



ZABBIX 7.0

UPGRADE TO 7.0 LTS

Go to Administration > Proxies and add two proxies to your Zabbix instance:

▶ Proxy Tokyo in active mode

The screenshot shows the 'Proxy' configuration form in Zabbix. The 'Proxy' tab is selected. The form contains the following fields and controls:

- * Proxy name:** Text input field containing 'Proxy Tokyo'.
- Proxy mode:** Radio buttons for 'Active' (selected) and 'Passive'.
- Proxy address:** Empty text input field.
- Description:** Empty text area with a small icon in the bottom right corner.
- Buttons:** 'Add' (solid blue) and 'Cancel' (outline blue).

▶ Proxy Porto Alegre in passive mode

The screenshot shows the 'Proxy' configuration form in Zabbix. The 'Proxy' tab is selected. The form contains the following fields and controls:

- * Proxy name:** Text input field containing 'Proxy Porto Alegre'.
- Proxy mode:** Radio buttons for 'Active' and 'Passive' (selected).
- * Interface:** A table with four columns: 'IP address', 'DNS name', 'Connect to', and 'Port'.

IP address	DNS name	Connect to	Port
192.168.0.1		IP DNS	10071
- Description:** Empty text area with a small icon in the bottom right corner.
- Buttons:** 'Add' (solid blue) and 'Cancel' (outline blue).

Make sure proxies are available:

- ▶ Look at the 'Last seen (age) column'
- ▶ Ask for assistance if it says 'never'

Proxies Create proxy

Filter

Name Mode Any Active Passive

Apply Reset

<input type="checkbox"/> Name ▲	Mode	Encryption	Compression	Last seen (age)	Host count	Item count	Required performance (vps)	Hosts
<input type="checkbox"/> Proxy Porto Alegre	Passive	None	On	3s	0	0	0	
<input type="checkbox"/> Proxy Tokyo	Active	None	On	2s	0	0	0	

Displaying 2 of 2 found

0 selected Enable hosts Disable hosts Delete

Create a host to monitor proxy Tokyo:

- ▶ Host name: Zabbix proxy Tokyo
- ▶ Templates: Zabbix proxy health
- ▶ Groups: Zabbix proxies
- ▶ Monitored by: Proxy Tokyo

New host

Host IPMI Tags Macros Inventory Encryption Value mapping

* Host name

Visible name

Templates ×
type here to search

* Groups ×
type here to search

Interfaces No interfaces are defined.
[Add](#)

Description

Monitored by proxy

Enabled

Create a host to monitor proxy Porto Alegre:

- ▶ Host name: Zabbix proxy Porto Alegre
- ▶ Templates: Zabbix proxy health
- ▶ Groups: Zabbix proxies
- ▶ Monitored by: Proxy Porto Alegre

The screenshot shows the 'New host' configuration page in Zabbix. The 'Host' tab is selected, and the following fields are filled out:

- * Host name:** Zabbix proxy Porto Alegre
- Visible name:** Zabbix proxy Porto Alegre
- Templates:** Zabbix proxy health (with a search dropdown and a 'Select' button)
- * Groups:** Zabbix proxies (with a search dropdown and a 'Select' button)
- Interfaces:** No interfaces are defined. (with an 'Add' link)
- Description:** (empty text area)
- Monitored by proxy:** Proxy Porto Alegre (dropdown menu)
- Enabled:**

Check that proxy hosts receive data:

- ▶ Use the Monitoring > Hosts > Latest data for this

<input type="checkbox"/> Host	Name ▲	Last check	Last value	Change	Tags	Info
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Configuration cache, % used ?	33s	1.4324 %		component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: History index cache, % used ?	27s	0.2253 %		component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: History write cache, % used ?	28s	0 %		component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed character values p... ?	23s	0 vps		component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed log values per sec... ?	25s	0 vps		component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed not supported valu... ?	24s	0.0999 vps	-0.00001489...	component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed numeric (float) valu... ?	26s	0.4662 vps	+0.1165 vps	component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed numeric (unsigned)... ?	21s	0.08325 vps	-0.00001321...	component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed text values per sec... ?	22s	0 vps		component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed values per second ?	20s	0.5495 vps	+0.01655 vps	component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Preprocessing queue ?	1m	0		component: system	Graph

Check the current status of your Zabbix instance:

- ▶ Check the reports section in the front-end

System information

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled)	1	1 / 0
Number of templates	371	
Number of items (enabled/disabled/not supported)	139	129 / 0 / 10
Number of triggers (enabled/disabled [problem/ok])	70	70 / 0 [0 / 70]
Number of users (online)	2	1
Required server performance, new values per second	1.96	
Database history tables use primary key	No	
High availability cluster	Disabled	

- ▶ Check the Zabbix server log file

```
# systemctl restart zabbix-server
```

```
# tail -100 /var/log/zabbix/zabbix_server.log
```

```
10699:20241003:095042.397 required mandatory version: 06000000  
10699:20241003:095042.402 database could be upgraded to use primary keys in history tables  
10699:20241003:095042.404 database is not upgraded to use double precision values  
10700:20241003:095042.405 starting HA manager
```

DB upgrade patches are mandatory for Zabbix 7.0

► Find required scripts

```
# cd /usr/share/zabbix-sql-scripts/mysql
```

```
# ls -la
```

```
drwxr-xr-x. 2 root root    92 Oct  3 08:20 .
drwxr-xr-x. 5 root root    52 Oct  3 08:20 ..
-rw-r--r--. 1 root root   282 Sep 27 13:15 double.sql
-rw-r--r--. 1 root root  1527 Sep 27 13:15 history_pk_prepare.sql
-rw-r--r--. 1 root root 166646 Sep 27 13:15 proxy.sql
-rw-r--r--. 1 root root 4384784 Sep 27 13:15 server.sql.gz
```

► Look inside the scripts

```
# cat history_pk_prepare.sql
```

```
RENAME TABLE history TO history_old;
CREATE TABLE `history` (
  `itemid` bigint unsigned NOT NULL,
  `clock` integer DEFAULT '0' NOT NULL,
  `value` DOUBLE PRECISION DEFAULT '0.0000' NOT NULL,
  `ns` integer DEFAULT '0' NOT NULL,
  PRIMARY KEY (itemid,clock,ns)
) ENGINE=InnoDB;
```

Upgrade the database with patches

- ▶ Stop Zabbix server first

```
# systemctl stop zabbix-server
```

- ▶ Run the upgrade patches

```
# mysql -uroot zabbix < /usr/share/zabbix-sql-scripts/mysql/history_pk_prepare.sql
```

- ▶ Open the MySQL console

```
mysql
```

```
mysql> use zabbix
```

```
mysql> SET @@max_execution_time=0;
mysql> INSERT IGNORE INTO history SELECT * FROM history_old;
mysql> INSERT IGNORE INTO history_uint SELECT * FROM history_uint_old;
mysql> INSERT IGNORE INTO history_str SELECT * FROM history_str_old;
mysql> INSERT IGNORE INTO history_log SELECT * FROM history_log_old;
mysql> INSERT IGNORE INTO history_text SELECT * FROM history_text_old;
```

- ▶ Exit MySQL console

```
mysql> quit
```

▶ Start Zabbix server

```
# systemctl start zabbix-server
```

▶ Install Zabbix 7.0 official repository

```
# dnf install -y https://repo.zabbix.com/zabbix/7.0/rhel/9/x86_64/zabbix-release-latest.el9.noarch.rpm
```

▶ Update all zabbix-* packages

```
# dnf update zabbix-*
```

```
=====
Package                                Architecture                                Version
=====
Upgrading:
zabbix-apache-conf                      noarch                                       7.0.3-rel
zabbix-server-mysql                     x86_64                                      7.0.3-rel
zabbix-web                               noarch                                       7.0.3-rel
zabbix-web-deps                          noarch                                       7.0.3-rel
zabbix-web-mysql                         noarch                                       7.0.3-rel
=====
```

- ▶ Take a look at the Zabbix server log file (press CTRL+C to exit)

```
# tail -f /var/log/zabbix/zabbix_server.log
```

```
66821:20241003:123214.001 using configuration file: /etc/zabbix/zabbix_server.conf
66821:20241003:123214.016 current database version (mandatory/optional): 06010048/06010048
66821:20241003:123214.016 required mandatory version: 07000000
66821:20241003:123214.016 mandatory patches were found
66821:20241003:123214.018 starting automatic database upgrade
66821:20241003:123214.019 [Z3005] query failed: [1419] You do not have the SUPER privilege and binary
logging is enabled (you *might* want to use the less safe log_bin_trust_function_creators variable) [create
trigger hosts_insert after insert on hosts
for each row
insert into changelog (object,objectid,operation,clock)
values (1,new.hostid,1,unix_timestamp())]
66821:20241003:123214.019 database upgrade failed on patch 06010049, exiting in 10 seconds
```

- ▶ Open MySQL console and enable required parameter

```
# mysql
```

```
mysql> set global log_bin_trust_function_creators = 1;
```

```
mysql> quit
```

- ▶ Take a look at the Zabbix server log file (press CTRL+C to exit)

```
# tail -f /var/log/zabbix/zabbix_server.log
```

```
.....  
68773:20241003:123747.859 completed 93% of database upgrade  
68773:20241003:123748.151 completed 94% of database upgrade  
68773:20241003:123748.294 completed 95% of database upgrade  
68773:20241003:123748.421 completed 96% of database upgrade  
68773:20241003:123748.453 completed 97% of database upgrade  
68773:20241003:123748.491 completed 98% of database upgrade  
68773:20241003:123748.518 completed 99% of database upgrade  
68773:20241003:123748.584 completed 100% of database upgrade  
68773:20241003:123748.919 database upgrade fully completed  
69146:20241003:123748.935 starting HA manager  
69146:20241003:123748.943 HA manager started in active mode  
68773:20241003:123748.945 server #0 started [main process]  
69147:20241003:123748.946 server #1 started [service manager #1]  
69148:20241003:123748.947 server #2 started [configuration syncer #1]  
69160:20241003:123750.212 server #6 started [alerter #3]  
69159:20241003:123750.216 server #5 started [alerter #2]  
69158:20241003:123750.217 server #4 started [alerter #1]  
69161:20241003:123750.219 server #7 started [preprocessing manager #1]  
69157:20241003:123750.220 server #3 started [alert manager #1]  
.....
```

New configuration files are created with the .rpmnew extension after upgrade:

- ▶ Compare old and new files and transfer your configuration to the new format

```
# vim -d /etc/zabbix/zabbix_server.conf.rpmnew /etc/zabbix/zabbix_server.conf
```

DBHost=localhost	|	DBHost=localhost
DBUser=zabbix	|	DBUser=zabbix
# DBPassword=	|	DBPassword=BlueSky67Fox!

- ▶ Save the changes
- ▶ Overwrite existing Zabbix configuration file

```
# mv /etc/zabbix/zabbix_server.conf.rpmnew /etc/zabbix/zabbix_server.conf
```

- ▶ Restart Zabbix server and make sure everything is working

```
# systemctl restart zabbix-server
```

Go to Administration > Proxies and check status of the proxies:

- ▶ All proxies now report the version
- ▶ Proxies with version 6.0.x are marked as outdated

Proxies ? [Create proxy](#)

[Filter](#)

Name Mode **Any** Active Passive Version **Any** Current Outdated

[Apply](#) [Reset](#)

<input type="checkbox"/> Name ▲	Mode	Encryption	State	Version	Last seen (age)	Item count	Required vps	Hosts
<input type="checkbox"/> Proxy Porto Alegre	Passive	None	Online	6.0.26 i	2s	41	0.68	1 Zabbix proxy Porto Alegre
<input type="checkbox"/> Proxy Tokyo	Active	None	Online	6.0.30 i	1s	41	0.68	1 Zabbix proxy Tokyo

Proxy version is outdated, only data collection and remote execution is available with server version 7.0.4. found

0 selected [Refresh configuration](#) [Enable hosts](#) [Disable hosts](#) [Delete](#)

Check that proxy hosts still receive data:

- ▶ Use the Monitoring > Hosts > Latest data for this

<input type="checkbox"/> Host	Name ▲	Last check	Last value	Change	Tags	Info
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Configuration cache, % used 	41s	1.4324 %		component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: History index cache, % used 	35s	0.2253 %		component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: History write cache, % used 	36s	0 %		component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed character values per second 	31s	0 vps		component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed log values per second 	33s	0 vps		component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed not supported values per second 	32s	0.0999 vps	-0.0000031...	component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed numeric (float) values per second 	34s	0.4662 vps	-0.0000133...	component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed numeric (unsigned integer) values per second 	29s	0.08325 vps	-0.0000049...	component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed text values per second 	30s	0 vps		component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Number of processed values per second 	28s	0.5494 vps	-0.0000291...	component: nvps component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Preprocessing queue 	8s	0		component: system	Graph
<input type="checkbox"/> Zabbix proxy Tokyo	Zabbix proxy: Queue 	42s	0		component: system	Graph

The proxies are running as podman containers.

- ▶ Edit container files to upgrade proxies to latest release (start with the Tokyo proxy)

```
# cd /usr/share/containers/systemd
```

```
# nano zabbix-proxy-tokyo.container
```

[Unit]

Description=Zabbix Proxy Tokyo

[Container]

ContainerName=zabbix-proxy-tokyo

Image=docker.io/zabbix/zabbix-proxy-sqlite3:alpine-7.0.4

Network=training.network

PublishPort=10061:10051

Environment=ZBX_HOSTNAME='Proxy Tokyo'

Environment=ZBX_SERVER_HOST=host.containers.internal

Environment=ZBX_PROXYCONFIGFREQUENCY=10

Environment=ZBX_DATASENDERFREQUENCY=1

Environment=ZBX_STARTPOLLERS=1

Environment=ZBX_PROXYMODE=0

► Edit configuration file for the Porto Alegre proxy

```
# nano zabbix-proxy-porto-alegre.container
```

[Unit]

Description=Zabbix Proxy Porto Alegre

[Container]

ContainerName=zabbix-proxy-porto-alegre

Image=docker.io/zabbix/zabbix-proxy-sqlite3:alpine-7.0.4

Network=training.network

PublishPort=10071:10051

Environment=ZBX_HOSTNAME='Proxy Porto Alegre'

Environment=ZBX_SERVER_HOST=192.168.0.1/24

Environment=ZBX_DATASENDERFREQUENCY=1

Environment=ZBX_STARTPOLLERS=1

Environment=ZBX_PROXYMODE=1

▶ Reload the systemd unit files

```
# systemctl daemon-reload
```

▶ Restart proxies

```
# systemctl restart zabbix-proxy-tokyo
```

```
# systemctl restart zabbix-proxy-porto-alegre
```

▶ Check proxy version on the Proxies page

Proxies ? [Create proxy](#)

Mode Any Active Passive Version Any Current Outdated [Filter](#)

[Apply](#) [Reset](#)

<input type="checkbox"/> Name ▲	Mode	Encryption	State	Version	Last seen (age)	Item count	Required vps	Hosts
<input type="checkbox"/> Proxy Porto Alegre	Passive	None	Online	7.0.4	5s	41	0.68	1 Zabbix proxy Porto Alegre
<input type="checkbox"/> Proxy Tokyo	Active	None	Online	7.0.4	3s	41	0.68	1 Zabbix proxy Tokyo

Displaying 2 of 2 found

0 selected [Refresh configuration](#) [Enable hosts](#) [Disable hosts](#) [Delete](#)

Go to Data collection > Templates and find all Zabbix health templates:

- ▶ The templates do not have version - this means they are pre-7.0

Templates ? Create template Import

Filter

Template groups Tags

Linked templates Contains

Name

Vendor

Version

<input type="checkbox"/>	Name ▲	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Vendor	Version	Linked templates	Linked to templates	Tags
<input type="checkbox"/>	Remote Zabbix proxy health	Hosts	Items 41	Triggers 31	Graphs 13	Dashboards 1	Discovery	Web					class: software target: proxy target: zabbix
<input type="checkbox"/>	Remote Zabbix server health	Hosts	Items 57	Triggers 43	Graphs 16	Dashboards 1	Discovery 1	Web					class: software target: server target: zabbix
<input type="checkbox"/>	Zabbix proxy health	Hosts 2	Items 41	Triggers 30	Graphs 14	Dashboards 1	Discovery	Web					class: software target: proxy target: zabbix
<input type="checkbox"/>	Zabbix server health	Hosts 1	Items 57	Triggers 42	Graphs 16	Dashboards 1	Discovery 1	Web					class: software target: server target: zabbix

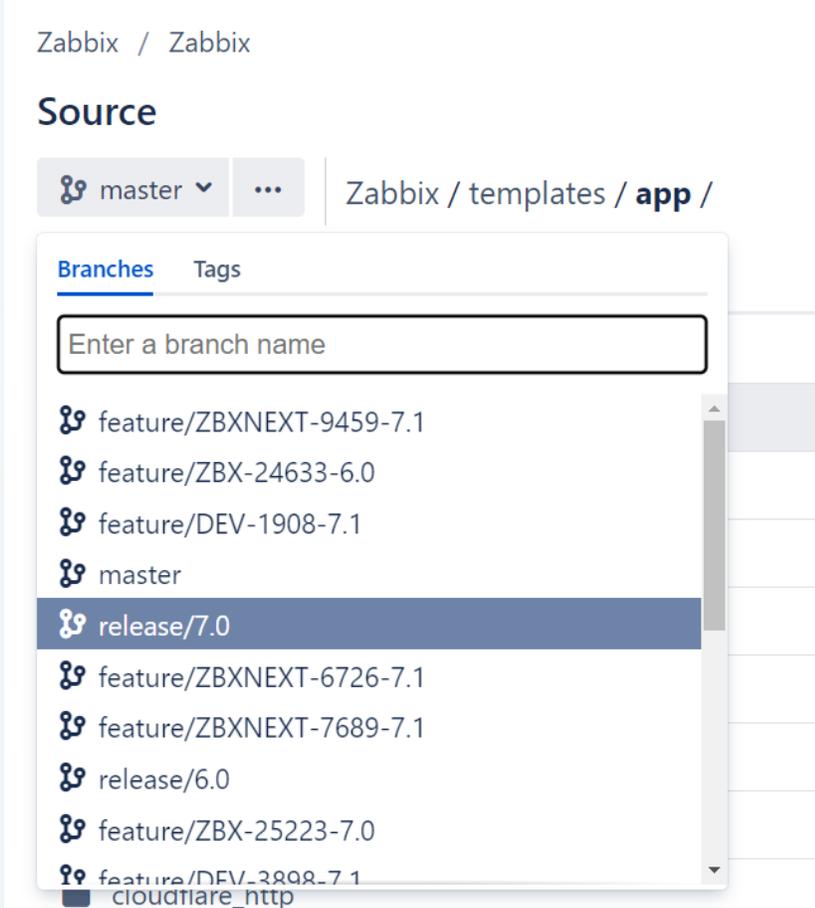
Displaying 4 of 4 found

0 selected

Go to the Zabbix git repository:

<https://git.zabbix.com/projects/ZBX/repos/zabbix/browse/templates/app>

- ▶ Choose the release/7.0 branch



The screenshot shows the Zabbix Git repository interface. At the top, it says "Zabbix / Zabbix". Below that, the "Source" section is visible, with a dropdown menu set to "master" and a breadcrumb "Zabbix / templates / app /". A modal window is open, displaying a list of branches. The "release/7.0" branch is highlighted in blue. Other branches listed include "feature/ZBXNEXT-9459-7.1", "feature/ZBX-24633-6.0", "feature/DEV-1908-7.1", "master", "feature/ZBXNEXT-6726-7.1", "feature/ZBXNEXT-7689-7.1", "release/6.0", "feature/ZBX-25223-7.0", and "feature/DEV-3898-7.1".

► Find the zabbix_proxy template and click on it

The screenshot shows the Zabbix web interface. On the left, a sidebar lists several folders: wildfly_server_jmx, zabbix_agent, zabbix_proxy (highlighted), zabbix_proxy_remote, and zabbix. Below the sidebar, the breadcrumb path is Zabbix / Zabbix. The main content area shows the 'Source' view for the 'zabbix_proxy' directory. The breadcrumb path is Zabbix / templates / app / zabbix_proxy /. There are buttons for 'Browse' and 'Filter', and a 'Watch' button. A table lists the files in the directory:

Source	Description	Size	Last Modified
..			
README.md	.....T [ZBXNEXT-8657] updated Zabbix health templates with new items and visualization	19.16 KB	02 Jul 2024
template_app_zabbix_proxy.yaml	.....T [ZBX-24930] updated all templates	79.08 KB	08 Aug 2024

- ▶ Click on the `template_app_zabbix_proxy.yaml`
- ▶ Right click on the `Raw_file` link and download it

Zabbix / Zabbix

Source

release/7.0 ▾



Zabbix / templates / app / zabbix_proxy / **template_app_zabbix_proxy.yaml**



Alexander Bakaldin authored 654bac3b468 08 Aug 2024

Source view

Diff to previous

History ▾

79.08 KB

Contributors ▾

Blame

[Raw file](#)

```
1 zabbix_export:
2   version: '7.0'
3   template_groups:
4     - uuid: a571c0d144b14fd4a87a9d9b2aa9fcd6
5       name: Templates/Applications
```

Open link in new tab
Open link in new window
Open link in incognito window

Save link as...

Copy link address

Inspect

► Import the downloaded file:

The screenshot shows the Zabbix 'Templates' management interface. An 'Import' dialog box is open, allowing the user to import a new template file. The dialog includes the following fields and options:

- Import file:** A text input field containing the filename 'template_app_zabbix_proxy.yaml'. A 'Choose File' button is positioned to the left of the input field.
- Advanced options:** A checkbox that is currently unchecked.
- Rules:** A section with the label 'All' and three checkboxes for 'Update existing', 'Create new', and 'Delete missing', all of which are checked.
- Buttons:** 'Import' and 'Cancel' buttons are located at the bottom right of the dialog.

In the background, the 'Templates' page is visible, showing a table with columns for 'Template group', 'Linked template', 'Name', 'Vendor', and 'Version'. There are also buttons for 'Create template' and 'Import' at the top right of the page, and a 'Filter' button on the right side.

Confirm the changelog

Templates

- Removed
 - Items
 - Zabbix proxy: Utilization of discov...
 - Zabbix proxy: Utilization of heartb...
 - Zabbix proxy: Utilization of history ...
 - Triggers
 - Zabbix proxy: Utilization of discov...
 - Zabbix proxy: Utilization of heartb...
 - Zabbix proxy: Utilization of history ...
 - Graphs
 - Zabbix proxy: Cache usage, in %
 - Zabbix proxy: Internal queues
 - Zabbix proxy: Server performance

```
description: 'Default maximum threshold for percentage utilization triggers (use macro context for specification).'
```

```
- macro: '{$ZABBIX.PROXY.UTIL.MIN}'
```

```
value: '65'
```

```
description: 'Default minimum threshold for percentage utilization triggers (use macro context for specification).'
```

```
+ vendor:
```

```
+   name: Zabbix
```

```
+   version: 7.0-0
```

```
items:
```

```
+   name: 'Discovery queue'
```

```
+   type: INTERNAL
```

```
+   key: 'zabbix[discovery_queue]
```

```
+   description: 'The count of v'
```

```
+   tags:
```

```
+     - tag: component
```

```
+       value: system
```

```
+   name: 'Utilization of agent'
```

```
+   type: INTERNAL
```

```
+   key: 'zabbix[process,agent poller,avg,busy]'
```

```
+   value_type: FLOAT
```

```
+   units: '%'
```

```
+   description: 'The average percentage of the time during which the agent poller processes have been busy for the last minute.'
```

```
+   tags:
```

```
+     - tag: component
```

```
+       value: gathering-process
```

Any existing template entities not present in the import file will be deleted. Click OK to proceed.

OK Cancel

Import Cancel

The proxy template now displays the version number

Templates ? Create template Import

✓ Imported successfully ×

Filter

Template groups Select Tags And/Or Or

Linked templates Select Contains ▼ Remove

Name Add

Vendor

Version

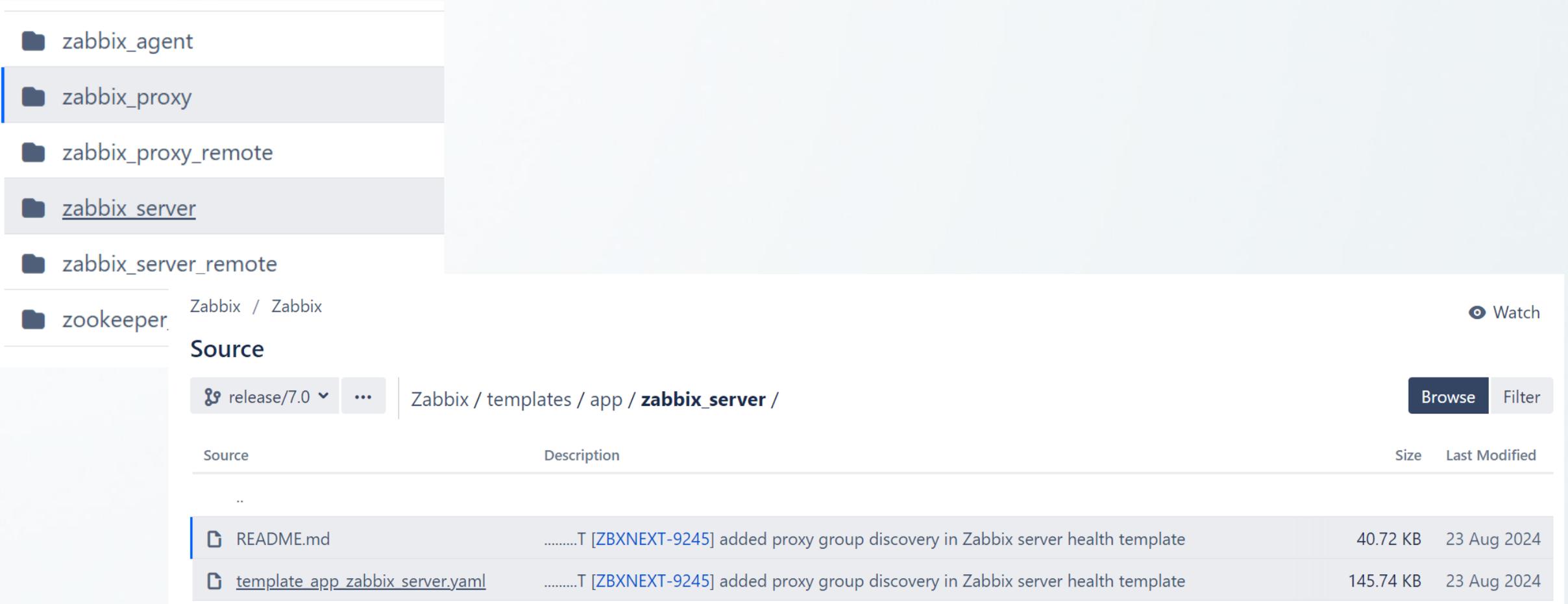
Apply Reset

<input type="checkbox"/>	Name ▲	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Vendor	Version	Linked templates	Linked to templates	Tags
<input type="checkbox"/>	Remote Zabbix proxy health	Hosts	Items 41	Triggers 31	Graphs 13	Dashboards 1	Discovery	Web					class: software target: proxy target: zabbix
<input type="checkbox"/>	Remote Zabbix server health	Hosts	Items 57	Triggers 43	Graphs 16	Dashboards 1	Discovery 1	Web					class: software target: server target: zabbix
<input type="checkbox"/>	Zabbix proxy health	Hosts 2	Items 49	Triggers 35	Graphs	Dashboards 1	Discovery	Web	Zabbix	7.0-0			class: software target: proxy target: zabbix
<input type="checkbox"/>	Zabbix server health	Hosts 1	Items 57	Triggers 42	Graphs 16	Dashboards 1	Discovery 1	Web					class: software target: server target: zabbix

Displaying 4 of 4 found

0 selected Export ▼ Mass update Delete Delete and clear

Repeat the same for the Zabbix server health template:



The screenshot shows the Zabbix repository interface. On the left, a sidebar lists directories: zabbix_agent, zabbix_proxy, zabbix_proxy_remote, zabbix_server, zabbix_server_remote, and zookeeper. The main content area shows the path Zabbix / Zabbix / templates / app / zabbix_server / with a 'Watch' button. Below the path, there are 'Browse' and 'Filter' buttons. A table lists the source files:

Source	Description	Size	Last Modified
..			
README.md	.....T [ZBXNEXT-9245] added proxy group discovery in Zabbix server health template	40.72 KB	23 Aug 2024
template_app_zabbix_server.yaml	.....T [ZBXNEXT-9245] added proxy group discovery in Zabbix server health template	145.74 KB	23 Aug 2024

Both Zabbix health templates should have a Version 7.0

Templates ? [Create template](#) [Import](#)

✔ Imported successfully ✕

[Filter](#)

Template groups [Select](#) Tags [And/Or](#) [Or](#)

Linked templates [Select](#) Contains ▼ [Remove](#)

Name [Add](#)

Vendor

Version

[Apply](#) [Reset](#)

<input type="checkbox"/>	Name ▲	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Vendor	Version	Linked templates	Linked to templates	Tags
<input type="checkbox"/>	Remote Zabbix proxy health	Hosts	Items 41	Triggers 31	Graphs 13	Dashboards 1	Discovery	Web					class: software target: proxy target: zabbix
<input type="checkbox"/>	Remote Zabbix server health	Hosts	Items 57	Triggers 43	Graphs 16	Dashboards 1	Discovery 1	Web					class: software target: server target: zabbix
<input type="checkbox"/>	Zabbix proxy health	Hosts 2	Items 49	Triggers 35	Graphs	Dashboards 1	Discovery	Web	Zabbix	7.0-0			class: software target: proxy target: zabbix
<input type="checkbox"/>	Zabbix server health	Hosts 1	Items 72	Triggers 52	Graphs	Dashboards 1	Discovery 3	Web	Zabbix	7.0-0			class: software target: server target: zabbix

Displaying 4 of 4 found

Zabbix server template now has a discovery rule for proxies:

- ▶ Go to Data collection > Hosts
- ▶ Click on Discovery for the Zabbix server host

<input type="checkbox"/>	Name ▲	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption	Info	Tags
<input type="checkbox"/>	Zabbix proxy Porto Alegre	Items 49	Triggers 35	Graphs	Discovery	Web		Proxy Porto Alegre	Zabbix proxy health	Enabled		None		
<input type="checkbox"/>	Zabbix proxy Tokyo	Items 49	Triggers 35	Graphs	Discovery	Web		Proxy Tokyo	Zabbix proxy health	Enabled		None		
<input type="checkbox"/>	Zabbix server	Items 191	Triggers 96	Graphs 19	Discovery 6	Web	127.0.0.1:10050		Linux by Zabbix agent, Zabbix server health	Enabled	ZBX	None		

Displaying 3 of 3 found

- ▶ Select and Execute the proxy and proxy group discovery rules

<input type="checkbox"/>	Host	Name ▲	Items	Triggers	Graphs	Hosts	Key	Interval	Type	Status	Info
<input type="checkbox"/>	Zabbix server	Linux by Zabbix agent: Block devices discovery	Item prototypes 9	Trigger prototypes 1	Graph prototypes 3	Host prototypes	vfs.dev.discovery	1h	Zabbix agent	Enabled	
<input type="checkbox"/>	Zabbix server	Zabbix server health: Zabbix stats cluster: High availability cluster node discovery	Item prototypes 5	Trigger prototypes 1	Graph prototypes	Host prototypes	zabbix.nodes.discovery		Dependent item	Enabled	
<input type="checkbox"/>	Zabbix server	Linux by Zabbix agent: Mounted filesystem discovery	Item prototypes 4	Trigger prototypes 4	Graph prototypes 1	Host prototypes	vfs.fs.discovery	1h	Zabbix agent	Enabled	
<input type="checkbox"/>	Zabbix server	Linux by Zabbix agent: Network interface discovery	Item prototypes 9	Trigger prototypes 4	Graph prototypes 1	Host prototypes	net.if.discovery	1h	Zabbix agent	Enabled	
<input checked="" type="checkbox"/>	Zabbix server	Zabbix server health: Zabbix proxies stats: Zabbix proxy discovery	Item prototypes 12	Trigger prototypes 4	Graph prototypes	Host prototypes	zabbix.proxy.discovery		Dependent item	Enabled	
<input checked="" type="checkbox"/>	Zabbix server	Zabbix server health: Zabbix proxy groups stats: Zabbix proxy groups discovery	Item prototypes 7	Trigger prototypes 6	Graph prototypes	Host prototypes	zabbix.proxy.groups.discovery		Dependent item	Enabled	

Displaying 6 of 6 found

2 selected

Go to Monitoring hosts and check Latest data for the Zabbix server host:

- ▶ Use the "proxy" tag value as a subfilter to see only proxy related metrics

Subfilter affects only filtered data

HOSTS
Zabbix server 24

TAGS
component 24 proxy-name 24

TAG VALUES
component: application +1 cpu +17 environment +1 gathering-process +16 internal-process +27 memory +7 network +27 ntps +8 os +3 proxy 24 raw +5 security +1 storage +27 system +38
disk: vda +8 vdb +8
filesystem: / +4 /var/lib/containers/storage/overlay +4
interface: eth0 +9 eth1 +9 podman1 +9

DATA
With data Without data

<input type="checkbox"/>	Host	Name ▲	Last check	Last value	Change	Tags	Info
<input type="checkbox"/>	Zabbix server	Proxy [Proxy Porto Alegre]: Certificate [?]	5m 12s	Off (0)		component: proxy proxy-name: Proxy P...	Graph
<input type="checkbox"/>	Zabbix server	Proxy [Proxy Porto Alegre]: Compatibility [?]	5m 12s	Current (1)		component: proxy proxy-name: Proxy P...	Graph
<input type="checkbox"/>	Zabbix server	Proxy [Proxy Porto Alegre]: Compression [?]	5m 12s	On (1)		component: proxy proxy-name: Proxy P...	Graph
<input type="checkbox"/>	Zabbix server	Proxy [Proxy Porto Alegre]: Host count [?]	5m 12s	1		component: proxy proxy-name: Proxy P...	Graph
<input type="checkbox"/>	Zabbix server	Proxy [Proxy Porto Alegre]: Item count [?]	5m 12s	49		component: proxy proxy-name: Proxy P...	Graph
<input type="checkbox"/>	Zabbix server	Proxy [Proxy Porto Alegre]: Last seen, in seconds [?]	12s	1		component: proxy proxy-name: Proxy P...	Graph
<input type="checkbox"/>	Zabbix server	Proxy [Proxy Porto Alegre]: Mode [?]	5m 12s	Passive (1)		component: proxy proxy-name: Proxy P...	Graph
<input type="checkbox"/>	Zabbix server	Proxy [Proxy Porto Alegre]: PSK [?]	5m 12s	Off (0)		component: proxy proxy-name: Proxy P...	Graph

Go to Dashboards > All dashboards

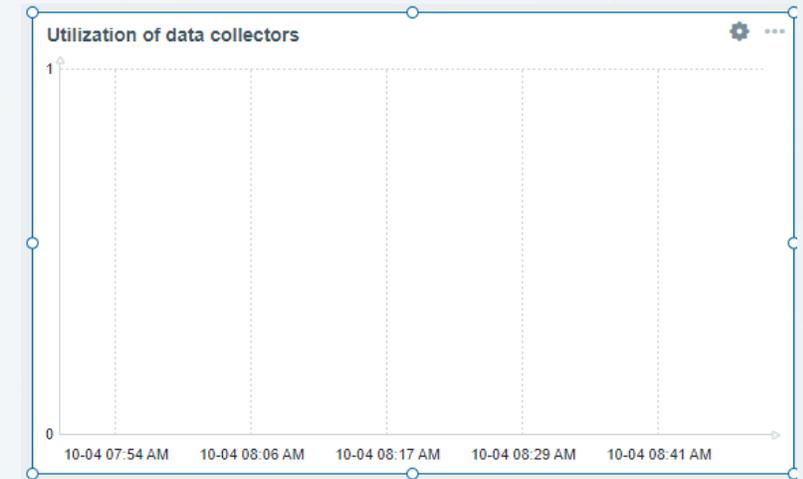
- ▶ Open the Zabbix server health dashboard

The screenshot shows the Zabbix web interface. On the left is a dark blue sidebar with the ZABBIX logo and navigation menu items: Dashboards, Monitoring, Services, Inventory, Reports, and Data collection. The 'Dashboards' menu item is active. The main content area is titled 'Dashboards' and includes a search bar, a 'Create dashboard' button, and a 'Filter' icon. Below this is a search and filter section with a 'Name' input field, a 'Show' dropdown set to 'All', and a 'Created by me' button. There are 'Apply' and 'Reset' buttons. A list of dashboards is shown with checkboxes for 'Name', 'Global view', 'Zabbix server', and 'Zabbix server health'. The 'Zabbix server health' dashboard is selected and highlighted in blue. To the right of the list are 'My' and 'Shared' buttons. Below the list, six widgets are displayed in a 2x3 grid. All widgets are broken, showing empty axes. The widgets are: 'Values processed per second', 'Utilization of data collectors', 'Utilization of internal processes', 'Cache usage', 'Value cache effectiveness', and 'Queue size'. The 'Cache usage' widget shows a single data point at approximately 15%.

- ▶ Most widgets are broken

Edit the dashboard:

- ▶ Modify the Utilization of data collectors widget
- ▶ Replace Item patterns with Utilization of * data collector *



Data set 1 Displaying options Time period Axes ● Legend ● Problems ● Overrides

Data set #1 ↑ Zabbix server X
host patterns Select

Utilization of * data collector * X
item patterns Select X

Draw Line Points Staircase Bar

Stacked

Width 1

Point size 3

Transparency 0

Y-axis Left Right

Time shift none

Aggregation function not used ▼

Aggregation interval 1h

Aggregate Each item Data set

Fix other widgets:

- ▶ Utilization of internal processes
 - *: Utilization of * internal *
 - ▶ Values processed per second
 - *: Number of processed *values per second
 - ▶ Value cache effectiveness
 - Zabbix server: Value cache hits
 - Zabbix server: Value cache misses
 - ▶ Queue size
 - Zabbix server: Queue
 - Zabbix server: Queue over 10 minutes
 - Zabbix server: Preprocessing queue
 - Zabbix server: LLD queue
 - -
 - -
- Utilization of * internal *
- Number of processed * values per second
- Value cache hits
- Value cache misses
- Queue
- Queue over 10 minutes
- Preprocessing queue
- LLD queue
- Connector queue
- Discovery queue



Thank you!

ZABBIX 7.0

End of workshop