

PlaySMS Install Guide for Debian 11

Submitted by powerpbx on Tue, 02/28/2023 - 10:00



PlaySMS is an open source SMS management system. It can be used as an SMS gateway, bulk SMS provider, personal messaging system, and for corporate and group communications.

It has built in gateway connectivity to various providers such as Twilio, Nexmo, BulkSMS, Clickatell, Infobip, RouteSMS etc. It also has a generic plugin that can be adapted to work with other providers.

Our changes from the original repository are shown at the following link.

https://github.com/playsms/playsms/compare/master...powerpbx:pla ysms:php81 fix

(https://github.com/playsms/playsms/compare/master...powerpbx:playsms:php81 fix)

We have created a <u>custom gateway for Telnyx</u> (https://github.com/powerpbx/plugin-telnyx).

Tested using the following software:

Debian 11 (Bullseye) x64 minimal install PlaySMS 1.5 Apache 2.4 PHP 8.1 MariaDB 10

Prerequisites

Verify locale is set to C.UTF-8 or en US.UTF-8.

```
locale
```

If it is not then set it now. You may also set your own UTF-8 locale.

```
# Select C.UTF-8 UTF-8 apt update && apt -y install locales && dpkg-reconfigure locales
```

Log out/in or close/open shell for changes to take effect.

Install some basics

Ensure a basic server install with intial dependencies to start with.

```
apt update && apt -y upgrade

apt -y install nano git dbus sudo wget curl dirmngr openssl ntp
dnsutils mariadb-client mariadb-server postfix gettext apache2
```

Postfix

If a postfix configuration wizard pops up you can select the default Internet site and also the default mail name. These settings can be manually changed later in /etc/postfix/main.cf.

Set Timezone

```
## FIND YOUR TIMEZONE
tzselect

## SET TIMEZONE EXAMPLE
timedatectl set-timezone America/Vancouver

systemctl restart rsyslog
timedatectl status
```

PHP

Install repository

```
# install this section one line at a time.
apt -y install gnupg2 apt-transport-https ca-certificates
software-properties-common
wget -0 /etc/apt/trusted.gpg.d/php.gpg
https://packages.sury.org/php/apt.gpg
echo "deb https://packages.sury.org/php/ $(lsb_release -sc) main"
> /etc/apt/sources.list.d/php.list
```

```
apt update && apt -y install php8.1 php8.1-opcache php8.1-cli php8.1-mysqli php8.1-gd php8.1-mbstring php8.1-xml php8.1-curl php8.1-zip php8.1-fpm
```

```
update-alternatives --set php /usr/bin/php8.1
```

Configure Apache

```
cat >> /etc/apache2/sites-available/playsms.conf << EOF</pre>
<VirtualHost *:443>
  ServerAdmin webmaster@localhost
  ServerName playsms.somedomain.com
  # ServerAlias www.playsms.somedomain.com
  DocumentRoot /var/www/playsms
  SSLEngine on
  SSLCertificateFile /etc/ssl/certs/ssl-cert-snakeoil.pem
  SSLCertificateKeyFile /etc/ssl/private/ssl-cert-snakeoil.key
</VirtualHost>
<Directory /var/www/playsms>
  Options SymLinksIfOwnerMatch Indexes
  DirectoryIndex index.php
  Require all granted
</Directory>
<Directory /var/www/storage>
  Require all denied
</Directory>
EOF
```

Enable website

```
a2dissite 000-default.conf
a2dissite default-ssl.conf
a2ensite playsms.conf
a2enmod proxy_fcgi ssl
a2enconf php8.1-fpm
systemctl restart php8.1-fpm
systemctl restart apache2
```

Install PlaySMS

This is using our fork which includes updates for PHP 8.1.

```
cd /usr/src
git clone -b php81_fix <a href="https://github.com/powerpbx/playsms.git">https://github.com/powerpbx/playsms.git</a>
<a href="https://github.com/powerpbx/playsms/tree/php81_fix">(https://github.com/powerpbx/playsms/tree/php81_fix</a>)
cd playsms

DBPASS=somepassword
```

```
SERVER_IP=$(ifconfig | sed -En 's/127.0.0.*//;s/.*inet (addr:)?
(([0-9]*\.){3}[0-9]*).*/\2/p' \mid head -n1 \mid cut -d " " -f1)
cat >> /usr/src/playsms/install.conf << EOF</pre>
ADMINPASSWORD="admin"
DBUSER="playsms"
DBPASS="${DBPASS}"
DBNAME="playsms"
DBHOST="localhost"
DBPORT="3306"
URLWEB="https://${SERVER_IP}"
PATHSRC="/usr/src/playsms"
PATHWEB="/var/www/playsms"
PATHBIN="/usr/local/bin"
PATHLOG="/var/log/playsms"
PATHSTR="/var/www/storage"
PATHSRC="$(pwd)"
EOF
```

Check configuration before running script and modify as necessary.

```
nano /usr/src/playsms/install.conf
```

Run PlaySMS install script and answer y to all questions

```
/usr/src/playsms/install.sh
```

Create systemd file

mysqladmin create playsms

mysql -e "flush privileges;"

mysql -e "GRANT ALL PRIVILEGES ON playsms.* TO
'playsms'@'localhost' IDENTIFIED BY '\${DBPASS}';"

```
cat >> /etc/systemd/system/playsms.service << EOF
[Unit]
Description=playsms
After=mariadb.service

[Service]
Type=oneshot
RemainAfterExit=yes
ExecStart=/usr/local/bin/playsmsd start
ExecStop=/usr/local/bin/playsmsd stop

User=www-data
Group=www-data
[Install]
WantedBy=multi-user.target
EOF</pre>
```

```
chmod 755 /usr/local/bin/playsmsd
systemctl daemon-reload
```

```
systemctl enable playsms
systemctl restart playsms
systemctl status playsms
```

Post Install

Set ownership and permissions

Run this any time there are any changes/moves/adds/upgrades or if experiencing problems.

```
# Set owner and group to www-data
chown -R www-data. /var/log/playsms /var/www

# Directory permissions to 755 (u=rwx,g=rx,o='rx')
find /var/log/playsms -type d -exec chmod 755 {} \;
find /var/www -type d -exec chmod 755 {} \;

# File permissions to 644 (u=rw,g=r,o=r)
find /var/log/playsms -type f -exec chmod 644 {} \;
find /var/www -type f -exec chmod 644 {} \;
```

Firewall

```
apt -y install firewalld

firewall-cmd --permanent --zone=public --add-service={http,https}
firewall-cmd --reload
firewall-cmd --list-all
```

Lock down DB

```
mysql_secure_installation
```

Answer Y to everything.

Login

```
browse to <a href="https://x.x.x">https://x.x.x</a>
username: <a href="https://x.x.x.x">admin</a>
password: <a href="https://x.x.x.x">admin</a>
Browse to <a href="https://x.x.x.x">My account > Preferences</a> and change password
```

Optional

Optimize PHP-FPM

```
sed -i "s/;request_terminate_timeout =
0/request_terminate_timeout = 300/"
/etc/php/8.1/fpm/pool.d/www.conf
sed -i "s/max_execution_time = 30/max_execution_time = 60/"
/etc/php/8.1/fpm/php.ini
sed -i "s/upload_max_filesize = 2M/upload_max_filesize = 20M/"
/etc/php/8.1/fpm/php.ini
sed -i "s/post_max_size = 8M/post_max_size = 20M/"
/etc/php/8.1/fpm/php.ini
sed -i "s/memory_limit = 128M/memory_limit = 512M/"
/etc/php/8.1/fpm/php.ini
```

```
systemctl restart php8.1-fpm
```

Setup SSL Certificate

This assumes you already have some domain or subdomain pointed at the server IP address. For example, playsms.somedomain.com.

Edit the playsms.conf to remove the port 443 virtualhost and add a port 80 virtualhost. So the new playsms.conf should look like the following

```
systemctl reload apache2
```

Install certbot and get letsencrypt certificate

```
apt install certbot python3-certbot-apache certbot --apache -d playsms.somedomain.com systemctl reload apache2
```

Update the web url if necessary

```
nano /var/www/playsms/appsetup.php
```

```
$core_config['http_path']['base'] =
'https://playsms.somedomain.com';
```

Test automatic renewal.

```
certbot renew --dry-run
```

Set up the automatic renewal routine to run weekly.

```
crontab -e

0 0 * * 0 root /usr/bin/certbot renew >/dev/null 2>&1
```

Disable Captcha

Captcha can be disabled at

```
storage/application/plugin/core/auth/config.php.
```

Adding Additional Gateways

Most gateways are not installed by default and are located in /usr/src/playsms/storage/application/plugin/gateway

The generic gateway can be used as a basis for creating a new gateway for some other provider.

Troubleshooting

```
error_reporting(E_ALL ^ (E_NOTICE | E_WARNING | E_DEPRECATED));
```

For verbose run time logging to (var/log/playsms/playsms.log, change the following setting just below the above one.

```
$core_config['logstate'] = 4;
```

Sections:

Other (/category/sections/install/other)



Join the discussion...

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Best Newest Oldest



Giuseppe Di Resta

3 days ago edited

Ok, found bug that retreve only one contact from all list when you type 2 chars to find destinations phonebook number into send sms form: you have to change: "\$items=array_unique(\$items);" into file: .../storage/application/plugin/core/phonebook/fn.php,

into file: .../storage/application/plugin/core/phonebook/fn.php, into function:

 $function\ phonebook_hook_webservices_output (\$ operation, \$ requests, \$ returns) \ \{$

to:

\$items = array_unique(\$items,SORT_REGULAR);

into php 7.X you can obmit "SORT_REGULAR", while seems that into php 8.X you have to declare it, so if you search into all .php files of platsms project, you have to change all similiar expressions, i.e.: \$arrayxxx=array_unique(\$arrayxxx);

to

\$arrayxxx=array_unique(\$arrayxxx, SORT_REGULAR); to solve probable bugs on array search into web pages. ok, now really all works well!!!

o o Edit • Reply • Share >



powerpbx Mod → Giuseppe Di Resta

Thank you for the info.

o o Reply • Share >



3 days ago

Giuseppe Di Resta powerpbx

3 days ago edited

Thanks. Today ported also playsms 1.4.6 to PHP 8.2, but its daemon (playsmsd) hosed in /home/playsms/bin/ folder wont start, and cannot check the error around... while of I force PHP 7.2 (I've installed both) the daemon works well, so seems to be related to php version in use....

Any suggestion about?

o o Edit • Reply • Share >



........................

to powerpbx:

there is a really BIG BUG on 1.5.0 playsms version:

when you compose message, and search for destination numbers/users, after tyoed 2 chars, only one name/phone, appear in list, while in playsms 1.4.5 (there is 1.4.6 as last version on githib) all works, and typing 2 or more chars, all phones or users that has inside thoose chars, are listed to be choosen... you can check!

so, is better use 1.4.x version ov playsms, also if is compatible only with php 7.x (I used PHP 7.2) see you!

o o Reply • Share >



Giuseppe Di Resta → Giuseppe Di Resta

3 days ago edited

the bug fix is in my previous post! and... if domeone asks if works also with php 8.2, yes, just tested, all seems to work!



Giuseppe Di Resta

a month ago

@powerpbx

Do you think it will be possible to upgrade playsms for php 8.2??? and if yes, how to procede? thanks.

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S. FANKANY

2 months ago

Hi all,

I have succesfully setup playsms 1.5 on debian 11 and so far everything seems to work as expected except:

- All received sms are kept in planned sms, i did make sure that my timezone is same in php.ini and in playsms user config
- The daemon is working fine but the _tblPlaysmsd table is empty which seems like no services are getting registered

Does anyone faced same issued before? any suggestions for troubleshooting this behavior

regards, SFK

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Giuseppe Di Resta

2 months ago

hi, installed and all seems to works, but no data was sent to smstools outgoing folder to send as sms. I added also ownership to www-fata to all

outhough total to betta ab bittle, I added also omitetettip to min i ata to all smstools folder but nothing appen, I see queques sms sver in playsms web

page. what to do?!

o Reply • Share >



```
→ Giuseppe Di Resta
powerpbx Mod
2 months ago
```

You should be able to see errors in the logs if something is not working as it should.

o Reply • Share >



```
Giuseppe Di Resta powerpbx
2 months ago edited
```

ok, with your playsms fixed for php 8.1 all seems to works now with smstools3, but:

I've installed it as normal user and not as root user and theese are my configs:

```
# INSTALL DATA
# ========
ADMINPASSWORD="admin"
DBUSER="playsms"
DBPASS="MyOwnDBpassword"
DBNAME="playsms"
DBHOST="localhost"
DBPORT="3306"
URLWEB="http://IP_of_playsms_machine"
PATHSTR="/home/playsms/public_html/storage"
PATHSRC="/home/playsms/src/playSMS"
PATHWEB="/home/playsms/public_html"
PATHLIB="/home/playsms/lib"
PATHBIN="/home/playsms/bin"
PATHLOG="/home/playsms/log"
PATHCONF="/home/playsms/etc"
# END OF INSTALL DATA
# ============
then, only adjust this line in this file:
```

/home/playsms/bin/playsmsd

```
from:
$PLAYSMS_WEB = ";
$PLAYSMS_WEB = '/home/playsms/public_html';
restarted playsms service
(sudo systemctl restart playsms)
```

and now I can see guegued sms, sent/delivered/received SMS from smstools Gateway!

so, all works, but maybe work well also if follow step by step your guide, I think only is to do:

```
set:

$PLAYSMS_WEB = '/var/www/playsms';
on
/usr/local/bin/playsmsd file....

and all will works, I'm pretty shure!
thanks for fix and guide!

YES!!!!!! CONFIRM!!!!!! just installed following step
by step your guide, all works!
only, fix that line:
set:
$PLAYSMS_WEB = '/var/www/playsms';
on
/usr/local/bin/playsmsd file....

o o Reply ● Share >

powerpbx Mod
 → Giuseppe Di Resta
2 months ago edited

→ Giuseppe Di Resta
```

