


```
--with-fpm-group=php-fpm \  
--with-mysql-sock=/var/run/mysql.sock \  
--with-mysqli \  
--with-libxml-dir \  
--with-gd \  
--with-jpeg-dir \  
--with-png-dir \  
--with-freetype-dir \  
--with-iconv-dir \  
--with-zlib-dir \  
--with-mcrypt \  
--with-curl \  
--with-pear \  
--with-gettext \  
--enable-bcmath \  
--enable-sockets \  
--enable-soap \  
--enable-gd-native-ttf \  
--enable-ftp \  
--enable-exif \  
--enable-tokenizer \  
--with-pdo-mysql \  
--enable-mbstring \  
--with-openssl"  
CONF_0=" --with-pdo-mysql"  
CONF_1=" --with-pdo-mysql="$CUS_MYSQLPATH  
# last 4 parameters are needed by Laravel  
  
if [ -z $CUS_MYSQLPATH ]; then  
    CONF=$CONF$CONF_0;  
else  
    CONF=$CONF$CONF_1;  
fi  
  
# Please install epel-release first.
```

```
PREBUILD="\
gcc \
libxml2 \
libxml2-devel \
openssl \
openssl-devel \
bzip2 \
bzip2-devel \
libjpeg \
libjpeg-devel \
libpng \
libpng-devel \
gettext \
gettext-devel \
freetype \
freetype-devel \
libmcrypt \
libmcrypt-devel \
libcurl \
libcurl-devel"
```

```
yum install -y $PREBUILD;
```

```
if [ $? -eq 0 ];then
    ./configure $CONF && make && make install
fi
```

Q: 如何配置 **php** 并使之适合 **zabbix3.0.4** ?

A: 配置项目其实很少, 如下: 0. 复制启动文件 /usr/local/src/php-7.0.10/sapi/fpm/php-fpm.service 到 /lib/systemd/system/php-fpm.service, 并修改里面的路径到程序主目录 1. 新建用户 php-fpm 和组 php-fpm 2. 两个示例文件 /usr/local/php/etc/php-fpm.conf.example 和 /usr/local/php/etc/php-fpm.d/www.conf.example, 去掉 example 字样 3. 一些基本的修改不赘述了, 应 zabbix 要求, 需要在 /usr/local/php/etc/php-fpm.d/www.conf 结尾加入如下内容, 之后就可以运行了:

```
php_value[max_execution_time] = 300
```

```
php_value[post_max_size] = 16M
php_value[date.timezone] = "Asia/Shanghai"
```

Q: 如何编译安装 nginx1.10stable ?

A: 这个相对来说就很简单了，如下：1. 下载[源码包](#)并解压。关于校验，官网有[pgp 文件](#)，公钥用[这个](#)。2. 进入源码目录下编译，可能需要解决写依赖关系：

```
CUS_CONF="\
--prefix=/usr/local/nginx/ \
--with-http_realip_module \
--with-http_sub_module \
--with-http_gzip_static_module \
--with-http_stub_status_module \
--with-http_ssl_module \
--with-pcre"

./configure $CUS_CONF && make && make install
```

Q: 如何配置启动 nginx ?

A: 依旧是 nginx 配置文件 + systemd 启动服务文件。1. 启动服务文件可以从[nginx.com](#)上复制；2. 配置文件在 /usr/local/nginx/conf/nginx.conf，安装需求修改，比如针对 Zabbix 的一段内容，之后就可以启动 nginx 了：

```
server {
    listen 8080;

    access_log /usr/local/nginx/logs/1.access.log main;
    error_log /usr/local/nginx/logs/1.error.log;
    root /home/html/1;

    location / {
        index index.php index.html;
    }
}
```

```

#error_page 404                /404.html;

# redirect server error pages to the static page /50x.html
#
error_page 500 502 503 504    /50x.html;
location = /50x.html {
    root    /usr/local/nginx/html;
}

# pass the PHP scripts to FastCGI server listening on 127.0.0.1:9000
#
location ~ /\.php$ {
    fastcgi_pass    127.0.0.1:9000;
    fastcgi_param   SCRIPT_FILENAME $document_root$fastcgi_script_name;
    include         fastcgi_params;
}
}

```

准备工作结束了，如何编译安装 **Zabbix** 呢？

其实可以参考[官方网站](#)的内容，也很简单。

整理了一下如下：###1. 下载[源码包](#)，解压并进入。这个我没有找到校验文件... ###2. 创建用户，一般就创建一个组为 zabbix 的 zabbix 用户即可，注意的是，当 Zabbix 的 server 和 agent 同时运行在一台主机上时，推荐是将 server 的运行用户独立于 agent 的运行用户的，不然 agent 可以访问 server 的配置文件，甚至数据库。###3. 创建数据库，这个在源码包里面有现成的脚本，一般这样子使用（针对我的 Mysql 数据库）：

```

shell> mysql -uroot -p<password>
mysql> create database zabbix character set utf8 collate utf8_bin;
mysql> grant all privileges on zabbix.* to zabbix@localhost identified by '<password>';
mysql> quit;
shell> cd database/mysql
shell> mysql -uzabbix -p<password> zabbix < schema.sql
# 如果仅仅是运行一个agent代理的话，下面的数据库文件不需要导入
shell> mysql -uzabbix -p<password> zabbix < images.sql
shell> mysql -uzabbix -p<password> zabbix < data.sql

```

4. 配置编译安装。配置选项 `--prefix=/usr/local/zabbix --enable-server --enable-agent --with-mysql --enable-ipv6 --with-net-snmp --with-libcurl --with-libxml2`，这将安装上 **server** 和 **agent** 两个功能

5. 编辑 **Zabbix** 目录 **etc** 目录下的配置文件，因为我是在一台机器上同时运行服务器和代理的，所以两个配置文件都需要配置。这边贴出来的删除了大量没有配置的选项及其注释，但是对于已经配置的选项的注释并没有删除。

```
##/usr/local/zabbix/etc/zabbix_agentd.conf
# This is a configuration file for Zabbix agent daemon (Unix)
# To get more information about Zabbix, visit http://www.zabbix.com
```

```
##### GENERAL PARAMETERS #####
```

```
### Option: PidFile
#   Name of PID file.
#
```

```
# Mandatory: no
# Default:
PidFile=/tmp/zabbix_agentd.pid
```

```
### Option: LogFile
#   Log file name for LogType 'file' parameter.
#
```

```
# Mandatory: no
# Default:
# LogFile=
```

```
LogFile=/var/log/zabbix/zabbix_agentd.log
```

```
### Option: LogFileSize
#   Maximum size of log file in MB.
#   0 - disable automatic log rotation.
#
```

```
# Mandatory: no
# Range: 0-1024
# Default:
LogFileSize=5
```

Option: Server

```
# List of comma delimited IP addresses (or hostnames) of Zabbix servers.
# Incoming connections will be accepted only from the hosts listed here.
# If IPv6 support is enabled then '127.0.0.1', '::127.0.0.1', '::ffff:127.0.0.1' are treated equally.
#
# Mandatory: no
# Default:
# Server=
```

```
Server=127.0.0.1
```

Option: ListenPort

```
# Agent will listen on this port for connections from the server.
#
# Mandatory: no
# Range: 1024-32767
# Default:
ListenPort=10050
```

Option: ListenIP

```
# List of comma delimited IP addresses that the agent should listen on.
# First IP address is sent to Zabbix server if connecting to it to retrieve list of active checks.
#
# Mandatory: no
# Default:
ListenIP=127.0.0.1
```

Option: ServerActive

```
# List of comma delimited IP:port (or hostname:port) pairs of Zabbix servers for active checks.
# If port is not specified, default port is used.
# IPv6 addresses must be enclosed in square brackets if port for that host is specified.
# If port is not specified, square brackets for IPv6 addresses are optional.
# If this parameter is not specified, active checks are disabled.
# Example: ServerActive=127.0.0.1:20051,zabbix.domain,[::1]:30051,::1,[12fc::1]
#
```

```
# Mandatory: no
# Default:
# ServerActive=
```

```
ServerActive=127.0.0.1:10051
```

```
### Option: Hostname
```

```
# Unique, case sensitive hostname.
# Required for active checks and must match hostname as configured on the server.
# Value is acquired from HostnameItem if undefined.
#
# Mandatory: no
# Default:
# Hostname=
```

```
Hostname=your hostname
```

```
### Option: AllowRoot
```

```
# Allow the agent to run as 'root'. If disabled and the agent is started by 'root', the agent
# will try to switch to the user specified by the User configuration option instead.
# Has no effect if started under a regular user.
# 0 - do not allow
# 1 - allow
#
# Mandatory: no
# Default:
# AllowRoot=0
```

```
### Option: User
```

```
# Drop privileges to a specific, existing user on the system.
# Only has effect if run as 'root' and AllowRoot is disabled.
#
# Mandatory: no
# Default:
User=zabbix-agent
```



```
##/usr/local/zabbix/etc/zabbix_server.conf
# This is a configuration file for Zabbix server daemon
# To get more information about Zabbix, visit http://www.zabbix.com
```

```
##### GENERAL PARAMETERS #####
```

```
### Option: ListenPort
# Listen port for trapper.
#
```

```
# Mandatory: no
# Range: 1024-32767
# Default:
ListenPort=10051
```

```
### Option: LogFile
# Log file name for LogType 'file' parameter.
#
```

```
# Mandatory: no
# Default:
# LogFile=
```

```
LogFile=/var/log/zabbix/zabbix_server.log
```

```
### Option: LogFileSize
# Maximum size of log file in MB.
# 0 - disable automatic log rotation.
#
```

```
# Mandatory: no
# Range: 0-1024
# Default:
LogFileSize=5
```

```
### Option: PidFile
# Name of PID file.
#
```

```
# Mandatory: no
```

Default:

PidFile=/tmp/zabbix_server.pid

Option: DBName

Database name.

For SQLite3 path to database file must be provided. DBUser and DBPassword are ignored.

#

Mandatory: yes

Default:

DBName=

DBName=zabbix

Option: DBUser

Database user. Ignored for SQLite.

#

Mandatory: no

Default:

DBUser=

DBUser=zabbix

Option: DBPassword

Database password. Ignored for SQLite.

Comment this line if no password is used.

#

Mandatory: no

Default:

DBPassword=passwd

Option: DBSocket

Path to MySQL socket.

#

Mandatory: no

Default:

DBSocket=/var/lib/mysql/mysql.sock

```
### Option: DBPort
# Database port when not using local socket. Ignored for SQLite.
#
# Mandatory: no
# Range: 1024-65535
# Default (for MySQL):
DBPort=3306
```

ADVANCED PARAMETERS

```
### Option: ListenIP
# List of comma delimited IP addresses that the trapper should listen on.
# Trapper will listen on all network interfaces if this parameter is missing.
#
# Mandatory: no
# Default:
# ListenIP=0.0.0.0
```

```
ListenIP=127.0.0.1
```

```
### Option: Timeout
# Specifies how long we wait for agent, SNMP device or external check (in seconds).
#
# Mandatory: no
# Range: 1-30
# Default:
# Timeout=3
```

```
Timeout=4
```

```
### Option: LogSlowQueries
# How long a database query may take before being logged (in milliseconds).
# Only works if DebugLevel set to 3, 4 or 5.
# 0 - don't log slow queries.
#
```

```
# Mandatory: no
# Range: 1-3600000
# Default:
# LogSlowQueries=0
```

```
LogSlowQueries=3000
```

```
### Option: AllowRoot
```

```
# Allow the server to run as 'root'. If disabled and the server is started by 'root', the server
# will try to switch to the user specified by the User configuration option instead.
# Has no effect if started under a regular user.
# 0 - do not allow
# 1 - allow
#
```

```
# Mandatory: no
# Default:
# AllowRoot=0
```

```
### Option: User
```

```
# Drop privileges to a specific, existing user on the system.
# Only has effect if run as 'root' and AllowRoot is disabled.
#
# Mandatory: no
# Default:
User=zabbix
```

6. 启动 **zabbix server** 和 **zabbix agentd**

```
# zabbix_server
# zabbix_agentd
```

7. 接下来就是安装 **Zabbix** 的 **Web** 接口了

这个非常简单，把源码目录下的 frontends/php 这个目录整个拷贝到 nginx 配置的根目录下，然后网页访问后，根据提示配置即可。注意防火墙权限，注意复制过去后，将目录权限开放给 PHP 的用户，我这里是 php-fpm 这个用户。不然可能无法配置成功。

配置安装时候遇到的几个问题。

- ``configure: error: MySQL library not found"，这个是因为没有安装 mariadb-devel 导致的。
- ``configure: error: Invalid NET-SNMP directory - unable to find net-snmp-config"，这个是因为没有安装 net-snmp net-snmp-devel 导致的。
- 配置到数据库的时候，出现 ``Error connecting to database: No such file or directory"，最后发现是因为 mysqli 下使用 localhost 作为地址连接 mysql 数据库的问题，真奇怪，改成 127.0.0.1 就好了...

以上。