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Update RHEL LVM backup

We use install RHEL 6 or 7 in one Volume Group (VG), named "rootvg", usually only in one LUN o Physical Volume. So this guide supposes that you have installed your OS on rhel VG and your app on db2vg VG, named "appvg".

We faced a problem, if you make a snapshot of a machine with large data, the snapshot can took two days to get merged, production environment can allowed that behavior.

The plan is take only the rootvg for the snapshot or use dd to make a backup only of rootvg

We will cover three scenarios over VM machines:

- Remove appvg volumes temporary and make a snapshot via KVM
- Make a LVM snapshot
- Make a "dd copy"

Machine setup

```
[root@localhost ~]# lvs
LV      VG      Attr          LSize   Pool Origin Data%  Meta%  Move Log Cpy%Sync
Convert
db2lv   db2vg   -wi-ao----- 9.00g
root    rhel    -wi-ao----- 7.09g
swap    rhel    -wi-ao----- 924.00m
```

Create snapshot of rootvg only

We will cover only the steps of make a snapshot, but you must have knowledge about remove disk temporary. The steps are:

- Stop apps
- Umount file systems
- Comment /etc/fstab
- Remove LUNs from hyper visor
- Make snapshots (see steps below)
- Update
- Check if update works
 - OK
 - Add LUNs from hypervisor
 - Delete comments from /etc/fstab
 - Mount file systems
 - Start apps
 - Delete snapshot (see steps below)
 - No OK:
 - Revert snapshot (see steps below)
 - Add LUNs from hypervisor
 - Delete comments from /etc/fstab

- Mount file systems
- Start apps
- Delete snapshot (see steps below)

Create snapshot

```
virsh connect qemu:///system
snapshot-create-as --domain rhel7.4-db2-pruebalun --name "rhel7.4-db2-
pruebalun-snapshot-hoy"
snapshot-list rhel7.4-db2-pruebalun
snapshot-info --current rhel7.4-db2-pruebalun
```

Revert snapshot

```
virsh connect qemu:///system
snapshot-revert --domain rhel7.4-db2-pruebalun --snapshotname rhel7.4-db2-
pruebalun-snapshot-hoy --running
```

Delete snapshot

```
virsh connect qemu:/system snapshot-delete --domain rhel7.4-db2-pruebalun --snapshotname rhel7.4-
db2-pruebalun-snapshot-hoy </code>
```

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