

# PostgreSQL Session Save Handler

# Introduction

<b>Note</b>
This extension is not available on Windows platforms.

This module provides an additional session save handler for the [session](#) module using [» PostgreSQL](#) as a storage system. A *user-level* session storage function may also be used - [session\\_set\\_save\\_handler\(\)](#), but this module is written in C and therefore could be twice as fast, compared to a session save handler written in PHP.

Session PgSQL is designed to scale any size of web sites and offers some advanced features:

- session tables are created automatically
- automatic session table vacuum
- better garbage collection
- multiple PostgreSQL servers support
- automatic database server failover (switching)
- automatic database server load balancing if there are multiple PostgreSQL servers.
- short circuit UPDATE

# Installing/Configuring

## Requirements

You need at least PHP  $\geq 4.3.0$ , and PostgreSQL  $\geq 7.2.0$  as database server. *libpq* that comes with PostgreSQL 7.2.0 or later (and header files to build) and [» libmm](#) (and header files).

## Installation

Short installation note:

- Untar the *tar.gz* archive into *php4/ext* (Latest official releases can be found at SourceForge [» PHP Form Extension Project](#) )
- If the new directory is now called something like *session\_pgsql*. You should name it to *session\_pgsql* (except you only want to build it as self-contained php-module).
- Run **./buildconf** in *php4*
- Run **configure** *--with-session-pgsql* (and your other options)
- **make; make install**

## Runtime Configuration

The behaviour of these functions is affected by settings in *php.ini*.

PostgreSQL session save handler is still under development. Refer to the *README* file in the source distribution for configuration details.

## Resource Types

This extension has no resource types defined.

# Table definitions

## Session table definition

```
CREATE TABLE php_session (  
  sess_id          text,  
  sess_name        text,  
  sess_data        text,  
  sess_created     integer,  
  sess_modified    integer,  
  sess_expire      integer,  
  sess_addr_created text,  
  sess_addr_modified text,  
  sess_counter     integer,  
  sess_error       integer,  
  sess_warning     integer,  
  sess_notice      integer,  
  sess_err_message text,  
  sess_custom      text  
);
```

```
CREATE INDEX php_session_idx ON php_session USING BTREE (sess_id);
```

### Warning

If you use *HASH* for *INDEX*, you'll have a deadlock problem when the server load is *very* high. Even if it's unlikely to have a deadlock under normal operation, it can occur. *Do not use HASH for INDEX.*

You may change the session table as long as all fields are defined.

## Application variables table definition

```
CREATE TABLE php_app_vars (  
  app_modified     integer,  
  app_name         text,  
  app_vars         text  
);
```

# Predefined Constants

This extension has no constants defined.

# Session PgSQL Functions

## Contact Information

I have at the moment not very much time to further develop this extension. I will implement more and more features in the near future.

If you have comments, bug fixes, enhancements or want to help developing this, you can drop me a mail at [»\\_yohgaki@php.net](mailto:»_yohgaki@php.net). Any help is very welcome.

# session\_pgsql\_add\_error

session\_pgsql\_add\_error -- Increments error counts and sets last error message

## Description

bool **session\_pgsql\_add\_error** ( int \$error\_level [, string \$error\_message ] )

<b>Warning</b>
This function is currently not documented; only its argument list is available.

## Parameters

*error\_level*

*error\_message*

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## See Also

- [session\\_pgsql\\_get\\_error\(\)](#)

# session\_pgsql\_get\_error

session\_pgsql\_get\_error -- Returns number of errors and last error message

## Description

array **session\_pgsql\_get\_error** ( [ bool \$with\_error\_message ] )

Get the number of errors and optional the error messages.

## Parameters

*with\_error\_message*

Set to **TRUE** the literal error message for each error is also returned.

## Return Values

The number of errors are returned as [array](#).

## See Also

- [session\\_pgsql\\_add\\_error\(\)](#)



# session\_pgsql\_get\_field

session\_pgsql\_get\_field -- Get custom field value

## Description

string **session\_pgsql\_get\_field** ( void )

<b>Warning</b>
This function is currently not documented; only its argument list is available.

## See Also

- [session\\_pgsql\\_set\\_field\(\)](#)

# session\_pgsql\_reset

session\_pgsql\_reset -- Reset connection to session database servers

## Description

bool **session\_pgsql\_reset** ( void )

Reset the connection to the session database servers.

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

# session\_pgsql\_set\_field

session\_pgsql\_set\_field -- Set custom field value

## Description

bool **session\_pgsql\_set\_field** ( string *\$value* )

<b>Warning</b>
This function is currently not documented; only its argument list is available.

## Parameters

*value*

## Return Values

Returns **TRUE** on success or **FALSE** on failure.

## See Also

- [session\\_pgsql\\_get\\_field\(\)](#)

# session\_pgsql\_status

session\_pgsql\_status -- Get current save handler status

## Description

array **session\_pgsql\_status** ( void )

<b>Warning</b>
This function is currently not documented; only its argument list is available.