

Site Visitor Logger with PHP

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When it comes to web stats, numerous scripts and services are available out there. However, you might have specific needs. For this reason, creating our own program is definitely the best way to go. The simple program below is designed to log the ip address and url referrer of site visitors. It is far from perfect but could be a starting point.

Here is the full code:

stat.php

```
<?php
include('statdb.php');

$bots = array('Google','msnbot','Yahoo','Scrubby','facebookexternalhit');
$bots = implode('|',$bots);

$agent = $_SERVER['HTTP_USER_AGENT'];

if (strpos($bots, $agent) === false){
    //not bot
    if(isset($_SERVER['HTTP_REFERER'])){
        $ref = $_SERVER['HTTP_REFERER'];
        //$ref = parse_url($ref);
        //$ref = $ref['host'];
    }

    $ip = $_SERVER['REMOTE_ADDR'];
    if(!empty($_SERVER['HTTP_CLIENT_IP'])) {
        $ip = $_SERVER['HTTP_CLIENT_IP'];
    }elseif (!empty($_SERVER['HTTP_X_FORWARDED_FOR'])) {
        $ip = $_SERVER['HTTP_X_FORWARDED_FOR'];
    }

    // check if multiple ips exist
    if (strpos($ip, ',') !== false)
    {
        $iplist = explode(',',$ip);
        $ip = trim($iplist[count($iplist)-1]);
    }
}
```

```

$date = new DateTime();
$date = $date->format('Y-m-d H:i:s');

$page = $_SERVER['REQUEST_URI'];

//save to database
if(!empty($page) %26;%26; !empty($ip)){
    savetodb($page,$ref,$ip,$date);
}
}
?>

```

statdb.php

```

<?php
//error_reporting(E_ALL);
//ini_set('display_errors', '1');

function savetodb($page,$ref,$ip,$date){
    $components = explode('/', trim($_SERVER['DOCUMENT_ROOT'], '/'));
    $dbfile = './'.$components[0].'/'.$components[1].'/'. 'dbconfig.php';
    include_once($dbfile);

    $dbcon = new PDO('mysql:host=mysql.liberpaper.com;dbname=lbrpprdb', $USER_NAME, $USER_PWD,
array(PDO::ATTR_ERRMODE => PDO::ERRMODE_EXCEPTION));
    $handle = $dbcon->prepare('INSERT INTO visitor (page,ref,ip,date) VALUES (?, ?, ?, ?)');
    $handle->execute([$page,$ref,$ip,$date]);
}
?>

```

Explanation

The `$_SERVER['HTTP_USER_AGENT']` could help determine whether it is a real human or a bot that visits our site. This alone is actually not enough. Bad bots will escape detection. However, we can make it better in the future.

The `$_SERVER['HTTP_REFERER']` gives the information about the address of the page which referred the visitor to the current page.

To obtain the IP address of the visitor, we use the `$_SERVER['REMOTE_ADDR']`. However, as the user may sit behind a proxy, we also use `HTTP_CLIENT_IP` and `HTTP_X_FORWARDED_FOR`. The result is the program might obtain multiple IPs of proxies. In the script above, we only log the last IP in the list.

In the second file, `statdb.php`, the information about the visitor is saved to a database.

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