

# Zabbix

Zabbix ?? Alexei Vladishev ?????????????????? Server-Client  
????????????????????????????????????? Zabbix ?? MySQL?PostgreSQL?SQLite?Oracle ? IBM DB2  
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- [AIX Configure SNMP](#)
- [Requirements](#)
- [Installation](#)
- [Quickstart](#)
- [Zabbix Agent](#)

# AIX Configure SNMP

## Reference

- [IBM AIX: How To Configure Community based SNMP And SNMP Traps](#)

# Requirements

Hardware

# Installation

## Tutorials

- RHEL7/8:  
[https://www.zabbix.com/documentation/current/manual/installation/install\\_from\\_packages/rhel\\_centos](https://www.zabbix.com/documentation/current/manual/installation/install_from_packages/rhel_centos)
- [How To Install Zabbix Server 5.0 on CentOS 7](#)

## Platform to install

Zabbix Version	5.0 LTS
OS Distribution	CENTOS
OS Version	7
Database	MySQL
Web Server	Apache

## Prerequisites

php 7.2

“ Zabbix frontend requires PHP version **7.2 or newer** starting with Zabbix 5.0. Note that RHEL/CentOS 7 only provide PHP 5.4. So don't install the php for pre-installed version on system.

## Step 1: Install and Configure Apache httpd server

```
yum install httpd
systemctl start httpd
systemctl enable httpd
```

## Step 2: Install MariaDB Database server

Remove MariaDB 5.x

```
systemctl stop mariadb
yum remove mariadb mariadb-server mariadb-libs
```

## Add new MariaDB repository

[https://downloads.mariadb.org/mariadb/repositories/#mirror=mephi&distro=CentOS&distro\\_release=centos7-amd64--centos7](https://downloads.mariadb.org/mariadb/repositories/#mirror=mephi&distro=CentOS&distro_release=centos7-amd64--centos7)

```
vi /etc/yum.repos.d/mariadb.repo
```

```
# MariaDB 10.5 CentOS repository list - created 2020-08-17 13:04 UTC
# http://downloads.mariadb.org/mariadb/repositories/
[mariadb]
name = MariaDB
baseurl = http://yum.mariadb.org/10.5/centos7-amd64
gpgkey=https://yum.mariadb.org/RPM-GPG-KEY-MariaDB
gpgcheck=1
```

## Install MariaDB

```
yum clean all
yum install MariaDB-server MariaDB-client
```

## Config MariaDB

```
vi /etc/my.cnf.d/server.cnf
```

```
[mysqld]
datadir=/var/lib/mysql
socket=/var/lib/mysql/mysql.sock
log-error=/var/log/mariadb/mariadb.log
```

????

```
mkdir /var/log/mariadb
chown mysql:mysql /var/log/mariadb
```

## Start MariaDB

```
systemctl start mariadb
systemctl enable mariadb
```

Initial DB Configuration and set password for root

```
mysql_secure_installation
```

## Step 3: Install and configure Zabbix server

### a. Install Zabbix repository

```
# rpm -Uvh https://repo.zabbix.com/zabbix/5.0/rhel/7/x86_64/zabbix-release-5.0-1.el7.noarch.rpm  
# yum clean all
```

### b. Install Zabbix server and agent

```
# yum install zabbix-server-mysql zabbix-agent zabbix-get
```

### c. Install Zabbix frontend

Enable Red Hat Software Collections

```
# yum install centos-release-scl
```

Install Zabbix frontend packages.

This step will install the php 7.2 packages required for Zabbix.

```
# yum-config-manager --enable zabbix-frontend  
# yum install zabbix-web-mysql-scl zabbix-apache-conf-scl
```

“ ?????? yum-config-manager??????????????

```
yum --enablerepo=zabbix-frontend
```

### d. Create initial database

Run the following on your database host.

```
# mysql -uroot -p <<MYSQL_EOF  
create database zabbix character set utf8 collate utf8_bin;  
create user zabbix@localhost identified by 'thisispassword';  
grant all privileges on zabbix.* to zabbix@localhost;  
MYSQL_EOF
```

On Zabbix server host import initial schema and data. You will be prompted to enter your newly created password.

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

#### e. Configure the database for Zabbix server

Edit file `/etc/zabbix/zabbix_server.conf`

```
DBName=zabbix
DBUser=zabbix
DBPassword=password
```

#### f. Configure PHP for Zabbix frontend

Edit file `/etc/opt/rh/rh-php72/php-fpm.d/zabbix.conf`, uncomment and set the right timezone for you.

```
php_value[date.timezone] = Asia/Taipei
```

#### g. Start Zabbix server and agent processes

Start Zabbix server and agent processes and make it start at system boot.

```
# systemctl restart zabbix-server zabbix-agent httpd rh-php72-php-fpm
# systemctl enable zabbix-server zabbix-agent httpd rh-php72-php-fpm
```

#### h. Configure Zabbix frontend

Connect to your newly installed Zabbix frontend: `http://server_ip_or_name/zabbix`

[zabbix-install-home.png](#)

## Optional: Other Zabbix components Installation

### Zabbix-Proxy

```
yum install zabbix-proxy-mysql
```

### Java Gateway

```
yum install zabbix-java-gateway
```

# Quickstart

## Login and Configure user

Default login: Admin / zabbix

Adding User)

Administration -> Users

# Zabbix Agent

## AIX

Download: <https://www.zabbix.com/download>

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## AIX 7.2

```
# Using smitty users to add a user zabbix and the home directory is /usr/local/zabbix
```

```
# Untar the zabbix source
```

```
su - zabbix
```

```
gunzip -c zabbix_agent-4.0.7-aix-7.2-powerpc.tar.gz | tar -xf -
```

```
# Edit the config file
```

```
vi /usr/local/zabbix/conf/zabbix_agentd.conf
```

```
Server=<Zabbix-Server-IP>
```

```
ServerActive=<Zabbix-Server-IP>
```

```
Hostname=<agent-hostname>
```

```
# Startup the agent
```

```
/usr/local/zabbix/sbin/zabbix_agentd -c /usr/local/zabbix/conf/zabbix_agentd.conf
```

## start.sh

```
#!/usr/bin/env bash
```

```
zabbix_home="/usr/local/zabbix"
```

```
cd $zabbix_home
```

```
pid=$(ps -ef | grep "zabbix_agentd.conf" | grep -v grep | awk '{print $2}')
```

```
[ -n "$pid" ] && echo "The Zabbix is already running!" && exit
```

```
$zabbix_home/sbin/zabbix_agentd -c $zabbix_home/conf/zabbix_agentd.conf
```

```
[ $? -eq 0 ] && echo "Started the zabbix"
```

## stop.sh

```
#!/usr/bin/env bash

zabbix_home="/usr/local/zabbix"

pid=$(ps -ef | grep "zabbix_agentd.conf" | grep -v grep | awk '{print $2}')

[ -n "$pid" ] && kill $pid && echo "Killed the zabbix"
```