

# SSH로 원격 디스크를 VM 이미지로 백업하기

(Server A) /dev/sda → (Server B) disk.qcow2

```
A # lsblk
NAME                                MAJ:MIN RM   SIZE RO TYPE MOUNTPOINT
sda                                  8:0    0 446.6G  0 disk
sda1                                 8:1    0     1M  0 part
sda2                                 8:2    0     1G  0 part /boot
sda3                                 8:3    0 445.6G  0 part
  ubuntu--vg-ubuntu--lv            253:0    0   200G  0 lvm  /

A # df -h
Filesystem                        Size  Used Avail Use% Mounted on
/dev/mapper/ubuntu--vg-ubuntu--lv 196G   26G  161G  14% /
/dev/sda2                          976M  150M   760M  17% /boot
```

```
B # dnf install -y pv libnbd

B # qemu-img create -f qcow2 disk.qcow2 500G
Formatting 'disk.qcow2', fmt=qcow2 size=536870912000 cluster_size=65536 lazy_refcounts=off refcount_bits=16

B # ls -alh disk.qcow2
200K  disk.qcow2

B # ssh root@remote "dd if=/dev/sda bs=256M | gzip -1 -" | gzip -d | pv | nbdcopy -- - [ qemu-nbd -f qcow2 --
detect-zeroes=on --discard=on disk.qcow2 ]
 21GiB 0:04:33 [36.9MiB/s]
446GiB 0:45:30 [ 167MiB/s]

B # ls -alh disk.qcow2
38G  disk.qcow2

B # virt-filesystems -l -h -a disk.qcow2
Name                Type          VFS  Label  Size  Parent
/dev/sda2            filesystem    ext4  -      1.0G  -
/dev/ubuntu-vg/ubuntu-lv filesystem    ext4  -      200G  -
```

## 참고

How to dd a remote disk using SSH on local machine and save to a local disk - <https://unix.stackexchange.com/questions/132797>

Download / Upload a Disk over SSH - <https://www.linode.com/docs/guides/copying-a-disk-image-over-ssh/>

Did qemu-img support stdin/stdout? - <https://www.mail-archive.com/qemu-discuss@nongnu.org/msg05177.html>

## Manuals

<https://linux.die.net/man/1/pv>

<https://www.mankier.com/8/qemu-nbd>

<https://libguestfs.org/nbdcopy.1.html>