

Monitoring Xpand with Zabbix

Install Zabbix

Configure repositories and install Zabbix Server and Frontend

```
rpm -ivh https://repo.zabbix.com/zabbix/4.0/rhel/7/x86_64/zabbix-release-4.0-1.el7.noarch.rpm
yum-config-manager --enable rhel-7-server-optional-rpms
yum install zabbix-server-mysql zabbix-web-mysql
```

Confirm that MariaDB is installed correctly

```
shell> systemctl status mysql
```

If this MariaDB (or MySQL) is not installed, please refer to their install guide for more instruction.

To ensure that default character set is utf8 add to the following to /etc/my.cnf:

```
[mysql]
default-character-set=utf8
```

Configure Zabbix Server

Create Zabbix SQL User

```
SQL> create database zabbix;SQL> grant all privileges on zabbix.* to zabbix@localhost identified by 'zabbixpwd';
```

Import Initial Schema and Data

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

Edit Zabbix Server Conf (/etc/zabbix/zabbix_server.conf)

```
DBHost=localhost
DBName=zabbix
DBUser=zabbix
DBPassword=zabbixpwd
```

SELinux Configuration

Selinux: If selinux is enabled, allow communication between zabbix frontend and server

```
setsebool -P httpd_can_connect_zabbix=on httpd_can_network_connect_db=on
```

Start Zabbix Server and Frontend

Start services and set to start at boot.

```
systemctl start zabbix-server
systemctl enable zabbix-server
systemctl start httpd
systemctl enable httpd
```

Configure Zabbix Frontend

Configure Timezone (/etc/httpd/conf.d/zabbix.conf)

```
php_value date.timezone America/Los_Angeles
```

Login to Frontend

- Browse to: <http://<zabbix-server-address>/zabbix>
- Click "Next Step"
- Confirm that prerequisites are all correctly installed and click "Next Step"
- Configure DB connection fields (use MySQL for Database type) and click "Next Step"
- Configure Zabbix server details and click "Next Step"
- Review Pre-installation summary and click "Next Step"
- Click "Finish"

Configure Zabbix Agent

Use the steps below to install the zabbix agent on a Xpand node.

Create user for zabbix agent in Xpand

```
sql> grant usage on *.* to 'zabbix'@'%' identified by 'zabbixpwd';
```

Setup Zabbix repository & Install Agent

```
rpm -ivh https://repo.zabbix.com/zabbix/4.0/rhel/7/x86\_64/zabbix-release-4.0-1.el7.noarch.rpm  
yum install zabbix-agent
```

Configure zabbix_agent.conf to communicate with Zabbix Server

```
Server=<zabbix_server_ip>           #zabbix server ip  
ServerActive=<zabbix_server_ip>     #zabbix server ip  
Hostname=<zabbix_server_hostname>   #zabbix hostname
```

Install Xpand userparameter_mysql.conf

```
wget <userparameter_mysql.conf>  
cp ~/userparameter_mysql.conf /etc/zabbix/zabbix_agentd.d/
```

Configure Zabbix login credentials

```
vim /var/lib/zabbix/.my.cnf  
  
[mysql]  
user=zabbix  
password=zabbixpwd  
  
[mysqladmin]  
user=zabbix  
password=zabbixpwd
```

Restart Zabbix Agent

```
systemctl restart zabbix-agent
```