Subject: openvz-diff-backups: a file-based incremental backup tool (Beta Testers Welcome!)

Posted by devnull on Wed, 08 Mar 2017 03:08:12 GMT

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Hello!

Sorry for my (poor/beginner's/basic) English (I am French).

I am looking for kind people who are willing to test a beta (not really in fact) file-based backup tool.

The project has began a few years ago when I was using Proxmox 2, then Proxmox 3 and now OpenVZ "legacy".

Next step is to use OpenVZ 7 in production.

You can download it here: http://download.openvz-diff-backups.fr/releases/

I use it every day on multiple dedicated servers and it just works.

Main goal: publish the detailed documentation (French/English).

openvz-diff-backups is a file-based incremental backup tool.

It supports: Proxmox 2 & 3, Virtuozzo 6, OpenVZ "legacy" and now OpenVZ 7.

First time backup: slow (must copy all files)

subsequent backups: fast (rsync will only copy modified files)

I use it this way:

- 4 live backups each day (on a distant server X)
- 7 days of retention (in my case, it is about 1200 backups)
- replication of all backups (on a distant server Y)
- double replication of all backups (on a distant server Z)

this backup tool is designed to:

- perform full backups (even if it is incremental)
- run in background (ionice, nice, limited IOPS)
- minimize backup storage (only modified files)

- save memory state of each container # ---There are three modes: 1) cold backups The safest and most portable choice (but with a cost of a downtime). stop container take a snapshot (LVM2 or Ploop) start container - save snapshot data hold backups Will suspend container a few seconds (no downtime, just a few seconds of delay). - suspend container take a snapshot (LVM2 or Ploop) - resume container - save snapshot data 3) live backups Same as "hold" backups but will also save memory state. - suspend container extract memory dump (OpenVZ or CRIU) - take a snapshot (LVM2 or Ploop) - resume container - save memory dump - save snapshot data This is the preferred method. a) backups can be done without downtime b) restoring a live backup will just "resume" the container on another server (or on the same server). # ---Since it is a file-based backup tool, there are a few limits:

1) inode numbers are not preserved

Some tools like rkhunter and others will complain when restoring a container.

- 2) sometimes it is slower than a "brute force" copy With billions of files inside a container, it is faster to copy the ploop image
- 3) with old OpenVZ "legacy" kernel, extracting memory dump could cause a kernel hang I have submitted bugs reports about this and, actually, it works fine.

But, please, do not use live backups in production if your OpenVZ kernel is old.

As I said before, I am looking for people who are not afraid to test a "beta" backup tool.

Main goal is to release a stable version in a few month.

It works fine for me but I mostly use Debian + OpenVZ "legacy" now.

Several months ago, I was given the opportunity to test it on Virtuozzo 6 and OpenVZ 7.

Some minor changes were needed to be compatible.

I would be pleased to discuss the drawbacks and benefits of this project.

Note: a public GIT repo is on its way.

Have a nice day!