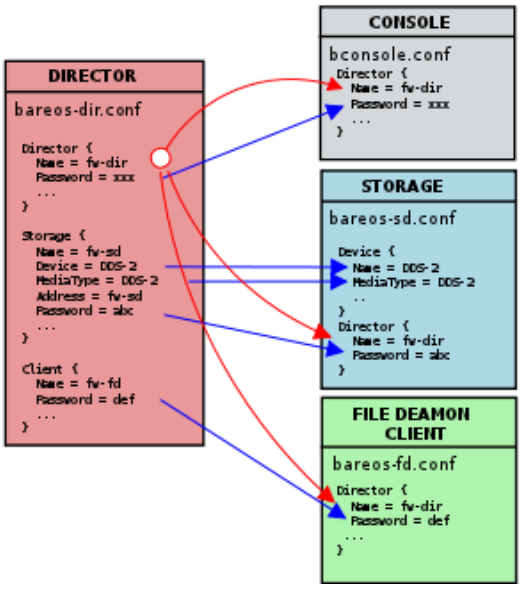
侠客书生

儒以文乱法,侠以武犯禁！

使用bareos备份

- 官方文档http://doc.bareos.org/master/html/bareos-manual-main-reference.html

bareos主要由主控端和客户端构成：



包含的重要的服务有：

```
bareos-director
bareos-storage
bareos-filedaemon
bareos-bconsole
bareos-database
```

bareos安装

安装bareos yum源：

```
wget -O /etc/yum.repos.d/bareos.repo http://download.bareos.org/bareos/release/latest/CentOS_6/bareos.repo
```

安装bareos：

```
yum install bareos bareos-database-mysql
```

安装好MySQL并运行如下脚本，为Bareos创建数据库和表：

```
/usr/lib/bareos/scripts/create_bareos_database
/usr/lib/bareos/scripts/make_bareos_tables
/usr/lib/bareos/scripts/grant_bareos_privileges
```

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常用链接

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随笔分类

Linux(32)
MySQL(15)
Python(1)

随笔档案

启动Bareos服务

```
/etc/init.d/bareos-dir start   # Director进程，逻辑控制
/etc/init.d/bareos-sd start   # Storage Daemon
/etc/init.d/bareos-fd start   # File Daemon
```

Bareos使用的端口 9101-9103
使用如下命令访问Director：

```
bconsole
```

输入help命令查看帮助：

```
[root@node1 ~]# bconsole
Connecting to Director localhost:9101
1000 OK: bareos-dir Version: 16.2.4 (01 July 2016)
Enter a period to cancel a command.
*help
  Command            Description
  =======            ===========
  add                Add media to a pool
  autodisplay        Autodisplay console messages
  automount          Automount after label
  cancel             Cancel a job
  configure          Configure director resources
  create             Create DB Pool from resource
  delete             Delete volume, pool or job
  disable            Disable a job/client/schedule
  enable             Enable a job/client/schedule
  estimate           Performs FileSet estimate, listing gives
  exit               Terminate Bconsole session
  export             Export volumes from normal slots to impo
  gui                Switch between interactive (gui off) and
  help               Print help on specific command
  import             Import volumes from import/export slots
  label              Label a tape
  list               List objects from catalog
  llist              Full or long list like list command
  messages           Display pending messages
  memory             Print current memory usage
  mount              Mount storage
  move               Move slots in an autochanger
```

- 常用的命令有：

```
show filesets
status dir
status client
status storage
status schedule
run  #运行run命令开始执行备份任务
quit
```

安装Bareos Webui

Bareos-webui是Bareos的Web管理接口，比 bconsole 命令要简单直观。

- CentOS 7上安装可参考：http://blog.topspeedsnail.com/archives/8404

System requirements

- A working Bareos environment, Bareos >= 16.2. The Bareos Director and Bareos Webui should have the same version.
- You can install Bareos Webui on any host it does not have to be installed on the same as the Bareos Director.
- An Apache 2.x Webserver with mod-rewrite, mod-php5 and mod-setenv enabled.
- PHP >= 5.5

安装好Apache和PHP（CentOS 6默认的php 5.3版本需要升级）：

- php 5.5安装参考 https://www.mojowill.com/geek/howto-install-php-5-4-5-5-or-5-6-on-centos-6-and-centos-7/

```
yum install httpd php php-cli php-common
```

安装 bareos-webui：
CentOS 6上安装

- https://github.com/bareos/bareos-webui/blob/master/doc/README-INSTALLATION.md
- https://github.com/bareos/bareos-webui/releases #下载地址

2017年9月 (1)
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文章分类

Linux(27)
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最新评论

1. Re:使用bareos备份
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--呆瓜同学
4. Re:CacheCloud+Redis Cluster 3部署
谢谢，一步到位的安装
--franjia

阅读排行榜

1. zabbix proxy安装配置(4610)
2. Graylog2日志服务安装配置(4070)
3. CacheCloud+Redis Cluster 3部署(3303)
4. Dnsmasq域名解析系统安装配置(3090)
5. CentOS 6.5通过yum安装 MySQL-5.5(2303)

评论排行榜

1. 使用bareos备份(3)
2. CacheCloud+Redis Cluster 3部署(1)

推荐排行榜

1. 使用bareos备份(1)

```
cd /var/www/html/
wget https://codeload.github.com/bareos/bareos-webui/zip/master -O bareos-webui.zip
  unzip bareos-webui.zip
mv bareos-webui-master bareos-webui
cp bareos-webui/install/apache/bareos-webui.conf /etc/httpd/conf.d/
```

修改bareos-webui.conf文件

```
#Alias /bareos-webui  /usr/share/bareos-webui/public
Alias /bareos-webui  /var/www/html/bareos-webui/public

#<Directory /usr/share/bareos-webui/public>
<Directory /var/www/html/bareos-webui/public>
```

```
/etc/init.d/httpd restart
```

onfigure the directors

```
mkdir /etc/bareos-webui
cp /var/www/html/bareos-webui/install/directors.ini /etc/bareos-webui/
```

Configure the webui

```
cp /var/www/html/bareos-webui/install/configuration.ini /etc/bareos-webui/
```

Create restricted named consoles

```
cp /var/www/html/bareos-webui/install/bareos/bareos-dir.d/console/admin.conf.example
 /etc/bareos-webui/admin.conf
cp /var/www/html/bareos-webui/install/bareos/bareos-dir.d/profile/webui-admin.conf
 /etc/bareos-webui/
```

console配置文件/etc/bareos-webui/admin.conf

```
Console {
  Name = admin
  Password = "admin"
  Profile = "webui-admin"
}
```

profile resource配置文件/etc/bareos-webui/webui-admin.conf

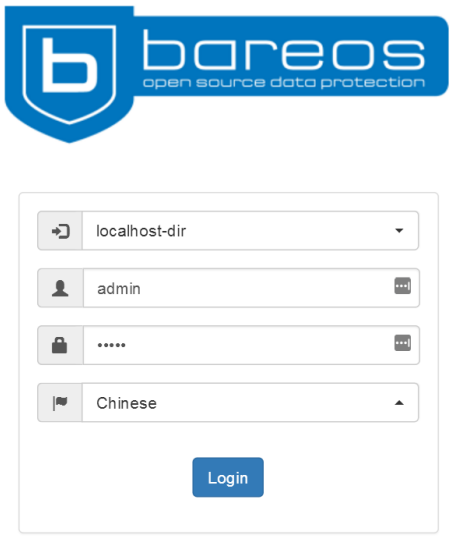
```
Profile {
  Name = "webui-admin"
  CommandACL = !.bvfs_clear_cache, !.exit, !.sql, !configure,
  Job ACL = *all*
  Schedule ACL = *all*
  Catalog ACL = *all*
  Pool ACL = *all*
  Storage ACL = *all*
  Client ACL = *all*
  FileSet ACL = *all*
  Where ACL = *all*
}
```

修改/etc/bareos/bareos-dir.d/director/bareos-dir.conf文件，在最后添加如下两行

```
@/etc/bareos-webui/admin.conf
@/etc/bareos-webui/webui-admin.conf
```

/etc/init.d/bareos-dir restart

登录web页面：http://IP/bareos-webui



手动测试备份任务

```
*show filesets
FileSet {
  Name = "Windows All Drives"
  Include {
    Options {
      Signature = MD5
      IgnoreCase = Yes
      Exclude = Yes
      Wild Dir = "[A-Z]:/RECYCLER"
      Wild Dir = "[A-Z]:/$RECYCLE.BIN"
      Wild Dir = "[A-Z]:/System Volume Information"
      Wild File = "[A-Z]:/pagefile.sys"
      Drive Type = "fixed"
    }
    File = "/"
  }
}

FileSet {
  Name = "SelfTest"
  Include {
    Options {
      Signature = MD5
    }
    File = "/usr/sbin"
  }
}
```

查看的默认备份的目录为/usr/sbin

```
*run
Automatically selected Catalog: MyCatalog
Using Catalog "MyCatalog"
A job name must be specified.
The defined Job resources are:
     1: RestoreFiles
     2: BackupCatalog
     3: backup-bareos-fd
Select Job resource (1-3): 3
Run Backup job
JobName:  backup-bareos-fd
Level:    Incremental
Client:   bareos-fd
Format:   Native
FileSet:  SelfTest
Pool:     Incremental (From Job IncPool override)
Storage:  File (From Job resource)
When:     2017-03-21 17:20:48
Priority: 10
OK to run? (yes/mod/no): yes
Job queued. JobId=1
*messages
```

```
21-Mar 17:22 bareos-sd JobId 1: Labeled new Volume "Full-0001" on device "FileStorage" (/var/lib/bareos/storage).
21-Mar 17:22 bareos-sd JobId 1: Wrote label to prelabeled Volume "Full-0001" on device "FileStorage" (/var/lib/bareos/storage)
21-Mar 17:22 bareos-sd JobId 1: Elapsed time=00:00:05, Transfer rate=6.646 M Bytes/second
21-Mar 17:22 bareos-dir JobId 1: Bareos bareos-dir 16.2.4 (01Jul16):
  Build OS:               x86_64-redhat-linux-gnu redhat CentOS release 6.6 (Final)
  JobId:                  1
  Job:                    backup-bareos-fd.2017-03-21_17.22.26_02
  Backup Level:           Full (upgraded from Incremental)
  Client:                 "bareos-fd" 16.2.4 (01Jul16) x86_64-redhat-linux-gnu,redhat,CentOS release 6.6 (Final),CentOS_6,x86_64
  FileSet:                "SelfTest" 2017-03-21 17:22:26
  Pool:                   "Full" (From Job FullPool override)
  Catalog:                "MyCatalog" (From Client resource)
  Storage:                "File" (From Job resource)
  Scheduled time:         21-Mar-2017 17:20:48
  Start time:             21-Mar-2017 17:22:28
  End time:               21-Mar-2017 17:22:35
  Elapsed time:           7 secs
  Priority:               10
  FD Files Written:       236
  SD Files Written:       236
  FD Bytes Written:       33,206,641 (33.20 MB)
  SD Bytes Written:       33,231,427 (33.23 MB)
  Rate:                   4743.8 KB/s
  Software Compression:   None
  VSS:                    no
  Encryption:             no
  Accurate:               no
  Volume name(s):         Full-0001
  Volume Session Id:      1
  Volume Session Time:    1490077934
  Last Volume Bytes:      33,263,636 (33.26 MB)
  Non-fatal FD errors:    0
  SD Errors:              0
  FD termination status:  OK
  SD termination status:  OK
```

查看备份文件

```
[root@node1 ~]# ll /var/lib/bareos/storage/
total 32488
-rw-r----- 1 bareos bareos 33263636 Mar 21 17:22 Full-0001
```

测试恢复

```
*restore all
Using Catalog "MyCatalog"

First you select one or more JobIds that contain files
to be restored. You will be presented several methods
of specifying the JobIds. Then you will be allowed to
select which files from those JobIds are to be restored.

To select the JobIds, you have the following choices:
     1: List last 20 Jobs run
     2: List Jobs where a given File is saved
     3: Enter list of comma separated JobIds to select
     4: Enter SQL list command
     5: Select the most recent backup for a client
     6: Select backup for a client before a specified time
     7: Enter a list of files to restore
     8: Enter a list of files to restore before a specified time
     9: Find the JobIds of the most recent backup for a client
    10: Find the JobIds for a backup for a client before a specified time
    11: Enter a list of directories to restore for found JobIds
    12: Select full restore to a specified Job date
    13: Cancel
Select item:  (1-13): 5
Automatically selected Client: bareos-fd
Automatically selected FileSet: SelfTest
+-------+-------+----------+------------+---------------------+------------+
| JobId | Level | JobFiles | JobBytes   | StartTime           | VolumeName |
+-------+-------+----------+------------+---------------------+------------+
|     1 | F     |      236 | 33,206,641 | 2017-03-21 17:22:28 | Full-0001  |
+-------+-------+----------+------------+---------------------+------------+
You have selected the following JobId: 1

Building directory tree for JobId(s) 1 ...  ++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

```
cwd is: /
$ done
Bootstrap records written to /var/lib/bareos/bareos-dir.restore.1.bsr

The job will require the following
   Volume(s)                 Storage(s)                SD Device(s)
===========================================================================

    Full-0001                 File                      FileStorage

Volumes marked with "*" are online.


236 files selected to be restored.

Run Restore job
JobName:         RestoreFiles
Bootstrap:       /var/lib/bareos/bareos-dir.restore.1.bsr
Where:           /tmp/bareos-restores
Replace:         Always
FileSet:         LinuxAll
Backup Client:   bareos-fd
Restore Client:  bareos-fd
Format:          Native
Storage:         File
When:            2017-03-21 18:14:59
Catalog:         MyCatalog
Priority:        10
Plugin Options:  *None*
OK to run? (yes/mod/no): yes
```

默认恢复到/tmp/bareos-restores，可以输入mod自定义位置

```
OK to run? (yes/mod/no): yes
Job queued. JobId=2
*messages
21-Mar 18:17 bareos-dir JobId 2: Start Restore Job RestoreFiles.2017-03-21_18.17.50_13
21-Mar 18:17 bareos-dir JobId 2: Using Device "FileStorage" to read.
21-Mar 18:17 bareos-sd JobId 2: Ready to read from volume "Full-0001" on device "FileS
21-Mar 18:17 bareos-sd JobId 2: Forward spacing Volume "Full-0001" to file:block 0:189
21-Mar 18:17 bareos-sd JobId 2: End of Volume at file 0 on device "FileStorage" (/var/
21-Mar 18:17 bareos-sd JobId 2: End of all volumes.
21-Mar 18:17 bareos-dir JobId 2: Bareos bareos-dir 16.2.4 (01Jul16):
  Build OS:               x86_64-redhat-linux-gnu redhat CentOS release 6.6 (Final)
  JobId:                  2
  Job:                    RestoreFiles.2017-03-21_18.17.50_13
  Restore Client:         bareos-fd
  Start time:             21-Mar-2017 18:17:52
  End time:               21-Mar-2017 18:17:52
  Elapsed time:           0 secs
  Files Expected:         236
  Files Restored:         236
  Bytes Restored:         33,206,641
  Rate:                   0.0 KB/s
  FD Errors:              0
  FD termination status:  OK
  SD termination status:  OK
  Termination:            Restore OK
```

查看恢复的文件

```
[root@node1 ~]# ll /tmp/bareos-restores/
total 4
drwxr-x--x 3 root bareos 4096 Mar 21 18:17 usr
```

恢复单个文件

```
*restore

First you select one or more JobIds that contain files
to be restored. You will be presented several methods
of specifying the JobIds. Then you will be allowed to
select which files from those JobIds are to be restored.

To select the JobIds, you have the following choices:
     1: List last 20 Jobs run
     2: List Jobs where a given File is saved
     3: Enter list of comma separated JobIds to select
     4: Enter SQL list command
     5: Select the most recent backup for a client
     6: Select backup for a client before a specified time
     7: Enter a list of files to restore
     8: Enter a list of files to restore before a specified time
     9: Find the JobIds of the most recent backup for a client
    10: Find the JobIds for a backup for a client before a specified time
    11: Enter a list of directories to restore for found JobIds
    12: Select full restore to a specified Job date
    13: Cancel
Select item:  (1-13): 7
Defined Clients:
     1: bareos-fd
     2: node2
Select the Client (1-2): 1
Enter file names with paths, or < to enter a filename
containing a list of file names with paths, and terminate
them with a blank line.
Enter full filename: /etc/resolv.conf
```

```
Enter full filename: /etc/resolv.conf
Enter full filename:
Bootstrap records written to /var/lib/bareos/bareos-dir.restore.1.bsr

The job will require the following
   Volume(s)                 Storage(s)                SD Device(s)
===========================================================================

    Full-0001                 File                      FileStorage

Volumes marked with "*" are online.


1 file selected to be restored.

Using Catalog "MyCatalog"
Run Restore job
JobName:         RestoreFiles
Bootstrap:       /var/lib/bareos/bareos-dir.restore.1.bsr
Where:           /tmp/bareos-restores
Replace:         Always
FileSet:         LinuxAll
Backup Client:   bareos-fd
Restore Client:  bareos-fd
Format:          Native
Storage:         File
When:            2017-04-05 17:57:56
Catalog:         MyCatalog
Priority:        10
Plugin Options:  *None*
OK to run? (yes/mod/no): yes
```

如果有多个文件可以写个列表，使用<符号导入

restore client=client1 file=</tmp/file-list

增加bareos-filedaemon客户端

在新的服务安装bareos-filedaemon

```
yum install -y bareos-filedaemon
```

在bareos-director服务器执行如下命令

bconsole

*configure add client name=node2 address=172.17.20.124 password=secret

```
*configure add client name=node2 address=172.17.20.124 password=secret
Exported resource file "/etc/bareos/bareos-dir-export/client/node2/bareos-fd.d/director/bareos-dir.conf":
Director {
  Name = bareos-dir
  Password = "[md5]5ebe2294ecd0e0f08eab7690d2a6ee69"
}
Created resource config file "/etc/bareos/bareos-dir.d/client/node2.conf":
Client {
  Name = node2
  Address = 172.17.20.124
  Password = secret
}
```

会创建如下两个文件

/etc/bareos/bareos-dir-export/client/node2/bareos-fd.d/director/bareos-dir.conf

/etc/bareos/bareos-dir.d/client/node2.conf

从bareos-director上拷贝文件到新的bareos-filedaemon服务器

scp /etc/bareos/bareos-dir-export/client/node2/bareos-fd.d/director/bareos-dir.conf node2:/etc/bareos/bareos-fd.d/director/

scp /etc/bareos/bareos-dir.d/client/node2.conf node2:/etc/bareos/bareos-dir.d/client/

在bareos-director服务器上执行

*reload

在新的bareos-client启动服务

```
service bareos-fd start
```

查看bareos-fd命令

```
bareos-fd -xc
```

在web页面上查看客户端

使用新的client运行一个job

查看node2的状态

```
*status client=node2
Connecting to Client node2 at 172.17.20.124:9102

node2-fd Version: 16.2.4 (01 July 2016)  x86_64-redhat-linux-gnu redhat CentOS release 6.6 (Final)
Daemon started 15-Mar-17 16:40. Jobs: run=0 running=0.
 Heap: heap=135,168 smbytes=28,509 max_bytes=28,898 bufs=64 max_bufs=67
 Sizeof: boffset_t=8 size_t=8 debug=0 trace=0 bwlimit=0kB/s

Running Jobs:
bareos-dir (director) connected at: 15-Mar-17 16:45
No Jobs running.
====

Terminated Jobs:
====
```

预估备份情况

```
*configure add job name=node2-job client=node2 jobdefs=DefaultJob
Created resource config file "/etc/bareos/bareos-dir.d/job/node2-job.conf":
Job {
  Name = node2-job
  Client = node2
  JobDefs = DefaultJob
}
*estimate listing job=node2-job
Using Catalog "MyCatalog"
Connecting to Client node2 at 172.17.20.124:9102
lrwxrwxrwx   1 root     root           27 2017-02-15 10:31:18  /usr/sbin/lpc -> /etc/alternatives/
-rwxr-xr-x   1 root     root        10528 2017-02-15 10:31:09  /usr/sbin/cupsctl
-rwxr-xr-x   1 root     root        29168 2015-09-24 15:13:20  /usr/sbin/xfs_fsr
-rwxr-xr-x   1 root     root          760 2015-09-24 15:13:20  /usr/sbin/xfs_freeze
-rwxr-xr-x   1 root     root       102360 2015-09-24 15:13:20  /usr/sbin/xfs_io
-rwxr-xr-x   1 root     root        80296 2015-09-24 15:13:20  /usr/sbin/xfs_quota
-rwxr-xr-x   1 root     root        14576 2017-02-15 10:31:09  /usr/sbin/lpinfo
-rwxr-xr-x   1 root     root          990 2015-09-24 15:12:09  /usr/sbin/create-cracklib-dict
-rwxr-xr-x   2 root     root        23064 2017-02-15 10:24:34  /usr/sbin/iconvconfig
lrwxrwxrwx   1 root     root           10 2015-09-24 15:12:27  /usr/sbin/ping6 -> /bin/ping6
-rwxr-xr-x   1 root     root        14632 2015-09-24 15:12:26  /usr/sbin/open_init_pty
-rwxr-xr-x   1 root     root           67 2017-02-15 10:27:50  /usr/sbin/atrun
-rwxr-xr-x   1 root     root          650 2015-09-24 15:13:20  /usr/sbin/xfs_ncheck
-rwxr-xr-x   1 root     root        24704 2015-09-24 15:12:25  /usr/sbin/lchage
-rwxr-xr-x   1 root     root         9932 2015-09-24 15:20:40  /usr/sbin/yum-complete-transaction
-rwxr-xr-x   1 root     root         1539 2017-02-15 10:31:36  /usr/sbin/foomatic-fix-xml
```

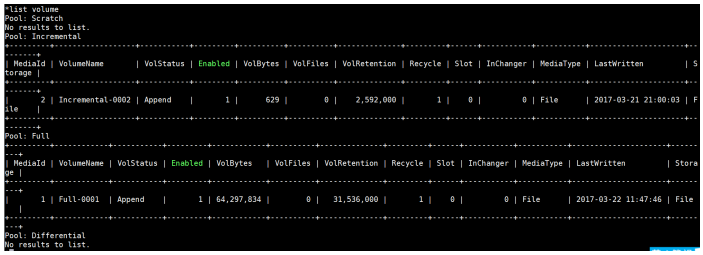
运行备份job

```
*run job=node2-job
Run Backup job
JobName:  node2-job
Level:    Incremental
Client:   node2
Format:   Native
FileSet:  SelfTest
Pool:     Incremental (From Job IncPool override)
Storage:  File (From Job resource)
When:     2017-03-22 11:47:12
Priority: 10
OK to run? (yes/mod/no): yes
Job queued. JobId=5
*wait jobid=5
JobId=5
JobStatus=OK (T)
*list joblog jobid=5
```

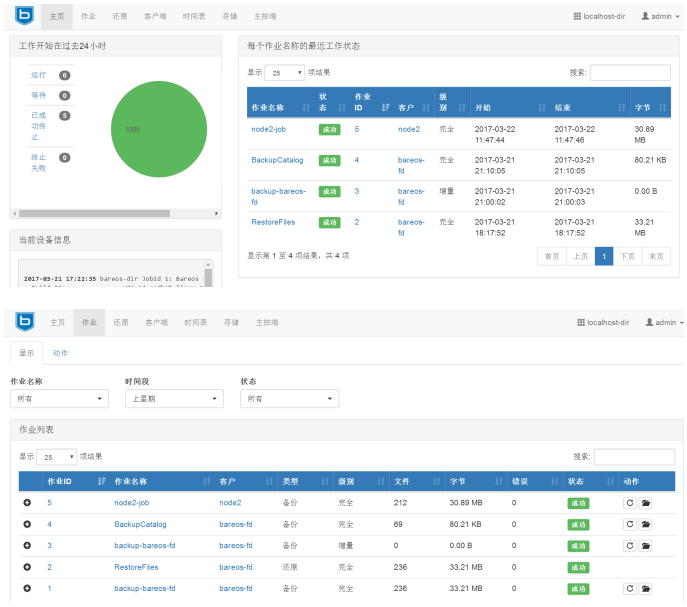
列出备份的文件

```
*list files jobid=5
 /usr/sbin/lpc
 /usr/sbin/cupsctl
 /usr/sbin/xfs_fsr
 /usr/sbin/xfs_freeze
 /usr/sbin/xfs_io
 /usr/sbin/xfs_quota
 /usr/sbin/lpinfo
```

查看存储卷



在web页面上查看所做的操作



备份相关配置

定义要备份的文件或目录（高级的定义写法请参考官方文档）

/etc/bareos/bareos-dir.d/fileset/SelfTest.conf配置文件

例如：

```
FileSet {
  Name = "SelfTest"
  Description = "fileset just to backup some files for selftest"
  Include {
    Options {
      Signature = MD5 # calculate md5 checksum per file
    }
    File = "/usr/sbin"
  }
}
```

定义备份的时间表（高级的时间表写法可以参考官方文档）

/etc/bareos/bareos-dir.d/schedule/WeeklyCycle.conf配置文件

例如：

```
Schedule {
  Name = "WeeklyCycle"
  Run = Full 1st sat at 21:00
  Run = Differential 2nd-5th sat at 21:00
  Run = Incremental mon-fri at 21:00
}
```

AfterBackup时间表

/etc/bareos/bareos-dir.d/schedule/WeeklyCycleAfterBackup.conf配置文件

例如：

```
Schedule {
  Name = "WeeklyCycleAfterBackup"
  Description = "This schedule does the catalog. It starts after the WeeklyCycle."
  Run = Full mon-fri at 21:10
}
```

定义备份存放的路径

/etc/bareos/bareos-sd.d/device/FileStorage.conf配置文件

例如：

```
Device {
  Name = FileStorage
  Media Type = File
  Archive Device = /var/lib/bareos/storage
  LabelMedia = yes;                   # lets Bareos label unlabeled media
  Random Access = yes;
  AutomaticMount = yes;               # when device opened, read it
  RemovableMedia = no;
  AlwaysOpen = no;
  Description = "File device. A connecting Director must have the same Name and MediaType."
}
```

Job和Jobdefs路径

/etc/bareos/bareos-dir.d/job/

/etc/bareos/bareos-dir.d/jobdefs/DefaultJob.conf #默认job定义

存储定义的路径

/etc/bareos/bareos-dir.d/storage/

console和profile权限路径

/etc/bareos/bareos-dir.d/console/

/etc/bareos/bareos-dir.d/profile/

添加自定义fileset

/etc/bareos/bareos-dir.d/fileset/my.conf

```
FileSet {
  Name = "MyTest"
  Include {
    Options {
      Signature = MD5 # calculate md5 checksum per file
    }
    File = "/data/my"
  }
}
```

使用命令行*configure add fileset name=my，或者重启/etc/init.d/bareos-dir restart使其生效。

使用show fileset查看

添加自定义jobdefs

/etc/bareos/bareos-dir.d/jobdefs/My.conf

```
JobDefs {
  Name = "MyJob"
  Type = Backup
  Level = Incremental
  Client = bareos-fd
  FileSet = "MyTest"                    # selftest fileset                          (#13)
  Schedule = "WeeklyCycle"
  Storage = File
  Messages = Standard
  Pool = Incremental
  Priority = 10
  Write Bootstrap = "/var/lib/bareos/%c.bsr"
  Full Backup Pool = Full                 # write Full Backups into "Full" Pool         (#05)
  Differential Backup Pool = Differential  # write Diff Backups into "Differential" Pool (#08)
  Incremental Backup Pool = Incremental    # write Incr Backups into "Incremental" Pool  (#11)
}
```

使用命令行*configure add jobdefs name=My，或者重启/etc/init.d/bareos-dir restart使其生效。

使用show jobdefs查看

添加自定义job

/etc/bareos/bareos-dir.d/job/my-job.conf

```
Job {
  Name = "my-job"
  JobDefs = "MyJob"
  Client = "bareos-fd"
}
```

重启/etc/init.d/bareos-dir restart

添加自定义schedule

/etc/bareos/bareos-dir.d/schedule/DailyCycle.conf

```
Schedule {
  Name = "DailyCycle"
  Run = Full at 14:00                     # (#04)
  Run = Differential at 16:00          # (#07)
  Run = Incremental at 20:00              # (#10)
}
```

重启/etc/init.d/bareos-dir restart

查看自定义备份是否运行成功

```
Terminated Jobs:
 JobId  Level    Files      Bytes   Status   Finished        Name
====================================================================
    37  Full         75    16.64 M  OK       03-Apr-17 21:10 BackupCatalog
    38  Incr          0          0  OK       04-Apr-17 21:00 node2-job
    39  Incr          0          0  OK       04-Apr-17 21:00 backup-bareos-fd
    40  Full         75    16.66 M  OK       04-Apr-17 21:10 BackupCatalog
    41                0          0  OK       05-Apr-17 17:58 RestoreFiles
    42  Incr          0          0  OK       05-Apr-17 21:00 node2-job
    43  Incr          0          0  OK       05-Apr-17 21:00 backup-bareos-fd
    44  Full         77    16.67 M  OK       05-Apr-17 21:10 BackupCatalog
    45  Full        468    3.683 M  OK       06-Apr-17 14:00 my-job
    46  Diff          0          0  OK       06-Apr-17 16:00 my-job
====
```

定义备份保留时间

/etc/bareos/bareos-dir.d/pool/Full.conf

```
Volume Retention = 365 days
```

添加备份情况邮件提醒

/etc/bareos/bareos-dir.d/messages/Standard.conf

```
Messages {
  Name = Standard
  Description = "Reasonable message delivery -- send most everything to email address and to the console."
  operatorcommand = "/usr/bin/bsmtp -h localhost -f \"\(Bareos\) \<%r\>\" -s \"Bareos: Intervention needed for %j\" %
  mailcommand = "/usr/bin/bsmtp -h localhost -f \"\(Bareos\) \<%r\>\" -s \"Bareos: %t %e of %c %l\" %r"
  operator = root@localhost = mount                       # (#03)
  mail = root@localhost = all, !skipped, !saved, !audit            # (#02)
  console = all, !skipped, !saved, !audit
  append = "/var/log/bareos/bareos.log" = all, !skipped, !saved, !audit
  catalog = all, !skipped, !saved, !audit
}
```

重启/etc/init.d/bareos-dir restart

Copy or Migration

迁移数据，从一个Volume移动到另一个Volume。（具体用法可参考官方文档）

安装 bareos-storage-tape

相关配置文件：

/etc/bareos/mtx-changer.conf
/etc/bareos/bareos-sd.d/autochanger/autochanger-0.conf
/etc/bareos/bareos-sd.d/device/tapedrive-0.conf

插件使用

可以配合一些插件备份数据

例如：

MySQL Plugin

Backup of MySQL Databases using the Bareos MySQL Percona xtrabackup Plugin

1.Install the xtrabackup tool from Percona

2.Install the files BareosFdPercona.py and bareos-fd-percona.py in your Bareos plugin directory

https://github.com/bareos/bareos-contrib/tree/master/fd-plugins/bareos_percona

3.Configuration Activate your plugin directory in the fd resource conf on the client

编辑bareos-fd.d/client/mysql-fd.conf

```
Client  {
      Name  =  mysql-fd
      #...
      Plugin  Directory  =  /usr/lib64/bareos/plugins
      Plugin  Name  =  "python"
  }
```

编辑bareos-dir.d/fileset/mysql.conf

```
FileSet  {
          Name  =  "mysql"
          Include    {
                  Options  {
                          compression=GZIP
                          signature  =  MD5
                  }
                  File  =  /etc
                  #...
                  Plugin  =  "python:module_path=/usr/lib64/bareos/plugins:module_name=bareos-fd-
percona"
          }
  }
```

其他插件 bpipe plugin，LDAP Plugin，VMware Plugin等用法可参考官方文档。

加密（具体可参考官方文档）

传输加密

修改bareos-dir.conf

```
Director {                                                    # define myself
        Name = backup1-dir
        ...
        TLS Enable = yes
        TLS Require = yes
        TLS Verify Peer = yes
        TLS Allowed CN = "bareos@backup1.example.com"
        TLS Allowed CN = "administrator@example.com"
        TLS CA Certificate File = /etc/bareos/tls/ca.pem
        # This is a server certificate, used for incoming
        # console connections.
        TLS Certificate = /etc/bareos/tls/backup1/cert.pem
        TLS Key = /etc/bareos/tls/backup1/key.pem
}

Storage {
        Name = File
        Address = backup1.example.com
        ...
        TLS Require = yes
        TLS CA Certificate File = /etc/bareos/tls/ca.pem
        # This is a client certificate, used by the director to
        # connect to the storage daemon
        TLS Certificate = /etc/bareos/tls/backup1/cert.pem
        TLS Key = /etc/bareos/tls/backup1/key.pem
}

Client {
        Name = backup1-fd
        Address = client1.example.com
        ...
        TLS Enable = yes
        TLS Require = yes
        TLS CA Certificate File = /etc/bareos/tls/ca.pem
        TLS Certificate = /etc/bareos/tls/backup1/cert.pem
        TLS Key = /etc/bareos/tls/backup1/key.pem
}
```

修改bareos-fd.conf

```
Director {
        Name = backup1-dir
        ...
        TLS Enable = yes
        TLS Require = yes
        TLS Verify Peer = yes
        # Allow only the Director to connect
        TLS Allowed CN = "bareos@backup1.example.com"
        TLS CA Certificate File = /etc/bareos/tls/ca.pem
        # This is a server certificate. It is used by connecting
        # directors to verify the authenticity of this file daemon
        TLS Certificate = /etc/bareos/tls/client11/cert.pem
        TLS Key = /etc/bareos/tls/client1/key.pem
}

FileDaemon {
        Name = backup1-fd
        ...
        # you need these TLS entries so the SD and FD can
        # communicate
        TLS Enable = yes
        TLS Require = yes

        TLS CA Certificate File = /etc/bareos/tls/ca.pem
        TLS Certificate = /etc/bareos/tls/client1/cert.pem
        TLS Key = /etc/bareos/tls/client1/key.pem
}
```

修改bareos-sd.conf

```
Storage {                                             # definition of myself
        Name = backup1-sd
        ...
        # These TLS configuration options are used for incoming
        # file daemon connections. Director TLS settings are handled
        # below.
        TLS Enable = yes
        TLS Require = yes
        # Peer certificate is not required/requested -- peer validity
        # is verified by the storage connection cookie provided to the
        # File Daemon by the director.
        TLS Verify Peer = no
        TLS CA Certificate File = /etc/bareos/tls/ca.pem
        # This is a server certificate. It is used by connecting
        # file daemons to verify the authenticity of this storage daemon
        TLS Certificate = /etc/bareos/tls/backup1/cert.pem
        TLS Key = /usr/local/etc/ssl/backup1/key.pem
}

#
# List Directors who are permitted to contact Storage daemon
#
Director {
        Name = backup1-dir
        ...
        TLS Enable = yes
        TLS Require = yes
        # Require the connecting director to provide a certificate
        # with the matching CN.
        TLS Verify Peer = yes
        TLS Allowed CN = "bareos@backup1.example.com"
        TLS CA Certificate File = /etc/bareos/tls/ca.pem
        # This is a server certificate. It is used by the connecting
        # director to verify the authenticity of this storage daemon
        TLS Certificate = /etc/bareos/tls/backup1/cert.pem
        TLS Key = /etc/bareos/tls/backup1/key.pem
}
```

数据加密

修改bareos-fd.conf

```
FileDaemon {
      Name = client1-fd

      # encryption configuration
      PKI Signatures = Yes                                    # Enable Data Signing
      PKI Encryption = Yes                                    # Enable Data Encryption
      PKI Keypair      = "/etc/bareos/client1-fd.pem" # Public and Private Keys
      PKI Master Key = "/etc/bareos/master.cert"      # ONLY the Public Key
      PKI Cipher       = aes128                               # specify desired PKI Cipher here
}
```

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