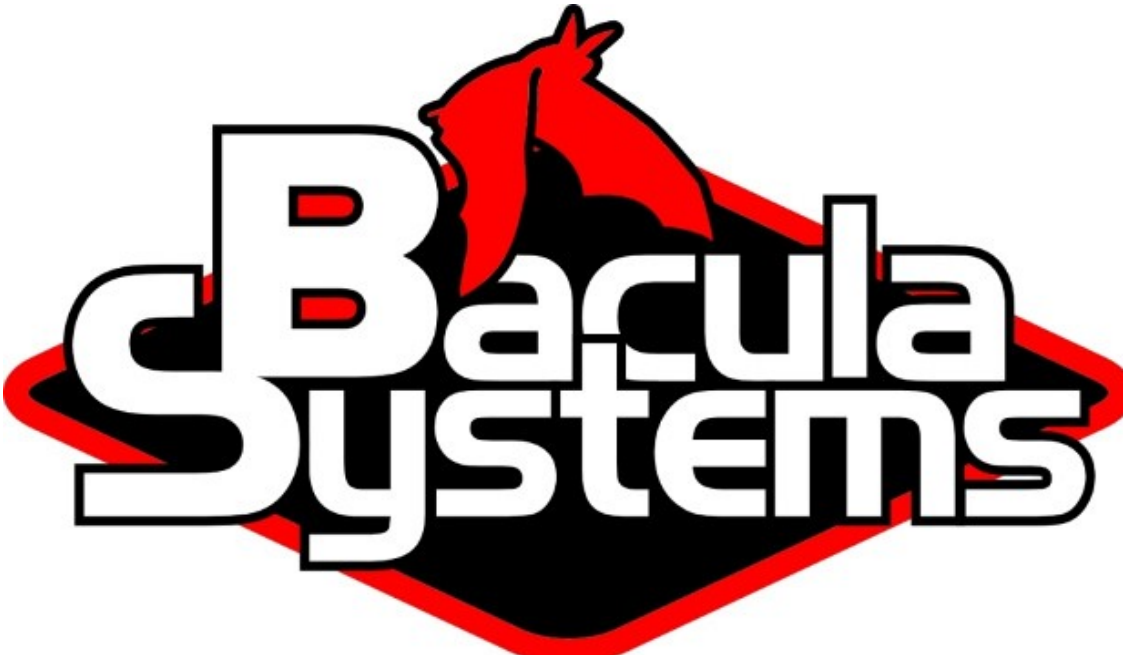


Sommaire :

2 – Installation du serveur de sauvegarde

3 – Propriétés TCPIP de l'interface réseau du serveur

4 – Configuration de base du serveur

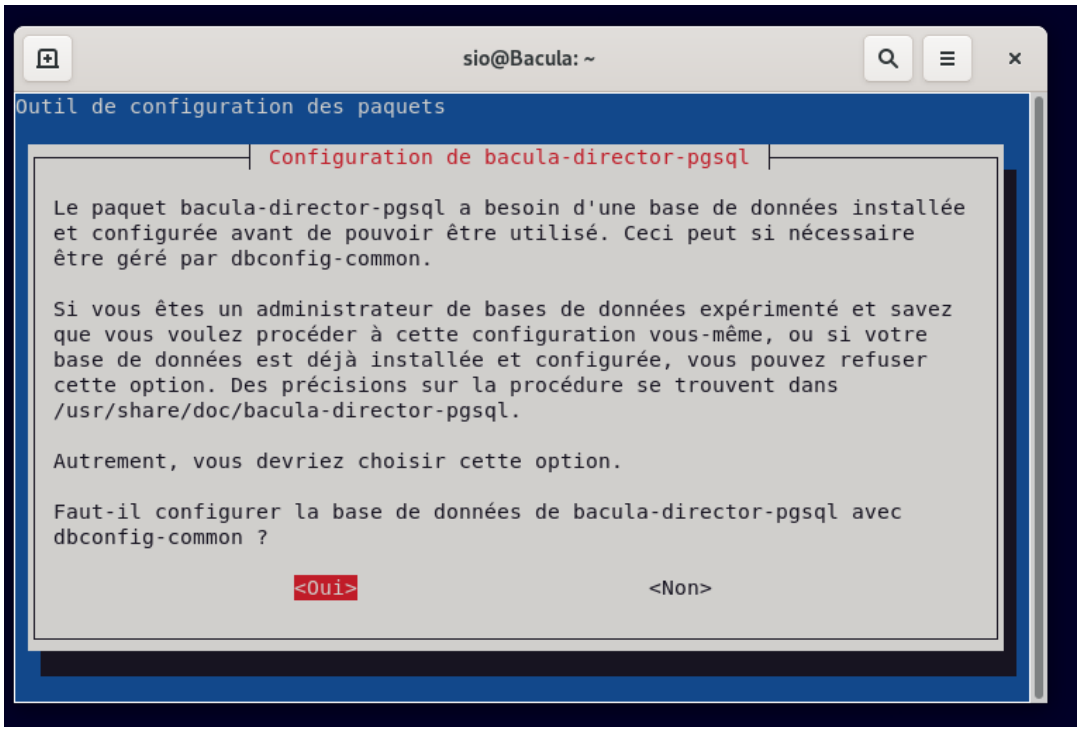
5 – Configuration du client

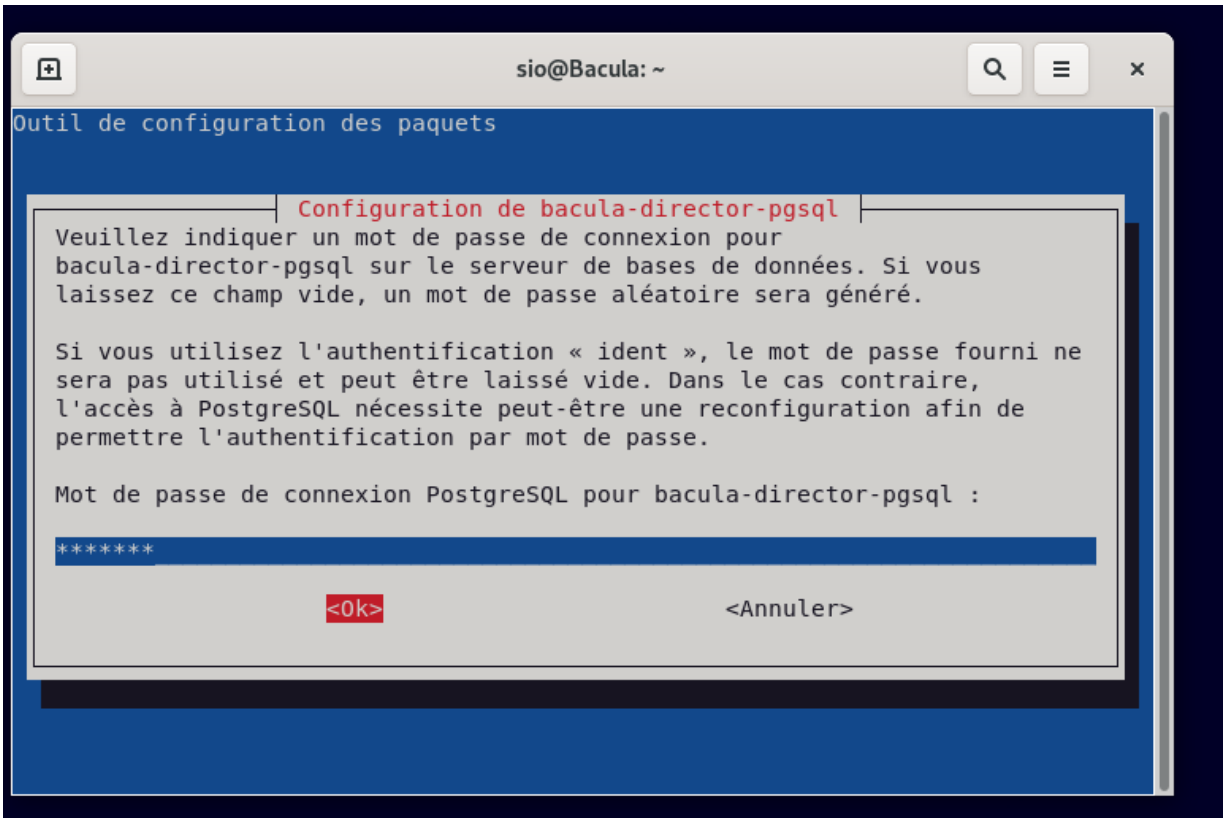
6 – Paramétrage de la sauvergarde

8 – Réaliser une sauvegarde manuelle

2 – Installation du serveur de sauvegarde

```
root@Bacula:~# apt-get install bacula bacula-console-qt
```



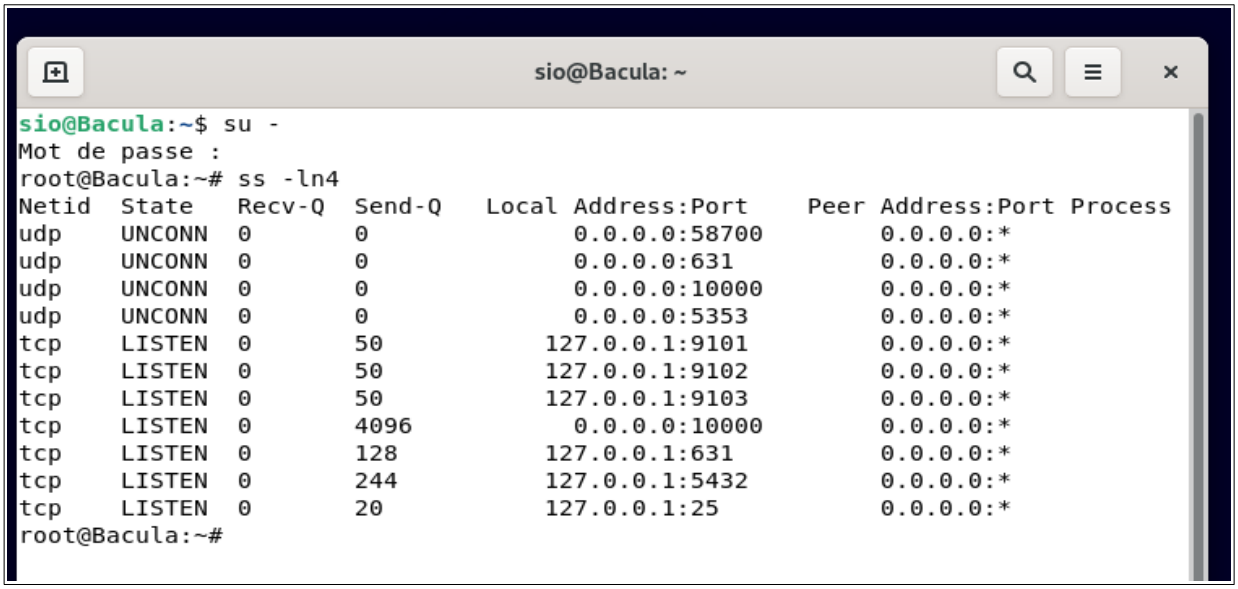


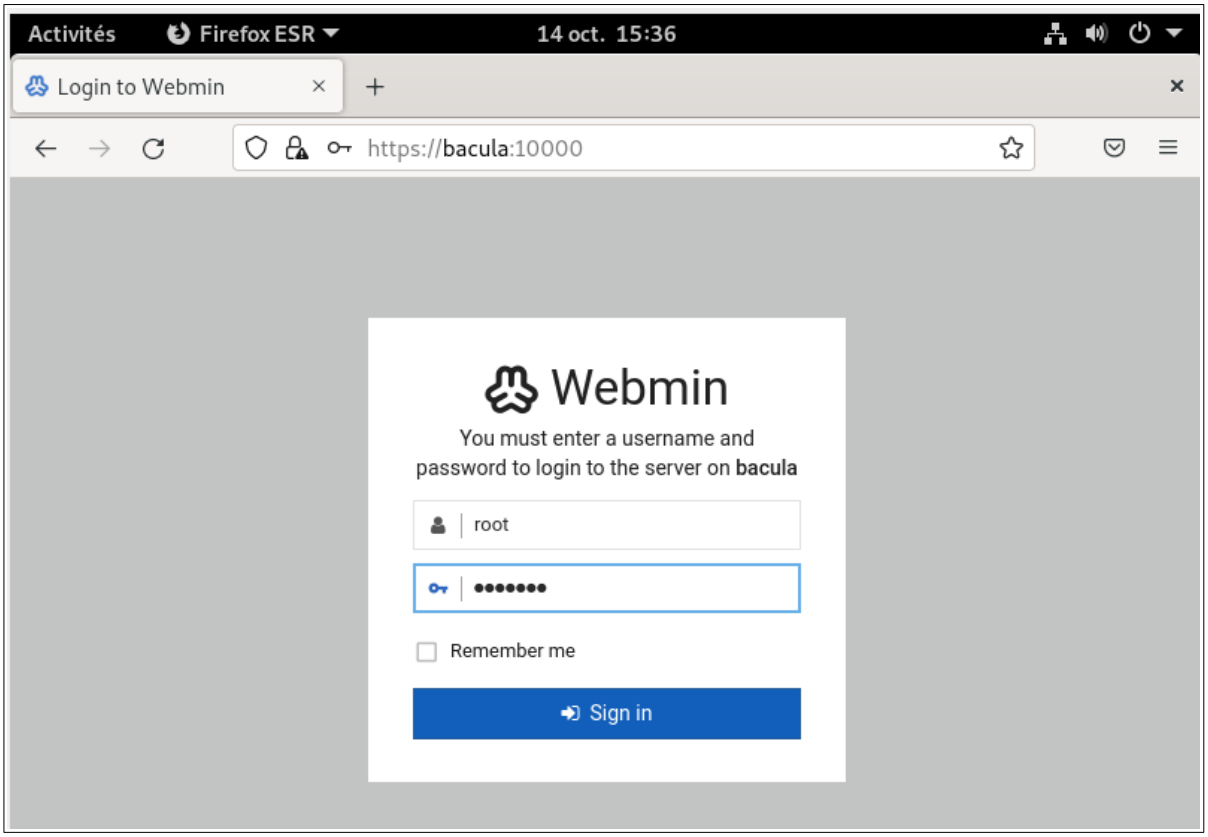

```
root@Bacula:~# apt-get install libnet-ssleay-perl libauthen-pam-perl libio-pty-p
erl apt-show-versions python
```

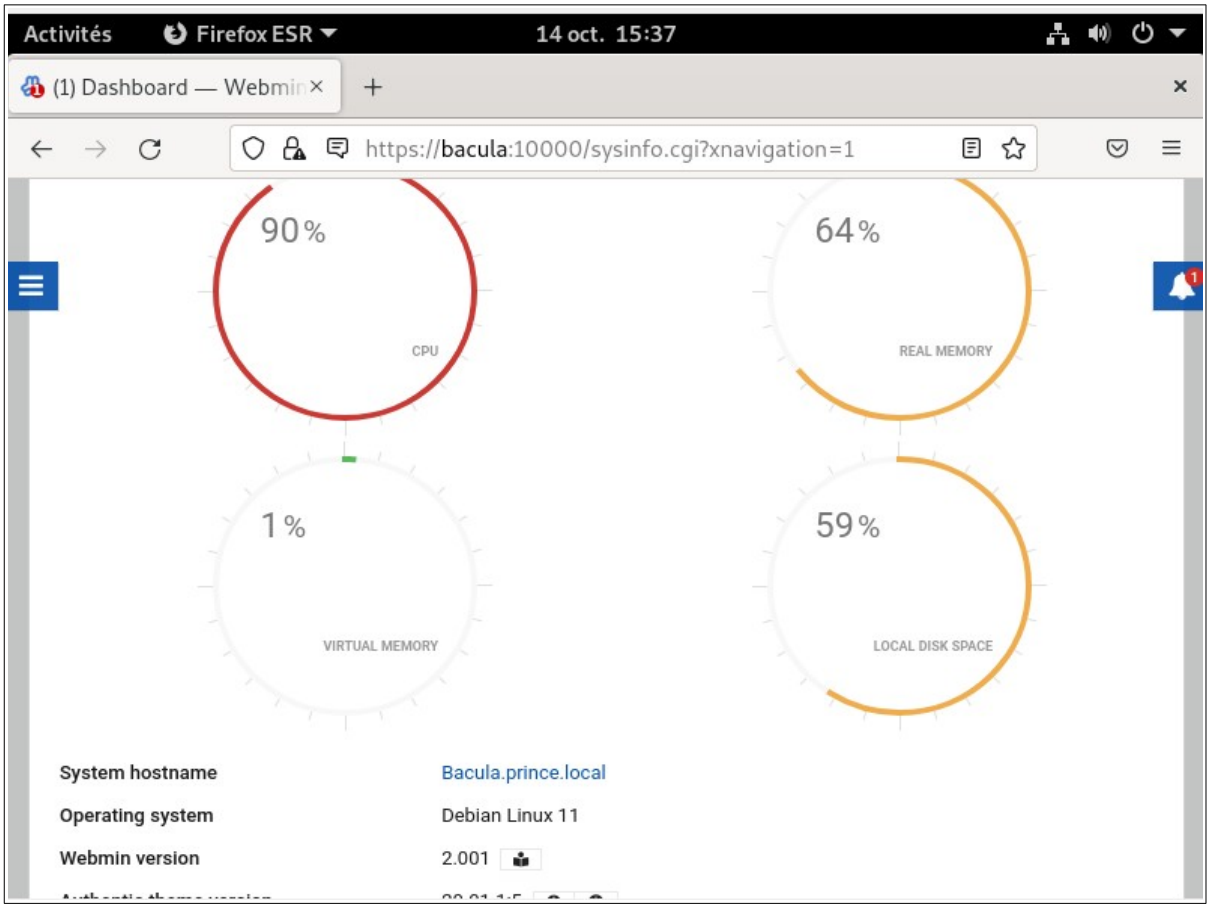
```
root@Bacula:~# wget https://sourceforge.net/projects/webadmin/files/webmin/2.001
/webmin_2.001_all.deb/download
```

```
root@Bacula:~# dpkg --install download
Sélection du paquet webmin précédemment désélectionné.
(Lecture de la base de données... 143961 fichiers et répertoires déjà installés.
)
Préparation du dépaquetage de download ...
Dépaquetage de webmin (2.001) ...
Paramétrage de webmin (2.001) ...
```

```
root@Bacula:~# apt-get install unzip
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
unzip est déjà la version la plus récente (6.0-26+deb11u1).
unzip passé en « installé manuellement ».
0 mis à jour, 0 nouvellement installés, 0 à enlever et 5 non mis à jour.
```

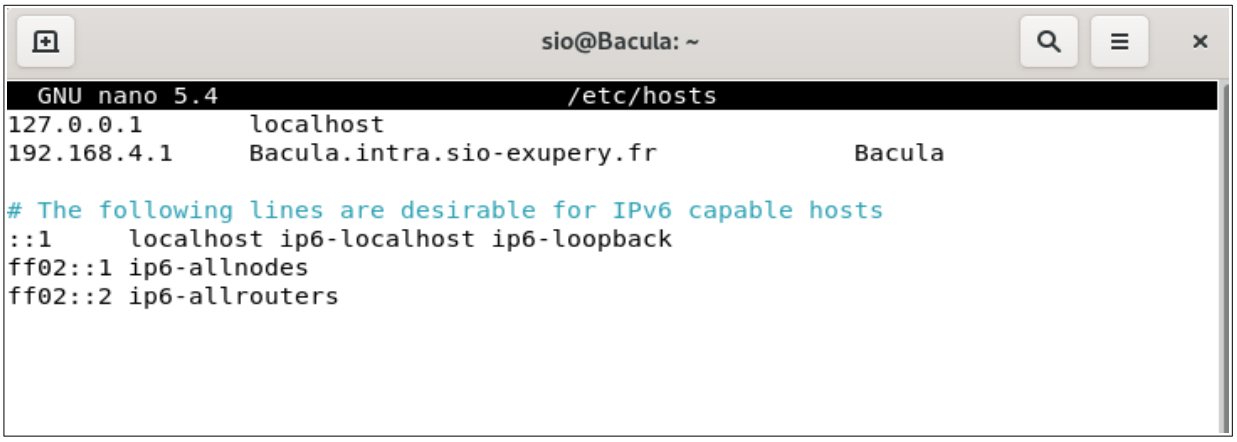

sio@Bacula: ~
sio@Bacula:~$ su -
Mot de passe :
root@Bacula:~# ss -ln4
Netid State Recv-Q Send-Q Local Address:Port Peer Address:Port Process
udp UNCONN 0 0 0.0.0.0:58700 0.0.0.0:*
udp UNCONN 0 0 0.0.0.0:631 0.0.0.0:*
udp UNCONN 0 0 0.0.0.0:10000 0.0.0.0:*
udp UNCONN 0 0 0.0.0.0:5353 0.0.0.0:*
tcp LISTEN 0 50 127.0.0.1:9101 0.0.0.0:*
tcp LISTEN 0 50 127.0.0.1:9102 0.0.0.0:*
tcp LISTEN 0 50 127.0.0.1:9103 0.0.0.0:*
tcp LISTEN 0 4096 0.0.0.0:10000 0.0.0.0:*
tcp LISTEN 0 128 127.0.0.1:631 0.0.0.0:*
tcp LISTEN 0 244 127.0.0.1:5432 0.0.0.0:*
tcp LISTEN 0 20 127.0.0.1:25 0.0.0.0:*
root@Bacula:~#

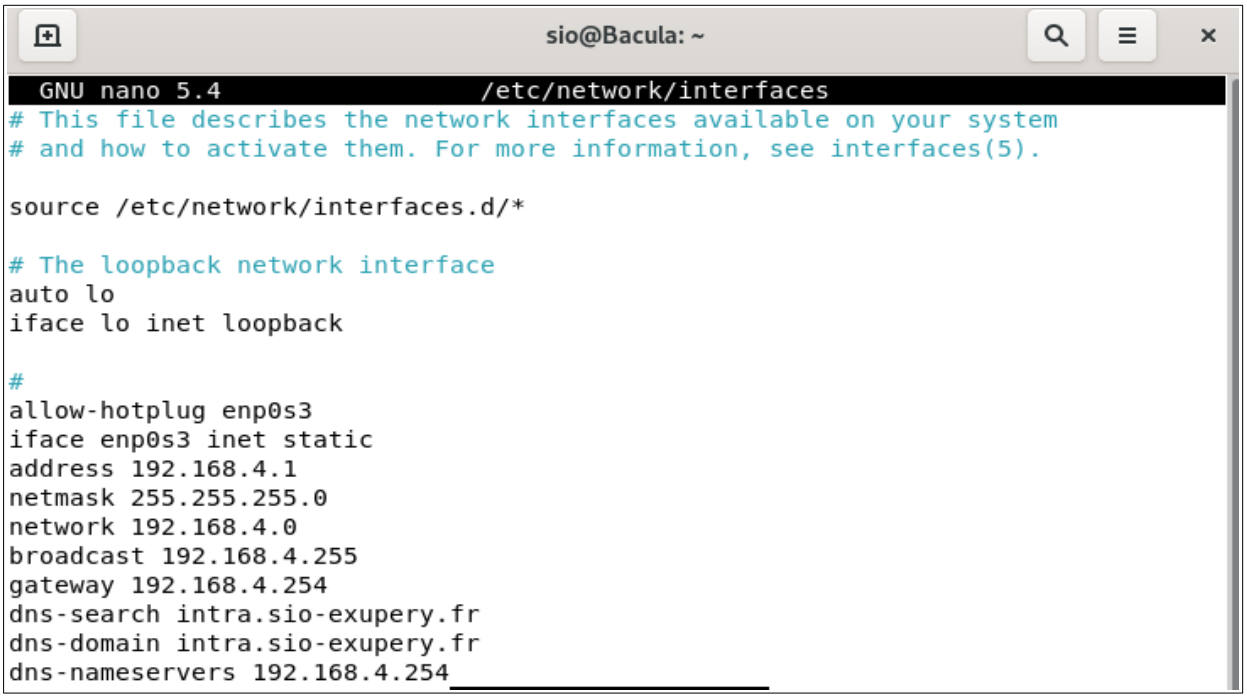

Activités
Firefox ESR
14 oct. 15:36
Login to Webmin
https://bacula:10000
Webmin
You must enter a username and password to login to the server on bacula
root
Remember me
Sign in


Activités
Firefox ESR
14 oct. 15:37
(1) Dashboard — Webmi
https://bacula:10000/sysinfo.cgi?xnavigation=1
90%
CPU
64%
REAL MEMORY
1%
VIRTUAL MEMORY
59%
LOCAL DISK SPACE
System hostname
Bacula.prince.local
Operating system
Debian Linux 11
Webmin version
2.001

3 – Propriétés TCPIP de l'interface réseau du serveur

```
root@Bacula:~# apt-get install resolvconf
```





```
root@Bacula:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul
t qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
group default qlen 1000
    link/ether 08:00:27:07:cb:a8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.4.1/24 brd 192.168.4.255 scope global enp0s3
       valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe07:cba8/64 scope link tentative
       valid_lft forever preferred_lft forever
```

```
root@Bacula:~# ip r
default via 192.168.4.254 dev enp0s3 onlink
192.168.4.0/24 dev enp0s3 proto kernel scope link src 192.168.4.1
```

```
root@Bacula:~# cat /etc/resolv.conf
# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#     DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
# 127.0.0.53 is the systemd-resolved stub resolver.
# run "resolvectl status" to see details about the actual nameservers.

nameserver 192.168.4.254
nameserver 172.17.254.1
nameserver 80.10.246.2
search intra.sio-exupery.fr prince.local
```

```
  GNU nano 5.4                  /var/cache/bind/db.intra.sio-exupery.fr *
$ORIGIN .
$TTL 86400      ; 1 day
intra.sio-exupery.fr    IN SOA  DS1.intra.sio-exupery.fr. root.intra.sio-exupery.fr. (
                                2019020713 ; serial
                                604800     ; refresh (1 week)
                                86400      ; retry (1 day)
                                2419200    ; expire (4 weeks)
                                604800     ; minimum (1 week)
                                )
                        NS      DS1.intra.sio-exupery.fr.
$ORIGIN intra.sio-exupery.fr.
DS1                     IN  A   192.168.4.254
DEB11Server             IN  A   192.168.4.1
```

```
root@DS1: ~#systemctl restart bind9
```

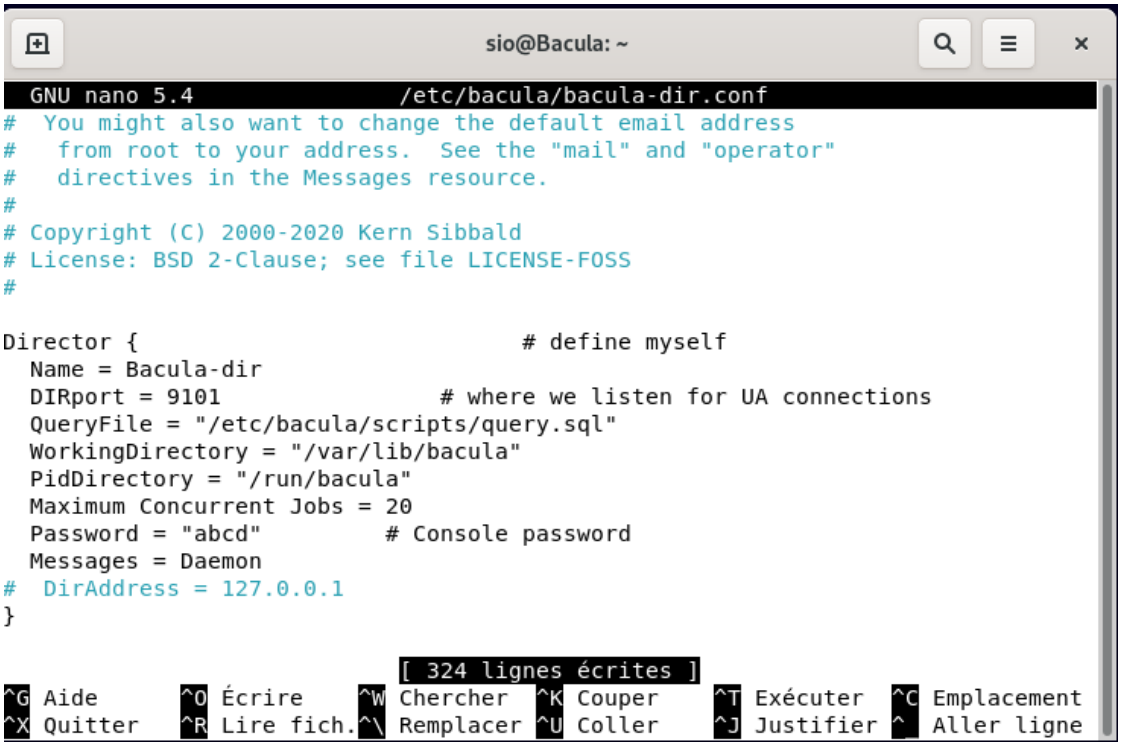
4 – Configuration de base du serveur

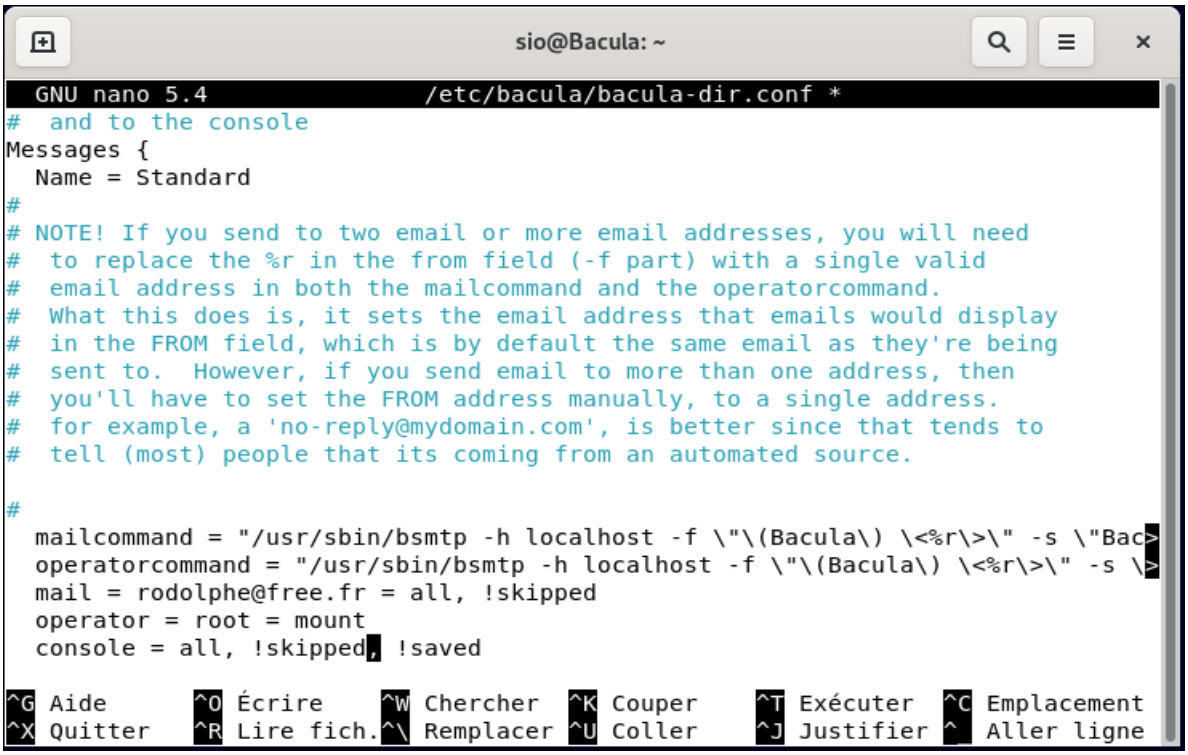
```
root@Bacula:~# mkdir /backup
root@Bacula:~# chown bacula /backup
```

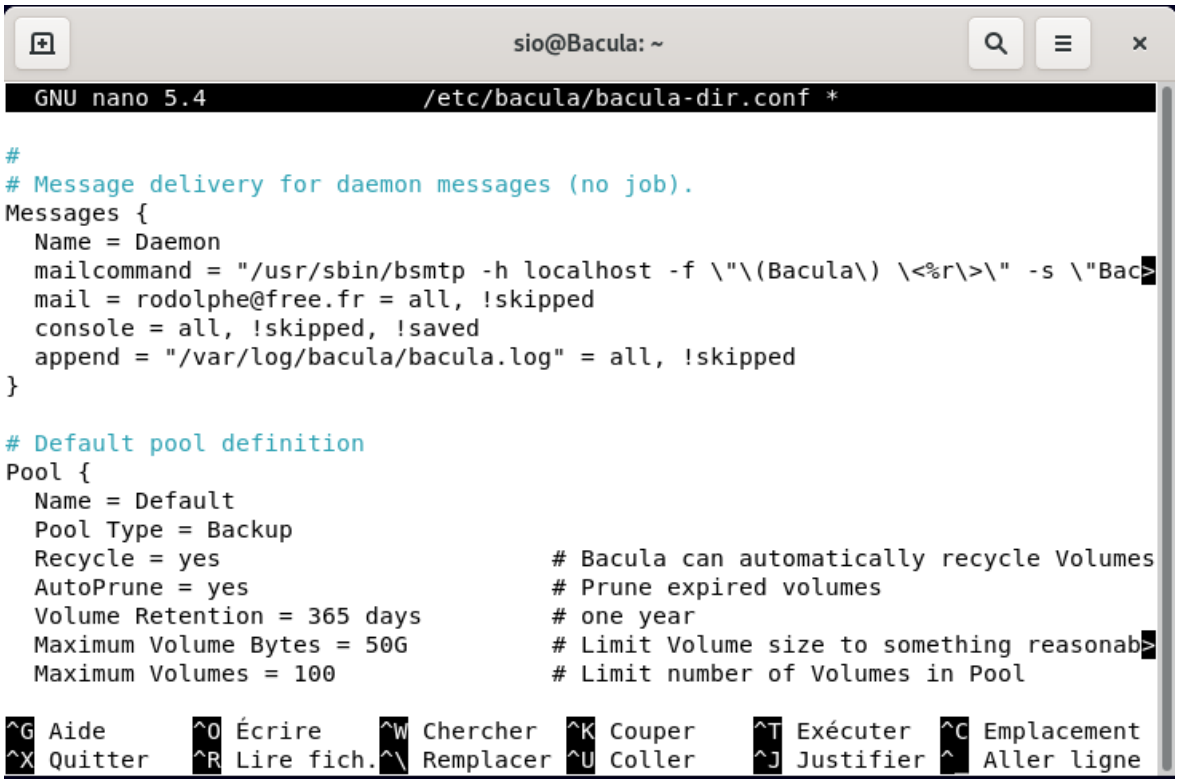
```
root@Bacula:~# ss -ltnp | grep bacula
LISTEN 0      50         127.0.0.1:9101       0.0.0.0:*    users:(("bacula-dir",
pid=1255,fd=4))
LISTEN 0      50         127.0.0.1:9102       0.0.0.0:*    users:(("bacula-fd",p
id=541,fd=3))
LISTEN 0      50         127.0.0.1:9103       0.0.0.0:*    users:(("bacula-sd",p
id=542,fd=3))
```

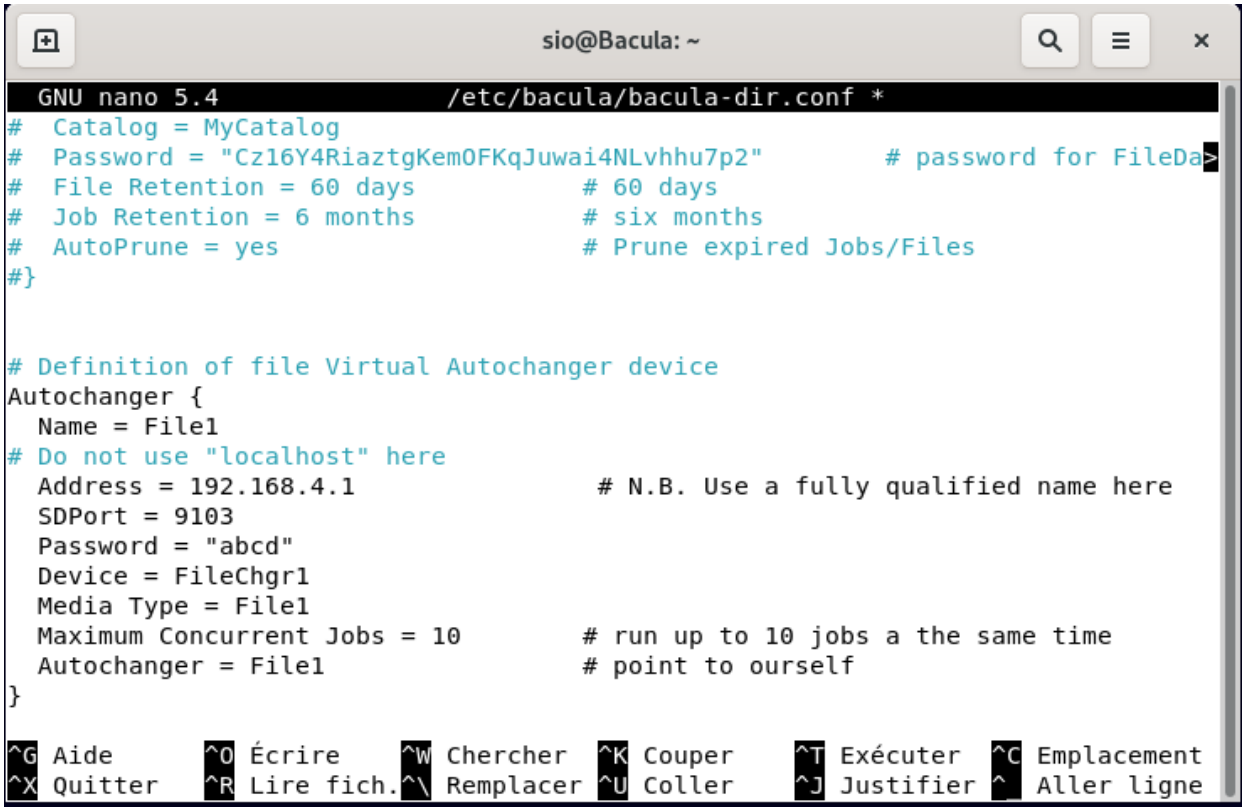
```
root@Bacula:~# cat /etc/bacula/common_default_passwords
#
# This file has been autogenerated during package installation and
# holds defaults for new Bacula packages installed on this system.  It
# is used only when you install a new Bacula package, and can be
# safely removed at any time.

DIRPASSWD=bo_fyncjpSI0i1s8bGW5gkzbHGyS5Pz2c
DIRMPASSWD=MMdC0X8sFOErJ-j0jgS6ltQI0b2YSOmlT
SDPASSWD=7k1wvW7GvCyR5zyz-5-pKcq_rlmyAx4Xj
SDMPASSWD=o68IdUNLlFRSlihfLPAnnDJIOtKUb1FBs
FDPASSWD=Cz16Y4RiaztgKemOFKqJuwai4NLvhhu7p
FDMPASSWD=f 7SPLiNEOpVnseDjocwRybfqKIrjAdRj
```

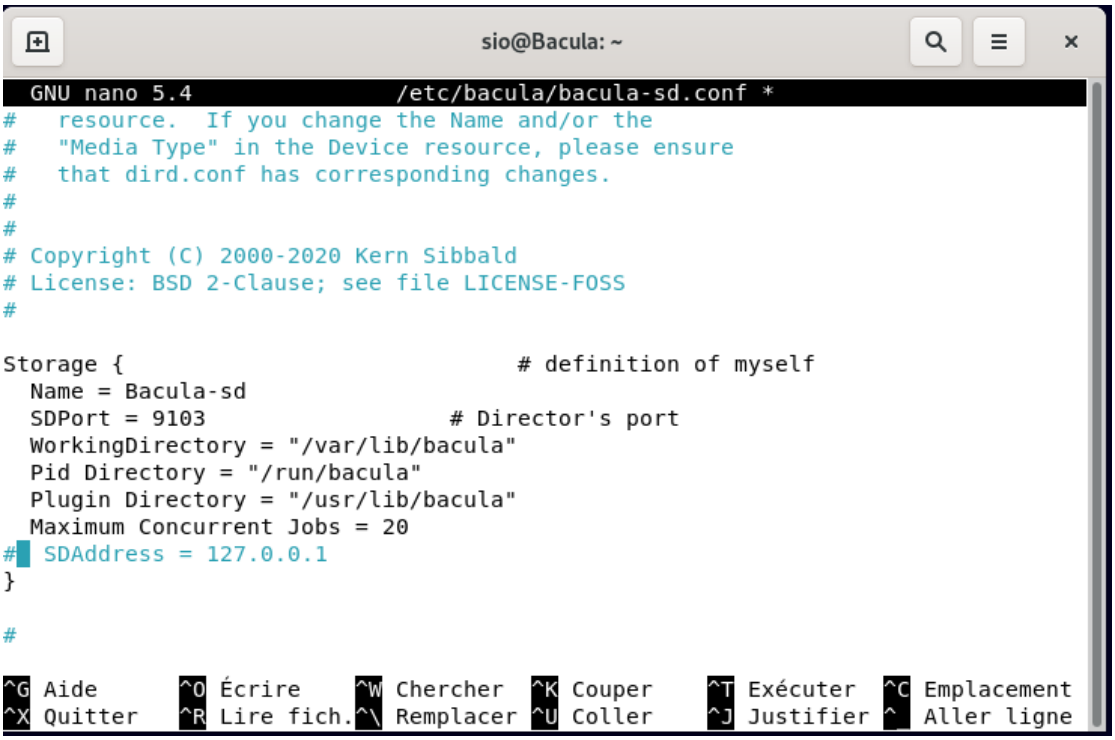


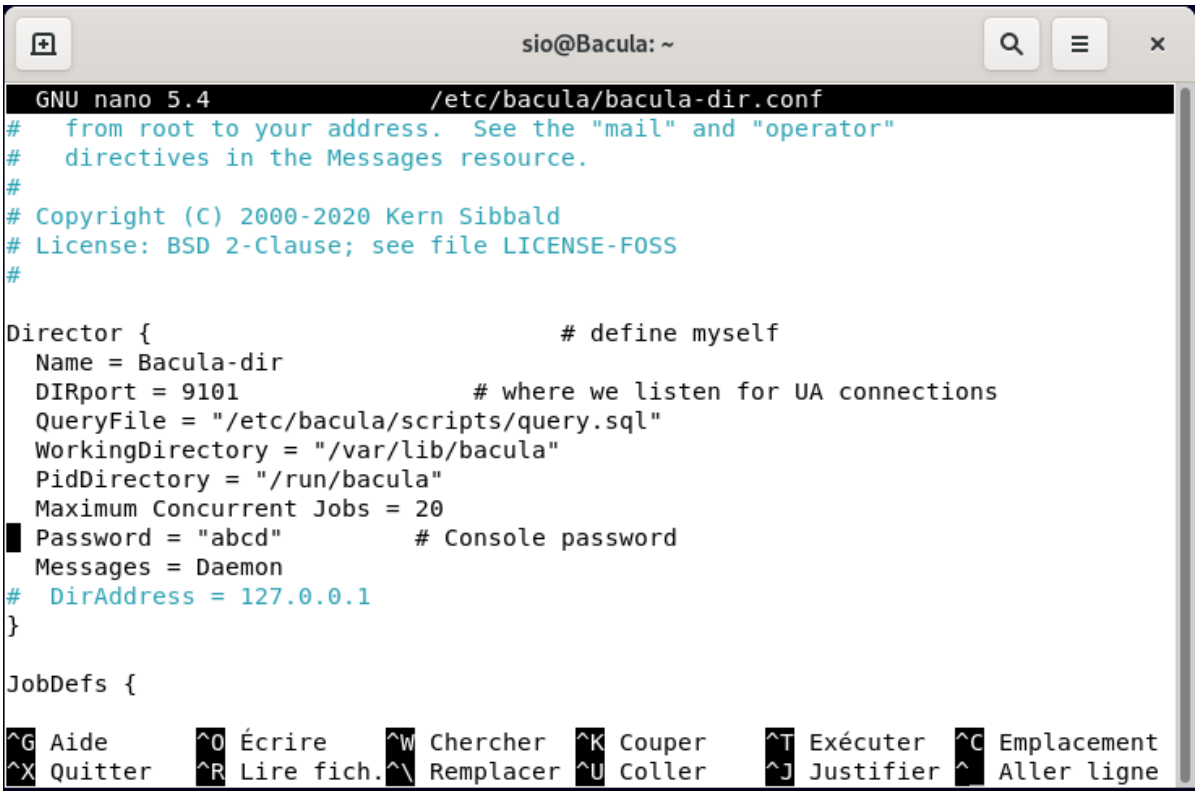

sio@Bacula: ~
GNU nano 5.4 /etc/bacula/bacula-dir.conf *
# and to the console
Messages {
Name = Standard
#
NOTE! If you send to two email or more email addresses, you will need
to replace the %r in the from field (-f part) with a single valid
email address in both the mailcommand and the operatorcommand.
What this does is, it sets the email address that emails would display
in the FROM field, which is by default the same email as they're being
sent to. However, if you send email to more than one address, then
you'll have to set the FROM address manually, to a single address.
for example, a 'no-reply@mydomain.com', is better since that tends to
tell (most) people that its coming from an automated source.
#
mailcommand = "/usr/sbin/bsmtp -h localhost -f \"\(Bacula\) \<%r\>\" -s \"Bac>
operatorcommand = "/usr/sbin/bsmtp -h localhost -f \"\(Bacula\) \<%r\>\" -s \>
mail = rodolphe@free.fr = all, !skipped
operator = root = mount
console = all, !skipped, !saved
^G Aide ^O Écrire ^W Chercher ^K Couper ^T Exécuter ^C Emplacement
^X Quitter ^R Lire fich. ^\ Remplacer ^U Coller ^J Justifier ^_ Aller ligne

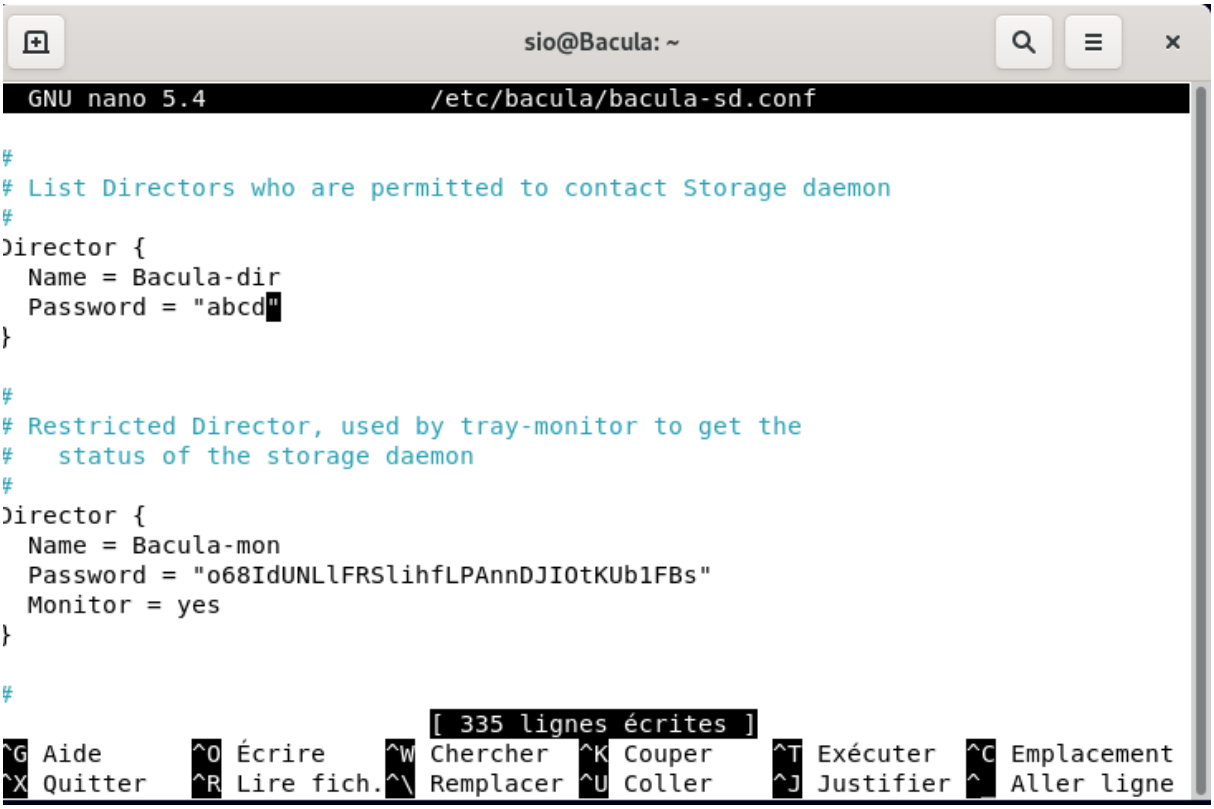

sio@Bacula: ~
GNU nano 5.4 /etc/bacula/bacula-dir.conf *
#
# Message delivery for daemon messages (no job).
Messages {
Name = Daemon
mailcommand = "/usr/sbin/bsmtp -h localhost -f \"\(Bacula\) \<%r\>\" -s \"Bac>
mail = rodolphe@free.fr = all, !skipped
console = all, !skipped, !saved
append = "/var/log/bacula/bacula.log" = all, !skipped
}
# Default pool definition
Pool {
Name = Default
Pool Type = Backup
Recycle = yes # Bacula can automatically recycle Volumes
AutoPrune = yes # Prune expired volumes
Volume Retention = 365 days # one year
Maximum Volume Bytes = 50G # Limit Volume size to something reasonab>
Maximum Volumes = 100 # Limit number of Volumes in Pool
^G Aide ^O Écrire ^W Chercher ^K Couper ^T Exécuter ^C Emplacement
^X Quitter ^R Lire fich. ^\ Remplacer ^U Coller ^J Justifier ^_ Aller ligne



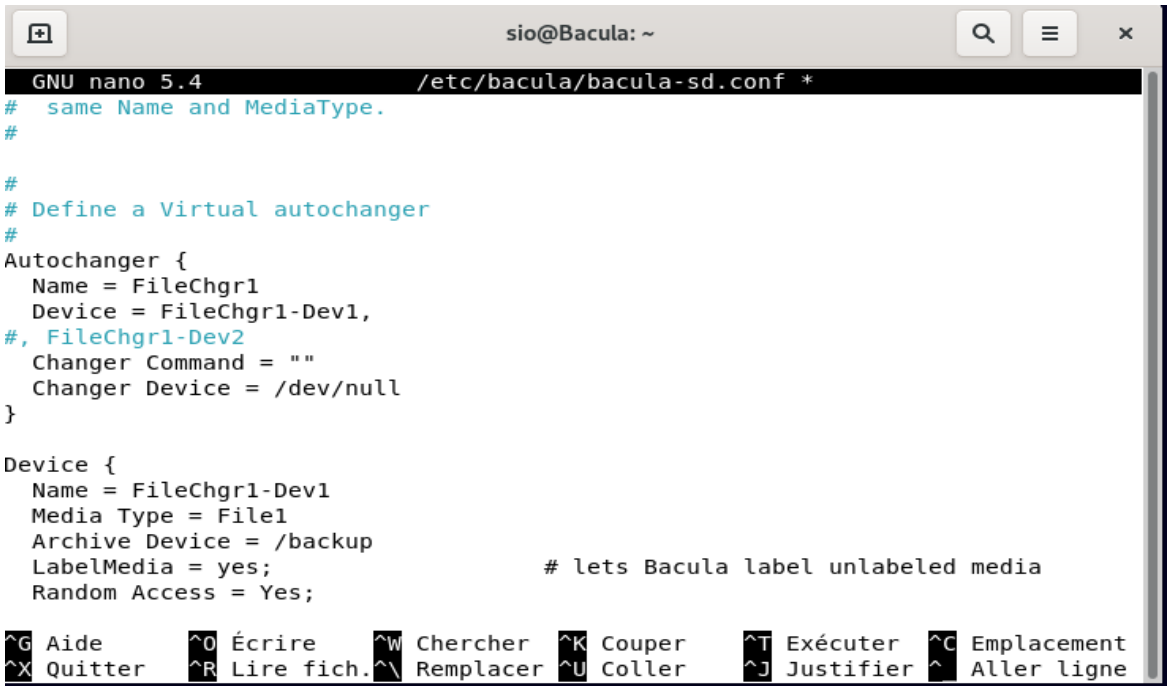

```
root@Bacula:~# bacula-dir -t
root@Bacula:~# systemctl restart bacula-director
```

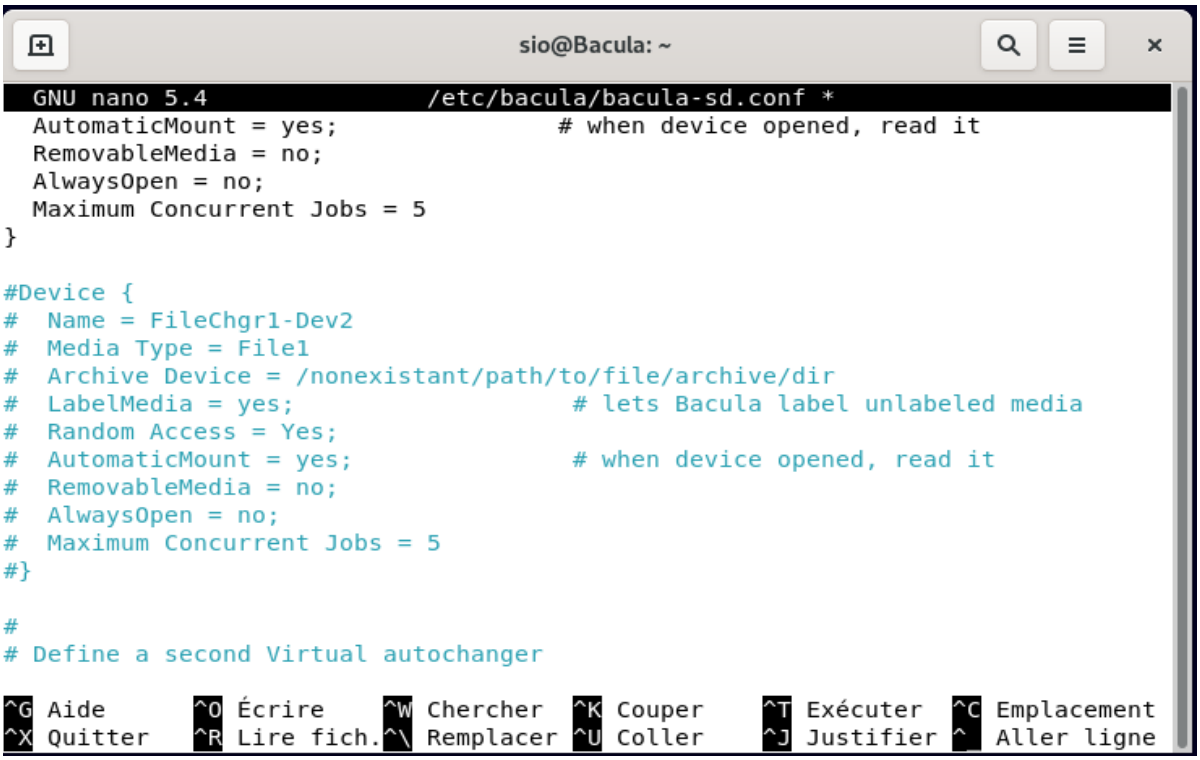



sio@Bacula: ~
GNU nano 5.4 /etc/bacula/bacula-dir.conf
from root to your address. See the "mail" and "operator"
directives in the Messages resource.
#
Copyright (C) 2000-2020 Kern Sibbald
License: BSD 2-Clause; see file LICENSE-FOSS
#
Director { # define myself
Name = Bacula-dir
DIRport = 9101 # where we listen for UA connections
QueryFile = "/etc/bacula/scripts/query.sql"
WorkingDirectory = "/var/lib/bacula"
PidDirectory = "/run/bacula"
Maximum Concurrent Jobs = 20
Password = "abcd" # Console password
Messages = Daemon
# DirAddress = 127.0.0.1
}
JobDefs {
^G Aide ^O Écrire ^W Chercher ^K Couper ^T Exécuter ^C Emplacement
^X Quitter ^R Lire fich. ^\ Remplacer ^U Coller ^J Justifier ^_ Aller ligne


sio@Bacula: ~
GNU nano 5.4 /etc/bacula/bacula-sd.conf
#
List Directors who are permitted to contact Storage daemon
#
Director {
Name = Bacula-dir
Password = "abcd"
}
#
Restricted Director, used by tray-monitor to get the
status of the storage daemon
#
Director {
Name = Bacula-mon
Password = "o68IdUNLlFRSlihfLPAnnDJIOtKUb1FBs"
Monitor = yes
}
#
[335 lignes écrites]
^G Aide ^O Écrire ^W Chercher ^K Couper ^T Exécuter ^C Emplacement
^X Quitter ^R Lire fich. ^\ Remplacer ^U Coller ^J Justifier ^_ Aller ligne

sio@Bacula: ~
GNU nano 5.4 /etc/bacula/bacula-sd.conf
Name = FileChgr1
Device = FileChgr1-Dev1, FileChgr1-Dev2
Changer Command = ""
Changer Device = /dev/null
}
Device {
Name = FileChgr1-Dev1
Media Type = File1
Archive Device = /backup
LabelMedia = yes; # lets Bacula label unlabeled media
Random Access = Yes;
AutomaticMount = yes; # when device opened, read it
RemovableMedia = no;
AlwaysOpen = no;
Maximum Concurrent Jobs = 5
}
Device {
Name = FileChgr1-Dev2
[335 lignes écrites]
^G Aide ^O Écrire ^W Chercher ^K Couper ^T Exécuter ^C Emplacement
^X Quitter ^R Lire fich. ^\ Remplacer ^U Coller ^J Justifier ^_ Aller ligne


sio@Bacula: ~
GNU nano 5.4 /etc/bacula/bacula-sd.conf *
same Name and MediaType.
#
#
Define a Virtual autochanger
#
Autochanger {
Name = FileChgr1
Device = FileChgr1-Dev1,
#, FileChgr1-Dev2
Changer Command = ""
Changer Device = /dev/null
}
Device {
Name = FileChgr1-Dev1
Media Type = File1
Archive Device = /backup
LabelMedia = yes; # lets Bacula label unlabeled media
Random Access = Yes;
^G Aide ^O Écrire ^W Chercher ^K Couper ^T Exécuter ^C Emplacement
^X Quitter ^R Lire fich. ^\ Remplacer ^U Coller ^J Justifier ^_ Aller ligne


sio@Bacula: ~
GNU nano 5.4 /etc/bacula/bacula-sd.conf *
AutomaticMount = yes; # when device opened, read it
RemovableMedia = no;
AlwaysOpen = no;
Maximum Concurrent Jobs = 5
}
#Device {
Name = FileChgr1-Dev2
Media Type = File1
Archive Device = /nonexistant/path/to/file/archive/dir
LabelMedia = yes; # lets Bacula label unlabeled media
Random Access = Yes;
AutomaticMount = yes; # when device opened, read it
RemovableMedia = no;
AlwaysOpen = no;
Maximum Concurrent Jobs = 5
#}
#
Define a second Virtual autochanger
^G Aide ^O Écrire ^W Chercher ^K Couper ^T Exécuter ^C Emplacement
^X Quitter ^R Lire fich. ^\ Remplacer ^U Coller ^J Justifier ^_ Aller ligne

sio@Bacula: ~
GNU nano 5.4 /etc/bacula/bacula-sd.conf *
#Device {
Name = FileChgr1-Dev2
Media Type = File1
Archive Device = /nonexistant/path/to/file/archive/dir
LabelMedia = yes; # lets Bacula label unlabeled media
Random Access = Yes;
AutomaticMount = yes; # when device opened, read it
RemovableMedia = no;
AlwaysOpen = no;
Maximum Concurrent Jobs = 5
#}
#
Define a second Virtual autochanger
#
#Autochanger {
Name = FileChgr2
Device = FileChgr2-Dev1, FileChgr2-Dev2
Changer Command = ""
^G Aide ^O Écrire ^W Chercher ^K Couper ^T Exécuter ^C Emplacement
^X Quitter ^R Lire fich. ^\ Remplacer ^U Coller ^J Justifier ^_ Aller ligne

```
#Device {
#  Name = FileChgr2-Dev1
#  Media Type = File2
#  Archive Device = /nonexistant/path/to/file/archive/dir
#  LabelMedia = yes;                   # lets Bacula label unlabeled media
#  Random Access = Yes;
#  AutomaticMount = yes;               # when device opened, read it
#  RemovableMedia = no;
#  AlwaysOpen = no;
#  Maximum Concurrent Jobs = 5
#}
```

```
root@Bacula:~# bacula-sd -t
root@Bacula:~# systemctl restart bacula-sd
```

```
root@Bacula:~# ss -ltnp | grep bacula
LISTEN 0      50           0.0.0.0:9101       0.0.0.0:*    users:(("bacula-dir",
pid=2296,fd=4))
LISTEN 0      50         127.0.0.1:9102       0.0.0.0:*    users:(("bacula-fd",p
id=541,fd=3))
LISTEN 0      50           0.0.0.0:9103       0.0.0.0:*    users:(("bacula-sd",p
id=2421,fd=3))
```

sio@Bacula: ~

```
 GNU nano 5.4                 /etc/bacula/bconsole.conf
#
# Bacula User Agent (or Console) Configuration File
#
# Copyright (C) 2000-2020 Kern Sibbald
# License: BSD 2-Clause; see file LICENSE-FOSS
#

Director {
  Name = Bacula-dir
  DIRport = 9101
  address = localhost
  Password = "abcd"
}

                        [ 13 lignes écrites ]
^G Aide      ^O Écrire    ^W Chercher  ^K Couper    ^T Exécuter  ^C Emplacement
^X Quitter   ^R Lire fich.^\ Remplacer ^U Coller    ^J Justifier ^_ Aller ligne
```

```
root@Bacula:~# bconsole
Connecting to Director localhost:9101
1000 OK: 103 Bacula-dir Version: 9.6.7 (10 December 2020)
Enter a period to cancel a command.
*
```

```
*help label
  Command       Description
  =======       ===========
  label         Label a tape

Arguments:
        storage=<storage> volume=<vol> pool=<pool> slot=<slot> drive=<nb> barcod
es

When at a prompt, entering a period cancels the command.
```

```
*label
Automatically selected Catalog: MyCatalog
Using Catalog "MyCatalog"
The defined Storage resources are:
     1: File1
     2: File2
Select Storage resource (1-2): 1
Connecting to Storage daemon File1 at 192.168.4.1:9103 ...
Enter new Volume name: Vol1
Enter slot (0 or Enter for none): 0
Defined Pools:
     1: Default
     2: File
     3: Scratch
Select the Pool (1-3): 2
Connecting to Storage daemon File1 at 192.168.4.1:9103 ...
Sending label command for Volume "Vol1" Slot 0 ...
3000 OK label. VolBytes=212 VolABytes=0 VolType=1 Volume="Vol1" Device="FileChgr
1-Dev1" (/backup)
Catalog record for Volume "Vol1", Slot 0  successfully created.
Requesting to mount FileChgr1 ...
3906 File device ""FileChgr1-Dev1" (/backup)" is always mounted.
```