

# WebStats HTML Web-Access Statistic Engine v1.0

## Manual

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### 1. Introduction

WebStats is a utility that parses the content of a web folder and records visitor statistics. It is essentially a three tier software – a simplistic low-level HTTP CGI-like server to handle client connections, a recursive file crawler and a MySQL database. The HTTP server and the file crawler run independently from one another; they only interact through the database. WebStats is entirely written in Java and is therefore absolutely platform independent. A number of sample PHP files are included that allow the user to view the recorded data. They are easily expendable to mine for different data in the database, depending on the web statistics recorded by WebStats. Any type of HTML document can be tracked using this software as long as the necessary modifications are made to the content about which statistics shall be recorded.

This document describes the basic configuration of WebStats and how to deploy it. An effort was made to keep WebStats as simple and easy to use as possible and to run with the bare minimum on requirements.

### 2. Prerequisites

In the following, please find a listing of the software that is needed by WebStats. An effort was made to keep this to the bare minimum. It is assumed that all these softwares are already installed and configured properly, as explaining these steps is beyond the scope of this document.

Required software:

- some web server (like Apache's httpd)
- some PHP extension for the web server
- Java Runtime Environment v1.6 or higher
- MySQL v5 or higher with a user account that has rights to insert, delete, alter and truncate tables

You will also need a user account on the host machine. Furthermore, the web server of the host machine must point to a directory that this user account has access to to be able to upload and track your own web content.

Things you do not need to run this software:

- root / administrator access on the host machine
- Jakarta / Tomcat or any other server capable of handling CGI or dynamic content
- MySQL Connector/J – this is already included in the WebStats distribution

### 3. Configuration

This section discusses how to configure WebStats and make all the necessary arrangements to deploy the application to your webserver. These sections assume that you have copied the content from the WebStats.zip file onto the host machine and that some web content has been copied to the “www” directory. The “www” directory must be in the same folder in which WebStats is running and must be reachable through the webserver (i.e. your webserver configuration must include the “www” directory to be exposed to the world).

#### 3.1 WebStats.conf

WebStats.conf is the main configuration file of WebStats. The file is well documented, so you cannot really do anything wrong. However, make sure to prepare the following minimal steps to have WebStats ready for deployment:

1. Under “server”, enter the entire path under which a user can reach your web content. This is equivalent to the URL a user would type into the browser.  
Example: server=”<http://www.yourdomain.com/~frank/www/>”
2. Under “server\_name”, enter the URL of your server, without protocol or port.  
Example: server\_name=”[www.yourdomain.com](http://www.yourdomain.com)”
3. Under “port”, enter the port number on which the HTTP server of WebStats shall be reachable.  
Example: port=”4200”
4. Enter the command that you can use to shutdown your HTTP server remotely. This can be left empty if you don't wish to switch off the HTTP server from the web.  
Example: shutdown=“/QUIT”  
The server will shutdown when “<http://www.yourdomain.com:4200/QUIT>” is called from a browser
5. Under “db\_url”, enter the URL under which JDBC can reach your database  
Example: db\_url=”jdbc:mysql://yourdomain.com/WebStats”
6. Under “db\_user” and “db\_pass”, enter the user name and password for WebStats that you intend to use with your database. You can keep “db\_pass” empty and provide a command line argument instead.

7. Under “server\_data\_path”, enter the directory that you intend to store additional files for the database in. This can be left as it is, if you intend to use the “server\_data” directory from the WebStats.zip file.
8. Under “www”, enter the directory that you intend to store your web content in. This can be left as it is, if you intend to use the “www” directory from the WebStats.zip file and have configured your HTTP server to expose this folder to the world.
9. It is recommended not to tamper with the variables “separator” and “escape”. Leave those as they are.

### 3.2 webstats.js

This file is located in the “www” directory in the WebStats.zip folder and goes together with your web content and is responsible for collecting client information. To adapt the file, you only need to modify two variables. **Leave everything else unmodified!**

1. Under “server”, enter **the same value** that you have entered under “server\_name” in the WebStats.conf file
2. Under “port”, enter **the same value** that you have entered under “port” in the WebStats.conf file.

### 3.3 PHP Files

These files can be found in the “php-stats” directory in the WebStats.zip. They provide you with some examples of how to retrieve the recorded statistics from the server. In every file, you need to manipulate three variables:

1. Under “\$db\_host”, enter **the same value** that you have entered under “server\_name” in the WebStats.conf file.
2. Under “\$db\_user”, enter **the same value** that you have entered under “db\_user” in the WebStats.conf file.
3. Under “\$db\_pwd”, enter **the same value** that you have entered under “db\_pass” in the WebStats.conf file. If you choose to keep the “db\_pass” variable without value in WebStats.conf, be sure to enter the same value for “\$db\_pwd” that you provide as the command line argument.

## 4. Deploying

This section describes how to deploy the application to your webserver. It assumes that you have copied the content from the WebStats.zip file onto the host machine and that some web content has been copied to the “www” directory. The “www” directory must be in the same folder in which WebStats is running and must be reachable through the webserver (i.e. your webserver configuration must include the “www” directory to be exposed to the world).

## 4.1 Installing MySQL Database

You need to install the WebStats Database into your MySQL server. Do so by opening up a command line and type

```
mysql -p 'yourDB' < WebStats.sql
```

and use for 'yourDB' the database that you intend to use with WebStats (i.e. the same one you references in the "db\_url" variable in the WebStats.conf file). When prompted, type in your DB password.

## 4.2 Installing WebStats-1.0-bin.jar

Installing WebStats is not necessary. Simply copy the binary file ("WebStats-1.0-bin.jar") to your host machine in the same directory as the "server\_data" and "www" folders and execute.

## 4.3 Preparing HTML Files

You need to prepare every HTML file you wish to record statistics for. In the "www" directory from the WebStats.zip archive, you will find two files, i.e. "testpage.html" and "webstats.js". You need to copy "webstats.js" file into the "www" directory of your host machine and edit **every** HTML file you wish to record statistics for in a similar manner as depicted in the example "testpage .html". Specifically, you need to do the following:

1. Edit the **header** of the files by adding the following code somewhere in the <head> tag of the HTML file so that it looks like this:

Example:

```
<head>
  <script type="text/javascript"
    src="webstats.js">
  </script>
  <script language="Javascript"
    src="http://gd.geobytes.com/gd?after=-
1&variables=GeobytesCountry,GeobytesCity">
  </script>
  <script
type="text/javascript">document.write(unescape("%3Cform
name='http://localhost:8080/index.html' action='
id='f0rm' METHOD='POST'%3E%3Cinput type='hidden'
name='h1dd3n1nput' id='h1dd3n' value='j4v4scr1pt'
/%3E%3C/FORM%3E"));
  </script>
</head>
```

2. Edit the **body** tag of your HTML files so that it looks like this:

Example:

```
<body onLoad="run()">
... rest of your body
```

</body>

#### 4.4 Installing PHP Files

To install the sample PHP files and view your recorded statistics most conveniently, simply copy the “php-stats” directory into some place that is exposed to the world wide web (i.e. that is exposed by the web server) on your target machine. You can view your statistics by browsing to the URL of the php files.

Example:

[http://www.youdomain.com/path/to/your/php-stats/sever\\_data.php](http://www.youdomain.com/path/to/your/php-stats/sever_data.php)

#### 5. Executing WebStats

Once all of the above steps are completed, your folder in which WebStats will be running should look like this:

```
drwxr-xr-x 6      frank      franksgrp  23      May 5 11:07 www
-rw-r--r-- 1      frank      franksgrp 735029   Apr 30 21:18 WebStats-1.0-bin.jar
-rw-r--r-- 1      frank      franksgrp 1172     Apr 30 21:15 WebStats.conf
-rw-r--r-- 1      frank      franksgrp 445     Feb 22 2007 index.html
drwxr-xr-x 3      frank      franksgrp  3      Apr 30 21:16 server_data
```

You can verify this by using the tool `dir` (in Windows) or `ls -l` in \*UX from command line. Once you have verified that your directory looks like this or similarly (depending on your settings), you can execute WebStats by typing:

```
java -jar WebStats-1.0-bin.jar
```

(assuming you set a password in WebStats.conf) or

```
java -jar WebStats-1.0-bin.jar somepassword
```

where somepassword is some password for your MySQL database. In Windows, MacOS and some properly configured \*UX operating systems, you can also launch the program by double-clicking on the jar file from some Explorer/Finder/File Browser window of your preference.