在centos6.2上编译ceph 10.2.0

1, gcc 4.9.0

2, **python setup.py install**

**3，libsnappy**

#rpm -ivh **snappy**-1.0.5-1.el6.x86\_64.rpm

#rpm -ivh **snappy**-devel-1.0.5-1.el6.x86\_64.rpm

网友的跟我差不多：

Vi src/tool/Make.am-client

您查询的关键词是：**[configure:](http://cache.baiducontent.com/c?m=9f65cb4a8c8507ed4fece76310499c711923dd226d8d8b492cc3933fcf331d5c182da2f974734778b4b60f7a51f11409f7f737783d0826a3de95c81cd2eacf747bd37273304b914062c418dcdc46549660d007a9b81897adf14184aea38d840444cb23422cd7b49c5b7003ca18e71541b9b19939490256aded4131a21e2b7f882331a14788f7331e59daa6ca5d3c847c87250696df22b04805b463f2485f3344d15bb179462740be1477e8454d43c4bc19f02b095723c05fb2c997e1af1fd2&p=8572d13785cc43b308e2957c4d05&newp=c03dc64ad4934eae5afbcd60154192695803ed6338d7d501298ffe0cc4241a1a1a3aecbf27291500d0ce786404ae4c58ebf534763d0834f1f689df08d2ecce7e&user=baidu&fm=sc&query=configure%3A+error%3A+libudev%2Eh+not+found+%28libudev%2Ddev%2C+libudev%2Ddevel%29&qid=90295e7900047335&p1=13" \l "baidusnap0)**[**error:**](http://cache.baiducontent.com/c?m=9f65cb4a8c8507ed4fece76310499c711923dd226d8d8b492cc3933fcf331d5c182da2f974734778b4b60f7a51f11409f7f737783d0826a3de95c81cd2eacf747bd37273304b914062c418dcdc46549660d007a9b81897adf14184aea38d840444cb23422cd7b49c5b7003ca18e71541b9b19939490256aded4131a21e2b7f882331a14788f7331e59daa6ca5d3c847c87250696df22b04805b463f2485f3344d15bb179462740be1477e8454d43c4bc19f02b095723c05fb2c997e1af1fd2&p=8572d13785cc43b308e2957c4d05&newp=c03dc64ad4934eae5afbcd60154192695803ed6338d7d501298ffe0cc4241a1a1a3aecbf27291500d0ce786404ae4c58ebf534763d0834f1f689df08d2ecce7e&user=baidu&fm=sc&query=configure%3A+error%3A+libudev%2Eh+not+found+%28libudev%2Ddev%2C+libudev%2Ddevel%29&qid=90295e7900047335&p1=13#baidusnap2)[**lib**](http://cache.baiducontent.com/c?m=9f65cb4a8c8507ed4fece76310499c711923dd226d8d8b492cc3933fcf331d5c182da2f974734778b4b60f7a51f11409f7f737783d0826a3de95c81cd2eacf747bd37273304b914062c418dcdc46549660d007a9b81897adf14184aea38d840444cb23422cd7b49c5b7003ca18e71541b9b19939490256aded4131a21e2b7f882331a14788f7331e59daa6ca5d3c847c87250696df22b04805b463f2485f3344d15bb179462740be1477e8454d43c4bc19f02b095723c05fb2c997e1af1fd2&p=8572d13785cc43b308e2957c4d05&newp=c03dc64ad4934eae5afbcd60154192695803ed6338d7d501298ffe0cc4241a1a1a3aecbf27291500d0ce786404ae4c58ebf534763d0834f1f689df08d2ecce7e&user=baidu&fm=sc&query=configure%3A+error%3A+libudev%2Eh+not+found+%28libudev%2Ddev%2C+libudev%2Ddevel%29&qid=90295e7900047335&p1=13#baidusnap4)[**.h**](http://cache.baiducontent.com/c?m=9f65cb4a8c8507ed4fece76310499c711923dd226d8d8b492cc3933fcf331d5c182da2f974734778b4b60f7a51f11409f7f737783d0826a3de95c81cd2eacf747bd37273304b914062c418dcdc46549660d007a9b81897adf14184aea38d840444cb23422cd7b49c5b7003ca18e71541b9b19939490256aded4131a21e2b7f882331a14788f7331e59daa6ca5d3c847c87250696df22b04805b463f2485f3344d15bb179462740be1477e8454d43c4bc19f02b095723c05fb2c997e1af1fd2&p=8572d13785cc43b308e2957c4d05&newp=c03dc64ad4934eae5afbcd60154192695803ed6338d7d501298ffe0cc4241a1a1a3aecbf27291500d0ce786404ae4c58ebf534763d0834f1f689df08d2ecce7e&user=baidu&fm=sc&query=configure%3A+error%3A+libudev%2Eh+not+found+%28libudev%2Ddev%2C+libudev%2Ddevel%29&qid=90295e7900047335&p1=13#baidusnap6)[**not**](http://cache.baiducontent.com/c?m=9f65cb4a8c8507ed4fece76310499c711923dd226d8d8b492cc3933fcf331d5c182da2f974734778b4b60f7a51f11409f7f737783d0826a3de95c81cd2eacf747bd37273304b914062c418dcdc46549660d007a9b81897adf14184aea38d840444cb23422cd7b49c5b7003ca18e71541b9b19939490256aded4131a21e2b7f882331a14788f7331e59daa6ca5d3c847c87250696df22b04805b463f2485f3344d15bb179462740be1477e8454d43c4bc19f02b095723c05fb2c997e1af1fd2&p=8572d13785cc43b308e2957c4d05&newp=c03dc64ad4934eae5afbcd60154192695803ed6338d7d501298ffe0cc4241a1a1a3aecbf27291500d0ce786404ae4c58ebf534763d0834f1f689df08d2ecce7e&user=baidu&fm=sc&query=configure%3A+error%3A+libudev%2Eh+not+found+%28libudev%2Ddev%2C+libudev%2Ddevel%29&qid=90295e7900047335&p1=13#baidusnap8)[**found**](http://cache.baiducontent.com/c?m=9f65cb4a8c8507ed4fece76310499c711923dd226d8d8b492cc3933fcf331d5c182da2f974734778b4b60f7a51f11409f7f737783d0826a3de95c81cd2eacf747bd37273304b914062c418dcdc46549660d007a9b81897adf14184aea38d840444cb23422cd7b49c5b7003ca18e71541b9b19939490256aded4131a21e2b7f882331a14788f7331e59daa6ca5d3c847c87250696df22b04805b463f2485f3344d15bb179462740be1477e8454d43c4bc19f02b095723c05fb2c997e1af1fd2&p=8572d13785cc43b308e2957c4d05&newp=c03dc64ad4934eae5afbcd60154192695803ed6338d7d501298ffe0cc4241a1a1a3aecbf27291500d0ce786404ae4c58ebf534763d0834f1f689df08d2ecce7e&user=baidu&fm=sc&query=configure%3A+error%3A+libudev%2Eh+not+found+%28libudev%2Ddev%2C+libudev%2Ddevel%29&qid=90295e7900047335&p1=13#baidusnap9) 以下是该网页在北京时间 2016年06月19日 02:41:59 的快照；

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*摘要* ceph源码编译安装不是件很容易的事情，中间报了很多错误，比如对C++11的依赖、对BOOST的依赖以及大量其他我不熟悉的库的依赖，这些过程都要一一解决。本文对编译的步骤进行了详细说明，并对碰到的问题进行了记录。

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**引言**

ceph源码编译不是一件很容易的事情，中间报了很多错误，比如对C++11的依赖，对BOOST的依赖以及大量其他库的依赖，这些过程都要一一解决。本文对编译的过程进行了一个详细的说明，并对碰到的问题进行了记录。

**具体过程**

**1. 源码下载**

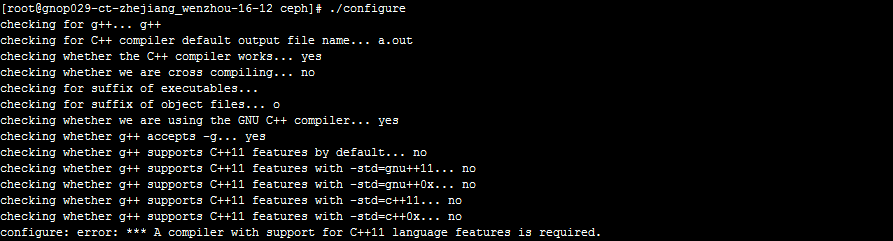
git clone <https://github.com/ceph/ceph>

**2. 编译**

./autogen.sh

./configure

**环境检查的过程中报如下错误**



系统报错，缺少C++11的支持。需要升级GCC版本以支持C++11。 我咨询过使用CentOS7系列的同学，他们自带的GCC是高版本的，可以支持C++11.

**3. GCC c++11支持**

wget http://ftp.gnu.org/gnu/gcc/gcc-4.8.1/gcc-4.8.1.tar.gz

tar xzf gcc-4.8.1.tar.gz

cd gcc-4.8.1

./contrib/download\_prerequisites //安装依赖库

cd ..

mkdir build\_gcc4.8.1

cd build\_gcc4.8.1

../configure --prefix=/usr -enable-checking=release --enable-languages=c,c++ --disable-multilib

make -j8

sudo make install

**4. 编译Ceph源码**  
编译的过程中同样出现了很多问题

**configure:** **error:** in `/home/ceph/ceph-src/ceph':

**configure:** **error:** libsnappy **not** **found**

See `config.log' for more details.

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**configure:** **error:** in `/home/ceph/ceph-src/ceph':

**configure:** **error:** libleveldb **not** **found**

See `config.log' for more details.

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checking blkid/blkid**.h** usability... no

checking blkid/blkid**.h** presence... no

checking for blkid/blkid**.h**... no

**configure:** **error:** blkid/blkid**.h** **not** **found** (libblkid-dev, libblkid-devel)

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checking libudev**.h** usability... no

checking libudev**.h** presence... no

checking for libudev**.h**... no

**configure:** **error:** libudev**.h** **not** **found** (libudev-dev, libudev-devel)

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checking for malloc in -ltcmalloc... no

**configure:** **error:** in `/home/ceph/ceph-src/ceph':

**configure:** **error:** no tcmalloc **found** (use --without-tcmalloc to disable)

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checking for FCGX\_Init in -lfcgi... no

checking for LIBFUSE... yes

checking atomic\_ops**.h** usability... no

checking atomic\_ops**.h** presence... no

checking for atomic\_ops**.h**... no

**configure:** **error:** in `/home/ceph/ceph-src/ceph':

**configure:** **error:** no libatomic-ops **found** (use --without-libatomic-ops to disable)

See `config.log' for more details.

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checking xfs/xfs**.h** usability... no

checking xfs/xfs**.h** presence... no

checking for xfs/xfs**.h**... no

**configure:** **error:** xfs/xfs**.h** **not** **found** (--without-libxfs to disable)

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Boost random library **not** **found**.

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主要采用如下办法解决

4.1先把能安装的依赖包给安装

sudo yum install make automake autoconf boost-devel fuse-devel gcc-c++ libtool libuuid-devel libblkid-devel keyutils-libs-devel cryptopp-devel fcgi-devel libcurl-devel expat-devel gperftools-devel libedit-devel libatomic\_ops-devel snappy-devel leveldb-devel libaio-devel xfsprogs-devel git libudev-devel libcrypto++-dev libcrypto++-utils

4.2 yum找不到，手工rpm安装   
  
4.3 部分包不需要，直接without

./configure --without-tcmalloc --without-libatomic-ops

4.4 BOOST 库缺失问题

最后一个问题就是boost random **lib** can **not** **found**问题

yum显示boost 和boost dev都有安装，为什么boost库有一部分存在，有一部分没有呢。无奈之下采用编译boost源码的方法重装BOOST

[root@gnop029-ct-zhejiang\_wenzhou-16-12 home]# ls

boost\_1\_59\_0 boost\_1\_59\_0.tar.gz c11 ceph ceph.log civetweb dlftp gcc4.7\_build.tar.bz2 gcc-4.8.1 gcc-4.8.1.tar.bz2 usr wget-log

./bootstrap.sh

./bjam -sTOOLS=gcc install

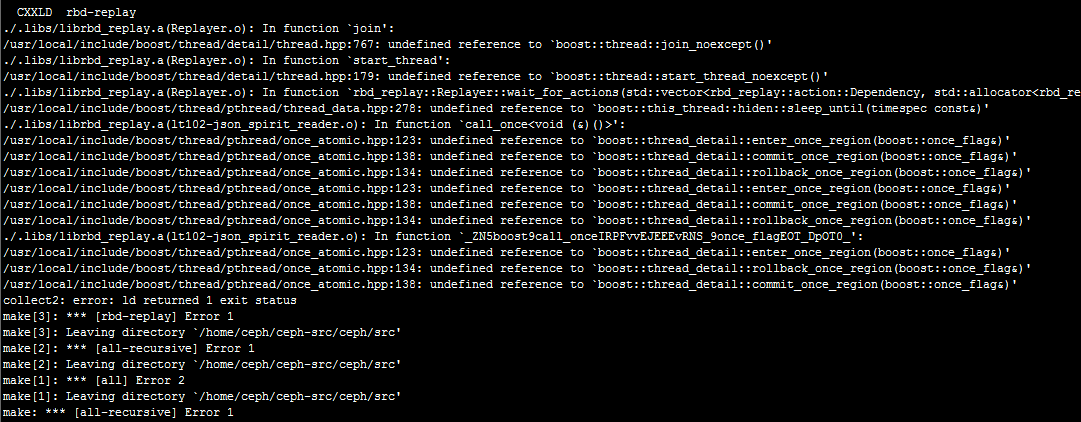
5 最后对ceph源码进行

./autogen.sh

./configure

make

此处同样出现了很多问题，编译过程中出现了大量undefined reference boost库的情况。



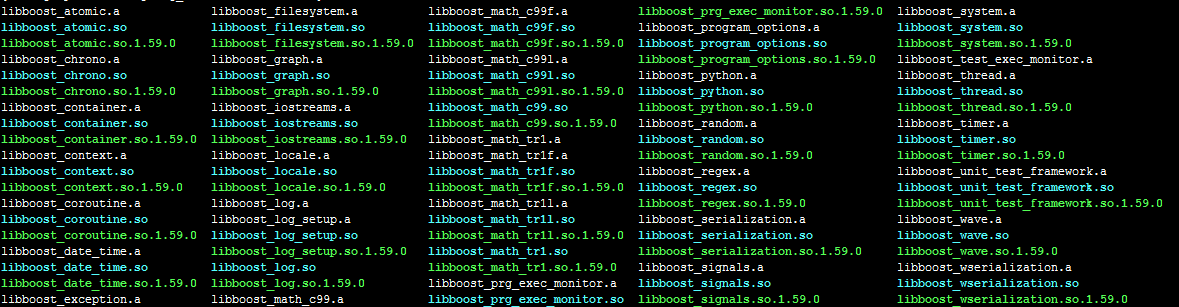
但是我在/usr/local/中可以找到boost的头文件以及二进制库。  
于是追查makefile文件，发现其中涉及到的BOOST库内容如下：

BOOST\_PROGRAM\_OPTIONS\_LIBS = -lboost\_program\_options-mt

BOOST\_RANDOM\_LIBS = -lboost\_random

BOOST\_REGEX\_LIBS = -lboost\_regex-mt

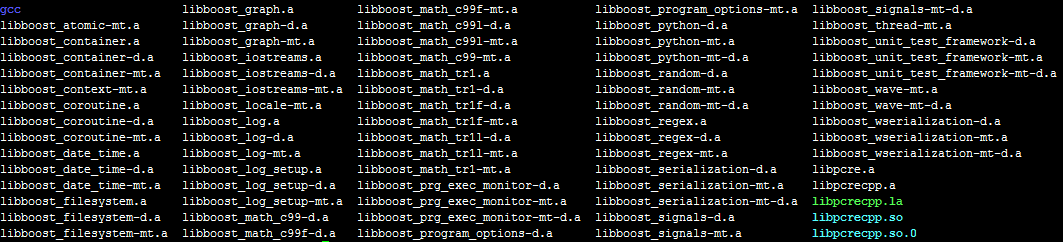
BOOST\_THREAD\_LIBS = -lboost\_thread-mt

于是去相关路径下找库，发现regex,thread库后面都是没有-mt后缀的  


上网查资料发现，带mt和不带mt，分别意味这对多线程的支持。不禁让我想到在WINDOWS 平台下开发时，在VS2010下进行项目配置时，同样会涉及到对运行时库配置时，也有mutlithread版本的。应是类似道理。于是我对boost进行了重新编译。

./bjam --TOOLS=gcc --build-type=complete --layout=tagged install

用complete的模式进行编译，在相关路径下可以发现对应的二进制文件：可以发现采用新模式编译后，很多库的release版本，debug版本，多线程支持版本都编译出来了，想用哪个用那个。



最后，重复步骤5，编译ceph.

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在后来的编译中，mon,osd,mds等等都编译成功，却发现rgw没有编译出来。通过显示的增加  
./configure --with-radosgw，得知了错误，是缺少fcgi的相关依赖。但是系统中已经安装fcgi于是清理重装。

[root@gnop029-ct-zhejiang\_wenzhou-16-12 yum.repos.d]# sudo yum install fcgi-devel

58 packages excluded due to repository priority protections

Resolving Dependencies

--> Running transaction check

---> Package fcgi-devel.x86\_64 0:2.4.0-12.el6 will be installed

--> Processing Dependency: fcgi = 2.4.0-12.el6 for package: fcgi-devel-2.4.0-12.el6.x86\_64

--> Processing Dependency: libfcgi.so.0()(64bit) for package: fcgi-devel-2.4.0-12.el6.x86\_64

--> Processing Dependency: libfcgi++.so.0()(64bit) for package: fcgi-devel-2.4.0-12.el6.x86\_64

--> Running transaction check

---> Package fcgi.x86\_64 0:2.4.0-10.el6 will be installed

---> Package fcgi-devel.x86\_64 0:2.4.0-12.el6 will be installed

--> Processing Dependency: fcgi = 2.4.0-12.el6 for package: fcgi-devel-2.4.0-12.el6.x86\_64

--> Finished Dependency Resolution

**Error:** Package: fcgi-devel-2.4.0-12.el6.x86\_64 (epel)

Requires: fcgi = 2.4.0-12.el6

Available: fcgi-2.4.0-10.el6.x86\_64 (Ceph)

fcgi = 2.4.0-10.el6

**Error:** Package: fcgi-devel-2.4.0-12.el6.x86\_64 (epel)

Requires: fcgi = 2.4.0-12.el6

Installing: fcgi-2.4.0-10.el6.x86\_64 (Ceph)

fcgi = 2.4.0-10.el6

You could try using --skip-broken to work around the problem

将yum.repo.d文件夹下所有的repo文件删除，只保留163的源，重新更新fcgi。后来编译的过程中又提示

rgw/rgw\_fcgi.cc:10:22: fatal **error:** fcgiapp**.h**: No such file or directory

# include "fcgiapp**.h**"

^

compilation terminated.

于是又安装fcgi-devel，后成功找到头文件，并进行编译。