

# Astra Linux Special Edition 1.5      Bacula

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## Bacula Astra Linux Special Edition .10015-01 ( 1.5)

:

Director Daemon 10.0.0.23 - , , *bacula-dir*.  
Storage Daemon 10.0.0.24 - , . *bacula-sd*.  
File Daemon 10.0.0.25 - , . *bacula-fd*.

Director Daemon :  
*postgresql-9.4 pgadmin3 bacula-common bacula-common-pgsql bacula-console bacula-director-common bacula-director-pgsql*

 bacula , , .

Storage Daemon :  
*bacula-sd-pgsql*

File Daemon:  
*bacula-fd*

Director Daemon  
*/etc/postgresql/9.4/main/postgresql.conf :*

```
listen_addresses=''
```

*/etc/postgresql/9.4/main/pg\_hba.conf trust .*  
*host ip , bacula-dir.*

```
local all postgres trust
local all all trust
host all all 127.0.0.1/32 trust
host all all 10.0.0.23/24 trust
```

:

```
pg_ctlcluster 9.4 main restart
```

postgres:

```
passwd postgres
```

bacula:

```
passwd bacula
```

bacula

bacula, - root:

```
#psql template1 -U postgres -h 10.0.0.23 -p PORT
```

PORT pg\_lsclusters

```
template1=# CREATE ROLE bacula;  
template1=# ALTER USER bacula PASSWORD 'bacula';  
template1=# ALTER USER bacula LOGIN SUPERUSER CREATEDB CREATEROLE;
```

bacula

```
CREATE DATABASE bacula;  
ALTER DATABASE bacula OWNER TO bacula;
```

PAM, postgres  
:

```
usermod -a -G shadow postgres  
setfacl -d -m u:postgres:r /etc/parsec/macdb  
setfacl -R -m u:postgres:r /etc/parsec/macdb  
setfacl -m u:postgres:rx /etc/parsec/macdb  
  
setfacl -d -m u:postgres:r /etc/parsec/capdb  
setfacl -R -m u:postgres:r /etc/parsec/capdb  
setfacl -m u:postgres:rx /etc/parsec/capdb
```

bacula :

```
pdpl-user bacula -l 0:0
```

/usr/share/bacula-director/make\_postgresql\_tables /usr/share/bacula-director/grant\_postgresql\_privileges :

```
db_name=${db_name:-bacula}  
psql -U bacula -h 10.0.0.23 -p 5433 -f - -d ${db_name} $* <<END-OF-DATA
```

make\_postgresql\_tables grant\_postgresql\_privileges

, Storage Daemon /back, , bacula:

```
mkdir /back  
chown -R bacula /back
```

, File Daemon /etc2, :

```
mkdir /etc2
```

, , , bacula.

## bacula

Bacula .

### Director Daemon

Director Daemon /etc/bacula/bacula-dir bakula1.

Director. Name Password. Name Director Daemon, Password – , BC DD. .

```
Director {
  Name = bacula-dir
  DIRport = 9101
  QueryFile = "/etc/bacula/scripts/query.sql"
  WorkingDirectory = "/var/lib/bacula"
  PidDirectory = "/run/bacula"
  Maximum Concurrent Jobs = 1
  Password = "1" # Console password
  Messages = Daemon
  DirAddress = 10.0.0.23
}
```

JobDefs , .

Job, . , .  
Type . , . Backup.  
Schedule , . , bacula-dir.conf. WeeklyCycle , .  
Where , .  
Write Bootstrap , , Bacula Catalog. %n Name:

```
Job {
  Name = "BackupClient1"
  Type = Backup
  Client = bacula-fd
  FileSet="Catalog"
  Schedule = "DailyCycle"
  Messages = Standard
  Pool = Default
  Write Bootstrap = "/var/lib/bacula/%n.bsr"
  Priority = 1
}

Job {
  Name = "RestoreFiles"
  Type = Restore
  Client=bacula-fd
  FileSet="Catalog"
  Storage = File
  Pool = Default
  Messages = Standard
  Where = /home2
}
```

– FileSet, . , Windows, – Linux , – . .

Name .  
Include /, Exclude – , . Include Options, .  
signature .  
compression .  
recurse , .  
File , .  
xattrsupport , .

```

FileSet {
    Name = "Catalog"
    Include {
        Options {
            signature = MD5
            compression = GZIP
            aclsupport = yes
            xattrsupport = yes
        }
        File = /home
    }
}

Exclude

Schedule {
    Name = "DailyCycle"
    Run = Full daily at 15:30
    Run = Differential 2nd-5th sun at 23:05
    Run = Incremental mon-sat at 23:05
}

Schedule FileSet .

, .

Client {
    Name = bacula-fd
    Address = 10.0.0.25
    FdPort = 9102
    Catalog = MyCatalog
    Password = "1"
    File Retention = 30 days
    Job Retention = 6 months
    AutoPrune = yes
}

SD, . Storage Daemon , Storage bacula-dir.conf.
Name - , Storage bacula-dir.conf
Device MediaType bacula-sd.conf.
Password , Storage Daemon.

Storage {
    Name = File
    Address = 10.0.0.24
    SDPort = 9103
    Password = "1"
    Device = FileStorage
    Media Type = File
}

, , Catalog. , Bacula Catalog Name:

Catalog {
    Name = MyCatalog
    dbname = "bacula"; DB Address = "10.0.0.23"; dbuser = "bacula"; dbpassword = "bacula"; DB PORT = "5433"
}

Messages {
    Name = Standard
    mailcommand = "/usr/sbin/bsmtp -h localhost -f \"\\(Bacula\\) \<%r\>\" -s \"Bacula: %t %e of %c %l\" %r"
    operatorcommand = "/usr/sbin/bsmtp -h localhost -f \"\\(Bacula\\) \<%r\>\" -s \"Bacula: Intervention needed for
%j\" %r"
    mail = root = all, !skipped
    operator = root = mount
    console = all, !skipped, !saved
    append = "/var/log/bacula/bacula.log" = all, !skipped
    catalog = all
}

Messages {
    Name = Daemon
    mailcommand = "/usr/sbin/bsmtp -h localhost -f \"\\(Bacula\\) \<%r\>\" -s \"Bacula daemon message\" %r"
    mail = root = all, !skipped
    console = all, !skipped, !saved
    append = "/var/log/bacula/bacula.log" = all, !skipped
}

```

```

Pool , , SD . Pool , , . File Daemon , FD Pool. .
Name .
ool Type , Backup.
Maximum Volume Jobs 1. , , . - , ( , ). , , , . , " - ",.. Bacula , . . .
Volume Retention - , , , . Bacula , , , , , Bacula. . . . , . . .
Maximum Volumes - ( , ) , .
Recycle , . , . Maximum Volumes.
AutoPrune , Bacula Catalog .
Label Format , Bacula , - .
Storage , Name Storage bacula-dir.conf.

```

```

Pool {
    Name = Default
    Pool Type = Backup
    Recycle = yes
    AutoPrune = yes
    Volume Retention = 1 month
    Maximum Volume Jobs = 5
    Maximum Volumes = 32
    Storage = File
    Label Format = "volume-"
}

```

Pool .

```

Console {
    Name = bacula-mon
    Password = "1"
    CommandACL = status, .status
}

```

DD Bacula Console /etc/bacula/bconsole.conf Director Daemon :

```

Director {
    Name = bacula-dir
    DIRport = 9101
    address = 10.0.0.23
    Password = "1"
}

```

, Director Daemon bacula-sd bacula-fd, :

```

apt-get remove bacula-sd
apt-get remove bacula-fd

```

```

bacula-sd bacula-fd /etc/bacula , .
bacula-sd bacula-fd :

```

```

/etc/init.d/bacula-sd stop
/etc/init.d/bacula-fd stop

```

## Storage Daemon

Storage Daemon, . Bacula , . . - ( , ext3). , bakula2 /etc/bacula/bacula-sd.conf. - Storage, Name, Storage Daemon.

Director DD , DD SD. , . Director, , , .

```

Storage {
    Name = bacula-sd
    DPort = 9103
    WorkingDirectory = "/var/lib/bacula"
    Pid Directory = "/var/run/bacula"
    Maximum Concurrent Jobs = 20
    SDAddress = 10.0.0.24
}

```

```

Director {
    Name = bacula-dir
    Password = "1"
}

```

```
, , Device. , , /back.
Name . File Daemon, Device . FD , .
Media Type , Bacula . , . , Device Media Type.
Archive Device /dev , .
Device Type . File.
Random Access () . Yes.
RemovableMedia, . , .. No.
LabelMedia .
```

```
Device {
Name = FileStorage
Media Type = File
Archive Device = /back
LabelMedia = yes;
Random Access = Yes;
AutomaticMount = yes;
RemovableMedia = no;
AlwaysOpen = no;
}

Messages {
Name = Standard
director = bacula-dir = all
}
```

```
, Storage Daemon bacula-fd:
```

```
apt-get remove bacula-fd
```

```
bacula-fd /etc/bacula , .
bacula-fd :
```

```
/etc/init.d/bacula-fd stop
```

## File Daemon

```
File Daemon bakula3.
/etc/bacula/bacula-fd, Director, , DD FD, FileDaemon, FD. Director, , , .
```

```
Director {
Name = bacula-dir
Password = "1"
}
```

```
FileDaemon, , Name, File Daemon:
```

```
FileDaemon {
Name = bacula-fd
FDport = 9102
WorkingDirectory = /var/lib/bacula
Pid Directory = /var/run/bacula
Maximum Concurrent Jobs = 20
FDAddress = 10.0.0.25
}
```

```
Messages {
Name = Standard
director = bacula-dir = all, !skipped, !restored
}
```

```
, File Daemon bacula-sd:
```

```
apt-get remove bacula-sd
```

```
bacula-sd /etc/bacula , .
bacula-sd :
```

```
/etc/init.d/bacula-sd stop
```

```
, ::
```

```
/etc/init.d/bacula-director restart
/etc/init.d/bacula-sd restart
/etc/init.d/bacula-fd restart
```

```
bacula . bacula bconsole. , , .
```

bconsole, run, job 1, mod, 1 (Level), 1 (Full), yes. /back Storage Daemon. restore, 12, job id, mark \*, done. /etc2 File Daemon.