

## 2 Debian/Ubuntu

### Overview

Official Zabbix packages are available for:

- Debian 9 (Stretch)
- Debian 8 (Jessie)
- Ubuntu 18.04 (Bionic Beaver) LTS
- Ubuntu 16.04 (Xenial Xerus) LTS
- Ubuntu 14.04 (Trusty Tahr) LTS

### Adding Zabbix repository

Install the repository configuration package. This package contains apt (software package manager) configuration files.

For **Debian 9**, run the following commands:

**Note!** For Debian 8, substitute 'stretch' with 'jessie' in the commands. For Debian 7, substitute 'stretch' with 'wheezy' in the commands.

```
# wget
https://repo.zabbix.com/zabbix/4.0/debian/pool/main/z/zabbix-release/zabbix-
release_4.0-1+stretch_all.deb
# dpkg -i zabbix-release_4.0-1+stretch_all.deb
# apt update
```

For **Ubuntu 18.04 (bionic)**, run the following commands:

```
# wget
https://repo.zabbix.com/zabbix/4.0/ubuntu/pool/main/z/zabbix-release/zabbix-
release_4.0-1+bionic_all.deb
# dpkg -i zabbix-release_4.0-1+bionic_all.deb
# apt update
```

- For Ubuntu 16.04, substitute 'bionic' with 'xenial' in the commands.
- For Ubuntu 14.04, substitute 'bionic' with 'trusty' in the commands.

### Server/proxy/frontend installation

To install Zabbix server with MySQL support:

```
# apt install zabbix-server-mysql
```

To install Zabbix proxy with MySQL support:

```
# apt install zabbix-proxy-mysql
```

To install Zabbix frontend:

```
# apt install zabbix-frontend-php
```

Substitute 'mysql' in the commands with 'pgsql' to use PostgreSQL, or with 'sqlite3' to use SQLite3 (proxy only).

## Creating database

For Zabbix [server](#) and [proxy](#) daemons a database is required. It is not needed to run Zabbix [agent](#).

If Zabbix server and proxy are installed on the same host, their databases must be created with different names!

Create the database using the provided instructions for [MySQL](#) or [PostgreSQL](#).

## Importing data

Now import initial schema and data for the server with MySQL:

```
# zcat /usr/share/doc/zabbix-server-mysql/create.sql.gz | mysql -uzabbix -p zabbix
```

You will be prompted to enter your newly created database password.

With PostgreSQL:

```
# zcat /usr/share/doc/zabbix-server-pgsql/create.sql.gz | sudo -u <username> psql zabbix
```

For proxy, import initial schema:

```
# zcat /usr/share/doc/zabbix-proxy-mysql/schema.sql.gz | mysql -uzabbix -p zabbix
```

For proxy with PostgreSQL (or SQLite):

```
# zcat /usr/share/doc/zabbix-proxy-pgsql/schema.sql.gz | sudo -u <username> psql zabbix
# zcat /usr/share/doc/zabbix-proxy-sqlite3/schema.sql.gz | sqlite3 zabbix.db
```

## Configure database for Zabbix server/proxy

Edit `zabbix_server.conf` or `zabbix_proxy.conf` to use the created database. For example:

```
# vi /etc/zabbix/zabbix_server.conf
DBHost=localhost
DBName=zabbix
DBUser=zabbix
DBPassword=<password>
```

In `DBPassword` use Zabbix database password for MySQL; PostgreSQL user password for PostgreSQL.

Use `DBHost=` with PostgreSQL. You might want to keep the default setting `DBHost=localhost` (or an IP address), but this would make PostgreSQL use a network socket for connecting to Zabbix. Refer to the [respective section](#) for RHEL/CentOS for instructions.

## Starting Zabbix server process

It's time to start Zabbix server process and make it start at system boot:

```
# service zabbix-server start
# update-rc.d zabbix-server enable
```

Substitute 'zabbix-server' with 'zabbix-proxy' to start Zabbix proxy process.

## SELinux configuration

Refer to the [respective section](#) for RHEL/CentOS.

As frontend and SELinux configuration is done, you need to restart Apache web server:

```
# service apache2 restart
```

## Frontend configuration

Apache configuration file for Zabbix frontend is located in `/etc/apache2/conf-enabled/zabbix.conf`. Some PHP settings are already configured. But it's necessary to uncomment the "date.timezone" setting and [set the right timezone](#) for you.

```
php_value max_execution_time 300
php_value memory_limit 128M
php_value post_max_size 16M
php_value upload_max_filesize 2M
php_value max_input_time 300
php_value max_input_vars 10000
php_value always_populate_raw_post_data -1
# php_value date.timezone Europe/Riga
```

Now you are ready to proceed with [frontend installation steps](#) which will allow you to access your

newly installed Zabbix.

## Agent installation

To install the agent, run

```
# apt install zabbix-agent
```

To start the agent, run:

```
# service zabbix-agent start
```

## Java gateway installation

It is required to install [Java gateway](#) if you want to monitor JMX applications. Java gateway is lightweight and does not require a database.

Once the required [repository](#) is added, you can install Zabbix Java gateway by running:

```
# apt install zabbix-java-gateway
```

Java gateway configuration may be tuned in the file:

```
/etc/zabbix/zabbix_java_gateway.conf
```

For more details, see Zabbix Java gateway configuration [parameters](#).

To start Zabbix Java gateway:

```
# service zabbix-java-gateway restart
```

Note that Zabbix server [must be configured](#) to work with Java gateway.

To automatically start Zabbix Java gateway on boot:

```
# systemctl enable zabbix-java-gateway
```

Zabbix Java gateway log file is:

```
/var/log/zabbix/zabbix_java_gateway.log
```

If you like to increase the logging, edit the file:

```
/etc/zabbix/zabbix_java_gateway_logback.xml
```

and change `level="info"` to `"debug"` or even `"trace"` (for deep troubleshooting):

```
<configuration scan="true" scanPeriod="15 seconds">
[...]  
  <root level="info">  
    <appender-ref ref="FILE" />  
  </root>  
</configuration>
```

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<https://www.zabbix.com/documentation/4.0/> - **Zabbix Documentation 4.0**

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