

重点安装ganglia监控工具

安装PHP+HTTP 见上。

服务端(master):

安装:ganglia-gmetad(ganglia-gmond)+ganglia-web+rrdtool+httpd+php

监控节点端(slave) :

安装:ganglia-gmond

1 安装Ganglia

yum加入 epel 源

>rpm -Uvh http://dl.fedoraproject.org/pub/epel/6/x86_64/epel-release-6-8.noarch.rpm

yum加入 remi 源

>rpm -Uvh <http://rpms.famillecollet.com/enterprise/remi-release-6.rpm>

下载

<http://ganglia.info/>

安装依赖包

>yum install gcc apr apr-devel libconfuse libconfuse-devel expat-devel pcre pcre-devel -y

如果需安装gmetad

>yum install rrdtool* rrdtool-devel* -y

如果需安装gweb

>yum install rsync -y

异常:

zlib library not configured properly

解决:

yum install -y zlib-devel

<编译安装ganglia-3.7.x步有问题>**libconfuse not found**

libconfuse的安装 (自己使用google搜索下载地址) :

wget <http://savannah.nongnu.org/download/confuse/confuse-2.7.tar.gz>

tar -zxvf confuse-2.7.tar.gz

cd confuse-2.7

./configure CFLAGS=-fPIC --disable-nls

make && make install

安装gmond

>tar -zxvf ganglia-3.6.0.tar.gz

>cd ganglia-3.6.0/

>./configure

>make && make install

>cp gmond/gmond.init /etc/init.d/gmond

>chkconfig --add gmond

vim /etc/init.d/gmond

修改如下 (find / -name 'gmond'搜索之) :

GMOND=/usr/local/sbin/gmond

>gmond -t > /usr/local/etc/gmond.conf

>mkdir -p /etc/ganglia

>ln -s /usr/local/etc/gmond.conf /etc/ganglia/gmond.conf

监控端配置 (需要监控的节点均要配置)

>vim /etc/ganglia/gmond.conf

将cluster选项中 name设置为gmetad中data_source指定的名称即可(hadoop)。

cluster {

name = "bi"//集群名称, 要与gmetad.conf名称一致

owner = "unspecified"//集群用户名

latlong = "unspecified"

url = "unspecified"

}

host {

location = "unspecified"

}

udp_send_channel {

mcast_join = 239.2.11.71

port = 8649

ttl = 1

}

udp_recv_channel {

mcast_join = 239.2.11.71

port = 8649

bind = 239.2.11.71

retry_bind = true

Size of the UDP buffer. If you are handling lots of metrics you really

should bump it up to e.g. 10MB or even higher.

buffer = 10485760

}

每台机器添加路由:/sbin/route add -host 239.2.11.71 dev eth0

>service gmond start

>chkconfig gmond on

安装gmetad

安装rrdtool

下载 wget <http://oss.oetiker.ch/rrdtool/pub/rrdtool-1.4.8.tar.gz>

cd rrdtool-1.4.8

./configure --prefix=/usr/rrdtool

make && make install

然后运行

/usr/rrdtool/bin/rrdtool

(记得更改ganglia web项目的conf.php里面的rrdtool路径)

错误:

Can't locate ExtUtils/MakeMaker.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 Makefile.PL line 1.

解决:

yum install perl-ExtUtils-CBuilder perl-ExtUtils-MakeMaker就可以了

错误:

<http://blog.chinaunix.net/uid-25135004-id-3169297.html>

解决:

yum install pango-devel*

yum install cairo-devel*

gmetad:

>./configure CFLAGS="-I/usr/rrdtool/include/" CPPFLAGS="-I/usr/rrdtool/include/" LDFLAGS="-L/usr/rrdtool/lib/" --

with-gmetad --enable-gexec --prefix=/data1/ganglia/

>make && make install

>cp gmetad/gmetad.init /etc/init.d/gmetad

>chkconfig --add gmetad

>vim /etc/init.d/gmetad (这个是service gmetad start脚本的实现)

修改如下 (find / -name 'gmetad'搜索之) :

GMETAD=/usr/local/sbin/gmetad

为维护方便, 修改配置路径:

>mkdir -p /etc/ganglia

>ln -s /usr/local/etc/gmetad.conf /etc/ganglia/gmetad.conf

服务器端

>vim /etc/ganglia/gmetad.conf

data_source "bi" slave8.gitv.rack2.bk slave9.gitv.rack2.bk slave10.gitv.rack2.bk slave11.gitv.rack2.bk

master2.gitv.rack2.bk master1.gitv.rack1.bk slave1.gitv.rack1.bk slave2.gitv.rack1.bk slave3.gitv.rack1.bk

slave4.gitv.rack1.bk slave5.gitv.rack1.bk slave6.gitv.rack1.bk

interactive_port 8653

只需要更改 data_source一行, "hadoop"代表集群的名字, master,slave1,slave2, 就是要监控的机器列表。默认端口

8649。

启动服务

>service gmetad start

>chkconfig gmetad on

如果启动不起来

/usr/local/sbin/gmetad -c /etc/ganglia/gmetad.conf -d 1

打出的日志提示rrds的所属用户需要是nobody才能启动ganglia的gmetad

chown -R nobody:nobody /data1/ganglia/rrds/

在gmetad机器上运行 **tepdump -i eth0 udp port 8649**, 或者**telnet localhost 8649**

```
15:26:19.482458 IP 10.10.121.122.11480 > 10.10.121.40.8649: UDP, length 60
15:26:20.457043 IP 10.10.121.123.64151 > 10.10.121.40.8649: UDP, length 64
15:26:23.098796 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 60
15:26:23.105323 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 60
15:26:23.105336 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 60
15:26:23.105343 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 60
15:26:23.105350 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 56
15:26:23.105357 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 68
15:26:23.105363 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 64
15:26:23.105367 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 64
15:26:23.105371 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 60
15:26:23.114689 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 60
15:26:23.114701 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 60
15:26:23.114705 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 68
15:26:23.114711 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 60
15:26:28.122322 IP 10.10.121.139.28544 > 10.10.121.40.8649: UDP, length 64
15:26:28.826247 IP 10.10.121.139.28544 > 10.10.121.40.8649: UDP, length 64
15:26:28.826263 IP 10.10.121.139.28544 > 10.10.121.40.8649: UDP, length 64
15:26:28.826269 IP 10.10.121.139.28544 > 10.10.121.40.8649: UDP, length 64
15:26:28.826273 IP 10.10.121.139.28544 > 10.10.121.40.8649: UDP, length 64
15:26:29.533753 IP 10.10.121.122.11480 > 10.10.121.40.8649: UDP, length 64
15:26:29.158088 IP 10.10.121.121.18969 > 10.10.121.40.8649: UDP, length 60
15:26:35.002241 IP 10.10.121.120.30807 > 10.10.121.40.8649: UDP, length 60
15:26:36.489536 IP 10.10.121.139.28544 > 10.10.121.40.8649: UDP, length 64
15:26:36.489553 IP 10.10.121.139.28544 > 10.10.121.40.8649: UDP, length 64
15:26:36.489557 IP 10.10.121.139.28544 > 10.10.121.40.8649: UDP, length 64
15:26:36.489562 IP 10.10.121.139.28544 > 10.10.121.40.8649: UDP, length 60
```

安装Ganglia Web

>tar -zxvf ganglia-web-3.5.12.tar.gz

>cd ganglia-web-3.5.12/

>vim Makefile

GDESTDIR = /work/installed/apache/htdocs/ganglia <ganglia-web 安装目录链接到httpd 主站点目录(apache服务器访问的根目录)>

APACHE_USER = daemon

>make && make install

cd /work/installed/apache/htdocs/ganglia/

cp conf_default.php conf.php

vim conf.php:

\$conf['ganglia_port'] = 8653;

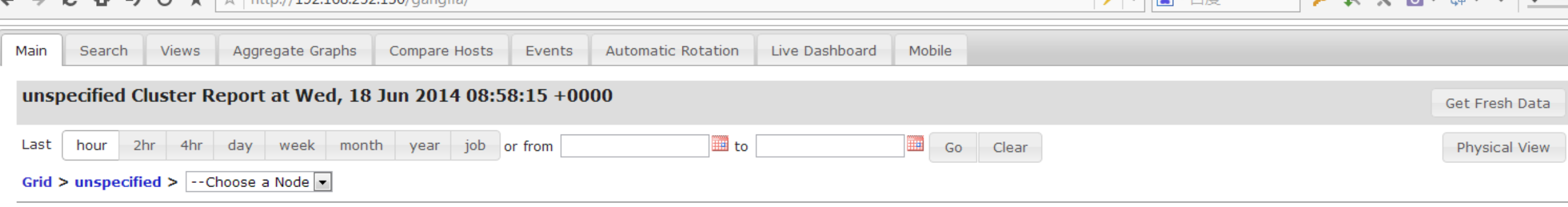
gmetad_root=/data1/ganglia

其他看着弄, rrdtool路径/usr/rrdtool/bin/rrdtool, /data1/ganglia/rrds路径等

访问Ganglia Web

服务端本机访问: <http://127.0.0.1:10086/ganglia>

呈现如下界面: (截图客户端访问)



单播意思是 多个gmond通过udp发送数据给一个特定的gmond,然后gmetad通过tcp和这台gmond请求响应。所以此时

gmetad的配置中只需要写localhost

多播意思是 所有的gmond通过广播互相udp发送、接受数据->缓存 gmetad通过pull监控下某台机器的数据存入rrd