

System deployment using Clonezilla

clonezilla.org

Q2, 2014



System imaging and cloning - backup



You want to crash!!!
I show you how to crash!!!

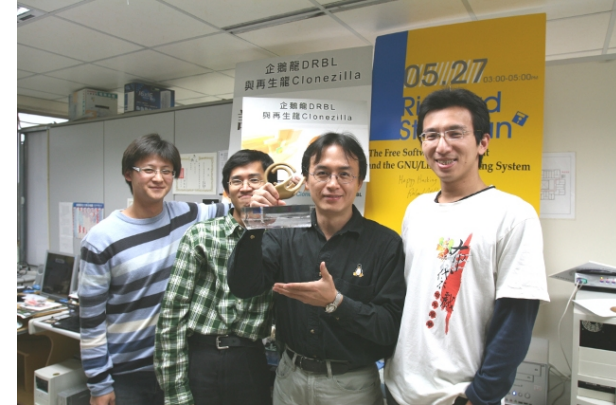
image source: maggiesfarm.anotherdotcom.com
www.compsults.com, and jervisdabreo.com

Massive system deployment



About us

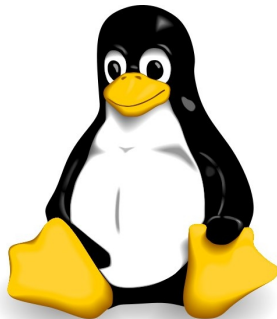
- Developers of the free software DRBL, Clonezilla and more...
- Steven is also the maintainer of GParted live CD
- From Taiwan, working for the NPO NCHC (National Center for High-Performance Computing)



Taiwan image source: wikipedia.org

What is Clonezilla?

- A partition and disk imaging/cloning utility similar to True image® or Ghost®
- GPL license
- A bare metal recovery tool for



*1



*2



*3



*4

VMFS

VMware
ESX/ESXi

*5



MINIX

*6

*Logo source: (1) Larry Ewing, Simon Budig and Anja Gerwinski, (2) Apple, (3) Microsoft, (4) Marshall Kirk McKusick, (5) VMWare (6) Distrowatch.com



Clonezilla Feature

- Free ([GPL](#)) Software
- File systems supported:
 - [Ext2/3/4](#), [ReiserFS](#), [Reiser4](#), [XFS](#), [JFS](#), [HFS+](#), [BrFS](#), [UFS](#), [Minix](#), [VMFS](#), [FAT](#) and [NTFS](#)
 - Supports [LVM2](#)
 - Support some [hardware RAID](#) chips (by kernel)
- [Smart copying](#) for supported filesystem. For unsupported file systems sector-to-sector copying is done via [dd](#).
- Boot loader : [syslinux](#), [grub 1/2](#) ; [MBR](#) and hidden data (if exist)
- [Serial console](#)
- Unattended mode
- One image restoring to multiple local devices
- [Multicast](#) supported in Clonezilla Server Edition (SE)
- The image format is transparent, open and flexible



DRBL live, i.e. Clonezilla Server Edition

drbl.sourceforge.net, drbl.nchc.org.tw

DRBL Live (Default settings)

- Other modes of DRBL Live >
- Local operating system in harddrive (if available) >
- Newtest & FreeDOS >
- Network boot via IPXE

Press [Tab] to edit options

* Boot menu for BIOS machine
* DRBL live version: 2.2.0-15-1686-pae. (C) 2003-2013, NCHC, Taiwan
* Disclaimer: DRBL comes with ABSOLUTELY NO WARRANTY

DRBL
Free Software Labs NCHC, Taiwan
自由軟體實驗室 國家高速網路與計算中心



Applications Menu

00:33 Debian Live user

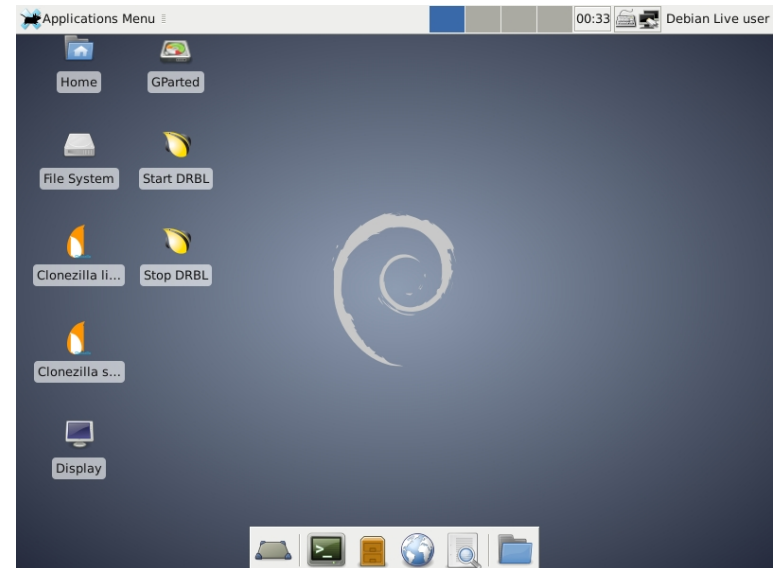
Home GParted

File System Start DRBL

Clonezilla li... Stop DRBL

Clonezilla s...

Display



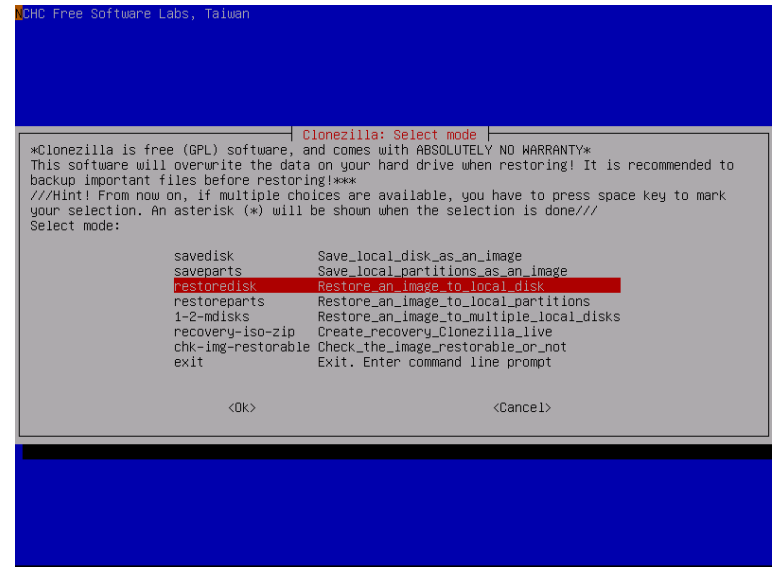
Clonezilla Live



Press [Tab] to edit options

- * Clonezilla live version: 2.1.2-43-1686-pae. (C) 2008-2013, NCHC, Taiwan
- * Disclaimer: Clonezilla comes with ABSOLUTELY NO WARRANTY

Clonezilla *Free Software Labs*
National Center for High-Performance Computing
Taiwan



Developers

- Steven Shiau
- K. L. Huang
- Ceasar Sun
- Jazz Wang
- Thomas Tsai
- Jean-Francois Nifenecker
- Louie Chen
- Nagappan Alagappan



Language file contributors

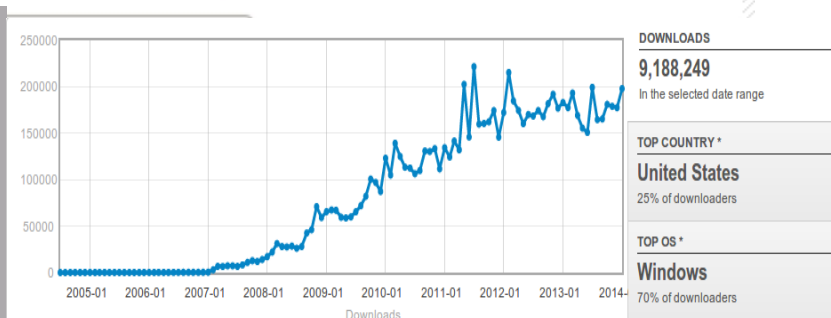
- English (en_US): Dylan Pack.
- German (de_DE): Michael Vinzenz.
- Spanish (es_ES): Juan Ramón Martínez and Alex Ibáñez López.
- French (fr_FR): Jean-Francois Nifenecker and Jean Francois Martinez.
- Italian (it_IT): Gianfranco Gentili.
- Japanese (ja_JP): Akira Yoshiyama and Annie Wei.
- Brazilian Portuguese (pt_BR): Marcos Pereira da Silva Cruz.
- Russian (ru_RU): Anton Pryadko and Igor Melnikov.
- Simplified Chinese (zh_CN): Zhiqiang Zhang and Liang Qi.
- Traditional Chinese (zh_TW): T. C. Lin.



Clonezilla Users Worldwide



de_DE.UTF-8	German		Deutsch
en_US.UTF-8	English		
es_ES.UTF-8	Spanish		Español
fr_FR.UTF-8	French		Français
it_IT.UTF-8	Italian		Italiano
ja_JP.UTF-8	Japanese		日本語
pt_BR.UTF-8	Brazilian Portuguese		Português do Brasil
ru_RU.UTF-8	Russian		Русский
zh_CN.UTF-8	Chinese (Simplified)		简体中文
zh_TW.UTF-8	Chinese (Traditional)		正體中文 - 臺灣



>9,000,000 downloads

Reference

- Clonezilla: <http://clonezilla.org>
- DRBL: <http://drbl.org>



Questions ?

Great!



?????

