GIS - Support #7161

Setup remote backup

30/11/2018 17:31 - Philippe May

 Status:
 In Progress
 Start date:
 30/11/2018

 Priority:
 Normal
 Due date:

 Assignee:
 Philippe May
 % Done:
 0%

 Category:
 Estimated time:
 0.00 hour

Target version: Spent time: 0.00 hour

Description

Setup an off-site backup for the server on Aurinoco's backup (Bacula?).

TODO: define exactly what to backup: database for sure, whole domUs, whole LVM?

History

#1 - 30/11/2018 17:34 - Philippe May

- Assignee changed from Philippe May to Charles Atkinson

Charles, it's a long term topic that i'm finally taking up.

How do you want to proceed? Is there a documentation? Discussion for our weekly meeting?

#2 - 30/11/2018 20:28 - Charles Atkinson

- Status changed from New to In Progress
- Assignee changed from Charles Atkinson to Philippe May

Let's discuss face to face some convenient time TBD

#3 - 11/12/2018 10:49 - Philippe May

- Assignee changed from Philippe May to Charles Atkinson

As discussed, can you please send me OpenVPN certs and your ssh key?

#4 - 11/12/2018 13:15 - Charles Atkinson

- Assignee changed from Charles Atkinson to Philippe May

For the OpenVPN certs, what is the client's FQDN? My ssh key emailed to you.

#5 - 11/12/2018 14:37 - Philippe May

- Assignee changed from Philippe May to Charles Atkinson

Starting with the DB server: gisdb.csr.av (csr.av being handled by a local bind server)

#6 - 11/12/2018 14:44 - Philippe May

OK, your ssh key was already there: server was ansiblized with the BL server role (equivalent of Bliss) including BL's standard set of keys sunglasses.png

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Generating OpenVPN certs

Doc: [[Aurinoco Systems:OpenVPN_24_operations#On-the-OpenVPN-server]]

- Created openvpn2.iciti.av:/etc/bind/pri.csr.av with A record for gisdb and address 172.16.9.1.
- Extended openvpn2.iciti.av:/etc/bind/named.conf.local with pri.csr.av
- Created OpenVPN certs file:

```
root@openvpn2.iciti:~# /root/scripts/openvpn/setup_client_on_server.sh -f gisdb.csr.av -i 172.16.9.1
Creating a temporary directory
Checking for existing client certifficate and key files
Creating certificate and key
Certificate and key successully created:
-rw------ 1 root root 4446 Dec 11 16:02 /etc/openvpn/easy-rsa/pki/issued/gisdb.csr.av.crt
-rw------ 1 root root 1704 Dec 11 16:02 /etc/openvpn/easy-rsa/pki/private/gisdb.csr.av.key
Creating /etc/openvpn/ccd/gisdb.csr.av
Creating the client configuration inline file
The next step is to copy /etc/openvpn/client_inline_files/gisdb.csr.av.ICITI.ovpn to the client
```

- Fixed the above typos and pushed to git
- Mailed the file privately to Phil

#8 - 11/12/2018 16:16 - Charles Atkinson

- Assignee changed from Charles Atkinson to Philippe May

Certs file mailed to you, Phil. Installation procedure: [[Aurinoco Systems:OpenVPN_24_operations#Debian]]

#9 - 11/12/2018 17:02 - Philippe May

- Assignee changed from Philippe May to Charles Atkinson

Looks OK: 172.16.9.1 @ tun0.

Just a small note on openvpn management by systemd: i prefer to have the config in /etc/openvpn/client, and the service at openvpn-client@gisdb.csr.av.ICITI.service. It makes it more explicit to differentiate between server and client. Ref: https://unix.stackexchange.com/questions/409665/starting-openvpn-client-as-daemon-in-debian

Back to you to log in and proceed, the database dumps are in:

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```
      -rw------
      1 root root
      27715338 Dec
      3 06:25 avgis_2018-12-03_06h25m.Monday.sql.gz

      -rw------
      1 root root
      27749682 Dec
      5 06:25 avgis_2018-12-05_06h25m.Wednesday.sql.gz

      -rw------
      1 root root
      27761994 Dec
      6 06:25 avgis_2018-12-06_06h25m.Thursday.sql.gz

      -rw------
      1 root root
      27773790 Dec
      7 06:25 avgis_2018-12-07_06h25m.Friday.sql.gz

      -rw------
      1 root root
      27822839 Dec
      11 06:25 avgis_2018-12-11_06h25m.Tuesday.sql.gz
```

We'll see how it goes with this directory first.

#10 - 11/12/2018 21:40 - Charles Atkinson

- Assignee changed from Charles Atkinson to Philippe May

Regards having the config in /etc/openvpn/client, from the linked page (dated 8 Dec 2017):

Note that newer versions of OpenVPN have split the configuration files directory into /etc/openvpn/client and /etc/openvpn/server. This has not (yet) percolated down into a stable version of Debian

When designing the current implementation I considered introducing /etc/openvpn/{client,server} but they would break the Stretch systemd OpenVPN generator which only works with /etc/openvpn/*.conf files.

Sorry -- somehow I have disabled ssh access:

```
c@CW10:~$ ssh -A root@172.16.9.1 root@172.16.9.1's password:
```

It was working until I fumbled copying some files into /root for my personal convenience like .bashrc_scrippet_for_charles and .bashrc.d and its contents. cold_sweat.png

#11 - 12/12/2018 10:34 - Philippe May

Oh oh... open_mouth.png

Halt the domU, mount the file system on dom0.

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Umount the file system from dom0, reboot: OK. Using a production system as a first machine to back up wasn't such a great idea. And, finally, i might prefer to set up Bung myself... Let's put it on hold for a while. #12 - 13/12/2018 10:20 - Charles Atkinson And, finally, i might prefer to set up Bung myself... Let's put it on hold for a while As you wish (I don't normally screw up as above). #13 - 13/12/2018 12:03 - Philippe May Just another validation of Murphy's law:) We might also take this opportunity to validate the installation process by someone who is quite a used to test the above-mentioned law (me). #14 - 13/12/2018 12:57 - Philippe May - Assignee changed from Philippe May to Charles Atkinson I installed bung. I think that we now need to set up the backup target. I checked https://redmine.auroville.org.in/projects/backup-service, but it doesn't have information, maybe a Wiki page would be nice there. How would you like to proceed now? You create the target destination, give permissions, and give me the URL for rsync? The required size of backup space would be less than 1GB (less than 30 MB per day, 1 month retention). #15 - 15/12/2018 11:28 - Charles Atkinson - Assignee changed from Charles Atkinson to Philippe May The remote server should be backup-rsync.iciti.av (currently resolves to backup3.iciti.av). Conventionally the ssh host used to access it and the comment in the ssh keys would be gisdb.csr_to_backup-rsync.iciti The remote path should be /srv/remote_backup/gisdb.csr.av.

Found that /root was owned by unknown user 10012. Reset uid to 0.

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If you send me the public key, I will install it in backup3.iciti.av:/root/.ssh/authorized_keys2 with the command= restriction normally used with bung.

#16 - 17/12/2018 11:14 - Philippe May

- Assignee changed from Philippe May to Charles Atkinson

Here's the private public key:

 $ssh-rsa\ AAAAB3NzaC1yc2EAAAADAQABAAABAQC3Yv7i/yXDFy1gZzW4tagHWzWkUDEeTqinKncmh0iPpfTDpQG9Ug4RIZRVBPq9yirDXhXWfS\\ WzxfgsthwLToaiIL0mSj8qyPJuBFS/apOHrMok2jkAqzqsqB/7CeGMLN28RvM0AC1/aj8emsuNHmhD0iU5scObgjqxMuXwNezyXMmXVUcwmNnM//ariY53MbepybxhxLa0ft43uzmnZ5wodtZHGgYdRj+ncK9saz1tLoB2qNdn/zmU4E/RrpPHsSj0SH3V3nFLoLu57loyGjZ92yq06Iln3VLNZe8TGylBt3EMmSxlVX5zbLc4u0mc74EfVwSYF66Pu1Dyev5Cz1FT root@gisdb$

#17 - 17/12/2018 14:16 - Charles Atkinson

- Assignee changed from Charles Atkinson to Philippe May

Installed it in backup3.iciti.av:/root/.ssh/authorized_keys2 with the command= restriction normally used with bung.

#18 - 17/12/2018 15:41 - Philippe May

Seems to be working, thanks Charles :)

Schedule the job:

Persistent=true

WantedBy=timers.target

[Install]

```
root@gisdb:/etc/systemd/system# cat bung.service
[Unit]
Description=Remote backup to Aurinoco

[Service]
ExecStart=/opt/bung/rsync_bu.sh -c /etc/opt/bung/rsync_bu.conf
root@gisdb:/etc/systemd/system# cat bung.timer
[Unit]
Description=Runs the remote backup periodically

[Timer]
OnBootSec=15min
OnCalendar=*-*-* 22:43:00
```

TODO: cross check the logs tomorrow.

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#19 - 19/12/2018 10:14 - Philippe May

I didn't set the remote host on the config file, so was rsync-ing on localhost.

Looks OK now.

Here's the config:

root@gisdb:/etc/opt/bung# cat rsync_bu.conf
Organisation name = csr.av
rsync = /var/lib/autopostgresqlbackup/daily/avgis backup-rsync.iciti.av:/srv/remote_backup/gisdb.csr.av option
s="--archive --verbose"

Next to backup:

• import baskets

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