2 Inventory

Overview

You can keep the inventory of networked devices in Zabbix.

There is a special *Inventory* menu in the Zabbix frontend. However, you will not see any data there initially and it is not where you enter data. Building inventory data is done manually when configuring a host or automatically by using some automatic population options.

Building inventory

Manual mode

When configuring a host, in the *Host inventory* tab you can enter such details as the type of device, serial number, location, responsible person, etc - data that will populate inventory information.

If a URL is included in host inventory information and it starts with 'http' or 'https', it will result in a clickable link in the *Inventory* section.

Automatic mode

Host inventory can also be populated automatically. For that to work, when configuring a host the inventory mode in the *Host inventory* tab must be set to *Automatic*.

Then you can configure host items to populate any host inventory field with their value, indicating the destination field with the respective attribute (called *Item will populate host inventory field*) in item configuration.

Items that are especially useful for automated inventory data collection:

- `system.hw.chassis[full|type|vendor|model|serial]` - default is [full], root permissions needed
- `system.hw.cpu[all|cpunum|full|maxfreq|vendor|model|curfreq]` - default is [all,full]
- `system.hw.devices[pci|usb]` - default is [pci]
- `system.hw.macaddr[interface,short|full]` - default is [all,full], interface is regexp
- `system.sw.arch`
- `system.sw.os[name|short|full]` - default is [name]
- `system.sw.packages[package,manager,short|full]` - default is [all,all,full], package is regexp

Inventory mode selection

Inventory mode can be selected in the host configuration form.

Inventory mode by default for new hosts is selected based on the *Default host inventory mode* setting in *Administration → General → Other*. 
For hosts added by network discovery or auto registration actions, it is possible to define a Set host inventory mode operation selecting manual or automatic mode. This operation overrides the Default host inventory mode setting.

**Inventory overview**

The details of all existing inventory data are available in the Inventory menu.

In Inventory → Overview you can get a host count by various fields of the inventory.

In Inventory → Hosts you can see all hosts that have inventory information. Clicking on the host name will reveal the inventory details in a form.

The Overview tab shows:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Host name</strong></td>
<td>Name of the host. Clicking on the name opens a menu with the scripts defined for the host. Host name is displayed with an orange icon, if the host is in maintenance.</td>
</tr>
<tr>
<td><strong>Visible name</strong></td>
<td>Visible name of the host (if defined).</td>
</tr>
<tr>
<td><strong>Host (Agent, SNMP, JMX, IPMI) interfaces</strong></td>
<td>This block provides details of the interfaces configured for the host.</td>
</tr>
<tr>
<td><strong>OS</strong></td>
<td>Operating system inventory field of the host (if defined).</td>
</tr>
<tr>
<td><strong>Hardware</strong></td>
<td>Host hardware inventory field (if defined).</td>
</tr>
<tr>
<td><strong>Software</strong></td>
<td>Host software inventory field (if defined).</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Host description.</td>
</tr>
<tr>
<td><strong>Monitoring</strong></td>
<td>Links to monitoring sections with data for this host: Web, Latest data, Triggers, Problems, Graphs, Screens.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Configuration</strong></td>
<td>Links to configuration sections for this host: <strong>Host</strong>, <strong>Applications</strong>, <strong>Items</strong>, <strong>Triggers</strong>, <strong>Graphs</strong>, <strong>Discovery</strong>, <strong>Web</strong>. The amount of configured entities is listed in parenthesis after each link.</td>
</tr>
</tbody>
</table>

The **Details** tab shows all inventory fields that are populated (are not empty).

**Inventory macros**

There are host inventory macros `{INVENTORY.*}` available for use in notifications, for example:

“Server in {INVENTORY.LOCATION1} has a problem, responsible person is {INVENTORY.CONTACT1}, phone number {INVENTORY.POC.PRIMARY.PHONE.A1}.”

For more details, see the supported macro page.