

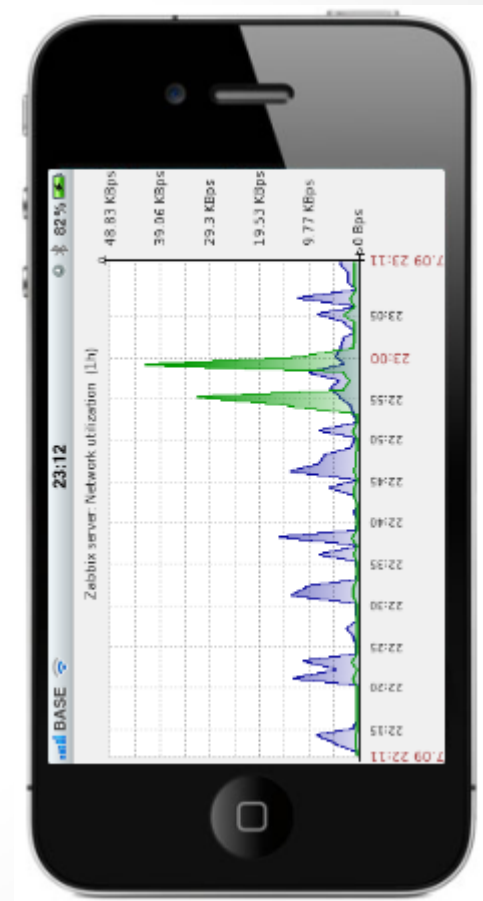
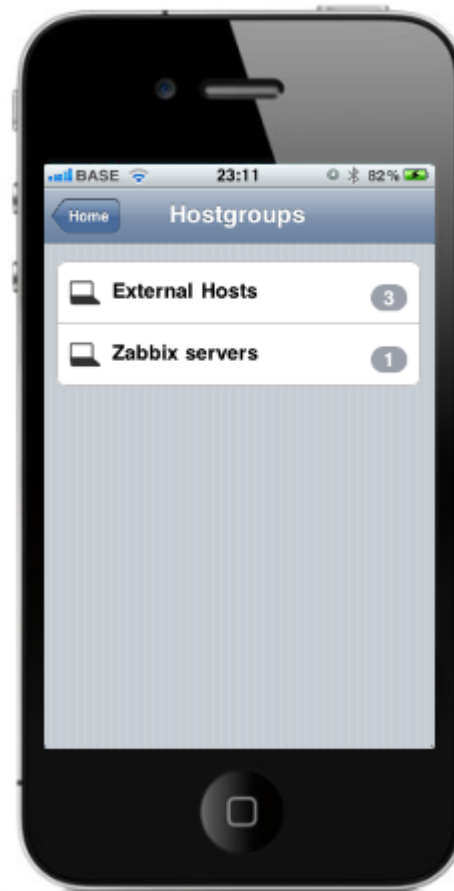
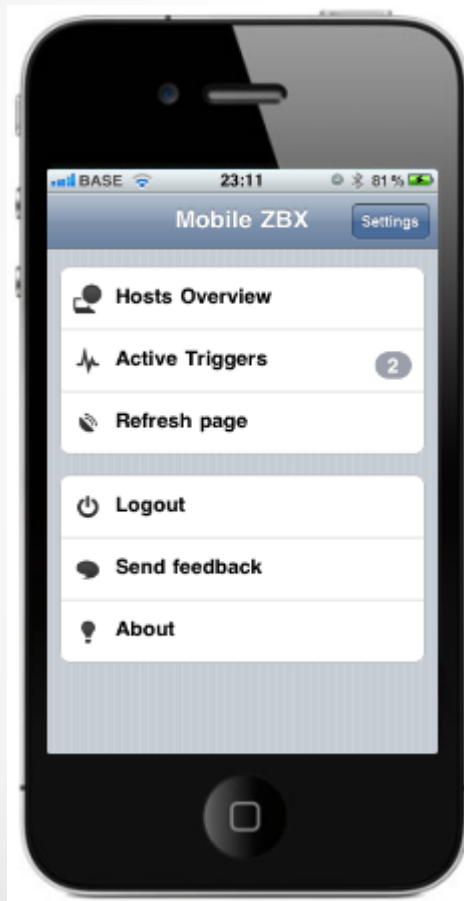
# Why Mobile Matters

Oh hai graphs on your smartphone!

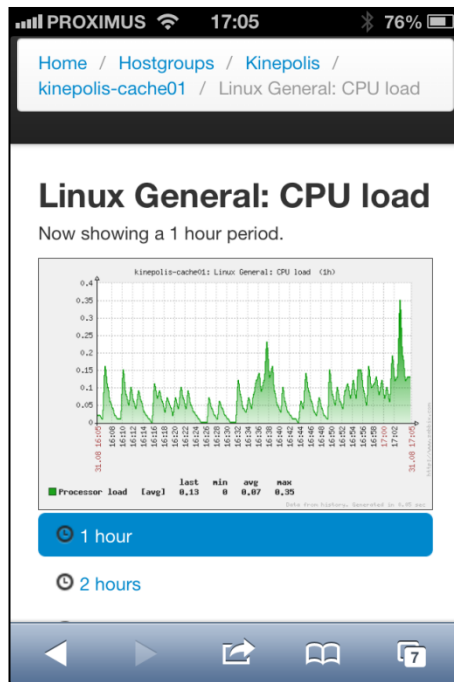
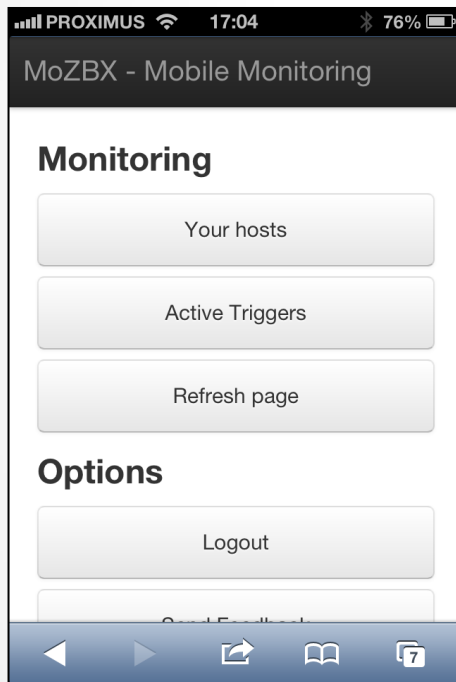
# Who am I?

- Geek
- Developer
- Automater
- DevOps at Nucleus.be
- Blogger at <http://mattiasgeniar.be>

# What is MoZBX?



# New UI



Home / Active Triggers / switchport 13 is down

**.nucleus.be:**

### switchport 13 is down

**Host details**

Host: [redacted]  
DNS: [redacted]  
IP: [redacted]

**Trigger details**

Description: switchport 13 is down  
Comment: Switchport 13 is down.

**Events**

No events were found for this trigger.

PROXIMUS 17:06 75%

# Why mobile?



# Challenges



# Limited resources



# Too many devices

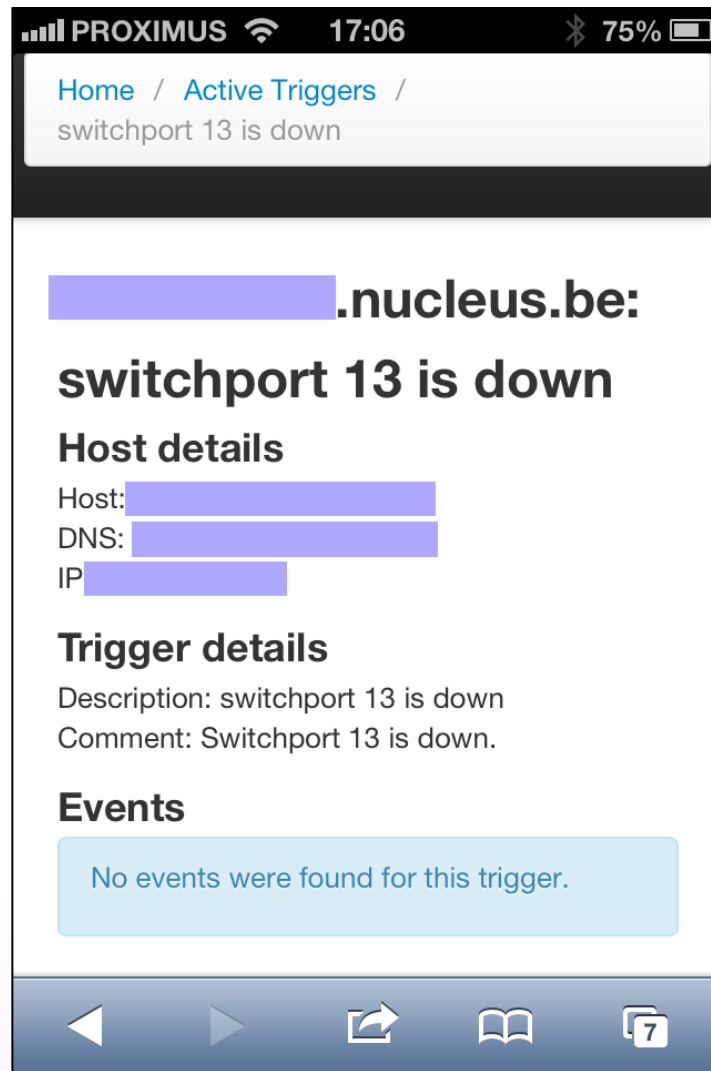




# First: UI Framework: jqTouch



# Now: Twitter Bootstrap



# Own PHP API

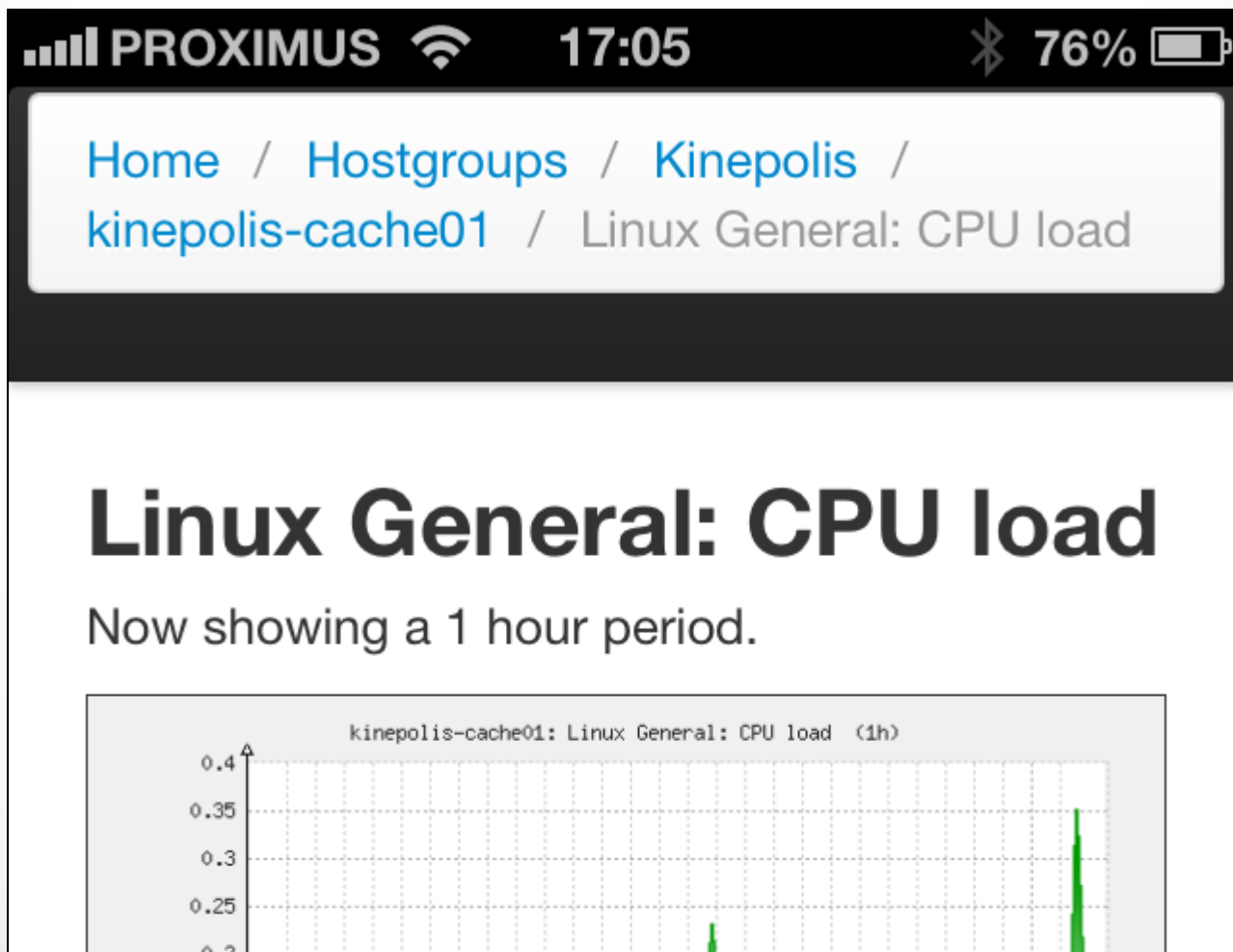
~ 750 lines of PHP code for the Zabbix Class  
Very easy PHP, simple OO

Features only the most common tasks

- Get hosts / hostgroups
- Get triggers, ack triggers
- View graphs

Why? No choice back then.

# Easier navigation



# Prettier forms

PROXIMUS 17:07 75%

(query\_cache\_size) has a size of 0MB, this effectively disables the MySQL query cache. You may want to consider tuning the query cache for increased performance.

### Acknowledge event

Acknowledge

Please describe why you're acknowledging this event.

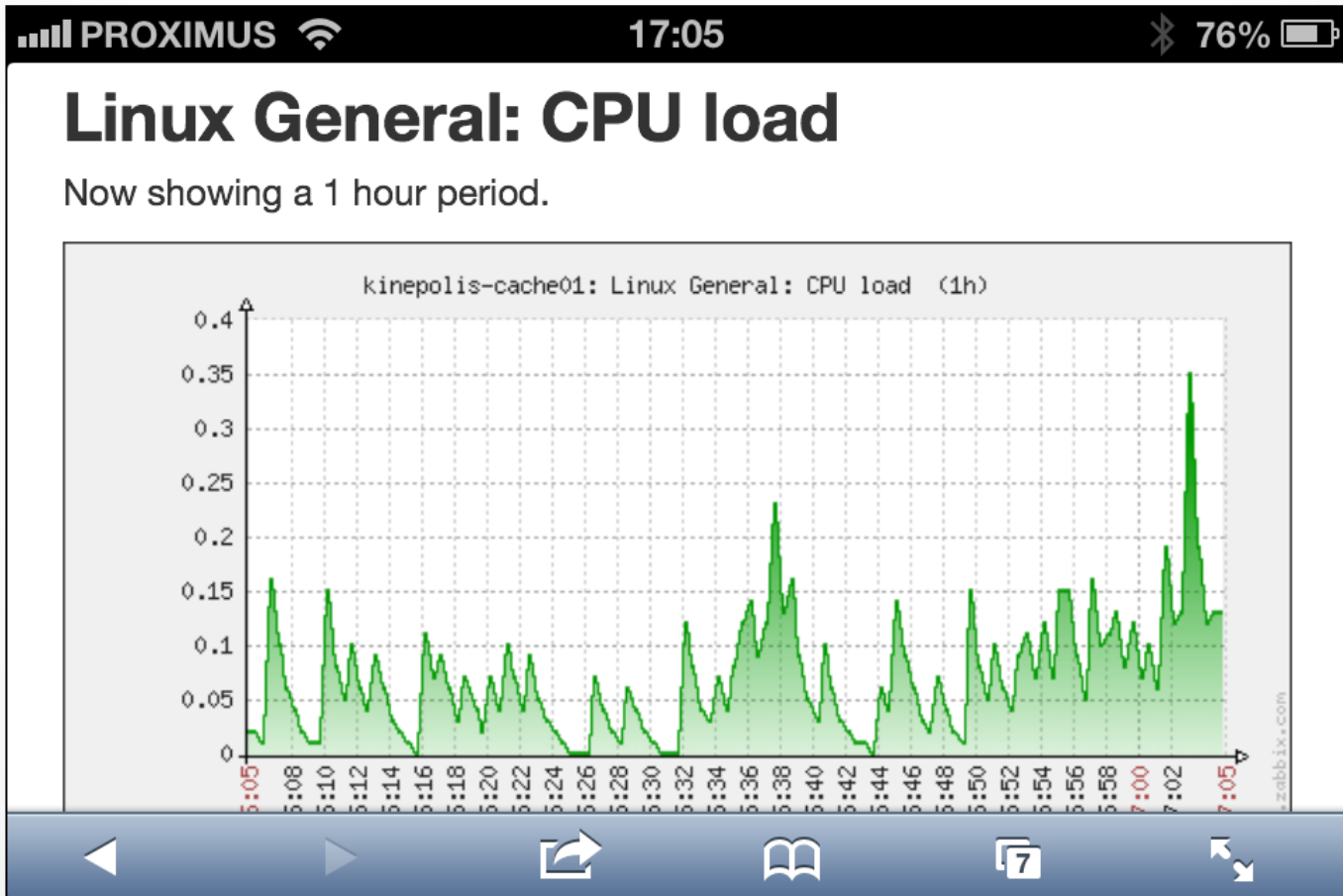
**Acknowledge**

### Events

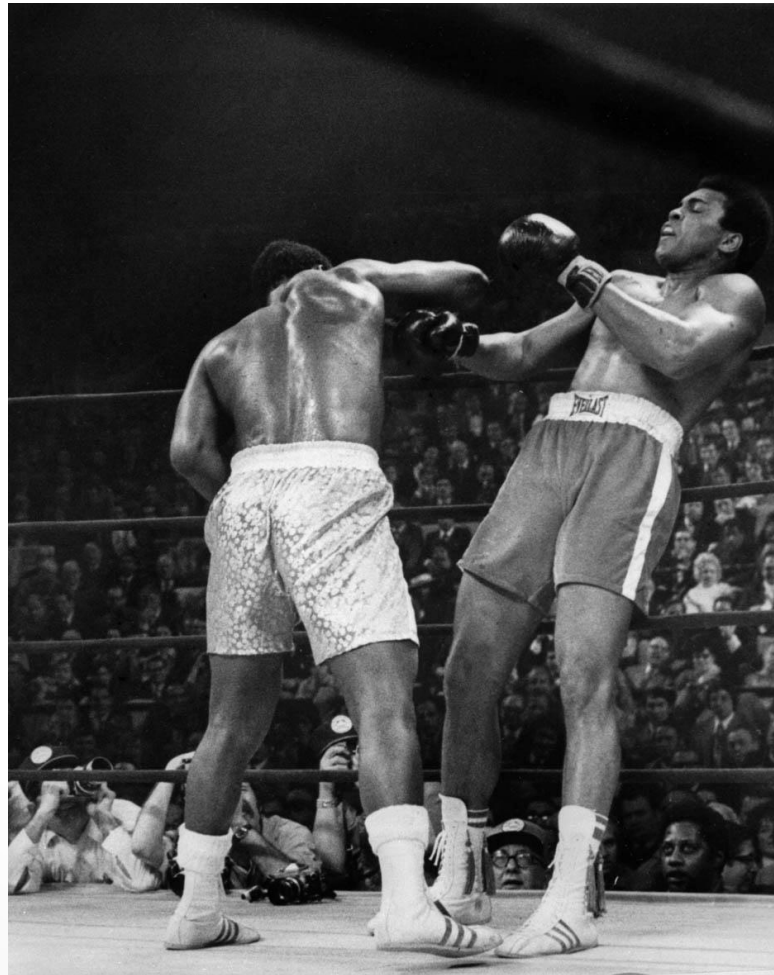
- 09/07, 11:07:38: Problem
- 09/07, 11:05:01: Acknowledged
- 18/06, 12:05:43: Problem (lasted 1810758 seconds)

Navigation icons: back, forward, share, book, notifications (7)

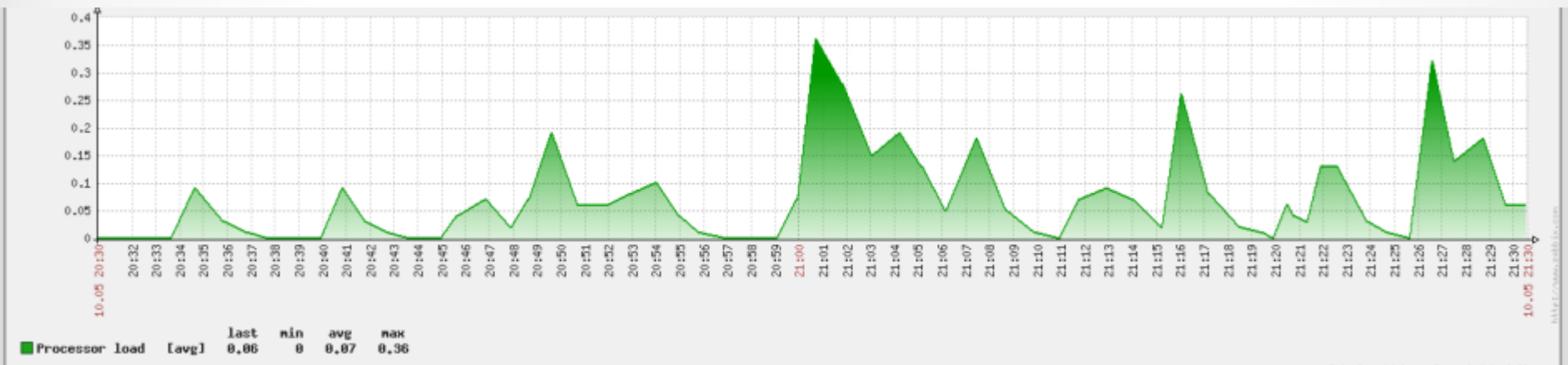
# Same graphs



# App vs Mobile Site



# Hacking graphs





# Fetching with cURL

```
497 public function getGraphImageById($graphid, $period = 3600)
498 {
499     global $arrSettings;
500
501     // Cookiename
502     $filename_cookie = $this->zabbix_tmp_cookies . "zabbix_cookie_" . $graphid . ".txt";
503
504     $ch = curl_init();
505     // Add the URL of Zabbix to perform the login to
506     curl_setopt($ch, CURLOPT_URL, $this->zabbix_url_index);
507     // Get the value returned from our curl-call, don't default to stdout
508     curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
509     // Send a POST request
510     curl_setopt($ch, CURLOPT_POST, true);
511     // Increase verbosity for debugging
512     curl_setopt($ch, CURLOPT_VERBOSE, true);
513     // Don't validate SSL certs as most Zabbix installs that have an SSL connection are self-signed
514     curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, FALSE);
515     // Lighttpd expects this header
516     curl_setopt($ch, CURLOPT_HTTPHEADER, array('Expect:'));
517
518     if ($this->getVersion() == '1.4') {
519         /* API Version 1.4 = Zabbix 2.0+ */
520         $post_data = array(
521             'name' => $this->getUsername(),
522             'password' => $this->getPassword(),
523             'autologin' => 1,
524             'request' => '', /* Why is this empty? Zabbix requires it? */
525             'enter' => 'Sign in', /* Zabbix also checks the value of this string ... */
526         );
527     } else {
528         $post_data = array(
```

Retrieve graphs via API

Please. 😊

# Zabbix 1.8 vs 2.x



# API changes

```
... @@ -199,7 +199,7 @@ public function getVersion() {  
199 199  
200 200     public function getHostgroups() {  
201 201         // Retrieve all hostgroups for which you have access  
202 -         $result = $this->sendRequest("hostgroup.get", array("extendoutput" => 1));  
202 +         $result = $this->sendRequest("hostgroup.get", array("output" => "extend"));  
203 203         //$result      = $this->decodeJson($json_hostgroups);  
204 204  
205 205         if (isset($result->result)) {
```

# Double Code

```
269 public function getHostById($hostid)
270 {
271     if ($this->getVersion() == '1.4') {
272         /* Zabbix 2.x compatible */
273         $result = $this->sendRequest("host.get",
274             array(
275                 "output" => "extend",
276                 "hostids" => array($hostid),
277                 "selectInterfaces" => "extend",
278             )
279         );
280     } else {
281         /* Zabbix 1.8 compatible */
282         $result = $this->sendRequest("host.get",
283             array(
284                 "output" => "extend",
285                 "hostids" => array($hostid),
286             )
287         );
288     }
289
290     if (isset($result->result)) {
291         $host_object = $result->result;
292
293         if (array_key_exists(0, $host_object))
294             return $host_object[0];
295         else
296             return false;
297     }
298 }
```

# Installation

```
$ cd /var/www/html/
```

```
$ wget https://github.com/mattiasgeniar/MoZBX/zipball/master
```

```
$ unzip mattiasgeniar-MoZBX-*.zip
```

```
$ curl -I "http://localhost"
```

```
HTTP/1.1 200 OK
```

Hosted version

[www.mozbx.net](http://www.mozbx.net)

# Why I do it?

Sent: za 27/08/2011 16:44

To: 'm@ttias.be'

---

Hey Mattias,

Ter info, uw Mobile Zabbix frontend wordt nu ook gebruikt op een hospitaal schip:

[www.mercyships.org](http://www.mercyships.org)

[www.mercyships.be](http://www.mercyships.be)

mvg,

Johan



# TODO

Or more fancy: the roadmap



# TODO

Better git commits? 😊



**Changed logout to actually work now.**

mattiasgeniar authored a year ago

9aed67a4f0



Browse code ➔

# Expand host view





PROXIMUS 17:08 75%

## kinopolis-cache01

### Host details

Host: kinopolis-cache01  
DNS:  
IP: [188.93.155.227](#)

### Graphs


-  [Linux General: CPU load](#)
-  [Linux General: CPU time](#)
-  [Linux General: Disk inodes free](#)
-  [Linux General: Disk usage](#)

# HTML



# Contribute?

- Issue tracker

No active filters. Use the sidebar to filter issues. Keyboard shortcuts available 

**7 open issues** | 26 closed issues | Submitted | Updated | Comments

Close | Label ▾ | Assignee ▾ | Milestone ▾

- #27 **Host-view: show multiple DNS/IP entries if present**  
by mattiasgeniar 5 months ago
- #20 **International characters (non UTF8) displayed incorrectly**  
by mattiasgeniar a year ago
- #13 **Filter active triggers list by ACK or NACK**  
by mattiasgeniar 2 years ago
- #11 **Show configured items + their graphs per host**  
by mattiasgeniar 2 years ago
- #10 **Show latest fired triggers**  
by mattiasgeniar 2 years ago
- #8 **Distributed Monitoring: server selection**  
by mattiasgeniar 2 years ago
- #7 **Don't cast hostids to INT in Distributed Monitoring setup**  
by mattiasgeniar 2 years ago

7 open issues in this view

# Contribute?

- Source: <https://github.com/mattiasgeniar/MoZBX>
- -> could use: patches, new features, ... It's simple PHP!

# Contribute?

- More UI testing: need more phones

# Contribute?

- Interested?
- > Twitter: @mattiasgeniar
- > E-mail: m@ttias.be



The image features a classic Looney Tunes ending screen. It consists of a series of concentric circles in shades of red and black, creating a tunnel-like effect. In the center, the text "That's all Folks!" is written in a white, elegant cursive font. The text is slightly tilted and positioned over the central dark blue circle.

*That's all Folks!*