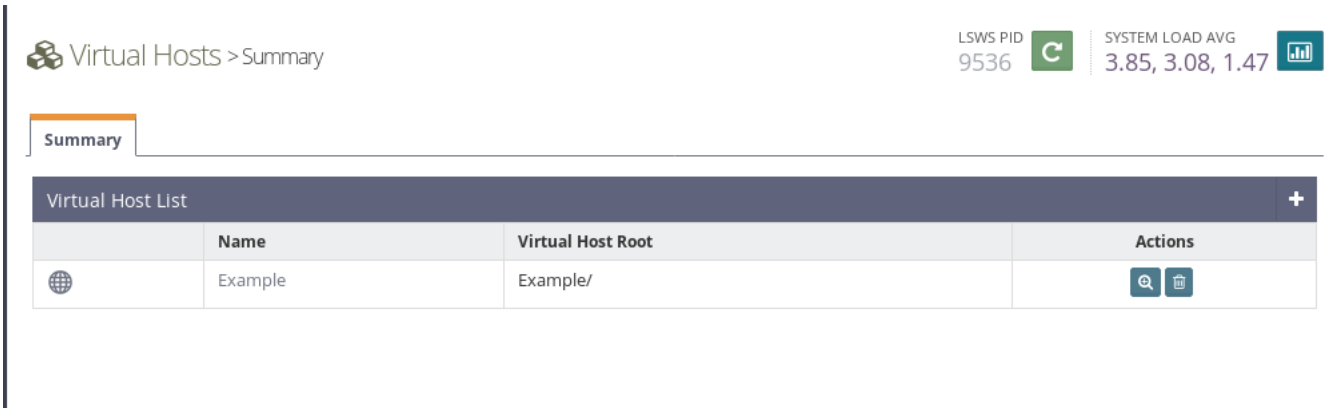
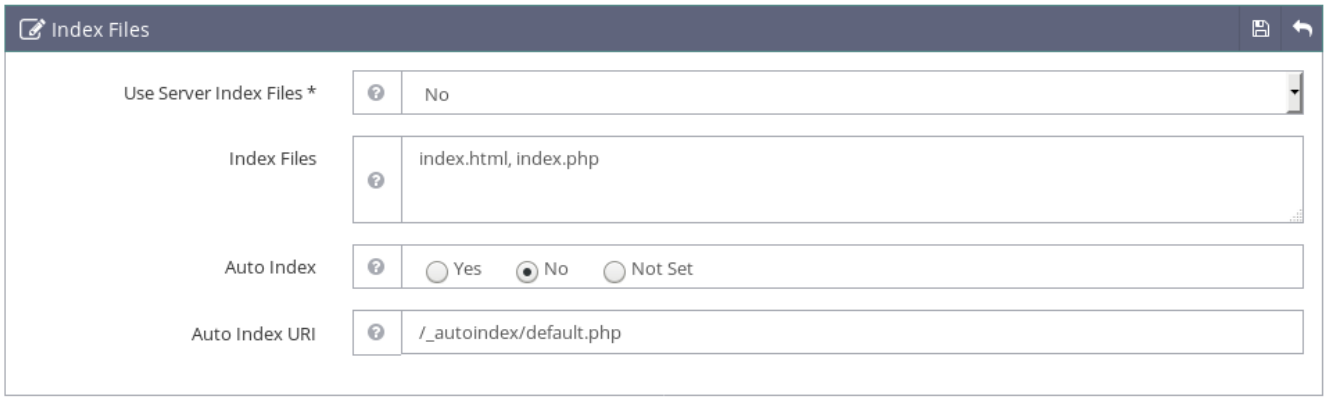
4) go to the admin page with the browser and go to the Virtual Host option

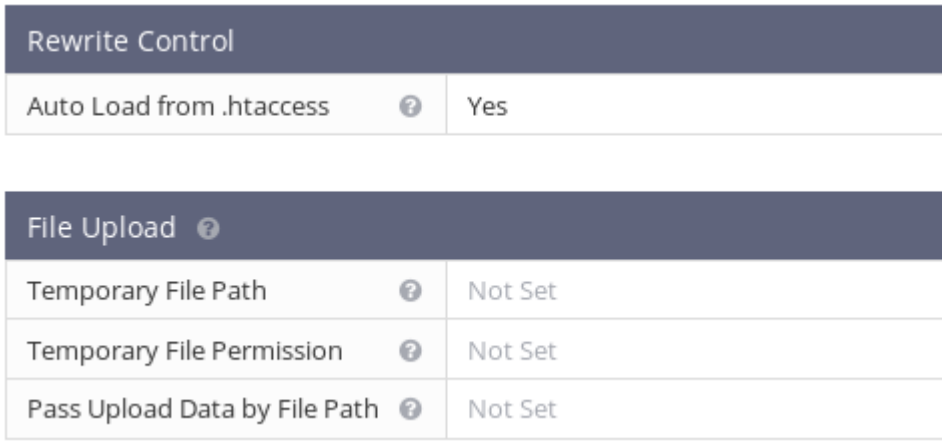
5)Select The 'Example' host



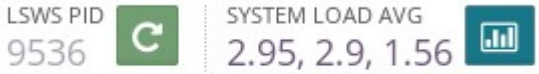
6) add ‘index.php’ to the Auto index option under Index Files



7)Change the ‘Auto load from .htaccess’ to ‘Yes’ Under Rewrite control



8) restart the web server



9)visit the page <your_ip>:8088/index.php