

3.3 Clone

Libvirt library provides useful code included one to clone existing VM. The command line tool clone is included in package virtinst based on libvirt library.

```
# apt-get install virtinst
```

To clone existing VM tubu1, first you have to create a virtual disk for VM clone same size as original:

```
# lvdisplay kvm2
 --- Logical volume ---
            /dev/kvm2/tubu1
kvm2
  LV Name
 VG Name
 LV UUID
 LV Write Access read/write
LV Status available
  # open
                         7.81 GiB
2000
 LV Size
 Current LE
 Segments
 Allocation
                         inherit
 Read ahead sectors
- currently set to
                        auto
256
 Block device
                         252:2
# lvcreate -1 2000 -n tubu1-clone iscsi2
```

Then you can invoke the command:

```
# virt-clone --original tubu1 --name tubu1-clone --file /dev/mapper/iscsi2-tubu1-
clone --prompt
```

The new guest tubu1-clone will be listed in KVM hypervisor and ready to run.

3.4 Backup procedure

If VM virtual disk is KVM based then you can take a live backup using LVM snapshot feature.

The virt-backup.pl script from Daniel Berteaud is really a good solution to fully backup a libvirt managed virtual machine.

Download, edit settings for Ubuntu distribution and install required packages:

Define a partition for backup:

```
# lvcreate -1 3000 -n backup iscsi2
# mkfs.ext4 /dev/iscsi2/backup
# mount /dev/mapper/iscsi2-backup /var/lib/libvirt/backup
```