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Rear (Relax-and-Recover)

Dépendances

```
mkisofs (or genisoimage)
mingetty (rear is depending on it in recovery mode)
syslinux (for i386 based systems)
nfs-utils (when using NFS to store the archives)
cifs-utils (when using SMB to store the archives)
```

Download

http://download.opensuse.org/repositories/Archiving:/Backup:/Rear/Debian_10/amd64/rear_2.6-0_amd64.deb

```
apt-get install mkisofs mingetty syslinux cifs-utils nfs-utils sshfs
dpkg -i rear_2.6-0_amd64.deb
```

Fichier de conf basique

```
root@stkoner-pmox2:~# cat /etc/rear/local.conf
# Default is to create Relax-and-Recover rescue media as ISO image
# set OUTPUT to change that
# set BACKUP to activate an automated (backup and) restore of your data
# Possible configuration values can be found in /usr/share/rear/conf/default.conf
#
# This file (local.conf) is intended for manual configuration. For configuration
# through packages and other automated means we recommend creating a new
# file named site.conf next to this file and to leave the local.conf as it is.
# Our packages will never ship with a site.conf.

OUTPUT=ISO
BACKUP=NETFS
BACKUP_URL="sshfs://ben@nas/ZP_nas/stkoner-pmox2-rear"
NETFS_KEEP_OLD_BACKUP_COPY=3
BACKUP_PROG_EXCLUDE=( '/tmp/*' '/dev/shm/*' "$VAR_DIR/output/*" "/ZP_vDisks/*" "/ZP_nas/*" "/ZP_ext/*" )
```

⇒ La variable **BACKUP_URL** ne supporte que le port ssh par défaut.

⇒ Pour spécifier un port différent, si on se connecte à la machine serveur1.domain.net :

```
root@stkoner-pmox:~/.ssh# cat ~/.ssh/config

Host serveur1.domain.net
  HostName serveur1.domain.net
  User root
  Port 2525
```

Il suffit ensuite de lancer `ssh serveur1.domain.net`, le port 2525 est implicitement utilisé.

⇒ Si vous utiliser un adressage IP fixe, créer les fichiers ci-dessous :

- **/etc/rear/mappings/ip_addresses**

```
eth0 192.268.1.252/24
```

- **/etc/rear/mappings/routes**

```
default 192.168.1.254 eth0
```

⇒ Penser à copier la clé SSH vers la machine distante

Lancement de la sauvegarde

```
rear -v mkbackup
```

```
root@stkoner-pmox2:~# rear -v mkbackup
Relax-and-Recover 2.6 / 2020-06-17
Running rear mkbackup (PID 54505)
Using log file: /var/log/rear/rear-stkoner-pmox2.log
Running workflow mkbackup on the normal/original system
```

```
Using backup archive '/tmp/rear.BwoSapP0uUWgJNq/outputfs/stkoner-pmox2/backup.tar.gz'
Using autodetected kernel '/boot/vmlinuz-5.4.143-1-pve' as kernel in the recovery system
Creating disk layout
Overwriting existing disk layout file /var/lib/rear/layout/disklayout.conf
Using guessed bootloader 'GRUB' (found in first bytes on /dev/sda)
Verifying that the entries in /var/lib/rear/layout/disklayout.conf are correct ...
Creating recovery system root filesystem skeleton layout
Copying logfile /var/log/rear/rear-stkoner-pmox2.log into initramfs as '/tmp/rear-stkoner-pmox2-partial-2021-11-15T12:06:02+01:00.log'
Copying files and directories
Copying binaries and libraries
Copying all kernel modules in /lib/modules/5.4.143-1-pve (MODULES contains 'all_modules')
Copying all files in /lib*/firmware/
Symlink '/usr/share/misc/magic' -> '/usr/share/file/magic' refers to a non-existing directory on the recovery system.
It will not be copied by default. You can include '/usr/share/file/magic' via the 'COPY_AS_IS' configuration variable.
Testing that the recovery system in /tmp/rear.BwoSapP0uUWgJNq/rootfs contains a usable system
Creating recovery/rescue system initramfs/initrd initrd.cgz with gzip default compression
Created initrd.cgz with gzip default compression (266267302 bytes) in 40 seconds
Making ISO image
Wrote ISO image: /var/lib/rear/output/rear-stkoner-pmox2.iso (267M)
Copying resulting files to sshfs location
Saving /var/log/rear/rear-stkoner-pmox2.log as rear-stkoner-pmox2.log to sshfs location
Copying result files '/var/lib/rear/output/rear-stkoner-pmox2.iso /tmp/rear.BwoSapP0uUWgJNq/tmp/VERSION /tmp/rear.BwoSapP0uUWgJNq/tmp/README /tmp/rear.BwoSapP0uUWgJNq/tmp/rear-stkoner-pmox2.log' to /tmp/rear.BwoSapP0uUWgJNq/outputfs/stkoner-pmox2 at
sshfs location
Making backup (using backup method NETFS)
Creating tar archive '/tmp/rear.BwoSapP0uUWgJNq/outputfs/stkoner-pmox2/backup.tar.gz'
Archived 1873 MiB [avg 8127 KiB/sec] OK
WARNING: tar ended with return code 1 and below output:
---snip---
tar: /var/lib/lxcfs: file changed as we read it
tar: /var/agentx/master: socket ignored
tar: pve: Warning: Cannot flistxattr: Operation not supported
-----
This means that files have been modified during the archiving
process. As a result the backup may not be completely consistent
or may not be a perfect copy of the system. Relax-and-Recover
will continue, however it is highly advisable to verify the
backup in order to be sure to safely recover this system.

Archived 1873 MiB in 237 seconds [avg 8093 KiB/sec]
Exiting rear mkbackup (PID 54505) and its descendant processes ...
Running exit tasks
root@stkoner-pmox2:~#
```

Plusieurs fichiers sont créés :

```
root@stkoner-pmox2:~# ssh nas ls -ltr /ZP_nas/stkoner-pmox2-rear/stkoner-pmox2/
total 2198723
-rw----- 1 ben ben 279052288 Nov 15 12:07 rear-stkoner-pmox2.iso
-rw----- 1 ben ben 277 Nov 15 12:07 VERSION
-rw----- 1 ben ben 202 Nov 15 12:07 README
-rw----- 1 ben ben 98085 Nov 15 12:07 rear-stkoner-pmox2.log
-rw----- 1 ben ben 1964661358 Nov 15 12:11 backup.tar.gz
-rw----- 1 ben ben 6004179 Nov 15 12:11 backup.log
```

- **rear-stkoner-pmox2.iso** : ISO bootable pour la recovery
- **backup.tar.gz** : contient la sauvegarde OS

FAQ : <http://relax-and-recover.org/documentation/faq>

Test de restauration

```
Relax-and-Recover v2.6
Recover test-debian
Automatic Recover test-debian

Other actions
Help for Relax-and-Recover
Boot First Local disk (hd0)
Boot Second Local disk (hd1)
Boot Next device
Hardware Detection Tool
ReBoot system
Power off system

Press [Tab] to edit, [F2] for help, [F1] for version info

Rescue image kernel 4.19.0-18-amd64 Sun, 14 Nov 2021 11:16:09 +0100
BACKUP=NETFS OUTPUT=ISO BACKUP_URL=sshfs://ben@192.168.1.252/ZP_nas/rear-test-de

Verifying md5sums of the files in the Relax-and-Recover rescue system
md5sums are OK

Configuring Relax-and-Recover rescue system
Running 00-functions.sh...
Running 01-run-ldconfig.sh...
Running 10-console-setup.sh...
    Loading keymap of the original system
    Running 20-check-boot-options.sh...
Running 40-start-udev-or-load-modules.sh...
insmod /lib/modules/4.19.0-18-amd64/kernel/fs/fuse/fuse.ko
Waiting for udev ... done.
Running 41-load-special-modules.sh...
Running 42-engage-scsi.sh...
Running 45-serial-console.sh...
Running 55-migrate-network-devices.sh...
Running 58-start-dhclient.sh...
Attempting to start the DHCP client daemon
Running 60-network-devices.sh...
Running 62-routing.sh...
Running 65-sysctl.sh...
fs.protected_hardlinks = 1
fs.protected_symlinks = 1
Running 99-makedev.sh...

Relax-and-Recover rescue system is ready

Launching 'rear recover' automatically

Relax-and-Recover 2.6 / 2020-06-17
Running rear recover (PID 382)
Using log file: /var/log/rear/rear-test-debian.log
Running workflow recover within the ReaR rescue/recovery system
ben@192.168.1.252's password:
```

```
Relax-and-Recover rescue system is ready

Launching 'rear recover' automatically

Relax-and-Recover 2.6 / 2020-06-17
Running rear recover (PID 382)
Using log file: /var/log/rear/rear-test-debian.log
Running workflow recover within the ReaR rescue/recovery system
ben@192.168.1.252's password:
ben@192.168.1.252's password:
Using backup archive '/tmp/rear.u07CxQ4gh1410u0/outputfs/test-debian/backup.tar.gz'
Calculating backup archive size
Backup archive size is 4628 /tmp/rear.u07CxQ4gh1410u0/outputfs/test-debian/backup.tar.gz (compressed)
Comparing disks
Device sda has expected (same) size 12804901888 bytes (will be used for 'recover')
Disk configuration looks identical
Proceed with 'recover' (yes) otherwise manual disk layout configuration is enforced
(Default 'yes' timeout 30 seconds)
yes
-----
Is
User confirmed to proceed with 'recover'
Start system layout restoration.
Disk '/dev/sda': creating 'mbr' partition table
Disk '/dev/sda': creating partition number 1 with name 'primary'
Disk '/dev/sda': creating partition number 2 with name 'extended'
Disk '/dev/sda': creating partition number 5 with name 'logical'
Creating LDM PV /dev/sda5
Restoring LDM VG 'test-debian-vg'
Sleeping 3 seconds to let sda or sda1 or sda10 create their devices ...
Creating filesystem of type ext4 with mount point / on /dev/mapper/test-debian-vg-root.
Mounting filesystem /
Creating filesystem of type ext4 with mount point /home on /dev/mapper/test-debian-vg-home.
Mounting filesystem /home
Creating filesystem of type ext4 with mount point /tmp on /dev/mapper/test-debian-vg-tmp.
Mounting filesystem /tmp
Creating filesystem of type ext4 with mount point /var on /dev/mapper/test-debian-vg-var.
Mounting filesystem /var
Creating filesystem of type ext2 with mount point /boot on /dev/sda1.
Mounting filesystem /boot
Creating swap on /dev/mapper/test-debian-vg-swap_1
Disk layout created.
ben@192.168.1.252's password:
Restoring from '/tmp/rear.u07CxQ4gh1410u0/outputfs/test-debian/backup.tar.gz' (restore log is /var/lib/rear/restore/recover.backup.tar.gz.382.restore.log) ...
Restored 407 MiB (log: /var/lib/rear/restore/407MiB.log)
Restored 2150 MiB (log: /var/lib/rear/restore/2150MiB.log)
Restored 2150 MiB in 116 seconds (log: /var/lib/rear/restore/2150MiB.log)
Restoring finished (verify backup restore log messages in /var/lib/rear/restore/recover.backup.tar.gz.382.restore.log)
Created SELinux /mnt/local/autorelabel file: after reboot SELinux will relabel all files
Recreating directories (with permissions) from /var/lib/rear/recovery/directories_permissions_owner_group
Migrating disk-by-id mappings in certain restored files in /mnt/local to current disk-by-id mappings ...
Updated initramfs with new drivers for this system.
Skip installing GRUB legacy boot loader because GRUB 2 is installed (grub-probe or grub2-probe exist).
Installing GRUB2 boot loader...
Determining where to install GRUB2 (no GRUB2_INSTALL_DEVICES specified)
Found possible boot disk /dev/sda - installing GRUB2 there
Finished 'recover'. The target system is mounted at '/mnt/local'.
Exiting rear recover (PID 382) and its descendant processes ...
Running exit tasks

'rear recover' finished successfully

1) View Relax-and-Recover log file(s)
2) Go to Relax-and-Recover shell
3) Reboot
Select what to do 3
```

From:
<https://unix.ndlp.info/> - Where there is a shell, there is a way

Permanent link:
https://unix.ndlp.info/doku.php/blog:rear_relax_recover

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