Zabbix

Zabbix ?? Alexei Vladishev ???????????????? Server-Client ??????????????????????????? Zabbix ?? MySQL?PostgreSQL?SQLite?Oracle ? IBM DB2 ?????

- 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
- 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

```
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
```

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```
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"
```