Highlights of Zabbix 2.2

ZABBIX 2013 Conference

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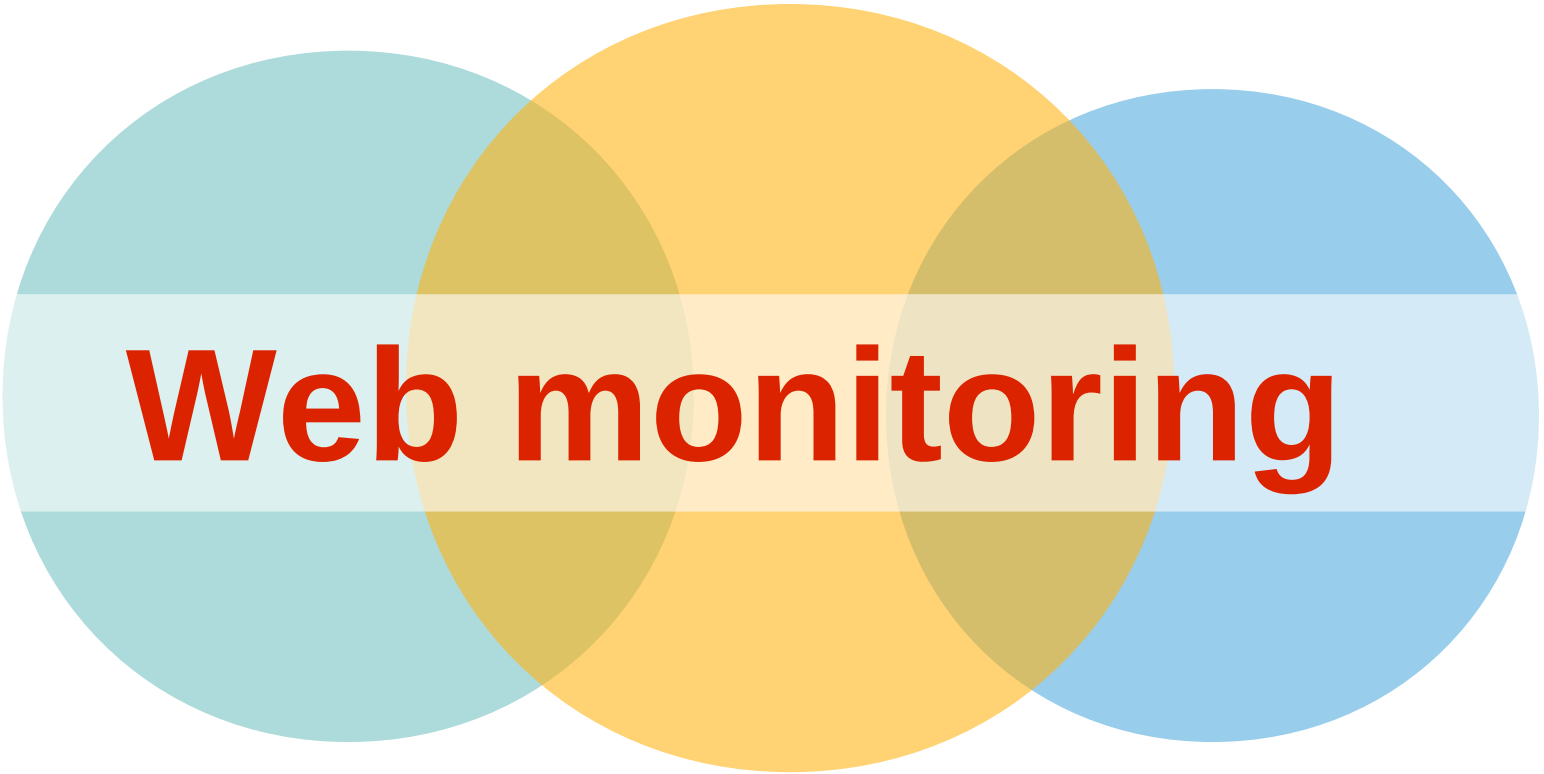
General look and feel

The web interface has become more responsive and intuitive

Server performance and data processing speed has greatly increased


Web monitoring

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Improved web monitoring

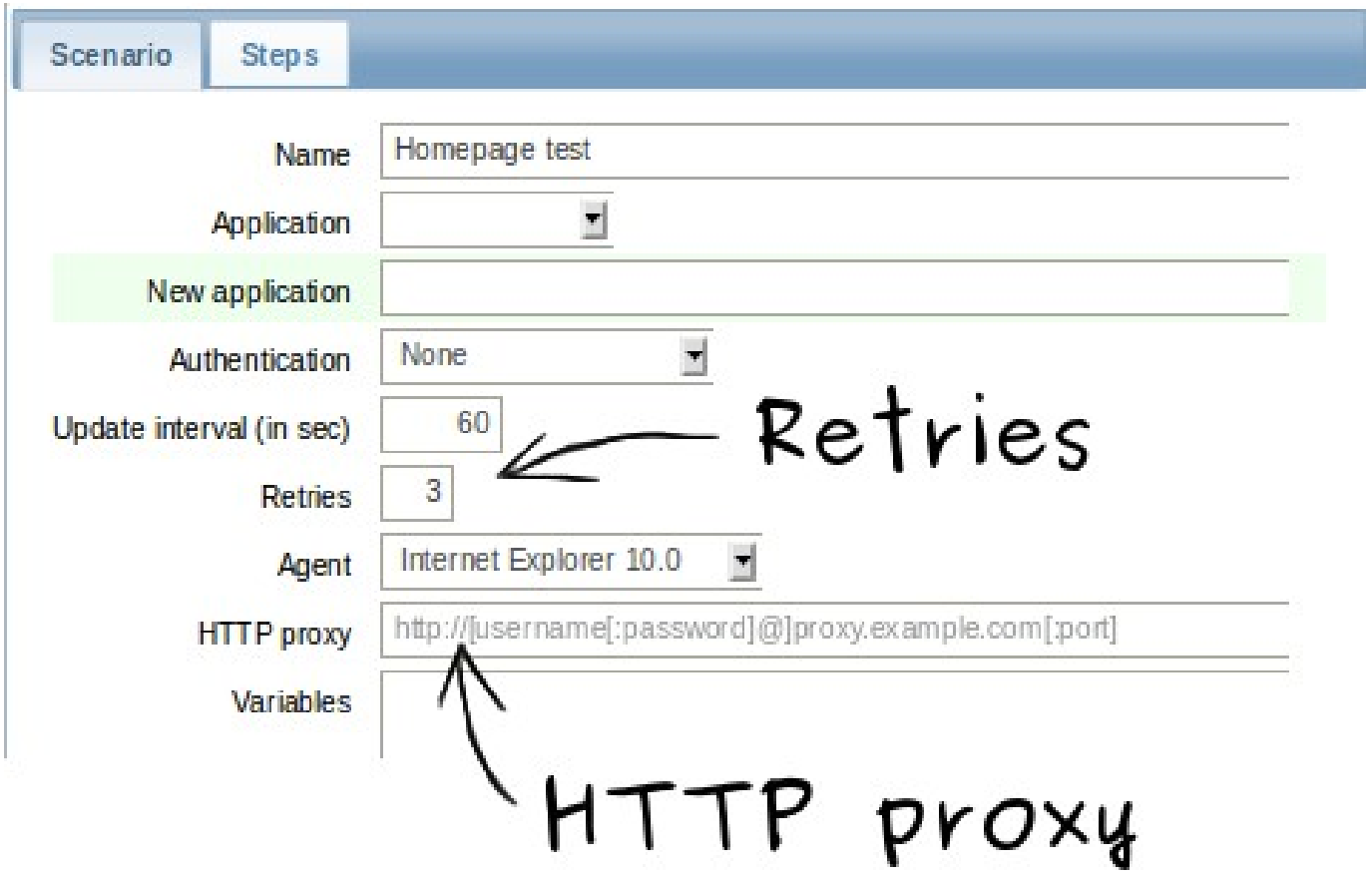
You can now configure web scenarios for hosts and templates

Templates	Applications	Items	Triggers	Graphs	Screens	Discovery	Web	Lin
Template App Agentless	Applications (1)	Items (12)	Triggers (12)	Graphs (0)	Screens (0)	Discovery (0)	Web (0)	-
Template App MySQL	Applications (1)	Items (14)	Triggers (1)	Graphs (2)	Screens (1)	Discovery (0)	Web (0)	-
Template App Zabbix Agent	Applications (1)	Items (3)	Triggers (3)	Graphs (0)	Screens (0)	Discovery (0)	Web (0)	-
Template App Zabbix Proxy	Applications (1)	Items (21)	Triggers (19)	Graphs (4)	Screens (1)	Discovery (0)	Web (0)	-
Template App Zabbix Server	Applications (1)	Items (29)	Triggers (25)	Graphs (5)	Screens (1)	Discovery (0)	Web (0)	-
Template IPMI Intel SR1530	Applications (3)	Items (8)	Triggers (11)	Graphs (2)	Screens (0)	Discovery (0)	Web (0)	-
Template IPMI Intel SR1630	Applications (3)	Items (11)	Triggers (21)	Graphs (2)	Screens (0)	Discovery (0)	Web (0)	-
Template JMX Generic	Applications (8)	Items (47)	Triggers (20)	Graphs (11)	Screens (0)	Discovery (0)	Web (0)	-
Template JMX Tomcat	Applications (5)	Items (32)	Triggers (5)	Graphs (4)	Screens (0)	Discovery (0)	Web (0)	-

Template web scenarios

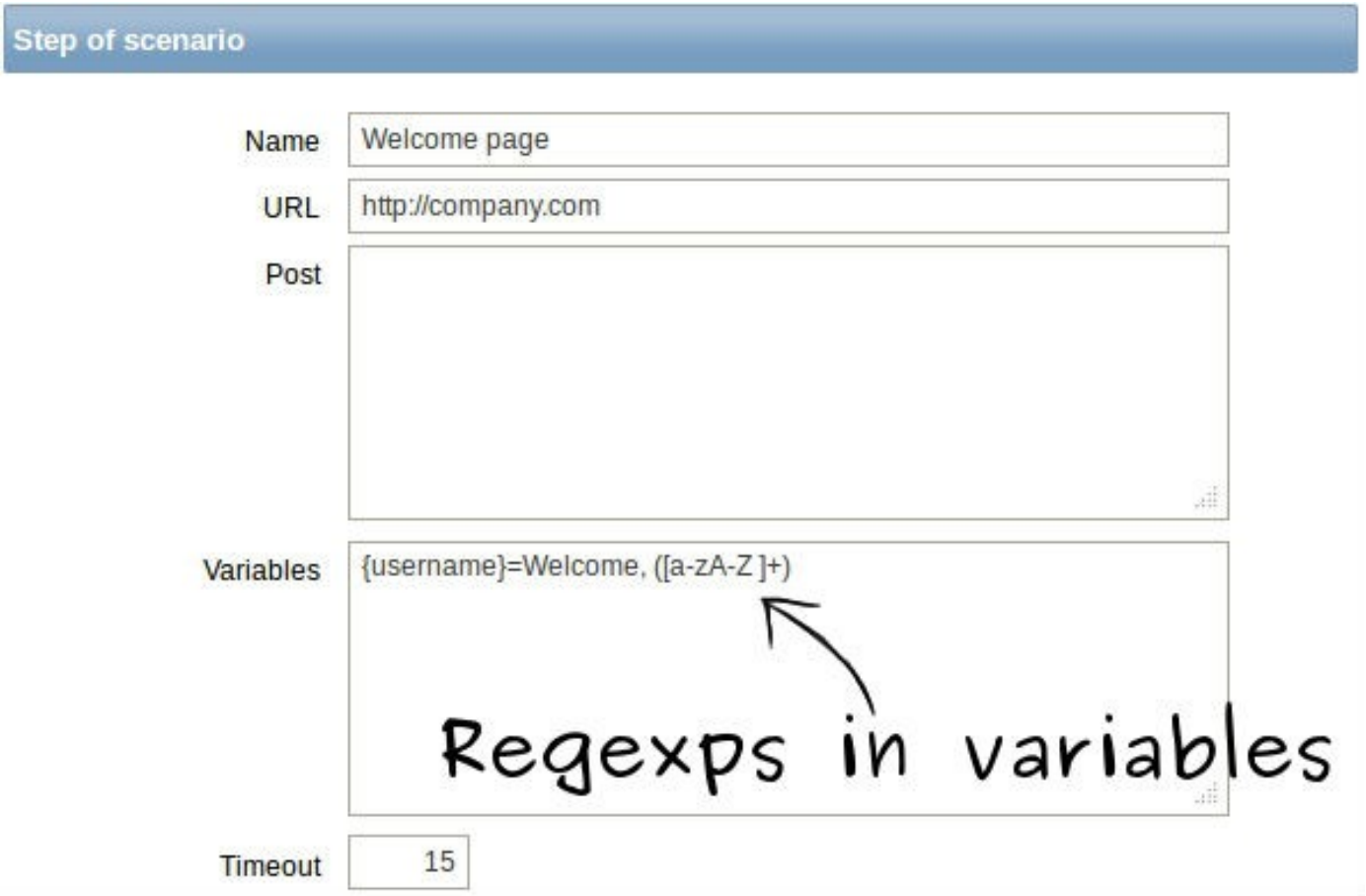
New scenario settings

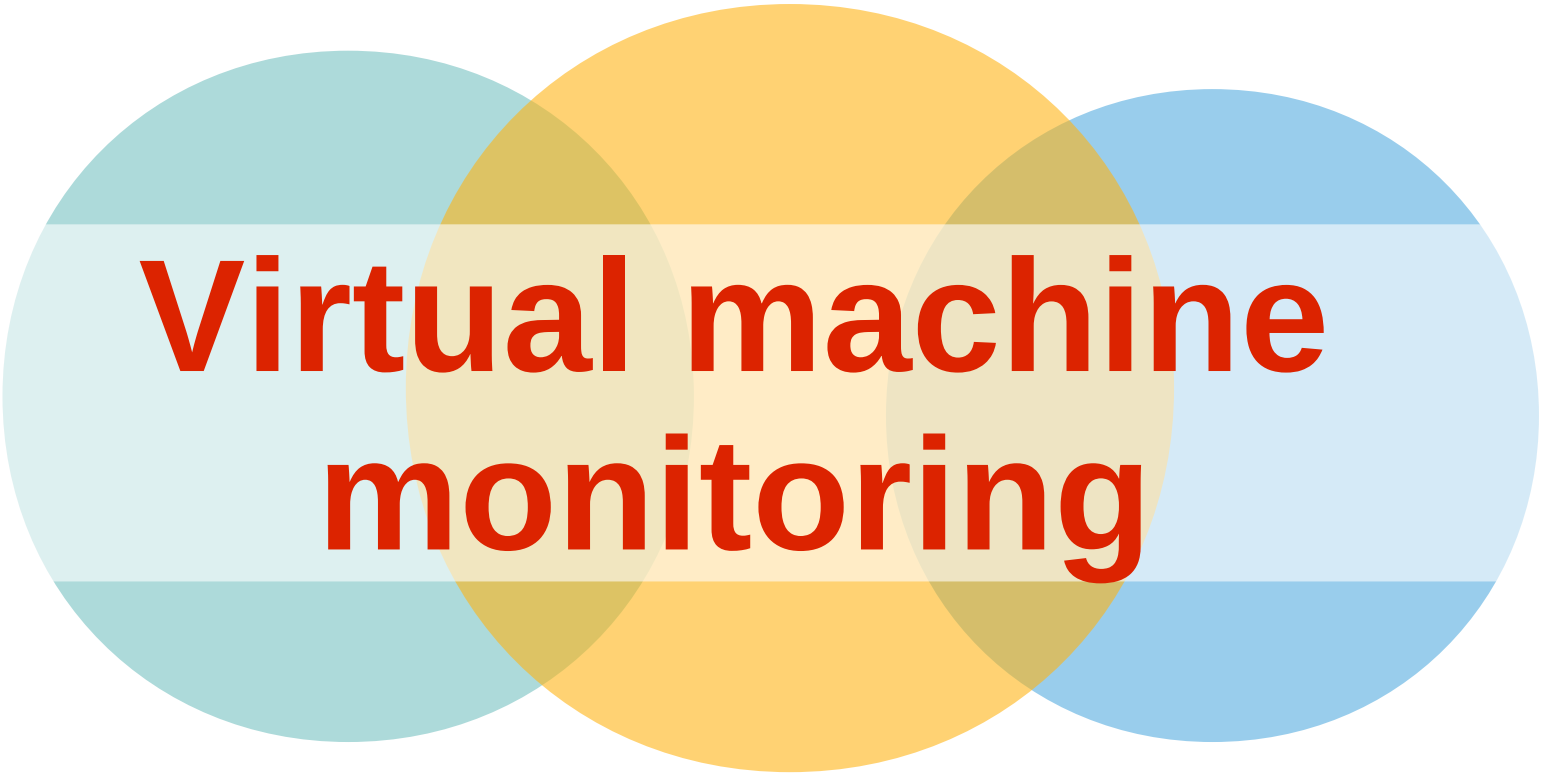
You can set the number of times to run each step and an HTTP proxy to use



Regular expression matching

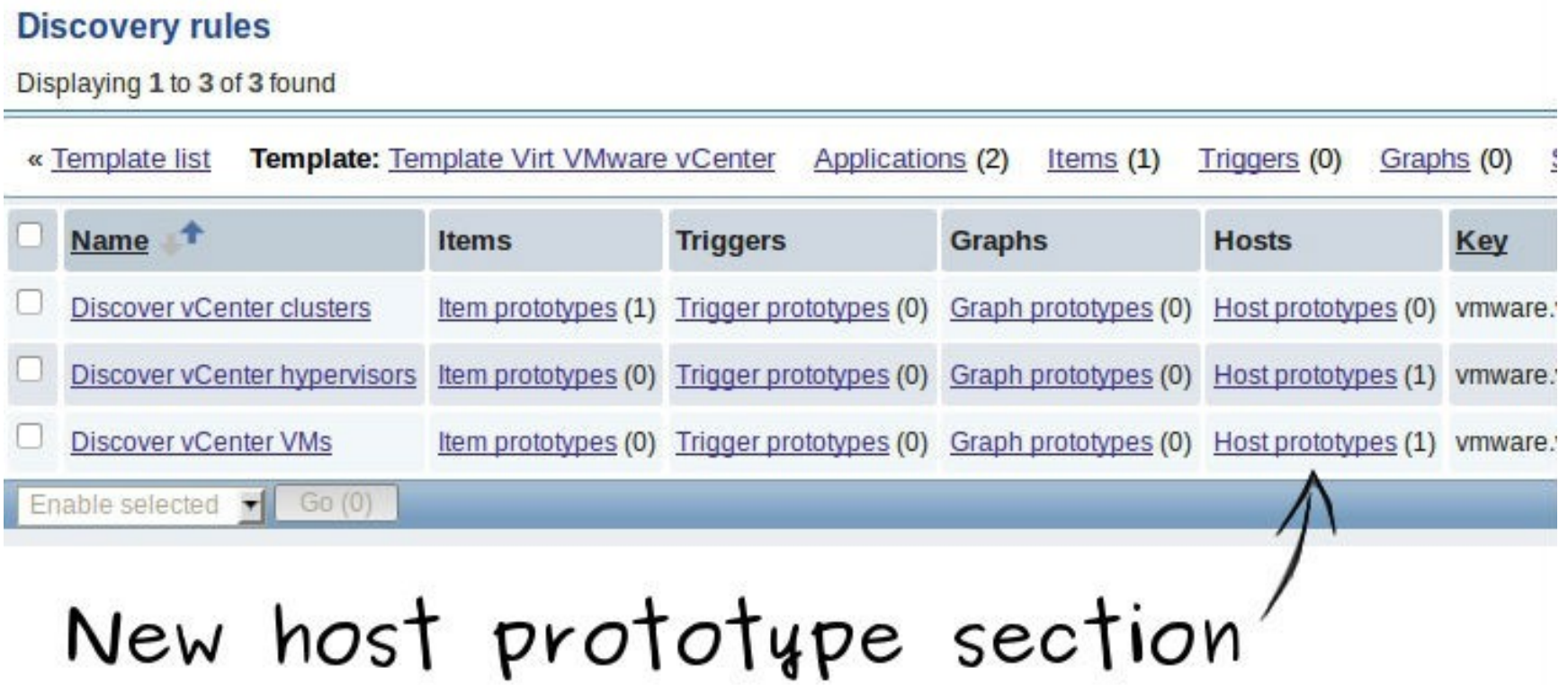
Variables can extract data from the response so it can be used in the following steps




Virtual machine
monitoring

Automatic VM discovery

LLD can be used to automatically discover hypervisors and virtual machines



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Built-in VMware support

You can use a number of built-in checks to monitor your VMware installations

vmware.vcenter.vm.cpu.usage

vmware.vcenter.vm.cpu.num

vmware.vcenter.vm.memory.size.private

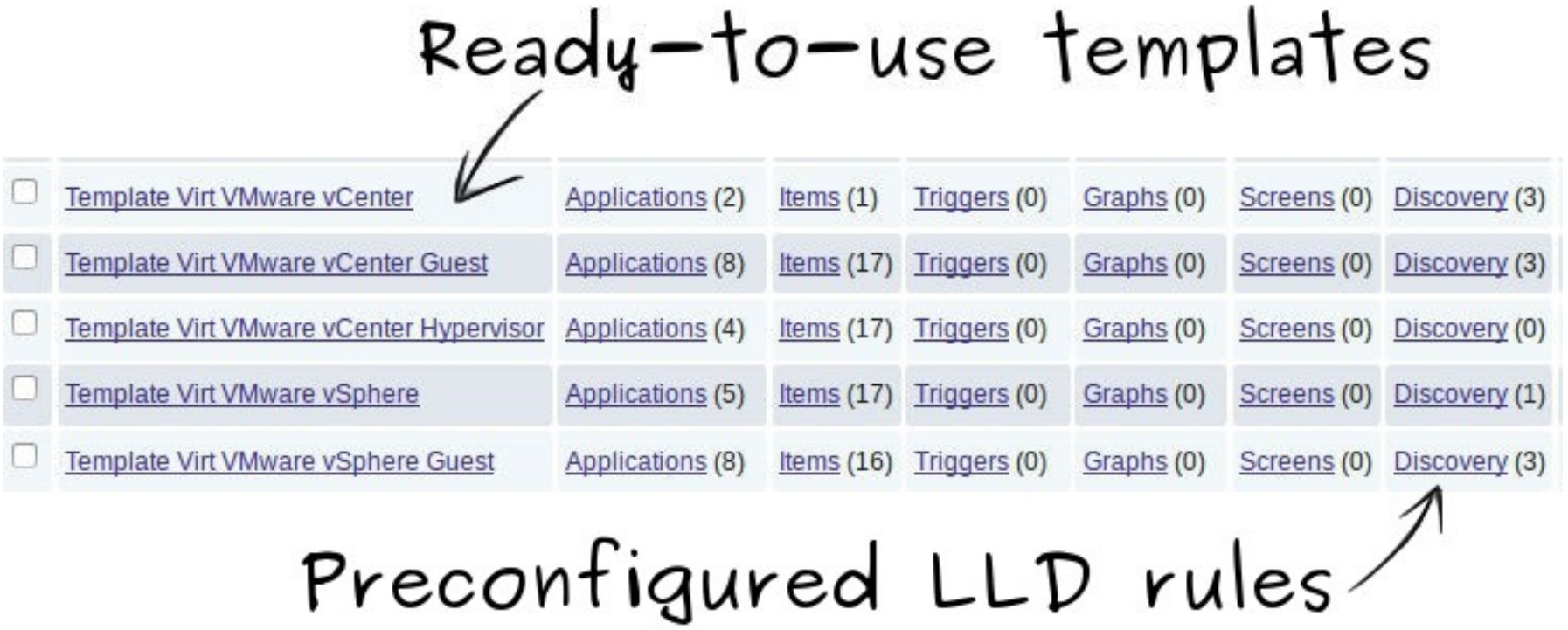
vmware.vcenter.vm.memory.size.ballooned

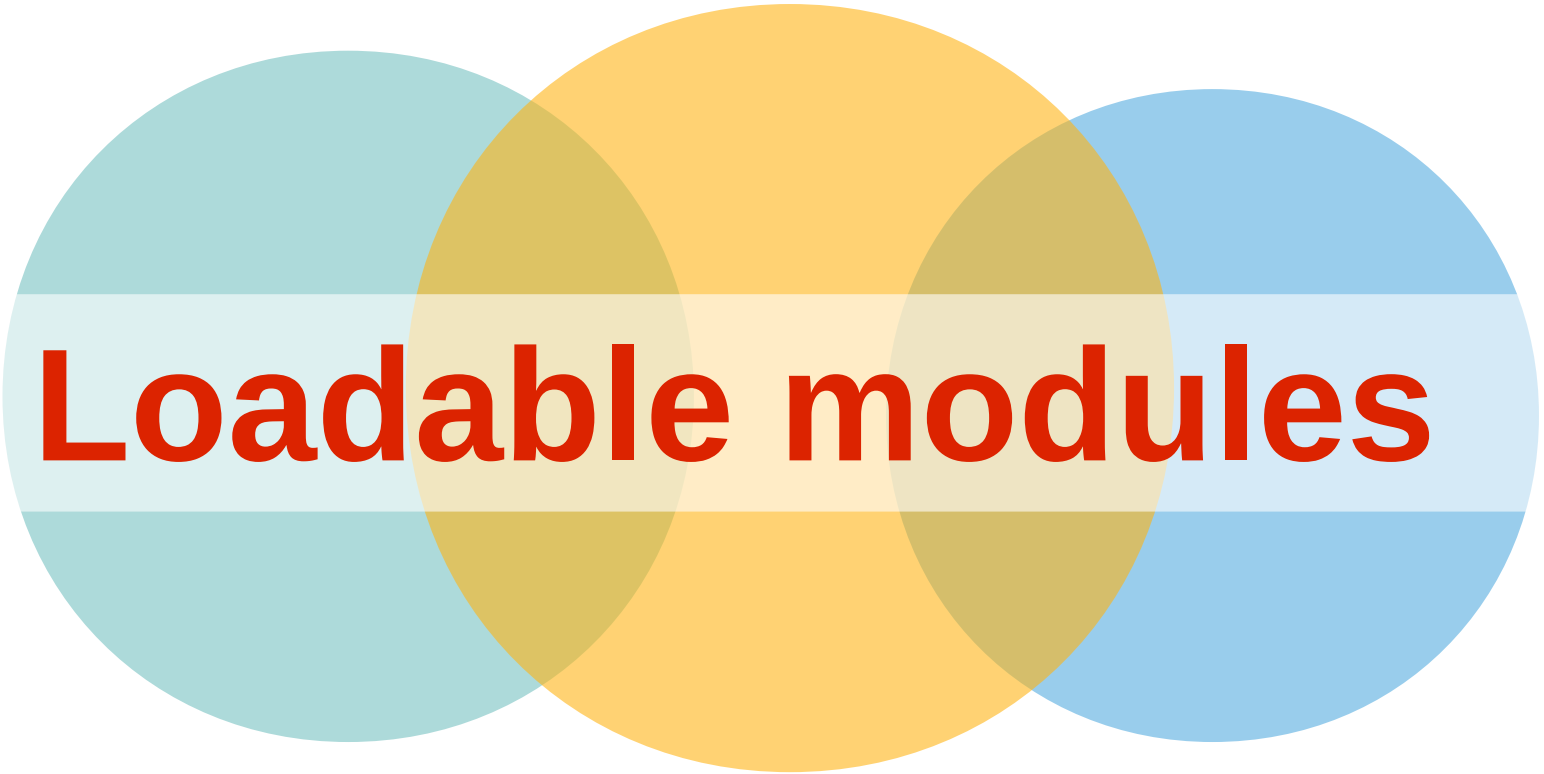
vmware.vcenter.vm.hv.name

vmware.vcenter.vm.uptime

New VMware templates

Zabbix 2.2 comes with a set of templates to monitor VMware vCenters and vSpheres




Loadable modules

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The idea of loadable modules

A faster an more powerful alternative to user parameters and external checks

Modules are libraries written in C used by Zabbix server and agents

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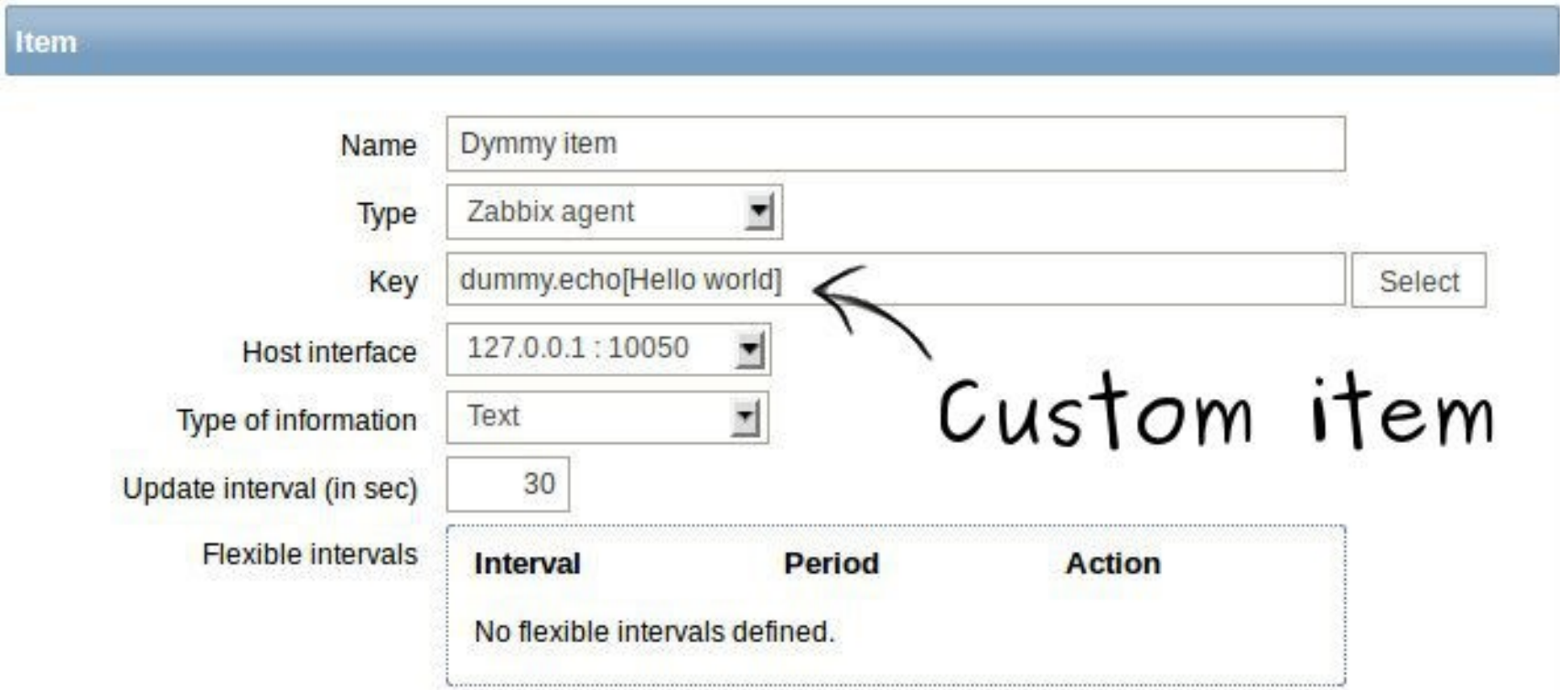
Using modules

Modules are placed in the directory specified by the LoadModulePath parameter and enabled using the LoadModule parameter

```
LoadModulePath=/usr/local/lib/zabbix/agent/
LoadModule=mariadb.so
LoadModule=apache.so
LoadModule=kernel.so
LoadModule=dummy.so
```

Using modules

After restarting the server or agent you can create items that will use the new checks from the modules



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Module structure

Modules are written in C and must implement the following functions:

- A function to run when a module is initialized and shut down
- A function to return the list of supported checks
- A separate function that implements a specific check

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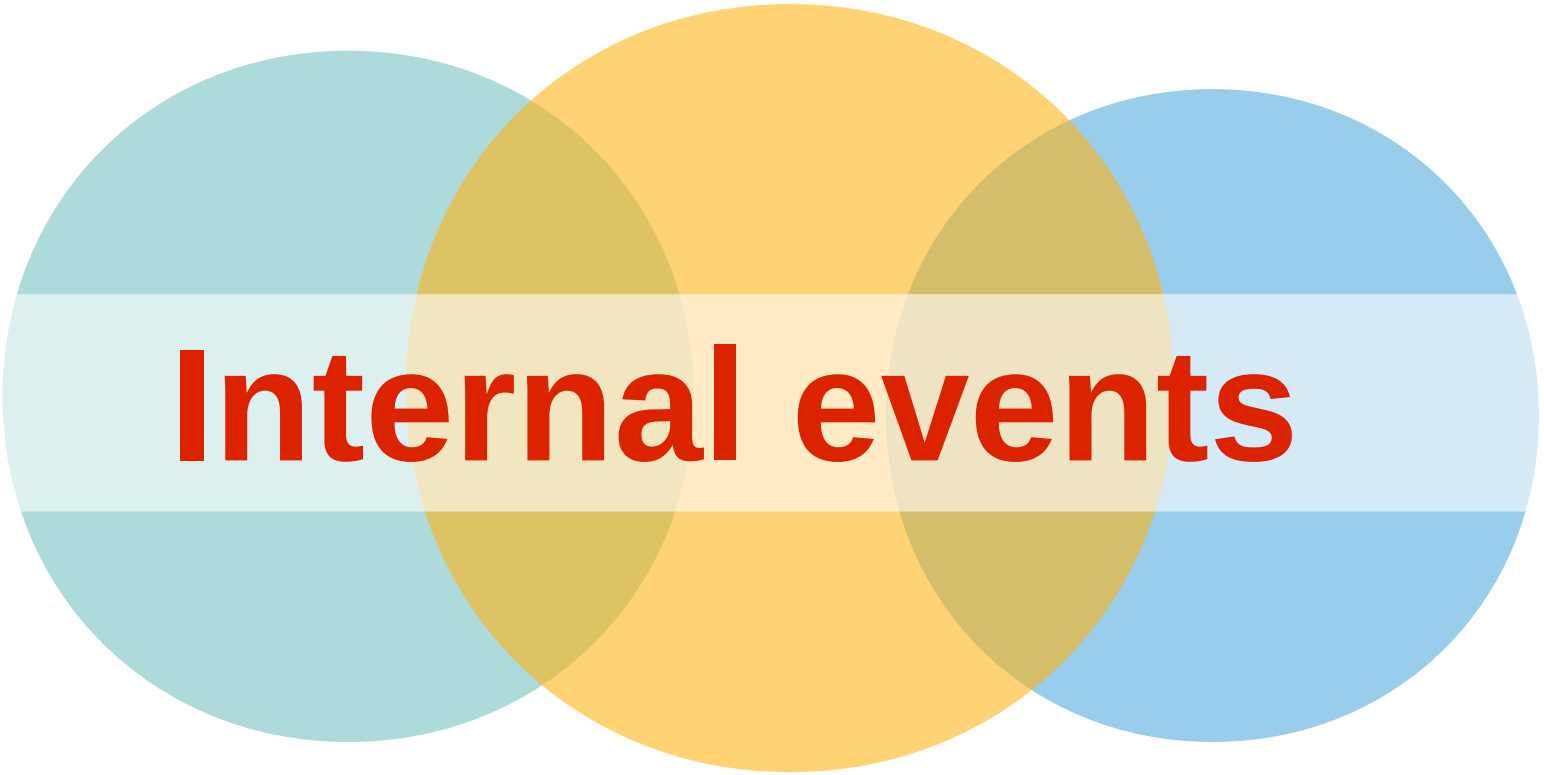
Sharing modules

Modules can and should be developed and shared by the community independently of the Zabbix code base


Internal events

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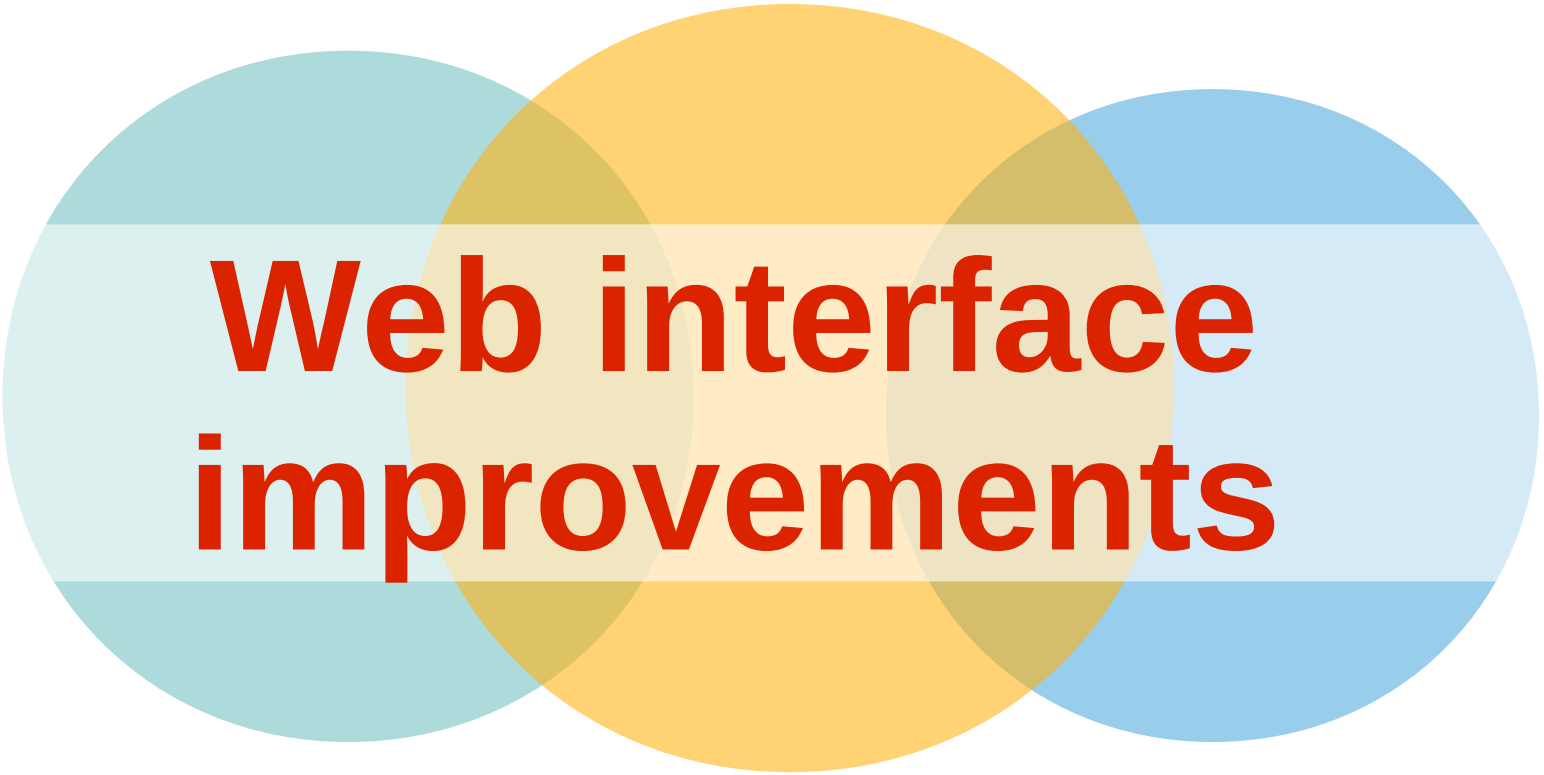
What is an internal event?

Internal events are generated when an item, trigger or low-level discovery rule goes into a “Not supported” or “Unknown” state

Handling internal events

You can configure actions to notify you if an item or trigger stops working


Web interface
improvements

Access to disabled hosts

Users will now have access to historical data of disabled hosts

Host	Name
Zabbix server	**CPU** (13 Items)
Zabbix server	**General** (5 Items)
Zabbix server	**Memory** (5 Items)
Zabbix server	**OS** (8 Items)
Zabbix server	**Performance** (13 Items)
Zabbix server	**Processes** (2 Items)
Zabbix server	**Security** (2 Items)
Zabbix server	**Zabbix agent** (3 Items)
Zabbix server	**Zabbix server** (29 Items)

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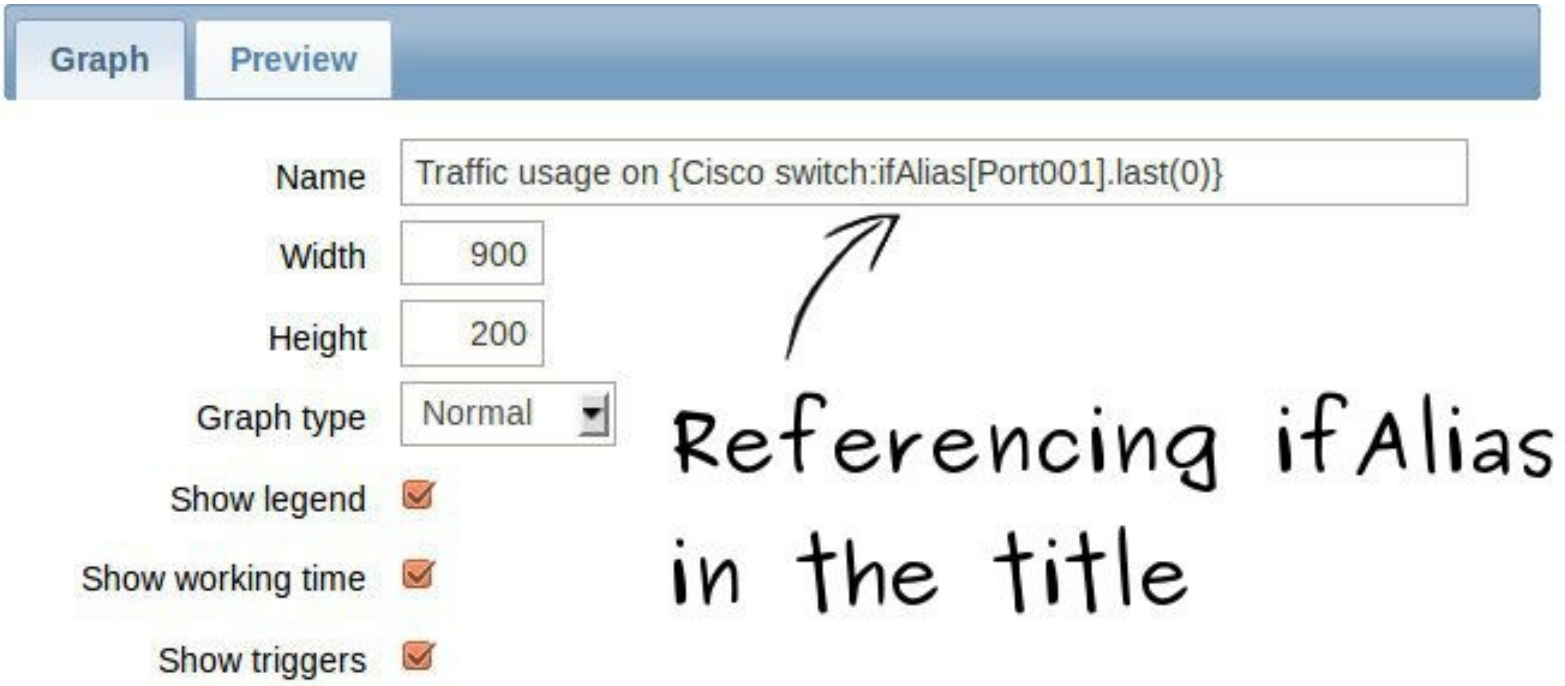
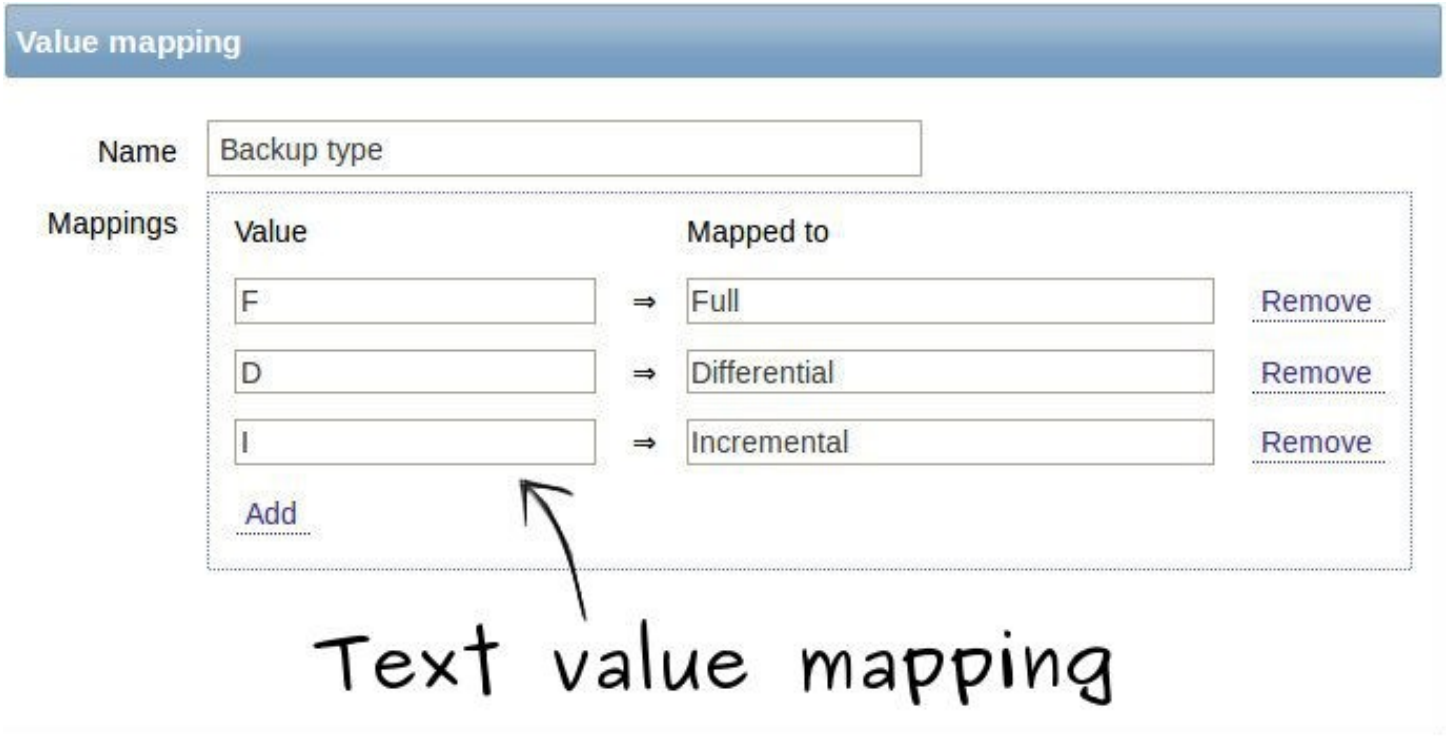
Macros in graph names

Simple macros like {host:key.func(param)} are now supported in graph names



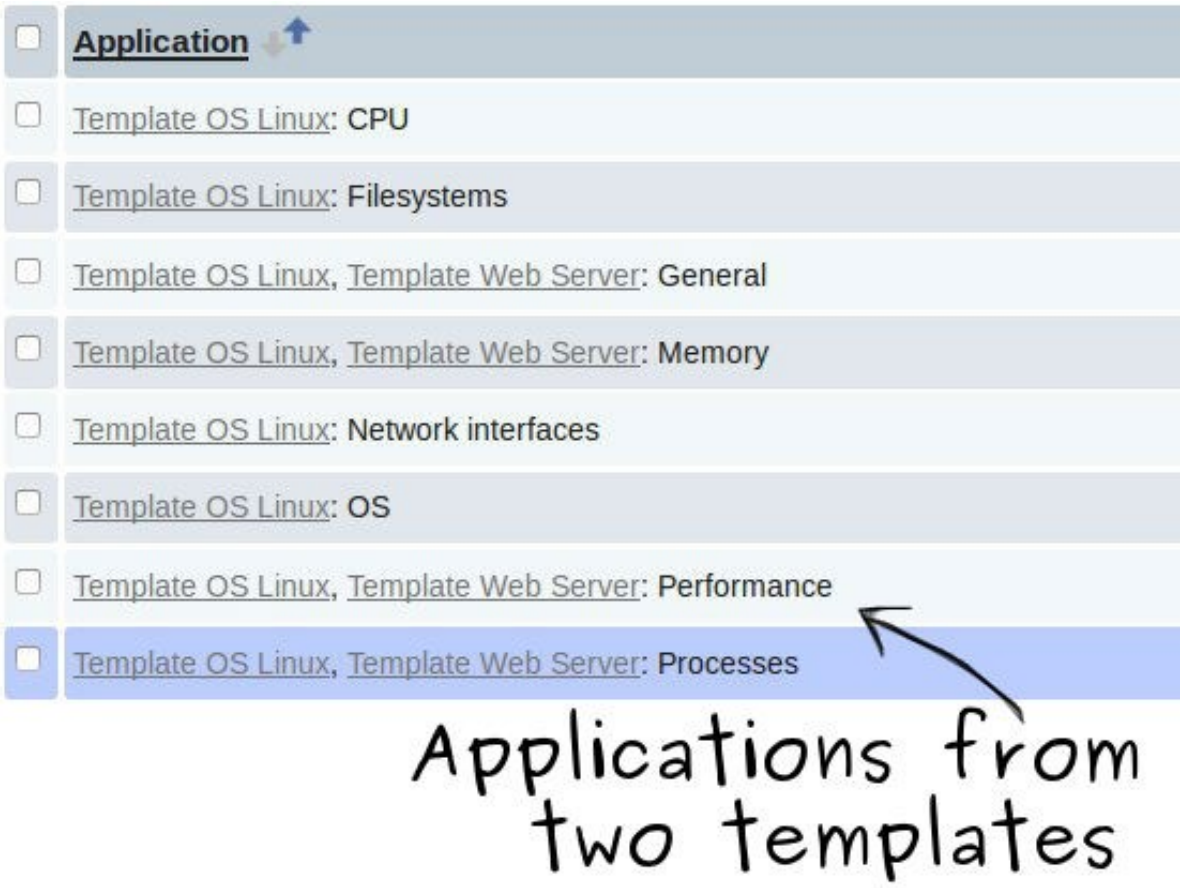
Improved value mappings

Value mappings can now be created for string and float values



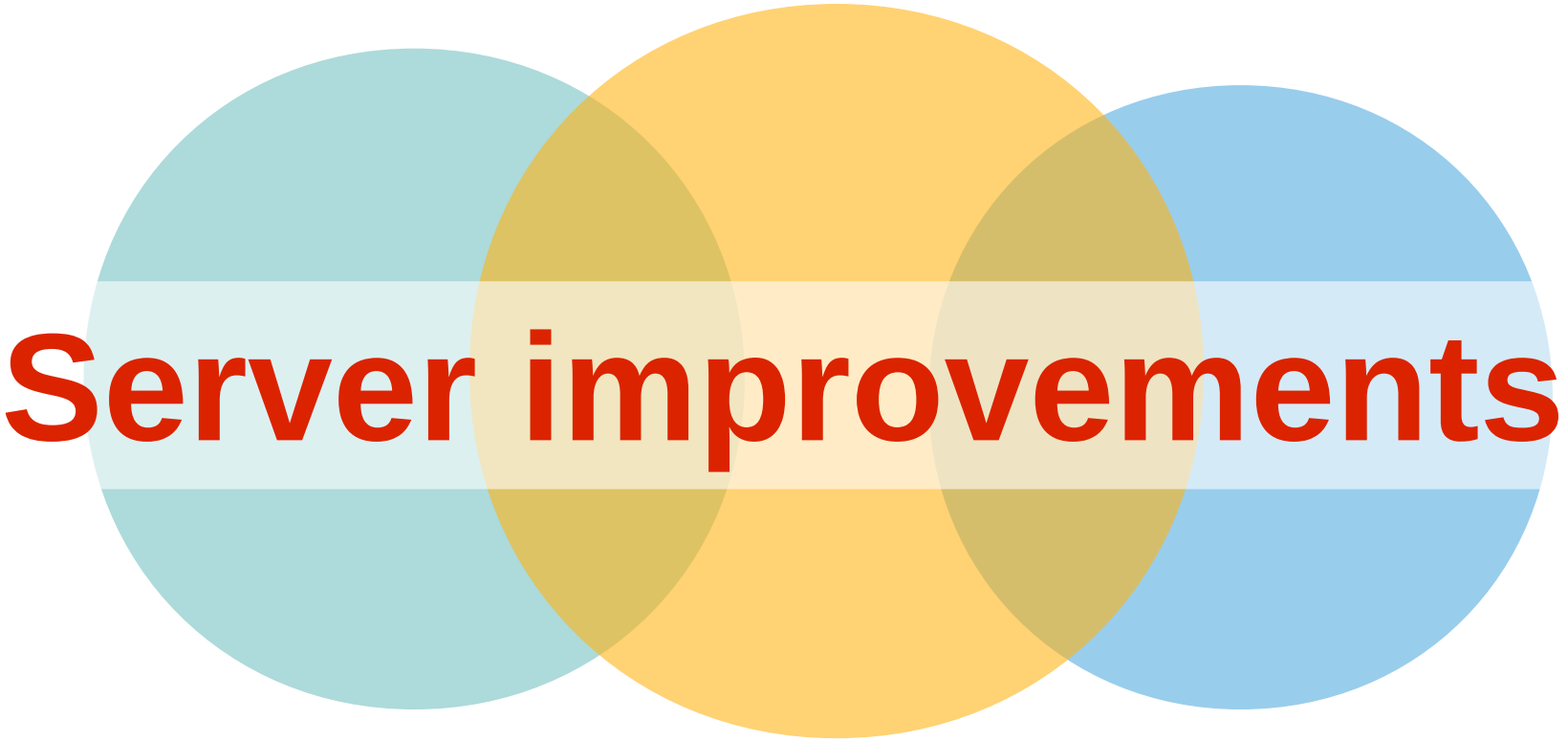
Template applications

You can now link multiple templates with the same application



Better housekeeper control

The housekeeper can now be configured from the web interface


Server improvements

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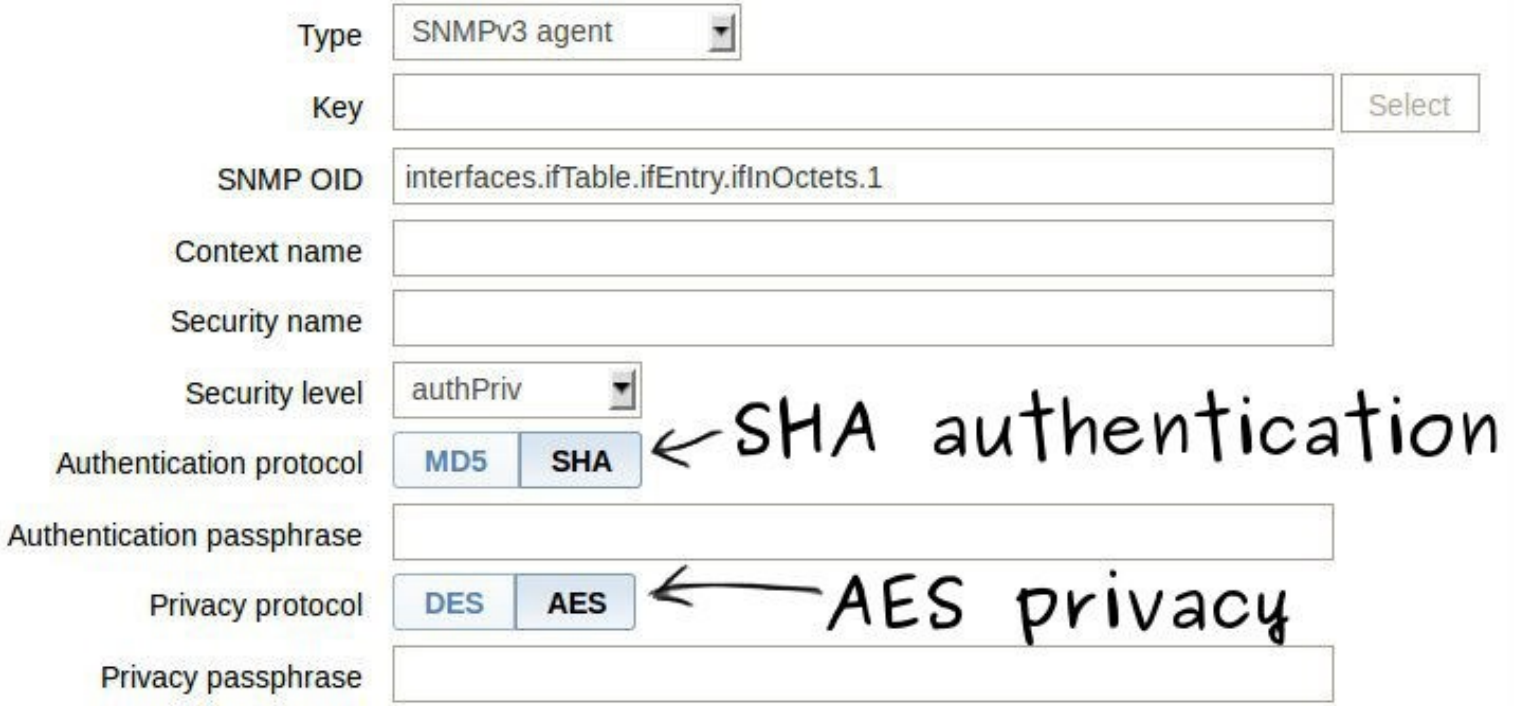
Automatic database upgrades

The database will now be automatically upgraded when starting the Zabbix server

Better SNMPv3 support

SNMPv3 items now support context names, SHA authentication protocol and AES privacy protocol



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Zabbix proxy monitoring

Zabbix 2.2 comes with a set of new checks for monitoring the health of a Zabbix proxy. Some of them are:

- zabbix[proxy_history]
- zabbix[boottime]
- zabbix[host,<type>,available]
- zabbix[hosts]
- zabbix[items]
- zabbix[items_unsupported]

Follow the latest news on Zabbix 2.2 at zabbix.com