

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
```