# Zabbix使用自带模板监控MySQL

1、客户端创建用于查询数据的账户

mysql>GRANT USAGE ON \*.\* TO 'zabbix'@'localhost' IDENTIFIED BY 'zabbix';

2、配置userparameter\_mysql.conf

进入zabbix源码包路径复制，也可以通过本博文附件下载。

cd zabbix-3.2.6/conf/zabbix\_agentd/

cp userparameter\_mysql.conf /etc/zabbix/zabbix\_agentd.conf.d/

3、添加用来关联mysql的配置文件my.cnf，并修改模板配置文件中的mysql路径

cd /etc/zabbix/

vim .my.cnf

# Zabbix Agent

[mysql]

host=localhost

user=zabbix

password=zabbix

socket=/var/lib/mysql/mysql.sock

[mysqladmin]

host=localhost

user=zabbix

password=zabbix

socket=/var/lib/mysql/mysql.sock

4、修改userparameter\_mysql.conf

sed -i 's@/var/lib/zabbix@/etc/zabbix@g' /etc/zabbix/zabbix\_agentd.conf.d/userparameter\_mysql.conf

5、修改zabbix\_agentd.conf文件，添加下面一行

Include=/etc/zabbix/zabbix\_agentd.conf.d/\*.conf

6、重启zabbix\_agentd

service zabbix\_agentd restart

7、测试

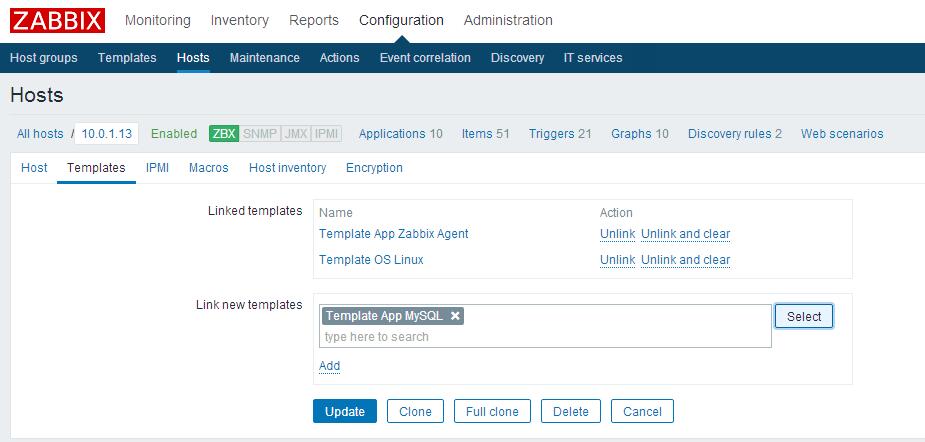
./zabbix\_get -s 10.0.1.13 -k mysql.ping

sh: mysqladmin: command not found

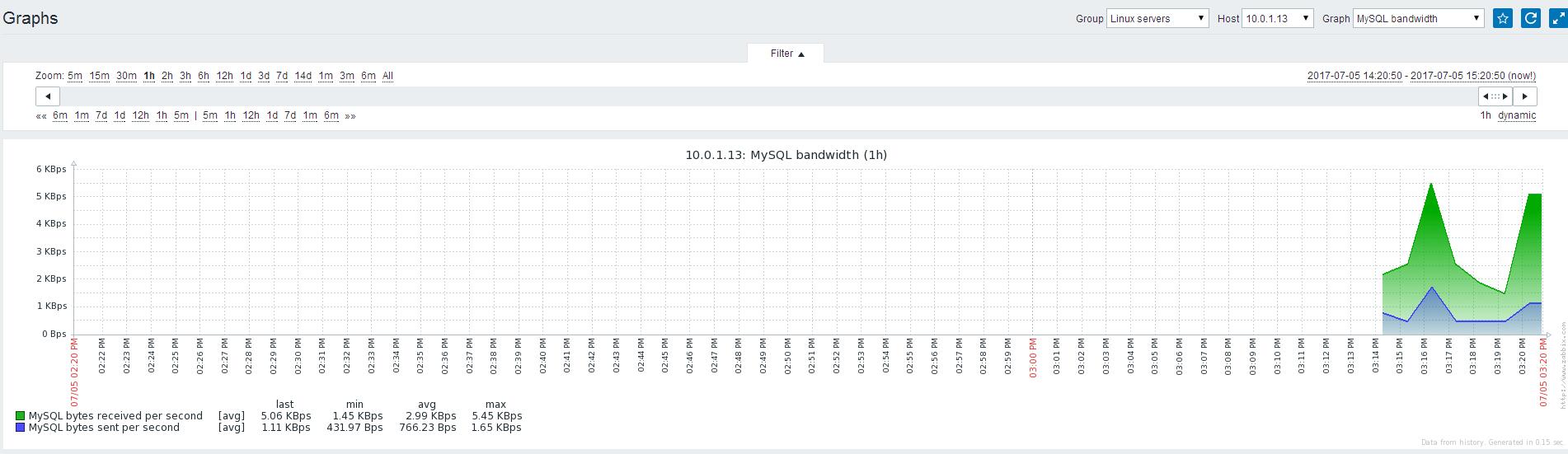
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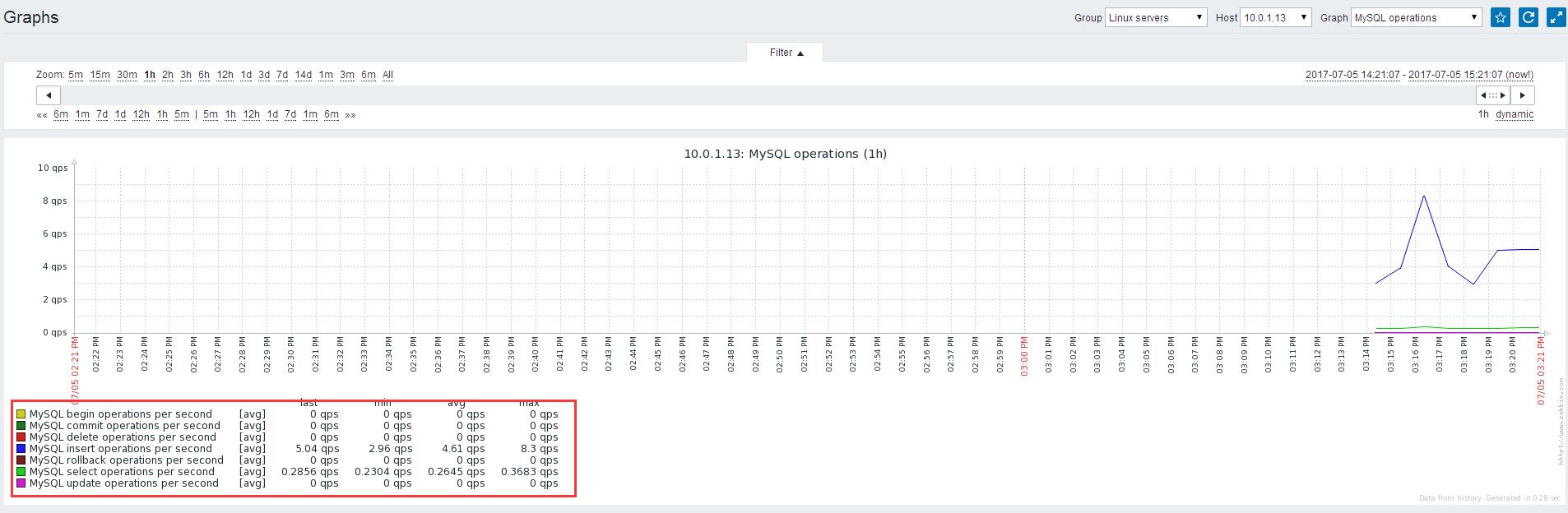
注意：如果测试的时候报错：sh: mysql: command not found，sh: mysqladmin: command not found，修改userparameter\_mysql.conf中mysql，mysqladmin命令的路径，使用绝对路径。

1. **配置Zabbix WEB界面**

[](https://s3.51cto.com/wyfs02/M00/9A/F5/wKioL1lckXSQZBDWAACg6g9_s_0015.jpg)

1. **数据输出**

[](https://s4.51cto.com/wyfs02/M02/9A/F5/wKiom1lck4STwdrNAAG8I8z8e04447.jpg)

[](https://s1.51cto.com/wyfs02/M00/9A/F5/wKioL1lck4SwpQ3_AAH4_rppyng219.jpg)

**10 远程执行命令功能**

**1:在zabbix agent端配置允许远程执行命令(修改/etc/zabbix/zabbix\_agentd.conf文件，开启EnableRemoteCommands选项，并设置该选项值为1),并重新启动zabbix-agent服务**

**[root@linux-node2 zabbix]# grep "EnableRemoteCommands" zabbix\_agentd.conf**

**### Option: EnableRemoteCommands**

**EnableRemoteCommands=1**

**[root@linux-node2 zabbix]# service zabbix-agent restart**

**2:配置允许zabbix用户具有远程执行命令的权限(使用visudo命令进入权限配置文件中，添加以下配置**

**## Allow root to run any commands anywhere**

**root ALL=(ALL) ALL**

**zabbix ALL=NOPASSWD: ALL**

**zabbix ALL=NOPASSWD: /etc/init.d/mysqld restart**

**并屏蔽掉以下配置内容:**

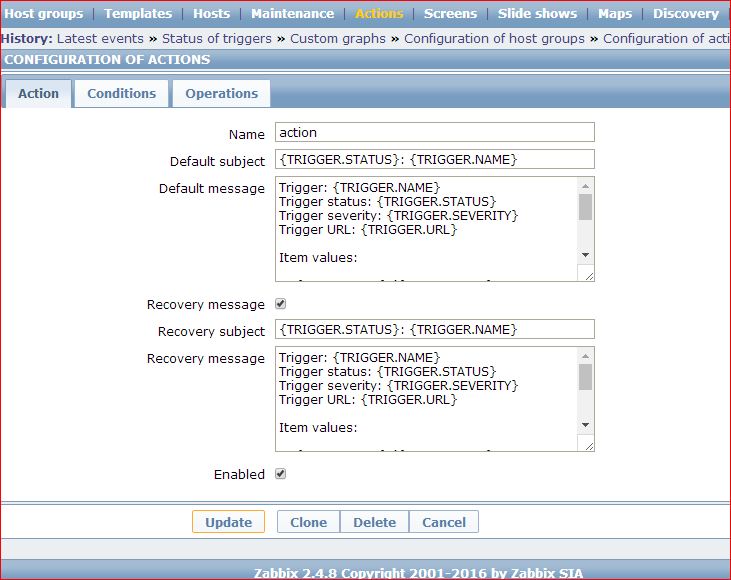
**#Disable "ssh hostname sudo <cmd>", because it will show the password in clear.**

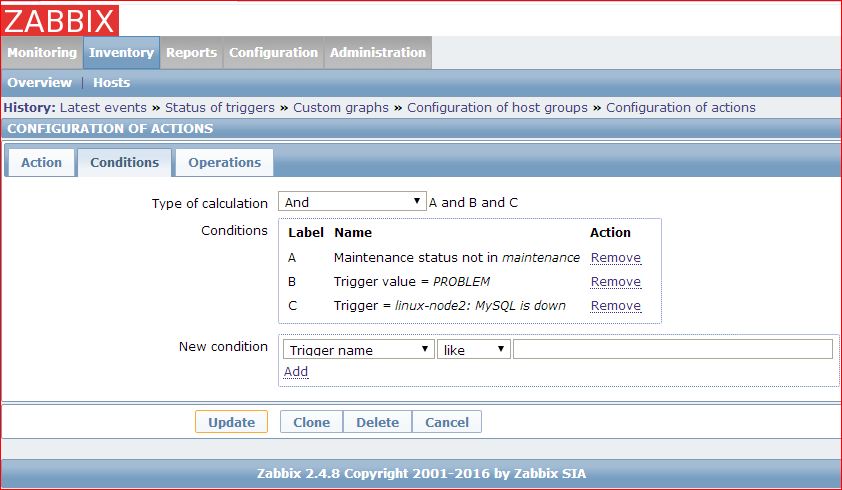
**#You have to run "ssh -t hostname sudo <cmd>".**

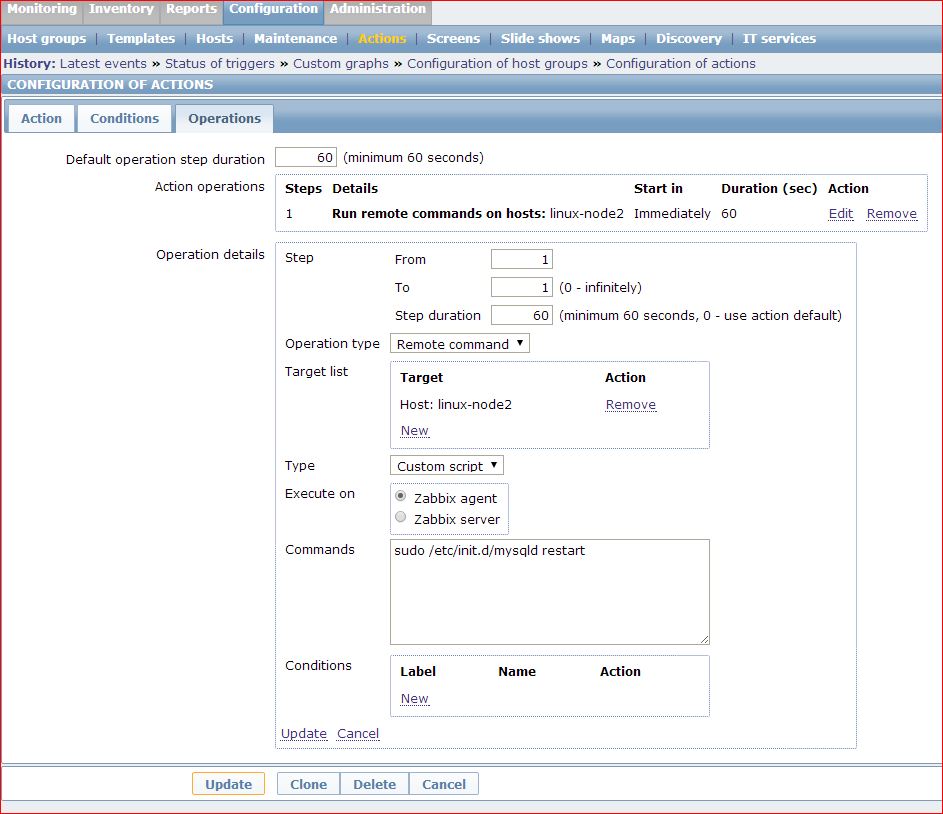
**#**

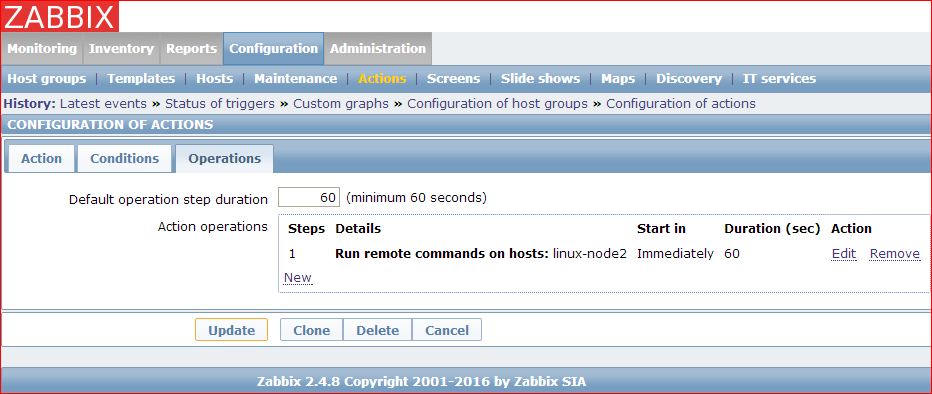
**#Defaults requiretty**

**3:在zabbix服务器端，配置ACTION**

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**4：备注**

**配置ACTION之前，必须要修改/etc/zabbix/zabbix\_agentd.conf.d/userparameter\_mysql.conf文件内容，如下。并重新启动zabbix agent端，**

**# For all the following commands HOME should be set to the directory that has .my.cnf file with password information.**

**# Flexible parameter to grab global variables. On the frontend side, use keys like mysql.status[Com\_insert].**

**# Key syntax is mysql.status[variable].**

**UserParameter=mysql.status[\*],echo "show global status where Variable\_name='$1';" | HOME=/etc/zabbix mysql -N | awk '{print $$2}'**

**# Flexible parameter to determine database or table size. On the frontend side, use keys like mysql.size[zabbix,history,data].**

**# Key syntax is mysql.size[<database>,<table>,<type>].**

**# Database may be a database name or "all". Default is "all".**

**# Table may be a table name or "all". Default is "all".**

**# Type may be "data", "index", "free" or "both". Both is a sum of data and index. Default is "both".**

**# Database is mandatory if a table is specified. Type may be specified always.**

**# Returns value in bytes.**

**# 'sum' on data\_length or index\_length alone needed when we are getting this information for whole database instead of a single table**

**UserParameter=mysql.size[\*],echo "select sum($(case "$3" in both|"") echo "data\_length+index\_length";; data|index) echo "$3\_length";; free) echo "data\_free";; esac)) from information\_schema.tables$([[ "$1" = "all" || ! "$1" ]] || echo " where table\_schema='$1'")$([[ "$2" = "all" || ! "$2" ]] || echo "and table\_name='$2'");" | HOME=/etc/zabbix mysql -N**

**UserParameter=mysql.ping,HOME=/etc/zabbix mysqladmin ping 2>/dev/null | grep -c alive**

**UserParameter=mysql.version,mysql -V**

**[root@linux-node2 zabbix]# service zabbix-agent restart**

****11 发邮件报警功能****

1、关闭sendmail或者postfix

 使用外部邮箱账号时，不需要启动sendmail或者postfix ，如果在sendmail或者postfix启动的同时使用外部邮箱发送报警邮件，首先会读取外部邮箱配置信息。

[root@linux-node1 ~]# /etc/init.d/sendmail stop

[root@linux-node1 ~]# /etc/init.d/postfix stop

提示：如果是centos5x需要关闭sendmail,如果是centos6x需要关闭postfix

2:安装mailx，并测试邮件发送功能

配置/etc/mail.rc文件，在文件的末尾添加如下内容

################################

set from=wpaccp@126.com

set smtp=smtp.126.com

set smtp-auth-user=wpaccp

set smtp-auth-password=wpaccp1980

set smtp-auth=login

使用邮件发送命令来测试邮件发送功能

[root@linux-node1 ~]# echo "test" | mail -s 'test linux' 286937899@qq.com

3:配置zabbix-server端允许执行shell脚本，实现自动发送邮件

配置/etc/zabbix/zabbix\_server.conf文件，在文件的末尾添加如下内容

AlertScriptsPath=/usr/share/zabbix/bin/

[root@linux-node1 ~]# mkdir /usr/share/zabbix/bin/

[root@linux-node1 ~]# vi /usr/share/zabbix/bin/Sendmail.sh

Sendmail.sh脚本的内容如下

#!/bin/sh

echo "$3" | mail -s "$2" $1

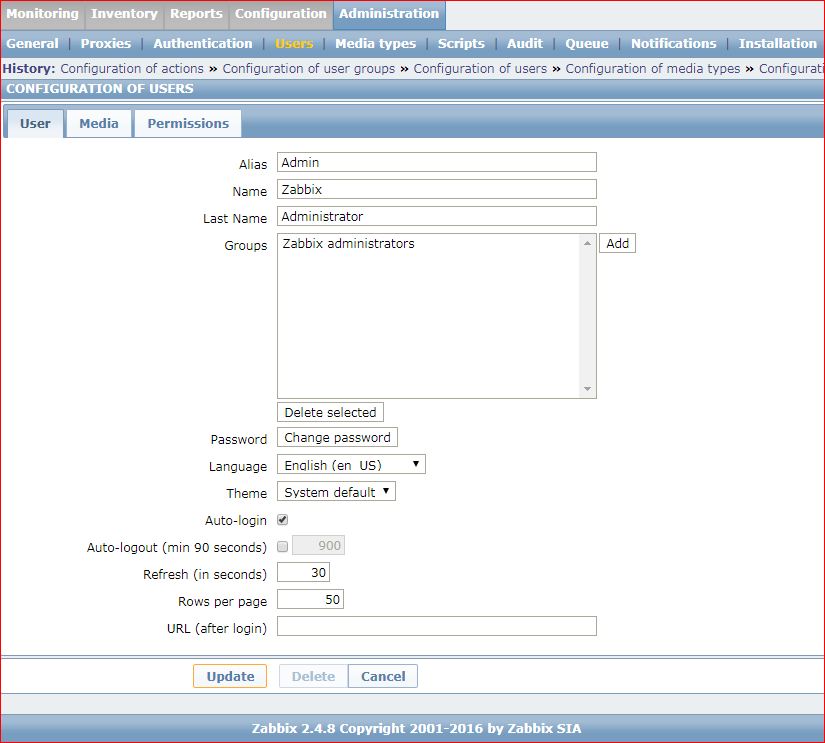
[root@linux-node1 ~]# chmod a+x /usr/share/zabbix/bin/Sendmail.sh

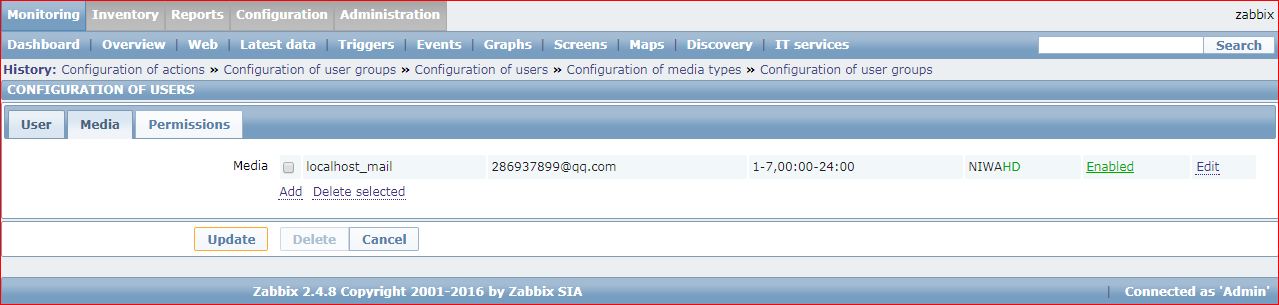
[root@linux-node1 ~]# chown zabbix:zabbix /usr/share/zabbix/bin/Sendmail.sh

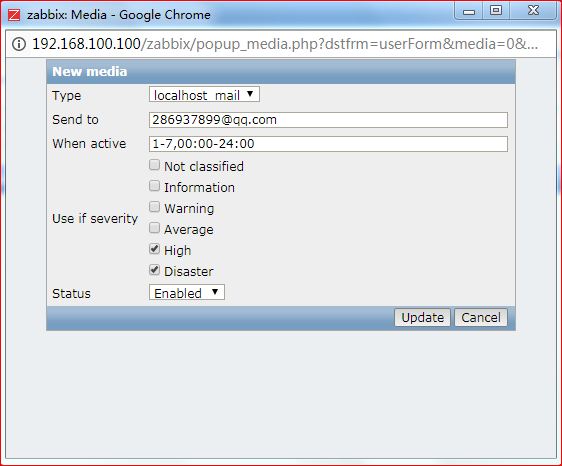
4：在zabbix server端配置邮件报警功能

创建示警媒介类型

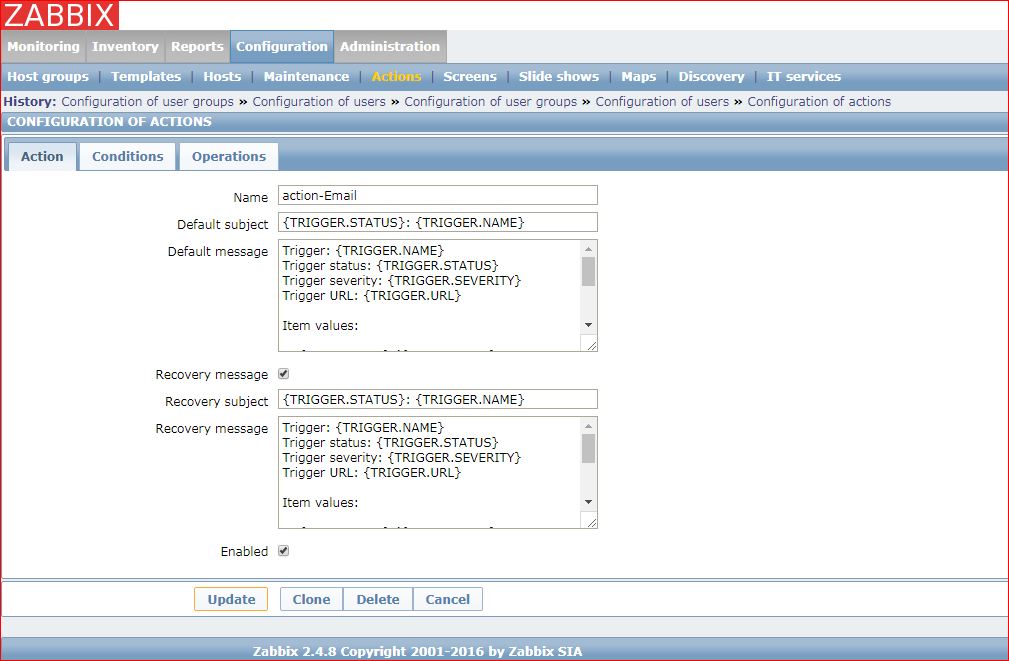
设置Zabbix用户报警邮箱地址：

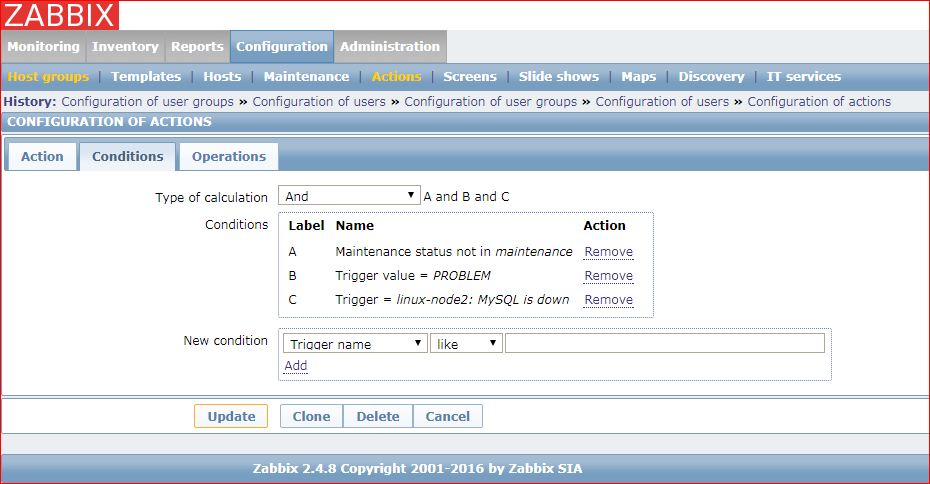


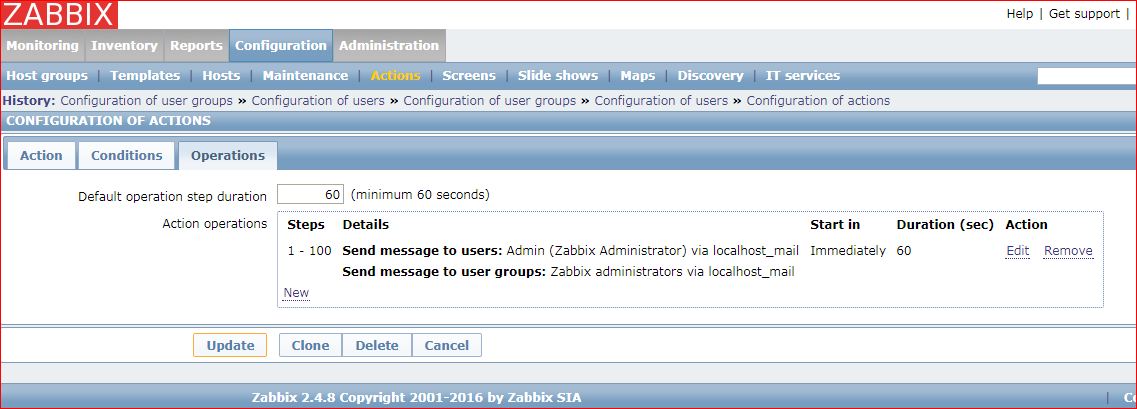


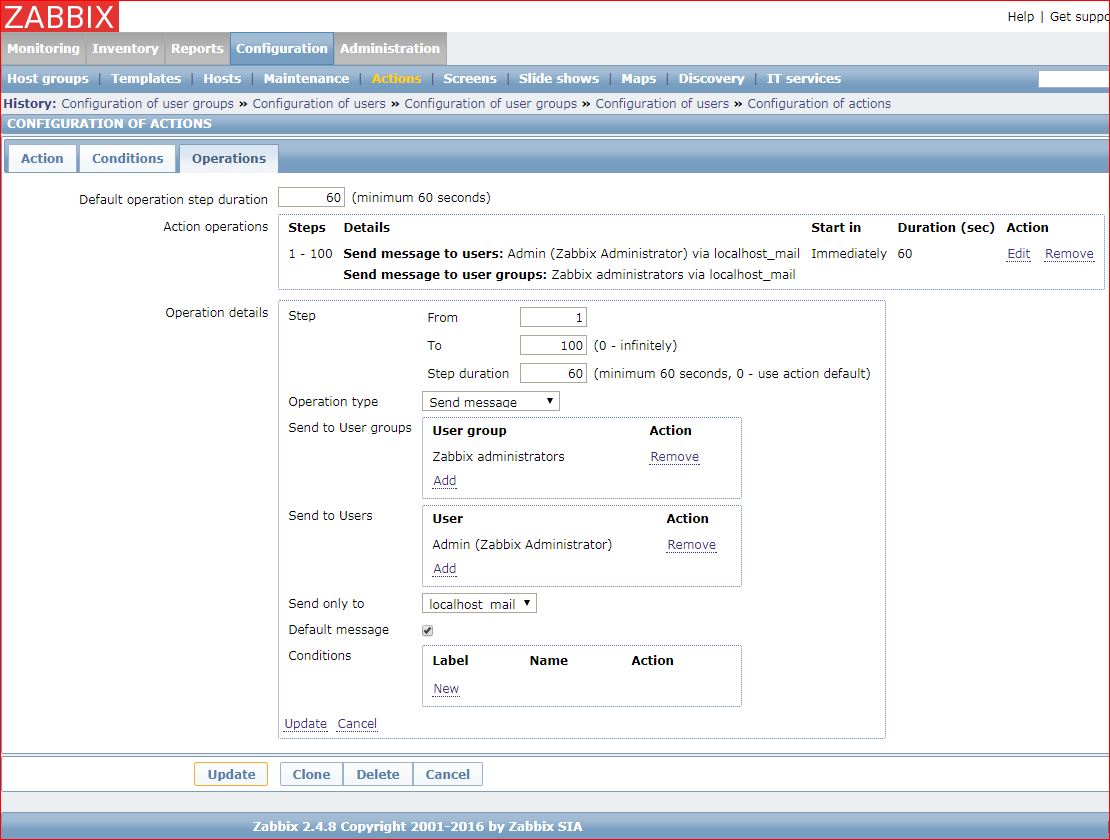


设置Zabbix触发报警的动作





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**5:测试邮件报警功能**

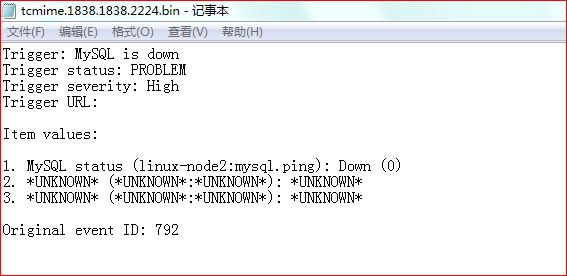
**在zabbi-agent端执行如下功能。关闭mysql服务器**

**[root@linux-node2 ~]# /etc/init.d/mysqld stop**

**查看接受到的邮件**

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**查看邮件内容**

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****12:使用Python脚本实现邮件的报警功能****

1、关闭sendmail或者postfix

 使用外部邮箱账号时，不需要启动sendmail或者postfix ，如果在sendmail或者postfix启动的同时使用外部邮箱发送报警邮件，首先会读取外部邮箱配置信息。

[root@linux-node1 ~]# /etc/init.d/sendmail stop

[root@linux-node1 ~]# /etc/init.d/postfix stop

提示：如果是centos5x需要关闭sendmail,如果是centos6x需要关闭postfix

2:安装mailx，并测试邮件发送功能

配置/etc/mail.rc文件，在文件的末尾添加如下内容

################################

set from=wpaccp@126.com

set smtp=smtp.126.com

set smtp-auth-user=wpaccp

set smtp-auth-password=wpaccp1980

set smtp-auth=login

使用邮件发送命令来测试邮件发送功能

[root@linux-node1 ~]# echo "test" | mail -s 'test linux' 286937899@qq.com

3:配置zabbix-server端允许执行Python脚本，实现自动发送邮件

配置/etc/zabbix/zabbix\_server.conf文件，在文件的末尾添加如下内容

AlertScriptsPath=/usr/share/zabbix/bin/

[root@linux-node1 ~]# mkdir /usr/share/zabbix/bin/

**[root@linux-node1 ~]# cd /usr/share/zabbix/bin/**

**[root@linux-node1 bin]# vi zabbix\_send\_email.py**

**zabbix\_send\_email.py脚本的内容如下:<单个接受人的发送邮件脚本>**

**#!/usr/bin/python**

**#coding:utf-8**

**import smtplib**

**from email.mime.text import MIMEText**

**import sys**

**mail\_host = 'smtp.126.com'**

**mail\_user = 'wpaccp@126.com'**

**mail\_pass = 'wpaccp1980'**

**mail\_postfix = 'mail.126.com'**

**def send\_mail(to\_list,subject,content):**

**me = mail\_user+"<"+mail\_user+"@"+mail\_postfix+">"**

**msg = MIMEText(content, 'plain', 'utf-8')**

**msg['Subject'] = subject**

**msg['From'] = me**

**msg['to'] = to\_list**

**try:**

**s = smtplib.SMTP()**

**s.connect(mail\_host)**

**s.login(mail\_user,mail\_pass)**

**s.sendmail(me,to\_list,msg.as\_string())**

**s.close()**

**return True**

**except Exception,e:**

**print str(e)**

**return False**

**if \_\_name\_\_ == "\_\_main\_\_":**

**#sys.argv[1]:**是要发送的邮件地址

**#sys.argv[2]:邮件的标题**

**#sys.argv[3]:邮件的内容**

**send\_mail(sys.argv[1], sys.argv[2], sys.argv[3])**

**多用户发送邮件脚本:**

支持发送多人，支持发送附件，代码如下

#!/usr/bin/python

#coding:utf-8

#

import smtplib

import sys

from email.mime.multipart import MIMEMultipart

from email.mime.application import MIMEApplication

from email.mime.text import MIMEText

#配置你的邮箱信息

mail\_host = 'smtp.126.com'

mail\_user = 'wpaccp@126.com'

mail\_pass = 'wpaccp1980'

mail\_postfix = 'mail.126.com'

#发送邮件函数

def send\_mail(to\_list,subject,content,file\_list):

#采用related定义内嵌资源的邮件体

msg = MIMEMultipart('related')

#邮件内容

msgtext = MIMEText(content, 'plain', 'utf-8')

msg.attach(msgtext)

#附件部分

for attachfile in file\_list.split(','):

attach = MIMEApplication(open(attachfile,'rb').read())

attach.add\_header('Content-Disposition', 'attachment', filename=attachfile)

msg.attach(attach)

me = mail\_user+"<"+mail\_user+"@"+mail\_postfix+">"

msg['Subject'] = subject

msg['From'] = me

mail\_to\_list = to\_list.split(',')

msg['to'] = ','.join(mail\_to\_list)

try:

s = smtplib.SMTP()

s.connect(mail\_host)

s.login(mail\_user,mail\_pass)

s.sendmail(me,mail\_to\_list,msg.as\_string())

s.close()

return True

except Exception,e:

print "发送失败"+str(e)

return False

if \_\_name\_\_ == "\_\_main\_\_":

send\_mail(sys.argv[1],sys.argv[2],sys.argv[3],sys.argv[4])

**[root@linux-node1 bin]# chown -R zabbix.zabbix zabbix\_send\_email.py**

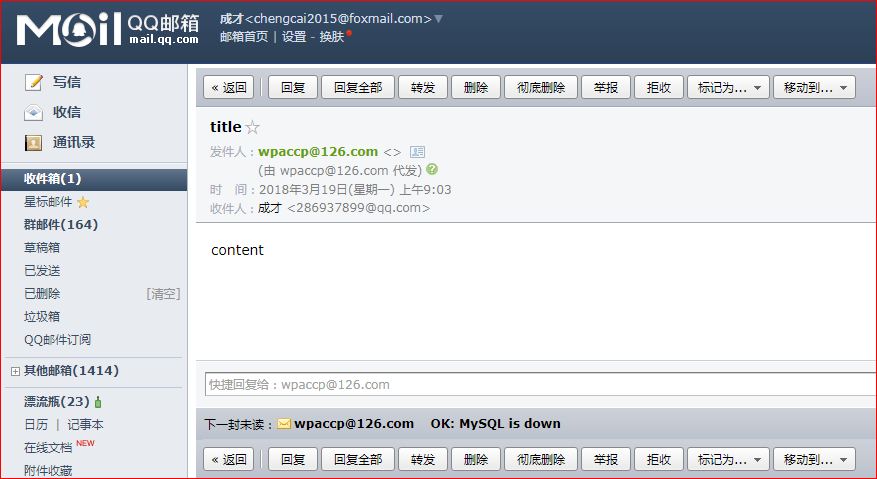
**[root@linux-node1 bin]# chmod +x zabbix\_send\_email.py**

**测试脚本效果:**

**[root@linux-node1 bin]# python zabbix\_send\_email.py 286937899@qq.com title 'content'**

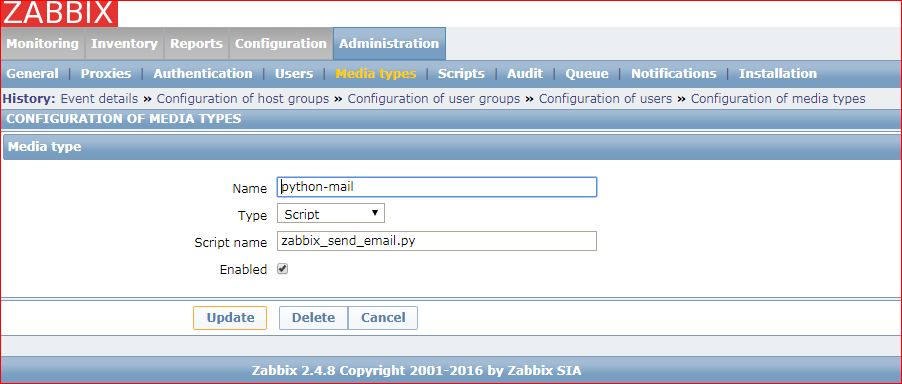
**多用户脚本效果**

**[root@linux-node1 bin]# ./zabbix\_mutilsend\_email.py "286937899@qq.com,wangpeng1980520@vlan5.com" "title\_test" "content1234" "attachfile1,attachfile2**

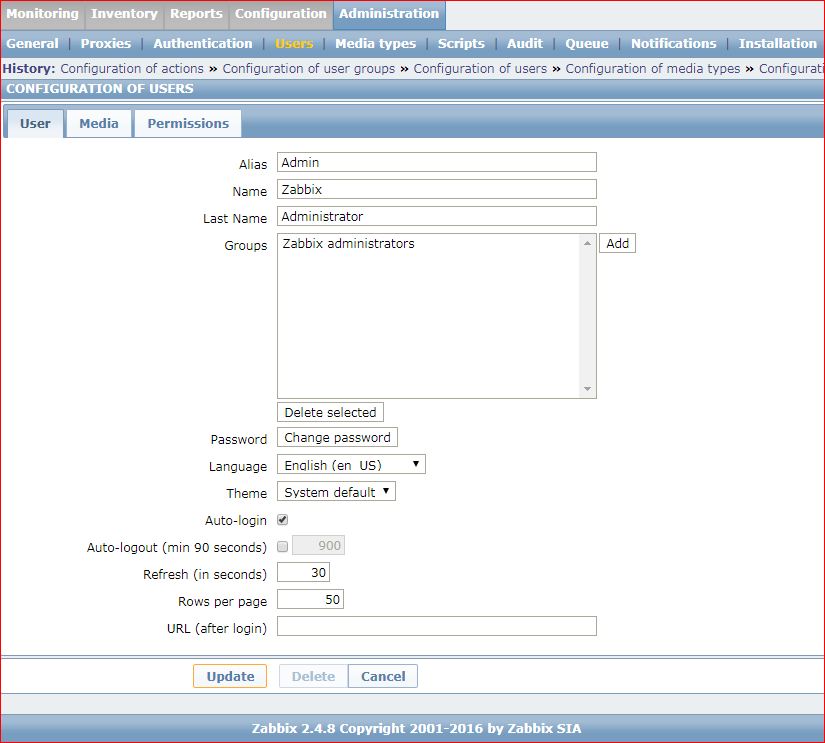
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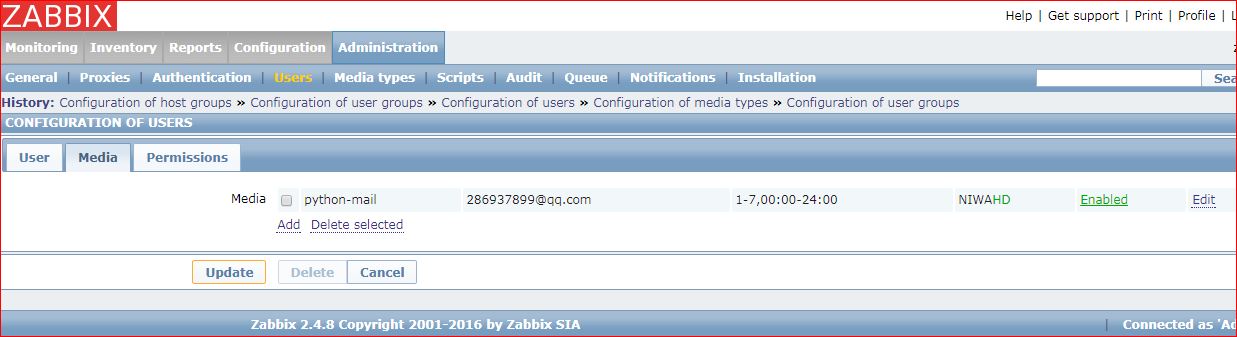
4：在zabbix server端配置邮件报警功能

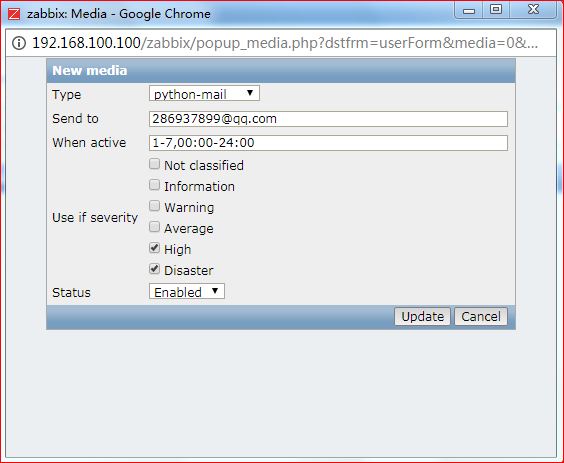
创建示警媒介类型



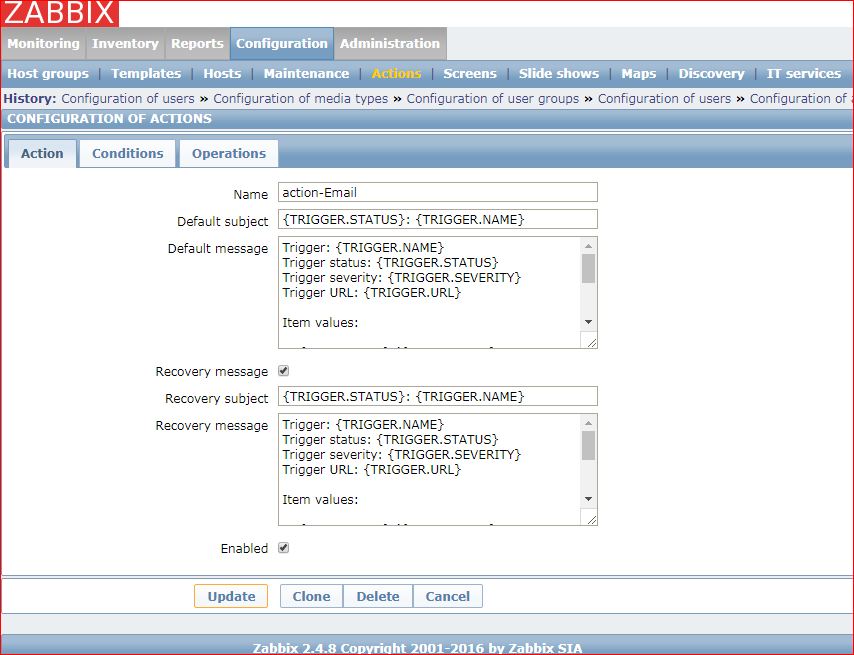
设置Zabbix用户报警邮箱地址：

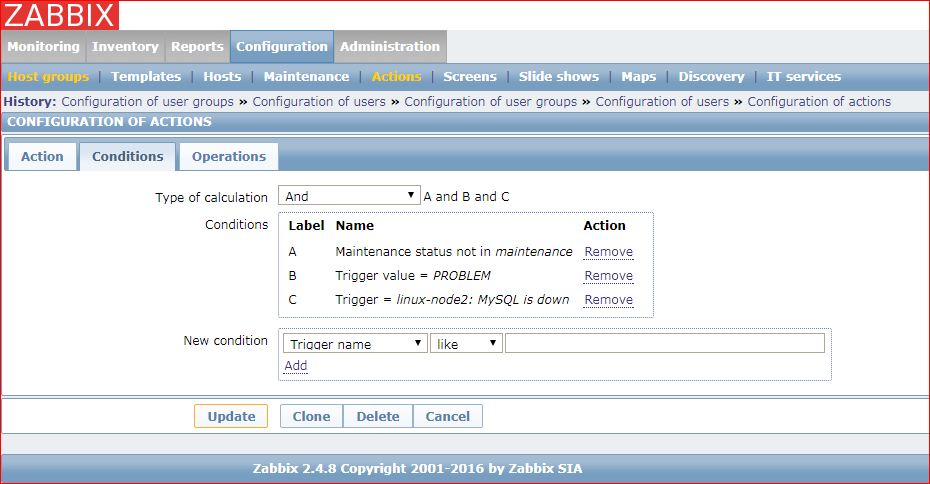


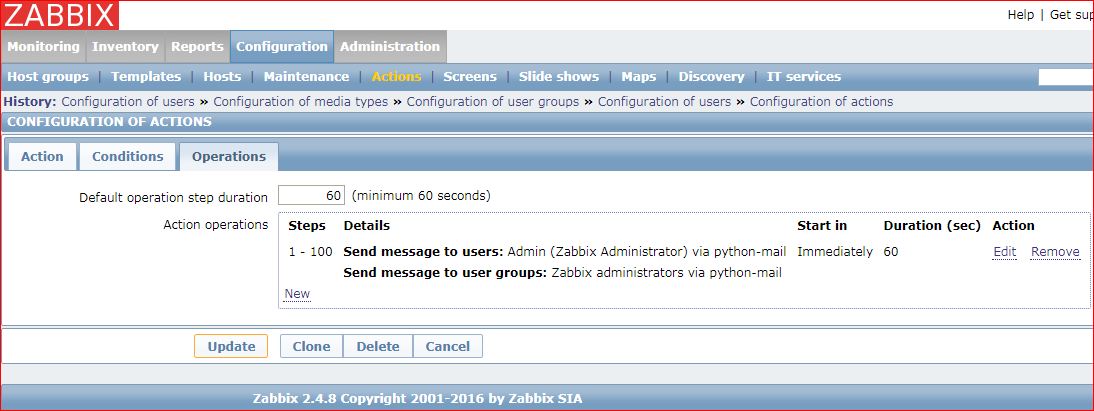


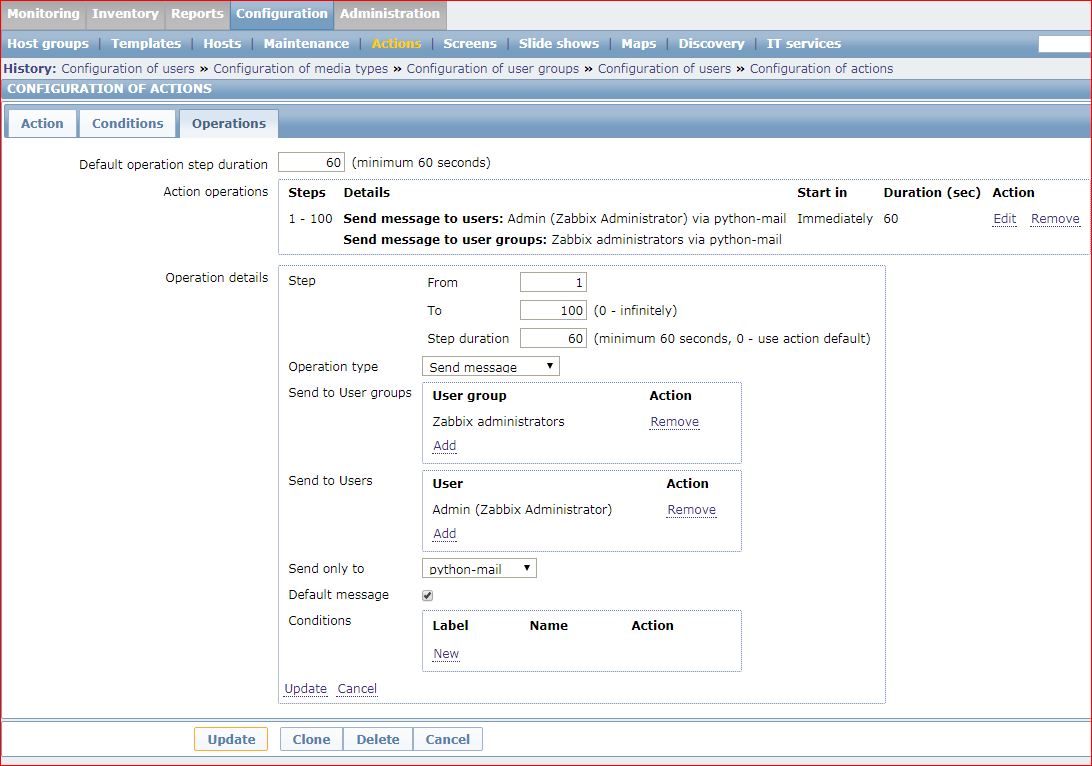


设置Zabbix触发报警的动作









**5:测试邮件报警功能**

**在zabbi-agent端执行如下功能。关闭mysql服务器**

**[root@linux-node2 ~]# /etc/init.d/mysqld stop**



开启mysql服务器

[root@linux-node2 ~]# /etc/init.d/mysqld start

Starting mysqld: [ OK ]

