

引用博客主“差点点温柔”的技术文档做的笔记，感谢！

原文链接：<http://www.cnblogs.com/zhaijunming5/p/6899795.html>

基础信息：

内核版本：Linux version 3.10.0-514.el7.x86_64

LINUX 版本：CentOS Linux release 7.3.1611 (Core)

Zabbix 版本：3.2.6

步骤一：安装依赖包

```
[root@localhost ~]# yum install lrzsz chrony gcc gcc-c++ git openssl-devel perl-ExtUtils-
CBuilder perl-ExtUtils-MakeMaker -y
```

```
Cleanup      : chrony-2.1.1-3.el7.centos.x86_64                13/13
Verifying    : 1:perl-Params-Check-0.38-2.el7.noarch          1/13
Verifying    : perl-Perl-OSType-1.003-3.el7.noarch            2/13
Verifying    : 3:perl-version-0.99.07-2.el7.x86_64           3/13
Verifying    : 1:perl-Locale-Maketext-Simple-0.21-291.el7.noarch 4/13
Verifying    : 1:perl-Module-Load-0.24-3.el7.noarch           5/13
Verifying    : perl-Module-Load-Conditional-0.54-3.el7.noarch 6/13
Verifying    : perl-Module-Metadata-1.000018-2.el7.noarch     7/13
Verifying    : perl-Locale-Maketext-1.23-3.el7.noarch         8/13
Verifying    : 1:perl-Module-CoreList-2.76.02-291.el7.noarch  9/13
Verifying    : 1:perl-IPC-Cmd-0.80-4.el7.noarch               10/13
Verifying    : 1:perl-ExtUtils-CBuilder-0.28.2.6-291.el7.noarch 11/13
Verifying    : chrony-2.1.1-4.el7.centos.x86_64              12/13
Verifying    : chrony-2.1.1-3.el7.centos.x86_64              13/13

Installed:
  perl-ExtUtils-CBuilder.noarch 1:0.28.2.6-291.el7

Dependency Installed:
  perl-IPC-Cmd.noarch 1:0.80-4.el7
  perl-Locale-Maketext.noarch 0:1.23-3.el7
  perl-Locale-Maketext-Simple.noarch 1:0.21-291.el7
  perl-Module-CoreList.noarch 1:2.76.02-291.el7
  perl-Module-Load.noarch 1:0.24-3.el7
  perl-Module-Load-Conditional.noarch 0:0.54-3.el7
  perl-Module-Metadata.noarch 0:1.000018-2.el7
  perl-Params-Check.noarch 1:0.38-2.el7
  perl-Perl-OSType.noarch 0:1.003-3.el7
  perl-version.x86_64 3:0.99.07-2.el7

Updated:
  chrony.x86_64 0:2.1.1-4.el7.centos

Complete!
```

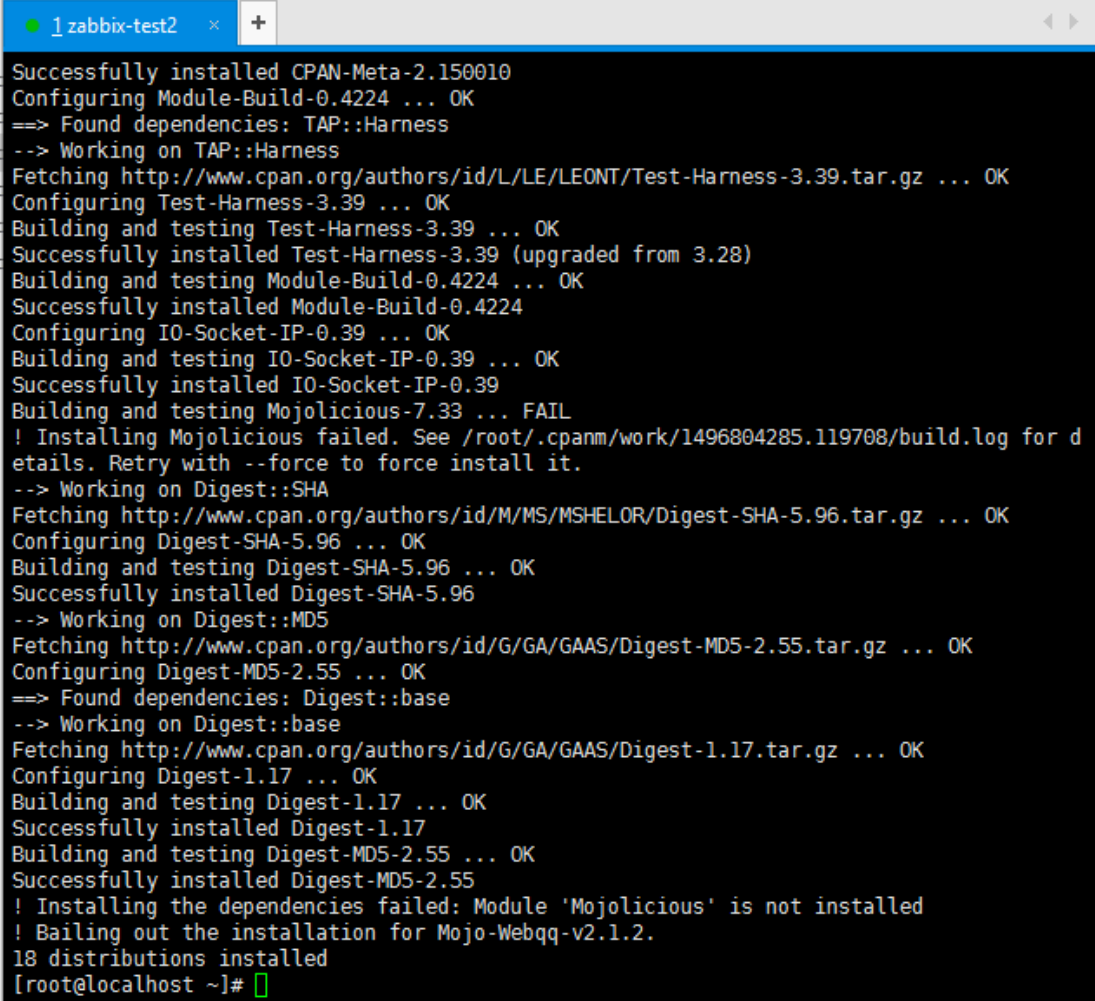
安装 cpanm 包管理工具

```
[root@localhost ~]# curl -kL http://cpanmin.us | perl - App::cpanminus
```

```
[root@localhost ~]# curl -kL http://cpanmin.us | perl - App::cpanminus
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           % Done    0     0 10389   0 0:00:29 0:00:29 --:--:-- 12022
--> Working on App::cpanminus
Fetching http://www.cpan.org/authors/id/M/MI/MIYAGAWA/App-cpanminus-1.7043.tar.gz ... OK
Configuring App-cpanminus-1.7043 ... OK
==> Found dependencies: Test::More
--> Working on Test::More
Fetching http://www.cpan.org/authors/id/E/EX/EXODIST/Test-Simple-1.302085.tar.gz ... OK
Configuring Test-Simple-1.302085 ... OK
Building and testing Test-Simple-1.302085 ... OK
Successfully installed Test-Simple-1.302085
Building and testing App-cpanminus-1.7043 ... OK
Successfully installed App-cpanminus-1.7043
2 distributions installed
[root@localhost ~]#
```

使用 **cpanm** 在线安装 **Mojo::Webqq**

[root@localhost ~]# cpanm Mojo::Webqq



```
1 zabbix-test2 x +
Successfully installed CPAN-Meta-2.150010
Configuring Module-Build-0.4224 ... OK
==> Found dependencies: TAP::Harness
--> Working on TAP::Harness
Fetching http://www.cpan.org/authors/id/L/LE/LEONT/Test-Harness-3.39.tar.gz ... OK
Configuring Test-Harness-3.39 ... OK
Building and testing Test-Harness-3.39 ... OK
Successfully installed Test-Harness-3.39 (upgraded from 3.28)
Building and testing Module-Build-0.4224 ... OK
Successfully installed Module-Build-0.4224
Configuring IO-Socket-IP-0.39 ... OK
Building and testing IO-Socket-IP-0.39 ... OK
Successfully installed IO-Socket-IP-0.39
Building and testing Mojolicious-7.33 ... FAIL
! Installing Mojolicious failed. See /root/.cpanm/work/1496804285.119708/build.log for details. Retry with --force to force install it.
--> Working on Digest::SHA
Fetching http://www.cpan.org/authors/id/M/MS/MSHELOR/Digest-SHA-5.96.tar.gz ... OK
Configuring Digest-SHA-5.96 ... OK
Building and testing Digest-SHA-5.96 ... OK
Successfully installed Digest-SHA-5.96
--> Working on Digest::MD5
Fetching http://www.cpan.org/authors/id/G/GA/GAAS/Digest-MD5-2.55.tar.gz ... OK
Configuring Digest-MD5-2.55 ... OK
==> Found dependencies: Digest::base
--> Working on Digest::base
Fetching http://www.cpan.org/authors/id/G/GA/GAAS/Digest-1.17.tar.gz ... OK
Configuring Digest-1.17 ... OK
Building and testing Digest-1.17 ... OK
Successfully installed Digest-1.17
Building and testing Digest-MD5-2.55 ... OK
Successfully installed Digest-MD5-2.55
! Installing the dependencies failed: Module 'Mojolicious' is not installed
! Bailing out the installation for Mojo-Webqq-v2.1.2.
18 distributions installed
[root@localhost ~]#
```

使用 **cpanm** 在线安装邮件依赖模板

[root@localhost ~]# cpanm Mojo::SMTP::Client MIME::Lite

```
1 zabbix-test2 x +
--> Working on Mojolicious
Fetching http://www.cpan.org/authors/id/S/SR/SRI/Mojolicious-7.33.tar.gz ... OK
Configuring Mojolicious-7.33 ... OK
Building and testing Mojolicious-7.33 ... OK
Successfully installed Mojolicious-7.33
Building and testing Mojo-SMTP-Client-0.12 ... OK
Successfully installed Mojo-SMTP-Client-0.12
--> Working on MIME::Lite
Fetching http://www.cpan.org/authors/id/R/RJ/RJBS/MIME-Lite-3.030.tar.gz ... OK
Configuring MIME-Lite-3.030 ... OK
==> Found dependencies: Email::Date::Format, MIME::Types, Mail::Address
--> Working on Email::Date::Format
Fetching http://www.cpan.org/authors/id/R/RJ/RJBS/Email-Date-Format-1.005.tar.gz ... OK
Configuring Email-Date-Format-1.005 ... OK
Building and testing Email-Date-Format-1.005 ... OK
Successfully installed Email-Date-Format-1.005
--> Working on MIME::Types
Fetching http://www.cpan.org/authors/id/M/MA/MARKOV/MIME-Types-2.13.tar.gz ... OK
Configuring MIME-Types-2.13 ... OK
Building and testing MIME-Types-2.13 ... OK
Successfully installed MIME-Types-2.13
--> Working on Mail::Address
Fetching http://www.cpan.org/authors/id/M/MA/MARKOV/MailTools-2.18.tar.gz ... OK
Configuring MailTools-2.18 ... OK
==> Found dependencies: Date::Format, Date::Parse
--> Working on Date::Format
Fetching http://www.cpan.org/authors/id/G/GB/GBARR/TimeDate-2.30.tar.gz ... OK
Configuring TimeDate-2.30 ... OK
Building and testing TimeDate-2.30 ... OK
Successfully installed TimeDate-2.30
Building and testing MailTools-2.18 ... OK
Successfully installed MailTools-2.18
Building and testing MIME-Lite-3.030 ... OK
Successfully installed MIME-Lite-3.030
7 distributions installed
[root@localhost ~]#
```

步骤二：编写脚本

需要两个脚本：

- qqlogin.pl:在脚本里输入 QQ 号,然后脚本把二维码发送到脚本里定义的邮箱,然后手机登录 QQ 扫描二维码登录 QQ.(接收报警信息)
- qqclient.sh:把报警信息发送给指定的 QQ 号或者 QQ 群

qqlogin.pl

```
#!/usr/bin/env perl
use Mojo::Webqq;
my ($qq,$host,$port,$post_api);
$qq = 1770XXXXXX;    #修改为你自己的实际 QQ 号码(用此 QQ 发送报警信息到指定的 QQ)
$host = "0.0.0.0";    #发送消息接口监听地址, 修改为自己希望监听的地址
$port = 5000;        #发送消息接口监听端口, 修改为自己希望监听的端口

my $client = Mojo::Webqq->new(qq=>$qq);
#配置邮件, 发送登录的二维码图片到邮箱中, 如果不使用邮箱可以在/tmp 下找到对应图片
(进入这个邮箱找到二维码,用手机 QQ 扫描登录,前提是手机 QQ 登录的是 1770XXXXXX 的 QQ)
$client->load("PostQRcode",data=>{
    smtp    => 'smtp.163.com',        #邮箱的 smtp 地址
    port    => '25',                  #smtp 服务器端口, 默认 25
    from     => 'XXXXXXXXXX@163.com', #发件人
    to       => 'XXXXXXXXXX@163.com', #收件人
    user     => 'xxxxxxxxxx@163.com', #smtp 登录帐号
    pass     => 'XXXXXX',             #smtp 登录密码(一定要写客户端验证密码)
});

$client->login();
#$client->load("ShowMsg");            #接收用户和群消息, 没有用, 注释掉吧
$client->load("Openqq",data=>{listen=>{{host=>$host,port=>$port}}, post_api=>$post_api});
$client->run();
```

qqclient.sh

```
#!/bin/bash
#好友的 QQ 号码
qq=$1

#Mojoqq 服务器地址与端口号
server="172.16.1.229"
port="5000"

#消息内容处理下编码, 用于合并告警内容的标题和内容, 即$2 和$3
message=`echo -e "$2\n$3"|od -t x1 -A n -v -w100000 | tr " " %`

#调用的 api 接口
api_url="http://$server:$port/openqq/send_friend_message"
parameter="uid=$qq&content=$message"

#post 方式提交请求发送 QQ 好友消息
curl -d $parameter $api_url
```

查看 zabbix_server.conf 配置文件 AlertScripts 脚本放置路径:

```
#      How often host is checked for availability during the unavailability period, in
seconds.
#
# Mandatory: no
# Range: 1-3600
# Default:
# UnavailableDelay=60

### Option: UnreachableDelay
#      How often host is checked for availability during the unreachability period, in
seconds.
#
# Mandatory: no
# Range: 1-3600
# Default:
# UnreachableDelay=15

## Option: AlertScriptsPath
#      Full path to location of custom alert scripts.
#      Default depends on compilation options.
#
# Mandatory: no
# Default:
# AlertScriptsPath=${datadir}/zabbix/alertscripts
AlertScriptsPath=/usr/local/zabbix-server/share/zabbix/alertscripts

### Option: ExternalScripts
#      Full path to location of external scripts.
#      Default depends on compilation options.
#
# Mandatory: no
# Default:
# ExternalScripts=${datadir}/zabbix/externalscripts

### Option: FpingLocation
```

446,1

71%

我的路径设置在/usr/local/zabbix-server/share/zabbix/alertscripts, 把 qqlogin.pl qqclient.sh 文件放在上述路径中,

```
[root@localhost ~]# cd /usr/local/zabbix-server/share/zabbix/alertscripts
```

vim qqlogin.pl 按" I "进入编辑模式, 粘贴内容会格式乱, 我选择在 WINDOWS 下用 notepad++ 等工具创建好文件上传。最好不要用 WINDOWS 文本文件或记事本创建, 以防空格等转译问题脚本发生错误。

```
#!/usr/bin/env perl
use Mojo::Webqq;
my ($qq,$host,$port,$post_api);
$qq = "1778XXXXX"; #修改为你自己的实际QQ号码(用此QQ发送报警信息到指定的QQ)
$host = "127.0.0.1"; #发送消息接口监听地址,修改为自己希望监听的地址
$port = 5000; #发送消息接口监听端口,修改为自己希望监听的端口

my $client = Mojo::Webqq->new($qq=>$qq);
#配置邮件,发送登录的二维码图片到邮箱中,如果不使用邮箱可以在/tmp下找到对应图片(进入这个
#邮箱找到二维码,用手机QQ扫描登录,前提是手机QQ登录的是1778XXXXXX的QQ)
$client->load("PostQRcode",data=>{
    smtp => 'smtp.qq.com', #邮箱的smtp地址
    port => '25', #smtp服务器端口,默认25
    from => '1778XXXXX@qq.com', #发件人
    to => '1778XXXXX@qq.com', #收件人
    user => '1778XXXXX@qq.com', #smtp登录帐号
    pass => '1778XXXXX', #smtp登录密码(一定要写客户端验证密码)
});

$client->login();
#client->load("ShowMsg"); #接收用户和群消息,没有用,注释掉吧
$client->load("Openqq",data=>{listen=>{{host=>$host,port=>$port}}, post_api=>$post_api});
$client->run();
```

```
#!/bin/bash
#好友的QQ号码
qq=1778XXXXX

#Mojoqq服务器地址与端口号
server="127.0.0.1"
port="5000"

#消息内容处理下编码,用于合并报警内容的标题和内容,即$2和$3
message="echo -e \"$2\n$3\"|od -t x1 -A n -v -w160000 | tr " " %"

#调用的api接口
api_url="http://$server:$port/openqq/send_friend_message"
parameter="uid=$qq&content=$message"

#post方式提交请求发送QQ好友消息
curl -d $parameter $api_url

-- INSERT --
```

6,18 All

创建好脚本后增加可执行和所有人

```
[root@localhost alertscripts]# chmod +x qqlogin.pl
```

```
[root@localhost alertscripts]# chown zabbix.zabbix qqlogin.pl
```

```
[root@localhost alertscripts]# chmod +x qqclient.sh
```

```
[root@localhost alertscripts]# chown zabbix.zabbix qqclient.sh
```

测试 QQ 登录脚本

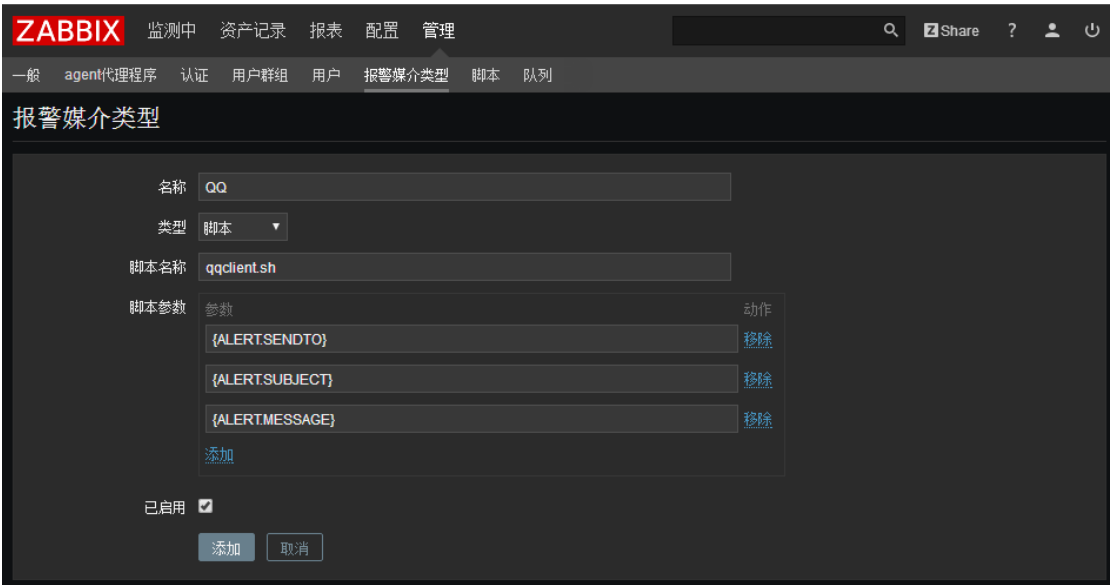
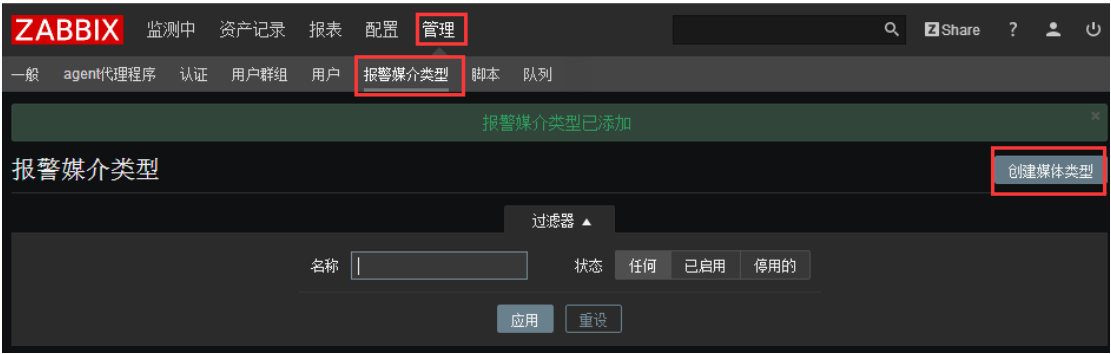
运行命令后登录到邮箱,打开邮件,手机 QQ 登录发消息方扫描二维码

```
[root@localhost alertscripts]# perl qqlogin.pl
[17/06/07 12:29:54] [info] 当前正在使用 Mojo-Webqq v2.1.2
[17/06/07 12:29:54] [info] 客户端加载cookie[ /tmp/mojo_webqq_cookie_default.dat ]
[17/06/07 12:29:54] [info] 执行插件[ Mojo::Webqq::Plugin::PostQRcode ]
[17/06/07 12:29:54] [info] 初始化 smartqq 客户端参数...
[17/06/07 12:29:54] [info] 正在获取登录二维码...
[17/06/07 12:29:54] [info] 二维码已下载到本地[ /tmp/mojo_webqq_qrcode_default.png ]
[17/06/07 12:29:55] [info] 登录二维码已经发送到邮箱: 1778XXXXX@qq.com
[17/06/07 12:29:55] [info] 等待手机QQ扫描二维码...
[17/06/07 12:31:56] [info] 登录二维码已失效, 重新获取二维码
[17/06/07 12:31:56] [info] 正在获取登录二维码...
[17/06/07 12:31:56] [info] 清除残留的历史二维码图片
[17/06/07 12:31:56] [info] 二维码已下载到本地[ /tmp/mojo_webqq_qrcode_default.png ]
[17/06/07 12:31:57] [info] 登录二维码已经发送到邮箱: 1778XXXXX@qq.com
[17/06/07 12:33:31] [info] 手机QQ扫码成功, 请在手机上点击[允许登录smartQQ]按钮...
[17/06/07 12:33:34] [info] 检查安全代码...
[17/06/07 12:33:34] [info] 获取数据验证参数...
[17/06/07 12:33:34] [info] 尝试进行登录(2)...
[17/06/07 12:33:34] [info] 帐号(1778XXXXX)登录成功
[17/06/07 12:33:34] [info] 清除残留的历史二维码图片
[17/06/07 12:33:34] [info] 更新个人信息...
[17/06/07 12:33:34] [info] 更新好友信息...
[17/06/07 12:33:34] [info] 更新好友扩展信息...
[17/06/07 12:33:34] [info] 更新群列表信息...
[17/06/07 12:33:34] [info] 更新讨论组列表信息...
[17/06/07 12:33:34] [info] 执行插件[ Mojo::Webqq::Plugin::Openqq ]
[17/06/07 12:33:34] [info] Listening at "http://127.0.0.1:5000"
Server available at http://127.0.0.1:5000
[17/06/07 12:33:34] [info] 开始接收消息...
```

上面表示测试成功, 执行以下命令启动 QQ 登录脚本.

```
[root@localhost alertscripts]# setsid perl /usr/local/zabbix-
server/share/zabbix/alertscripts/qqlogin.pl &
```

步骤三：zabbix 前端设置

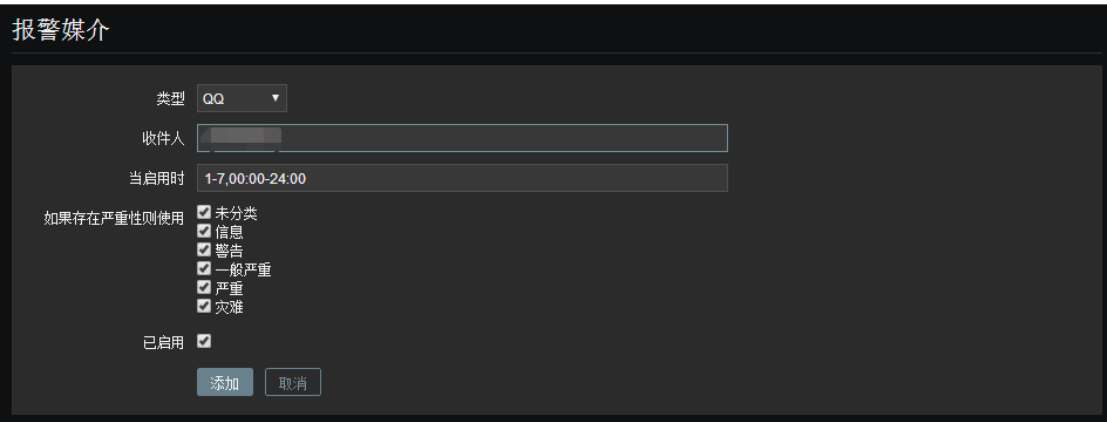


{ALERT.SENDTO}
{ALERT.SUBJECT}
{ALERT.MESSAGE}





收件人这里填的是收信息的 QQ 号



ZABBIX

监测中 资产记录 报表 配置 管理

搜索

Share ? 用户 电源

主机群组 模板 主机 维护 动作 关联项事件 自动发现 IT服务

动作

动作 操作 恢复操作

名称

QQ

条件

标签

A

名称

维护状态 非在 维护

动作

移除

新的触发条件

触发器名称

似

添加

已启用

☒

添加

取消

主机群组 模板 主机 维护 动作 关联项事件 自动发现 IT服务

动作

动作 操作 恢复操作

默认操作步骤持续时间

3600 (最少60秒)

默认接收人

[(TRIGGER.SEVERITY)]服务器: {HOSTNAME1}发生: {TRIGGER.NAME}故障!

默认信息

告警主机: {HOSTNAME1}
主机分组: {TRIGGER.HOSTGROUP.NAME}
告警时间: {EVENT.DATE} {EVENT.TIME}
告警等级: {TRIGGER.SEVERITY}
告警信息: {TRIGGER.NAME}
告警项目: {TRIGGER.KEY1}
问题详情: {ITEM.NAME}; {ITEM.VALUE}

维护期间暂停操作

☒

操作

步骤

细节

开始于

持续时间(秒)

动作

操作细节

步骤

1 - 1 (0 - 无穷大)

步骤持续时间

60 (最少 60 秒, 0 为预设值)

操作类型

发送消息

发送到用户群组

用户群组

动作

添加

发送到用户

用户

Admin (Zabbix Administrator)

动作

移除

添加

仅送到

QQ

默认信息

☒

条件

标签

新的

名称

动作

添加

取消

添加

取消

告警主题:

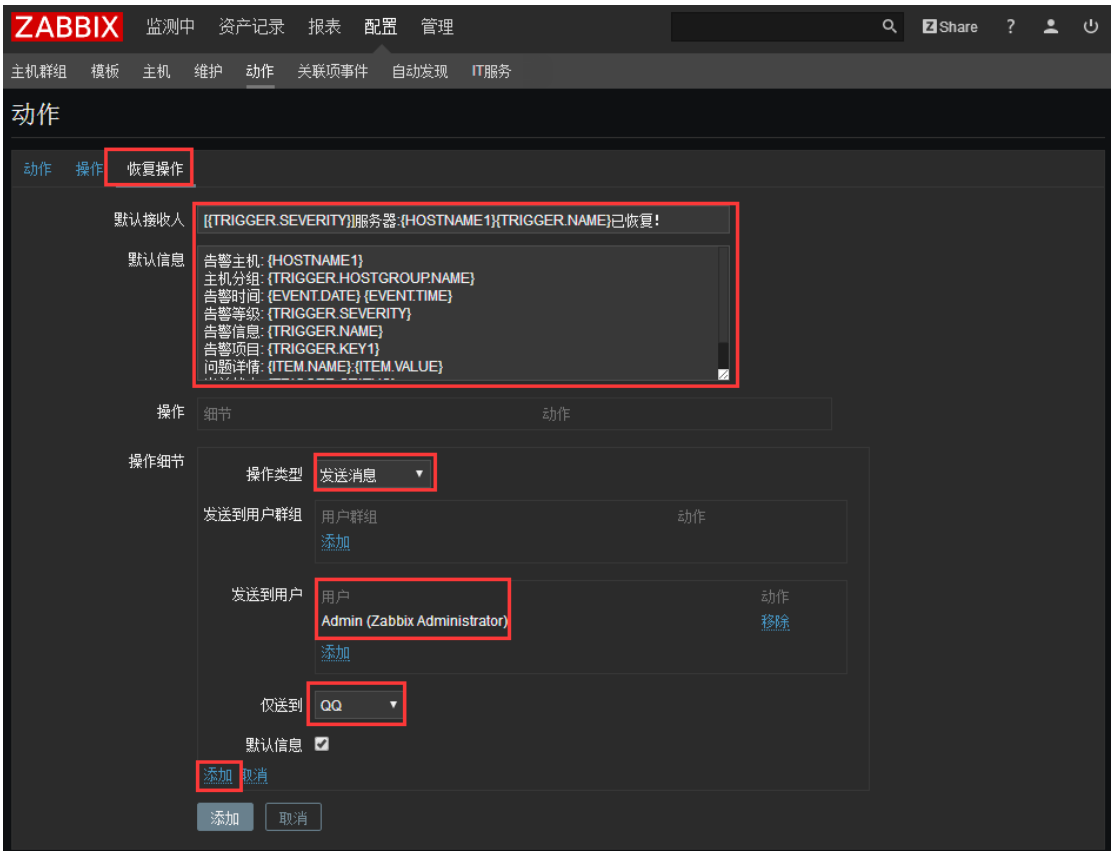
[{TRIGGER.SEVERITY}]服务器: {HOSTNAME1}发生: {TRIGGER.NAME}故障!

告警内容:

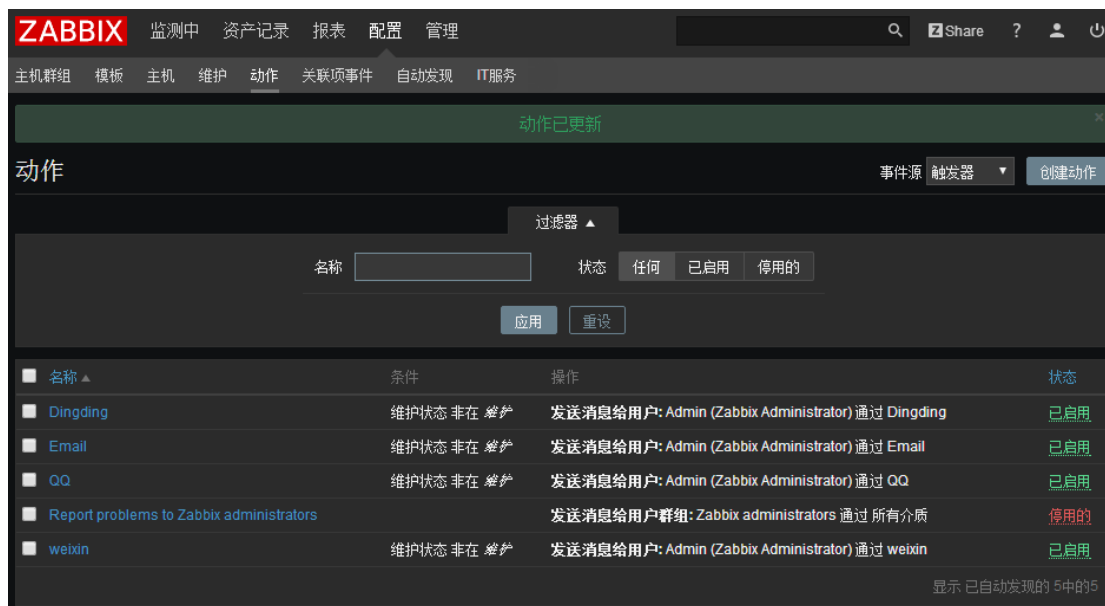
告警主机: {HOSTNAME1}

主机分组: {TRIGGER.HOSTGROUP.NAME}

告警时间: {EVENT.DATE} {EVENT.TIME}
告警等级: {TRIGGER.SEVERITY}
告警信息: {TRIGGER.NAME}
告警项目: {TRIGGER.KEY1}
问题详情: {ITEM.NAME}:{ITEM.VALUE}
当前状态: {TRIGGER.STATUS}
事件 ID: {EVENT.ID}

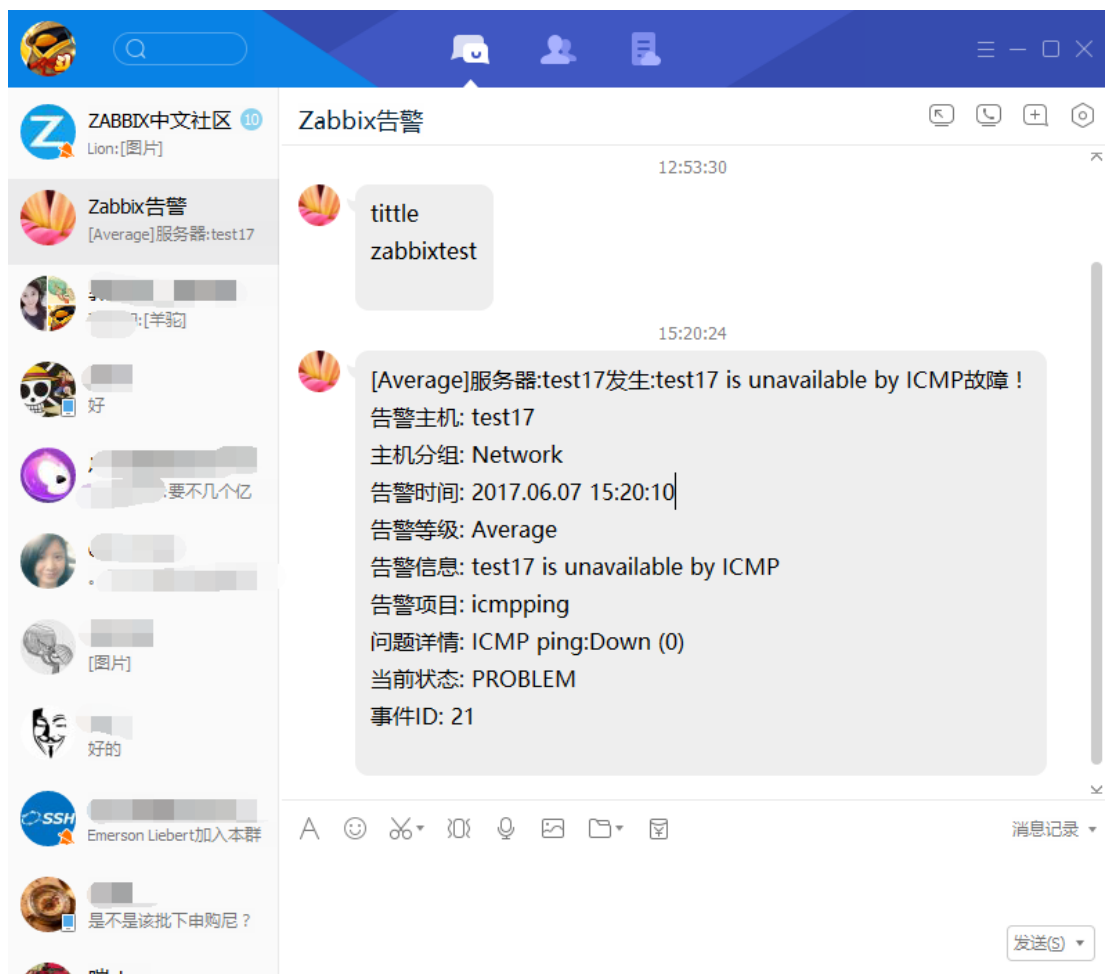


[{TRIGGER.SEVERITY}] 服务器: {HOSTNAME1} [{TRIGGER.NAME}] 已恢复!
告警主机: {HOSTNAME1}
主机分组: {TRIGGER.HOSTGROUP.NAME}
告警时间: {EVENT.DATE} {EVENT.TIME}
告警等级: {TRIGGER.SEVERITY}
告警信息: {TRIGGER.NAME}
告警项目: {TRIGGER.KEY1}
问题详情: {ITEM.NAME}:{ITEM.VALUE}
当前状态: {TRIGGER.STATUS}
事件 ID: {EVENT.ID}



至此设置完成！

测试结果如图：



错误与解决：

错误 1：can't locate webqq.pm

```
[root@localhost alertscripts]# perl qqlogin.pl
Can't locate Mojo/Webqq.pm in @INC (@INC contains: /usr/local/lib64/perl5 /usr/local/share/perl5 /usr/lib64/perl5/vendor_perl /usr/share/perl5/vendor_perl /usr/lib64/perl5 /usr/share/perl5 .) at qqlogin.pl line 2.
BEGIN failed--compilation aborted at qqlogin.pl line 2.
```

重新执行 cpanm Mojo::Webqq 命令解决

```
[root@localhost Webqq]# cpanm Mojo::Webqq
--> Working on Mojo::Webqq
Fetching http://www.cpan.org/authors/id/S/SJ/SJDY/Mojo-Webqq-2.1.2.tar.gz ... OK
Configuring Mojo-Webqq-v2.1.2 ... OK
Building and testing Mojo-Webqq-v2.1.2 ... OK
Successfully installed Mojo-Webqq-v2.1.2
1 distribution installed
```

错误 2：发送邮件失败

```
[root@localhost alertscripts]# perl qqlogin.pl
[17/06/07 12:17:51] [info] 当前正在使用 Mojo-Webqq v2.1.2
[17/06/07 12:17:51] [info] 客户端加载cookie[ /tmp/mojo_webqq_cookie_default.dat ]
[17/06/07 12:17:51] [info] 执行插件[ Mojo::Webqq::Plugin::PostQRcode ]
[17/06/07 12:17:51] [info] 初始化 smartqq 客户端参数...
[17/06/07 12:17:51] [info] 正在获取登录二维码...
[17/06/07 12:17:51] [info] 二维码已下载到本地[ /tmp/mojo_webqq_qrcode_default.png ]
[17/06/07 12:17:52] [error] 插件[Mojo::Webqq::Plugin::PostQRcode]邮件发送失败: Error: A
secure connection is requiered(such as ssl). More information at http://service.mail.qq.
com/cgi-bin/help?id=28
```

解决：不要用新开 QQ 的邮箱发送邮件，开启 SMTP 时会要求各种图片，身份验证。