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PHP Socket programming Tutorial – How to code Client and Server

By [Shree Sheel](#) | July 25, 2022

Php and tcp/ip sockets

This is a quick guide to learning socket programming in php. Socket programming php is very similar to C. Most functions are similar in names, parameters and output.

However unlike C, socket programs written in php would run the same way on any os that has php installed. So the code does not need any platform specific changes (mostly).

To summarise the basics, sockets are the fundamental “things” behind any kind of network communications done by your computer.

For example when you type www.google.com in your web browser, it opens a socket and connects to google.com to fetch the page and show it to you. Same with any chat client like [gtalk](#) or [skype](#).

Before you begin

This tutorial assumes that you already know php and also how to run php scripts from the command-line/terminal.

Php scripts are normally run from inside the browser by placing them in the apache root directory like [/var/www](http://var/www). However these command line programs can be run from any directory. They can.

So lets begin with sockets.

1. Creating a socket

This first thing to do is create a socket. The `socket_create` function does this.

Here is a code sample:

Code

```
$sock = socket_create(AF_INET, SOCK_STREAM, 0);
```

Function `socket_create` created a socket and returns a socket descriptor which can be used in other network commands.

The above code will create a socket with the following properties ...

Address Family : `AF_INET` (this is IP version 4)

Type : `SOCK_STREAM` (this means connection oriented TCP protocol)

Protocol : `0` or `IPPROTO_TCP` This is IP protocol

Error handling

if any of the socket functions fail then the error information can be retrieved using the `socket_last_error` and `socket_strerror` functions.

Code

```
$sock = socket_create(AF_INET, SOCK_STREAM, 0);
if ($sock) {
    $errcode = socket_last_error();
    $errmsg = socket_strerror($errcode);
    die("couldn't create socket: [$errcode] $errmsg\n");
}
echo "socket created";
```

Ok, so you have created a socket successfully. But what next? Next we shall try to connect to some server using this socket. We can connect to www.google.com.

Note

Apart from `SOCK_STREAM` type of sockets there is another type called `SOCK_DGRAM` which indicates the UDP protocol. This type of socket is non-connection socket. In this tutorial we shall

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