

Extending Zabbix using the API

A real world example

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The zabbix API is still quite new, but already quite powerful. This presentation will show you one of many uses for it. Be inspired!

Who am I?

- Walter Heck, 30 years old
- Ex-Delphi programmer
- Location independent
- MySQL Consultant for Open Query
- Narcoleptic
- Traveler / hitchhiker / couchsurfer / diver / hiker / geek / environmentalist / metalhead

- Server monitoring as a service (SMaaS)
- Role = 1 or more templates
- Template is either an App, OS, or hardware
- Self-defined Restrictions
 - Active only hosts
 - 1 User \Leftrightarrow 1 Hostgroup \Leftrightarrow 1 Usergroup
 - Zabbix permissions read-only
 - All writes done through Drupal module

- Custom module written in PHP, started from scratch
- Fully Open Source: <http://github.com/tribily>
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- Currently 1.8.2, but API is young and buggy, imminent upgrade to 1.8.8
- Interfacing using PHP API class by Andrew Farley
- Only admin user has API permissions turned on

- Login first, PHP API will check

```
// This logs into Zabbix, and returns FALSE if it fails  
return ZabbixAPI::login($API_url, $API_user, $API_pass);
```

- Then execute your method

```
$trigger = ZabbixAPI::fetch_array('trigger', 'get', $options)  
  
or drupal_set_message('Unable to get zabbix triggers: ' .  
serialize(ZabbixAPI::getLastError(), TRUE), DRUPAL_MSG_TYPE_ERR);
```

- Create zabbix user, usergroup and hostgroup on creation of drupal user
- Create hosts (no IP or DNS, status monitored)
- Assign templates based on roles

- Update actions text (hundreds of users, thousands of actions!)
- Configuration options
- Zabbix API credentials

- Using older 1.8.2, so not everything works or is actually transparent, so lots of searching the zabbix frontend source
- Not everything is implemented
- Sometimes delete and re-add works better than update

- Eventually replace frontend altogether (unless it improves massively before that ;)) and pull it into drupal
- Multiple users / usergroups / hostgroups per drupal user
- Daily / weekly / monthly reports

Questions / Feedback ?

The End!



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