

Clonezilla Overview

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What is Clonezilla

- Free & Open Source Software
- For HD Imaging, Cloning & Restoring
- Will image the entire HD or a particular partition

How Used

- Free Download
 - www.clonezilla.org
- Available as two types of programs
 - “Live” bootable version
 - Used for a single computer backup & restore
 - “SE” Server Edition
 - Used for multiple (40+) deployments simultaneously

Features & Requirements

- Handles file systems for Linux, Windows & MAC
- Image files are located on a local disk or server
- Minimum requirements:
 - X86 processor with ~200 MB RAM
 - Boot Device
 - CD/DVD, USB
 - PXE (pre-boot execution environment, i.e. server boot)
 - Hard Drive

Limitations

- Destination space must be equal or greater than the source drive
 - See web site for expanded listing of limitations

Clonezilla “Live” Program

- ISO execution program located on a single CD or USB Flash
- Latest download file:
 - `clonezilla-live-20110922-natty.iso`

Testimonials

- We (FRPCUG) have used Clonezilla to image & restore two hard drives at Colorado LifeShare
 - Both HD's were identical sizes
 - Restoration was due to a HD failure on two separate occasions
- I replaced & upgraded two laptop HD's
 - Migrated 100 GB (WinXP) & 160 GB (Linux) images to two new 500 GB HD's
 - Used clonezilla to image & restore each HD
 - Used PartitionMagic & Pmagic to resize extra HD space

Performance

- How long does it take
 - 160 GB Image Backup
 - My 160GB image took ~ 2:18 & 121.9 GB
 - Target check (~ 1 hr) was performed
 - 160 GB Image Restore to 500 GB target drive
 - 121.9 GB restore took ~ 56 min

Operational Notes

- Website has screen shots of the S/W in use
 - Does not show all screen activity during backup process
 - A little out of date
- The latest versions will prompt if a target check should be done during a backup
 - This is recommended
 - Safeguard against image corruption during the backup process

Operational Notes – Con't

- Image files were written to an external USB HD
- Images are saved as compressed (.gz) files
 - Resulting file is not searchable
- Use descriptive backup filenames
 - In case you have more than one computer
- Take notes when doing a image/restore
 - Needed when things go bad or you need to backtrack
 - In my first image attempt, I was writing the backup to the source HD....not good!

Steps for Imaging

- Boot Clonezilla CD with external USB plugged into host
- Select Image Mode
- Select Local USB drive
- ***List of drives shown:***
 - Sda1
 - Sdb1
- Save to USB Top Dir & choose Default Options for remaining steps
- Save to disk filename: 2011-10-25-07-img-(your stuff)
- Source is sda ST9500420AS
- Check Saved Image → y/n
- Clonezilla reports specifics for the backup

Imaging Steps – Con't

- Clonezilla will show progress time elapsed & time remaining, transfer speeds, etc.
- Prompts when done & if you want to reboot or shutdown