

Bacula:

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- Bacula:
- Bacula:
 - Bacula Director:
 - Bacula Storage:
 - Bacula FileDaemon (F):
- Bacula: .
- Bacula: BackUp and Restore
 - Bacula:
 - Bacula:

Bacula – «-» , , , , , , , , . TCP/IP. , .

:

- 1) **Director Daemon (DD)** – , . / , . – , .
 - 2) **Storage Daemon (SD)** – , / . DD, / File Daemon.
 - 3) **File Daemon (FD)** – . , . File Daemon , SD. FD , .
 - 4) **Bacula Console (BC)** – . , Bacula. , Bacula Console , , , BC. Tray Monitor Bat. , .
 - 5) **Bacula Catalog** – , . . MySQL, **PostgreSQL** SQLite.
- , Storage Daemon . Bacula Director SD, , – .

Bacula _____.

Bacula :

- bacula-common-pgsql;
- bacula-director-pgsql;
- bacula-director;
- bacula-console;
- bacula-console-qt

:

```
sudo apt install bacula-common-pgsql bacula-director-pgsql bacula-director  
bacula-console bacula-console-qt
```

PostgreSQL. , , , PostgreSQL 11, Astra Linux PostgreSQL 9.6. :

```
apt policy postgresql
```

PostgreSQL , Bacula . :

```
sudo cp /etc/postgresql/11/main/postgresql.conf /etc/postgresql/11/main  
/postgresql.conf_bak  
sudo cp /etc/postgresql/11/main/pg_hba.conf /etc/postgresql/11/main/pg_hba.  
conf_bak
```



«Connection Settings» «/etc/postgresql/11/main/postgresql.conf» listen_addresses="localhost" listen_addresses="*", * localhost:



«/etc/postgresql/11/main/pg_hba.conf» :

- trust ;
- mod=;
- IP-, .

«Database administrative login by Unix domain socket» «/etc/postgresql/11/main/pg_hba.conf» :

local		all	postgres	peer
-------	--	-----	----------	------

:

local		all	postgres	trust
-------	--	-----	----------	-------

«local» «pg_hba.conf» :

local		all	all	peer
-------	--	-----	-----	------

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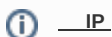
local		all	all	trust
-------	--	-----	-----	-------

«IPv4» «pg_hba.conf» :

host		all	all	0.0.0.0
/0	md5			

2 :

host		all	all	127.0.0.1
/32	trust			



—IP

host		all	all
192.168.244.70/24		trust	



:

```
sudo pg_ctlcluster 9.6 main restart
```

postgres:

```
sudo passwd postgres
```

bacula:

```
sudo passwd bacula
```

"1".

bacula «bacula» Bacula .

:

```
sudo -s
```

```
sudo -i
```

psql :

 IP

psql :

```
psql template1 -U postgres -h 192.168.244.70 -p 5432
```

IP, () .

bacula :

```
template1=# CREATE ROLE bacula;
```

bacula / :

```
CREATE ROLE
```

: "bacula" :

```
template1=# ALTER USER bacula WITH PASSWORD 'bacula';
```

:

```
ALTER ROLE
```

:

```
template1=# ALTER USER bacula LOGIN SUPERUSER CREATEDB CREATEROLE;
```

:

```
ALTER ROLE
```

psql :

```
template1=# \q
```

bacula, **bacula.**

psql :

```
psql postgres -p 5432 -U postgres
```

:

```
postgres=# CREATE DATABASE bacula WITH ENCODING = 'SQL_ASCII' LC_COLLATE =  
'C' LC_CTYPE = 'C' TEMPLATE = 'template0';
```



Bacula , .

:

```
CREATE DATABASE
```

"bacula" :

```
postgres=# ALTER DATABASE bacula OWNER TO bacula;
```

:

```
ALTER DATABASE
```

psql :

```
postgres=# \q
```

, ,

1 ():

```
sudo cp /usr/share/bacula-director/make_postgresql_tables /usr/share/bacula-  
director/make_postgresql_tables_bak
```

:

```
sudo mcedit /usr/share/bacula-director/make_postgresql_tables
```

"db_name" (14) «bacula»:

```
db_name=bacula
```

psql psql «-U bacula -h 192.168.244.70 -p 5432»:

```
psql -f - -d ${db_name} $* <<END-OF-DATA
```

 __IP__

```
psql -U bacula -h 192.168.244.70 -p 5432 -f - -d ${db_name} $* <<END-OF-DATA
```

 .

:

```
sudo cp /usr/share/bacula-director/grant_postgresql_privileges /usr/share  
/bacula-director/grant_postgresql_privileges_bak
```

:

```
sudo mcedit /usr/share/bacula-director/grant_postgresql_privileges
```

db_user (8) «bacula»

```
db_user=bacula
```

db_name «bacula»

```
db_name=bacula
```

db_password «bacula»

```
db_password=bacula
```

\$bindir/psql**** psql «-U bacula -h 192.168.244.70 -p 5432»

```
$bindir/psql -f - -d ${db_name} $* <<END-OF-DATA
```

 __IP__

```
$bindir/psql -U bacula -h 192.168.244.70 -p 5432 -f - -d ${db_name} $*  
<<END-OF-DATA
```

 .

, postgres:

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

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

:

```
sudo /usr/share/bacula-director/make_postgresql_tables
```

```
sudo /usr/share/bacula-director/grant_postgresql_privileges
```

, :

1. ;
2. ;
3. .

:

Privileges for user bacula granted on database bacula.

- , , , , ,

script.sh :



777:

```
sudo chmod 777 script.sh
```

(-) sudo:

```
sudo ./script.sh
```

IP (, " , , , -)

```
#!/bin/bash
```

```
# postgresql:
cp /etc/postgresql/9.6/main/postgresql.conf /etc/postgresql/9.6/main/postgresql.conf_bak
cp /etc/postgresql/9.6/main/pg_hba.conf /etc/postgresql/9.6/main/pg_hba.conf_bak
sed -i -e "/listen_addresses/s/^\#/" -i -e "/listen_addresses/a\\t\\listen_addresses=''" /etc/postgresql/9.6/main/postgresql.conf
sed -i -e "s/local *all *postgres/#&/" /etc/postgresql/9.6/main/pg_hba.conf
```

```

sed -i -e "/local *all *postgres/a\local\tall\tpostgres\ttrust" /etc
/postgresql/9.6/main/pg_hba.conf
sed -i -e "s/local *all *all/#&/" /etc/postgresql/9.6/main/pg_hba.conf
sed -i -e "/local *all *all/a\local\tall\tall\ttrust\nhost\tall\tall\t\t127.
0.0.1/32\ttrust\nhost\tall\tall\t\t192.168.244.70/24\ttrust" /etc/postgresql
/9.6/main/pg_hba.conf
sed -i -e "s/host *all *all/#&/" /etc/postgresql/9.6/main/pg_hba.conf

# :
pg_ctlcluster 9.6 main restart

# postgres bacula
echo "postgres:1" | chpasswd &> /dev/null
echo "bacula:1" | chpasswd &> /dev/null

# bacula
>/tmp/adduser.sql
chmod 644 /tmp/adduser.sql
echo "CREATE ROLE bacula;
        ALTER USER bacula WITH PASSWORD 'bacula';
        ALTER USER bacula LOGIN SUPERUSER CREATEDB CREATEROLE;" >
/tmp/adduser.sql
cd /tmp
su -c "psql template1 -U postgres -h 192.168.244.70 -p 5432 -f /tmp/adduser.
sql" postgres
rm /tmp/adduser.sql

# bacula
>/tmp/adddb.sql
chmod 644 /tmp/adddb.sql
echo "CREATE DATABASE bacula;
        ALTER DATABASE bacula OWNER TO bacula;" > /tmp/adddb.sql
cd /tmp
su -c "psql postgres -p 5432 -U postgres -f /tmp/adddb.sql" postgres
rm /tmp/adddb.sql

# ,
# , postgres
sed -i -e /db_name/s/^\#/" /usr/share/bacula-director/make_postgresql_tables
sed -i -e "/psql/a\db_name=\${db_name:-bacula}\npsql\ -U\ bacula\ -h\
192.168.244.70\ -p\ 5432\ -f\ -\ -d\ \${db_name}\ \${*\ } \<<END-OF-DATA" /usr
/share/bacula-director/make_postgresql_tables
sed -i -e "/XXX_DBUSER_XXX/s/^\#/" -i -e "/XXX_DBUSER_XXX
/a\db_user=\${db_user:-bacula}" /usr/share/bacula-director
/grant_postgresql_privileges
sed -i -e "/XXX_DBNAME_XXX/s/^\#/" -i -e "/XXX_DBNAME_XXX
/a\db_name=\${db_name:-bacula}" /usr/share/bacula-director
/grant_postgresql_privileges
sed -i -e "/XXX_DBPASSWORD_XXX/s/^\#/" -i -e "/XXX_DBPASSWORD_XXX
/a\db_password=bacula" /usr/share/bacula-director
/grant_postgresql_privileges
sed -i -e "/bindir\psql/s/^\#/" -i -e "/bindir\psql/a\${bindir}\psql\ -U\
bacula\ -h\ 192.168.244.70\ -p\ 5432\ -f\ -\ -d\ \${db_name} \${*\ } \<<END-OF-
DATA" /usr/share/bacula-director/grant_postgresql_privileges

sed -i -e /zero_if_notfound/s/^\#/" /etc/parsec/mswitch.conf
sed -i -e /zero_if_notfound/a\zero_if_notfound:yes /etc/parsec/mswitch.conf

usermod -a -G shadow postgres

```

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

pdpl-user bacula -l 0:0

#
/usr/share/bacula-director/make_postgresql_tables
/usr/share/bacula-director/grant_postgresql_privileges
```



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