

Original article:

<http://www.habibbijan.com/2007/06/05/ghost-your-windows-system-for-free-using-open-source-tools>

### **Booting:**

SystemRescueCD – **docache doeject**

Puppy Linux – Boot from disc, press Enter three times

Bring up network (if needed)

Adjust partitions with Gparted (if needed)

**Remember to adjust hard disk names and partitions accordingly!**

Mount the Spare Partition:

```
# mkdir /mnt/hda2  
# ntfs-3g /dev/hda2 /mnt/hda2
```

Saving and Restoring Using a Spare Partition

```
ntfsclone -s -o - /dev/hda1 | gzip -c > /mnt/hda2/name-of-image.img.gz
```

The Restore:

(from an image on one partition back to hda1 - don't forget the trailing *hyphen*)

```
gunzip -c /mnt/hda2/name-of-image.img.gz | ntfsclone -r -O /dev/hda1 -
```

Saving to a Remote Server Using SSH:

```
# ntfsclone -s -o - /dev/hda1 | gzip -c | ssh username@server 'cat > name-of-image.img.gz'  
(enter SSH password if needed)
```

Restoring From a Remote Server Using SSH:

```
# ssh username@server 'cat name-of-image.img.gz' | gunzip -c | ntfsclone -r -O /dev/hda1 -
```

Downloading and Restoring from a Remote Web Server:

```
wget -qO - http://yourserver/path/name-of-image.img.gz | ntfsclone -r -O /dev/hda1 -
```

How to Save and Restore the MBR / Primary Partition Table:

Save:

```
# dd if=/dev/hda bs=512 count=1 of=/mnt/hda2/master-hda.mbr
```

Restore:

```
# dd if=/mnt/hda2/master-hda.mbr of=/dev/hda
```