

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 instead of the apache web server with php and mysql. It's a high performance web server and it is faster than apache web server. It is far more advanced 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

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

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

Please specify the user name of administrator.
This is the user name required to login the administration Web interface.

User name [admin]: admin

Please specify the administrator's password.
This is the password required to login the administration Web interface.

Password:
Retype password:
Administrator's username/password is updated successfully!
[root@localhost ~]# █
```

6) create a link of the php executable

=>ln -sf /usr/local/lsws/lsp56/lsp56 /usr/local/lsws/fcgi-bin/lsp56

```
[root@localhost ~]#  
[root@localhost ~]# ln -sf /usr/local/lsws/lsp56/bin/lsp56 /usr/local/lsws/cgi-bin/lsp  
lperl5.fpl lsp5        lsp55  
[root@localhost ~]# ln -sf /usr/local/lsws/lsp56/bin/lsp56 /usr/local/lsws/cgi-bin/lsp55  
[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 ~]# █
```

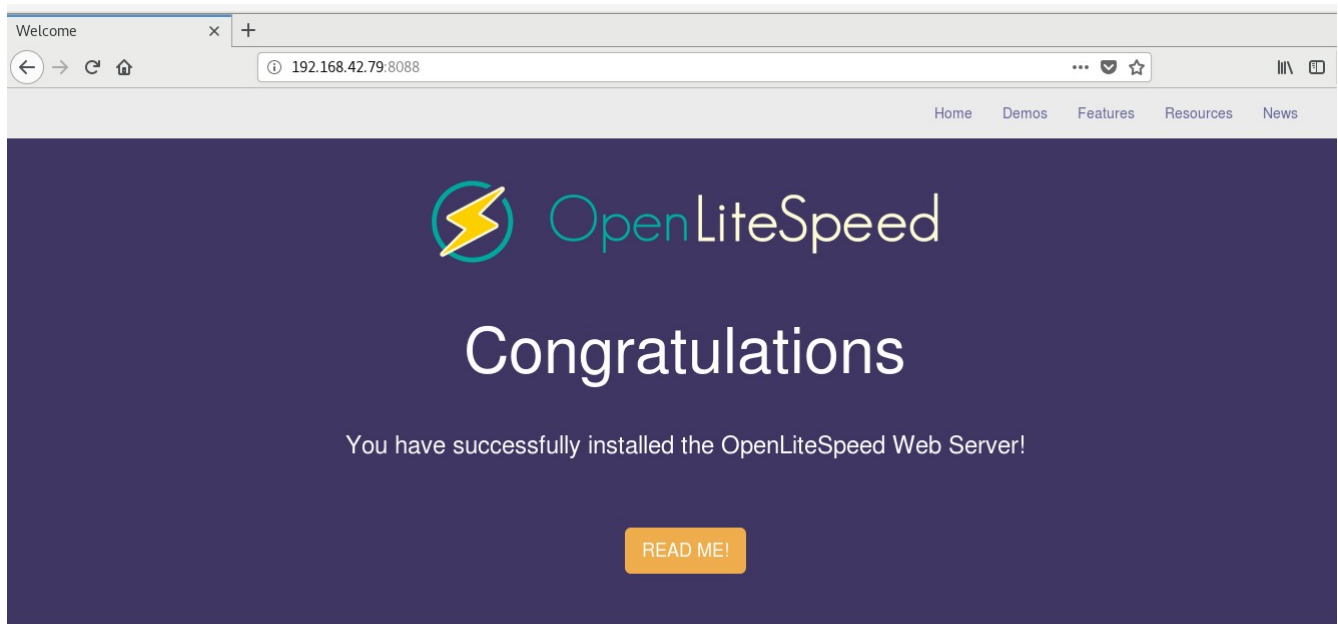
11) Open Terminal and type 'ifconfig' to know your ip address

=>**ifconfig**

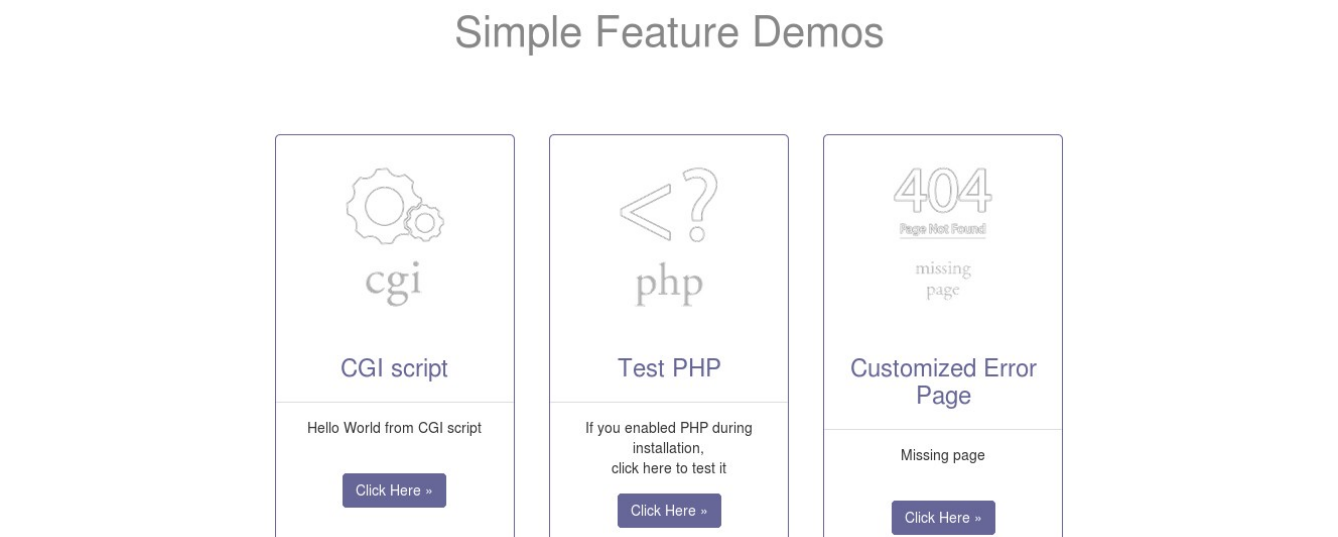
12) go to the address of your host with the browser

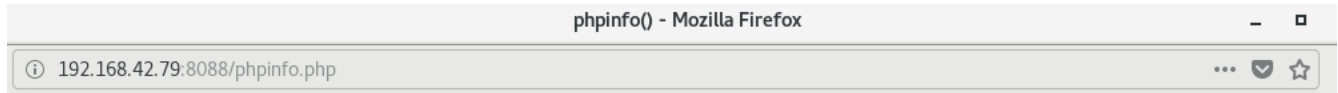
=>**<ip_address>:8088**


[8088 port is the main web server port]



13) Test the installed php by clicking this button

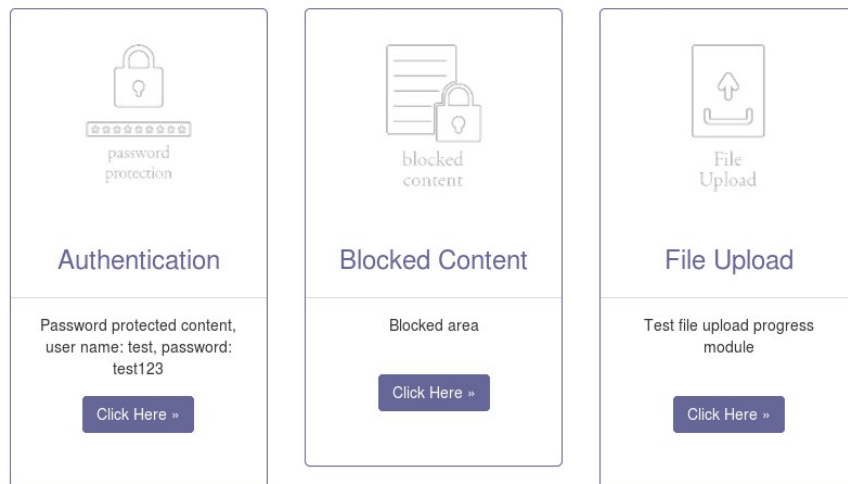




PHP Version 5.6.40	
	
System	Linux localhost.localdomain 3.10.0-957.el7.x86_64 #1 SMP Thu Nov 8 23:39:32 UTC 2018 x86_64
Build Date	Jul 22 2019 11:31:48
Server API	LiteSpeed V7.5
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/usr/local/lsws/lsp56/etc
Loaded Configuration File	/usr/local/lsws/lsp56/etc/php.ini
Scan this dir for additional .ini files	/usr/local/lsws/lsp56/etc/php.d
Additional .ini files parsed	/usr/local/lsws/lsp56/etc/php.d/20-bz2.ini, /usr/local/lsws/lsp56/etc/php.d/20-calendar.ini, /usr/local/lsws/lsp56/etc/php.d/20-ctype.ini, /usr/local/lsws/lsp56/etc/php.d/20-curl.ini, /usr/local/lsws/lsp56/etc/php.d/20-exif.ini, /usr/local/lsws/lsp56/etc/php.d/20-fileinfo.ini, /usr/local/lsws/lsp56/etc/php.d/20-ftp.ini, /usr/local/lsws/lsp56/etc/php.d/20-gettext.ini, /usr/local/lsws/lsp56/etc/php.d/20-iconv.ini, /usr/local/lsws/lsp56/etc/php.d/20-pdo.ini, /usr/local/lsws/lsp56/etc/php.d/20-phar.ini, /usr/local/lsws/lsp56/etc/php.d/20-sockets.ini, /usr/local/lsws/lsp56/etc/php.d/20-sqlite3.ini, /usr/local/lsws/lsp56/etc/php.d/20-tokenizer.ini, /usr/local/lsws/lsp56/etc/php.d/20-zip.ini, /usr/local/lsws/lsp56/etc/php.d/30-mysql.ini, /usr/local/lsws/lsp56/etc/php.d/30-mysqli.ini, /usr/local/lsws/lsp56/etc/php.d/30-pdo_mysql.ini, /usr/local/lsws/lsp56/etc/php.d/30-pdo_sqlite.ini
PHP API	20131106
PHP Extension	20131226
Zend Extension	220131226

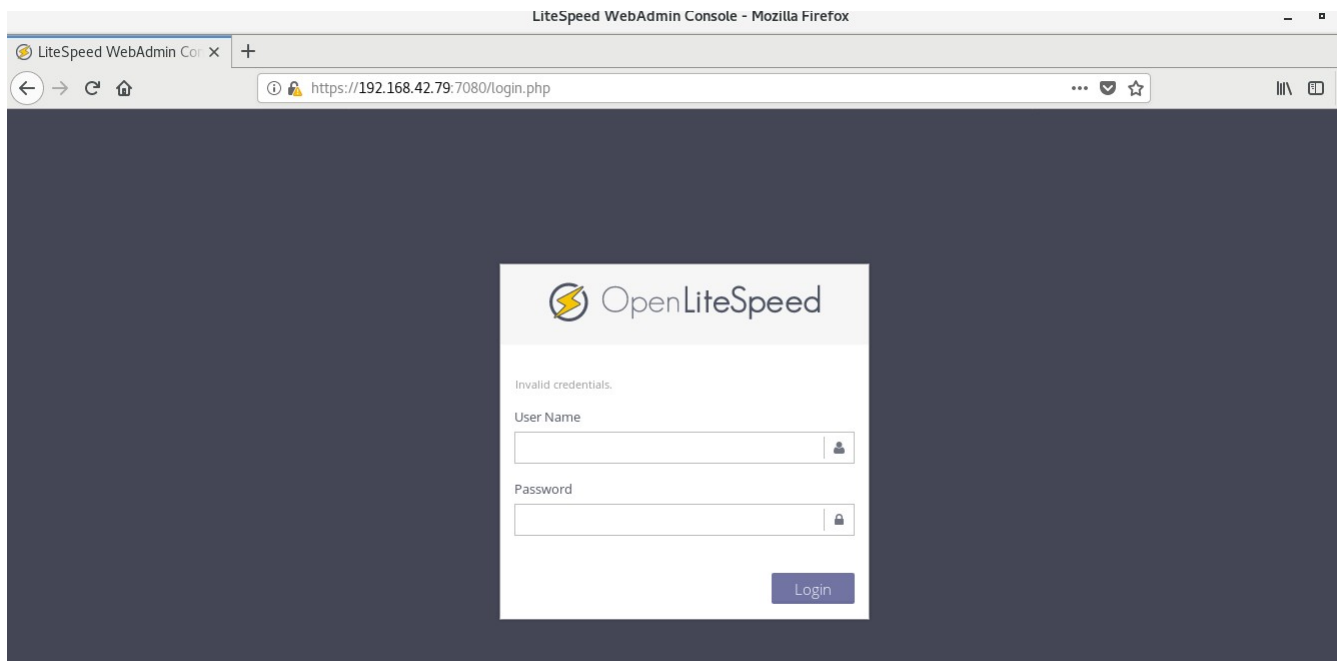
[if this page shows that means php working perfectly]

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



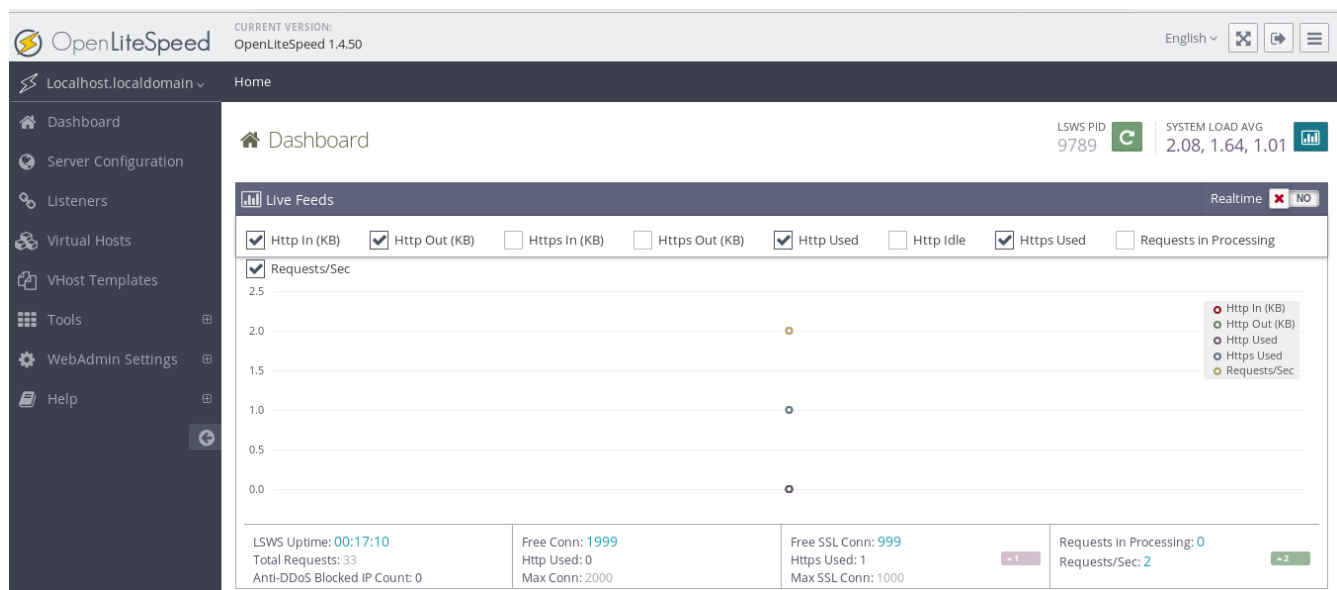
15) Go to the admin panel

=><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";
```

```
?>
```

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

5)Select The **'Example'** host

Virtual Hosts > Summary

LSWS PID
9536

SYSTEM LOAD AVG
3.85, 3.08, 1.47

Summary

Virtual Host List

	Name	Virtual Host Root	Actions
	Example	Example/	<div></div> <div></div>

6) add **'index.php'** to the Auto index option under Index Files

Index Files

Use Server Index Files *

?
No

Index Files

?
index.html, index.php

Auto Index

?
☐ Yes
☒ No
☐ Not Set

Auto Index URI

?
/_autoindex/default.php

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

Rewrite Control

Auto Load from .htaccess

?
Yes

File Upload ?

Temporary File Path

?
Not Set

Temporary File Permission


?
Not Set

Pass Upload Data by File Path


?
Not Set

8) restart the web server

LSWS PID
9536



SYSTEM LOAD AVG
2.95, 2.9, 1.56



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

