

Image

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Installation and Getting Started Guide



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ASP Member

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What Is Image

Image is a DOS based backup and restore utility that creates snapshot of an entire partition or volume to a set of files or directly to most ATAPI (or ASPI available) CD-R/RW drives. If something should ever happen to that partition or volume, you'll be able to simply restore the snapshot image.

OEM system builders with the appropriate license can supply their customers with a bootable system restore CD.

Image is compatible with the imaging feature of BootIt NG.

Limitations

Image relies on the BIOS for processing disk functions. If your computer BIOS limits access to the hard drive for any reason and no drive manager is available to correct the limitation, Image will also be limited.

System Requirements

100% IBM-compatible personal computer with an i80386-compatible microprocessor, 16MB RAM, XMS.

Getting Started

- 1) Visit <http://www.terabyteunlimited.com> to make sure you have the latest version of Image, as well as the latest support information.
- 2) Install/upgrade Image on your hard drive by following the steps in installation (see below).
- 3) Read the "Issues to be aware of" section (see page 6).
- 4) Read the "Examples of Use" section (see page 6).

Installation

There isn't much to install. Image itself is just one file named image.exe. Simply extract the image.exe file and use it.

If you are going to burn directly to CD and want the CD bootable then extract CDBOOT.F35. Image will look in the current directory for CDBOOT.F35 during the creation of a CD. If it's found, the CD will be able to boot and run image.exe.

OEM's evaluating creation of a recover CD should extract the CDBOOT.OEM file and rename it to CDBOOT.F35.

Environment variables

Image will display the contents of an environment variable named IMMSG on the screen. To set the message use the set command (i.e. set imsg=This is the message and it must be less than 80 chars).

To change the method used to burn a set of CDs so that it doesn't prompt for the last CD during a restore, set the environment variable IBXT to a value of 1. (i.e. set ibxt=1). Use of this setting may not work with all CD-R/RW drives.

You can have Image auto respond to prompts and error messages when creating an image to a file by setting an environment variable IAR to either Y or N (i.e. set iar=Y). With this setting all prompts that require press enter are automatically responded to. Prompts that ask a 'Y'es or 'N'o question will be answered with the setting of the IAR variable. You can use errorlevel in a batch files to determine if the operation was successful or failed.

Command line options

Use can use image.exe with command line options. The options are required to be separated by spaces and entered in the order given below. Use the /? Command line option for additional command line options not explained here.

Creating a compressed image to a file:

Format 1:	image /Ch# d:\filename.img	(no validation)
Format 2:	image /Ch#V d:\filename.img	(validation)
Format 3:	image /Ch#VB d:\filename.img	(byte-for-byte validation)

Explanation: Replace the h with the source hard drive number from 0 to 7 and the # with the partition entry id. For most users the partition id will be a number from 1-4 or for volumes a number formatted as 0xPVV where P is the extended partition and VV is the volume number in hexadecimal from 01 to FF. If you're not sure of what the partition or volume id is, run image without any parameters and choose create image. The screen that lists the partitions and volumes also will display the id in parentheses as a hexadecimal number. You should prefix that number with a 0x on the command line.

Creating a uncompressed image to a file:

Format 1: image /Ch# /U d:\filename.img (no validation)
Format 2: image /Ch#V /U d:\filename.img (validation)
Format 3: image /Ch#VB /U d:\filename.img (byte-for-byte validation)
Explanation: Same as above.

Creating a compressed image to a CD drive:

Format 1: image /Ch# /CDx (ATAPI)
Format 2: image /Ch# /CDSx (ASPI)
Explanation: The h and # information is same as above. The x after /CD is the CD drive number to use. Omit the number (/CD) to get a list of the devices.

Creating a uncompressed image to a CD drive:

Format 1: image /Ch# /U /CDx (ATAPI)
Format 2: image /Ch# /U /CDSx (ASPI)
Explanation: Same as above

Restoring an image from a file:

Format 1: image /R d:\filename.img (no validation)
Format 2: image /RV d:\filename.img (validation if needed)
Explanation: Restores the image to the same hard drive and location on the hard drive that it was backed up from.

Restoring an image from a CD:

Format 1: image /R /CDx (ATAPI)
Format 2: image /R /CDSx (ASPI)
Explanation: The x after /CD is the CD drive number to use. Omit the number (/CD) to get a list of the devices.

Limiting the file size on creation:

Format: d:\filename;s
Explanation: Replace the s after the ';' with 0 for 2GB, 1 for 698MB, or 2 for 648MB.

Issues to be aware of

- When you are creating an image you shouldn't use the partition being backed up as the location of the image file. This is because the partition is being updated at the same time you're trying to back it up. When you restored the partition the file system wouldn't be in a consistent state.
- When you are restoring an image you shouldn't restore over the partition that contains the source image file. This is because the restore will overwrite the file system structures and the image file itself.
- After restoring the system will reboot. This is required because partitions and file system being used by the operating system have changed. If you didn't reboot then the OS would still think the partition and file system was as it was before the restore. This could cause data corruption. You can override a command line restore with /RN but it should only be used by advanced users who know its safe to not reboot.
- When you do a command line restore, the restored partition will go to the same hard drive number and physical location on the drive as from where it was backed up. If it was a volume and there is no extended partition now at that location then it will attempt to create the original extended partition but, if it can't create the extended partition, it will be restored as a primary partition. If it was a primary partition and now an extended partition encompasses that location then it will be restored as a volume. If an existing partition or volume occupies the same starting location as the partition to be restored then, a warning message is issued before overwriting that partition or volume.
- Image doesn't change the SID of Windows NT/2K/XP systems. If you're going to use Image for deployment purposes then you should see the "For Deployment Purposes" under the "Examples of Use" section below. If you'd like to change the SID for WinNT/2K you can download a free utility named NewSID at:
<http://www.sysinternals.com/ntw2k/source/newsid.shtml>
- You can only restore via booting the CD when the CD drive is an ATAPI drive. For SCSI drives you must create your own CDBOOT.F35 file which will load the appropriate DOS, ASPI drivers as well as launch image via autoexec.bat if desired.

Examples of Use

Local Use

Create a special image drive (preferably on another physical drive) then setup the advanced program settings of a shortcut to use MS-DOS mode. Later, burn the image files to CD or copy to a network drive for safekeeping.

Setup a shortcut to use MS-DOS mode (advanced program settings under properties of the shortcut) and save directly to an ATAPI CD drive.

Across the network

Create a network diskette and create or restore the image file to/from a mapped network drive.

Use push technology (not included with Image) to automatically start the backup or restore across the network.

For Deployment Purposes

Use Microsoft's SYSPREP tool along with Image for deployment purposes. You should setup the base machine so that the last partition ends at one track less than the actual end of the hard drive (around 8MB less) to leave room for different brands or models of the same size hard drive. See the following for more information:

Windows XP:

How to Prepare Images for Disk Duplication with Sysprep

<http://www.microsoft.com/WINDOWSXP/pro/using/itpro/deploying/duplication.asp>

Windows XP Professional How-to Articles for IT Pros

<http://www.microsoft.com/windowsxp/pro/using/itpro/default.asp>

Windows 2000:

Download for the Microsoft Windows 2000 Sysprep Tool

<http://www.microsoft.com/windows2000/downloads/tools/default.asp>

Deploying MS Windows 2000 Professional and MS Office 2000 Using Sysprep

<http://www.microsoft.com/technet/treeview/default.asp?url=/TechNet/prodtechnol/windows2000pro/deploy/depopt/sysprep.asp>

Using Sysprep to Duplicate Disks

http://www.microsoft.com/WINDOWS2000/techinfo/reskit/en/Deploy/dgcb_ins_izyl.htm

Windows NT:

Windows NT Workstation Deployment

<http://www.microsoft.com/ntworkstation/technicalresources/deployment/default.asp>

OEM

Create a special bootable tools partition, have a network diskette, backup all partitions to the tools partition. Create an autoexec.bat that runs image /RN d:\first.img until the last which would run image /R d:\last.img. Once setup, image the tools partition (uncompressed) to a network drive. Have a burn station burn the recovery CD using the OEM version of CDBOOT.F35.

Have some type of bootable removable drive/disk setup to boot (and keep HD0 as HD0) then burn to CD-R/RW directly or across the network to a burning station.

Note that you should setup the machine so that the last partition ends at one track less than the actual end of the hard drive (around 8MB less) to leave room for different brands or models of the same size hard drive.

With BootIt NG

Setup a special partition with batch files to restore certain partitions from a network or local drive. At the end of the batch file have it run the DOS version of BootNow to boot some partition. Enable BootNow support in BootIt NG and setup boot items to automatically run the correct batch file (via keystrokes). Now you can have a certain partition rebuilt and booted by just selecting the item from the boot menu.

Orders, Support, and Licensing

If you continue to use Image beyond 30 days, you must purchase a "full-use" license for it. It is illegal to continue using Image beyond 30 days without a "full-use" license. Once you have purchased a "full-use" license the software is considered "registered".

You can purchase the "full-use" license on-line by clicking on the Purchase link at <http://www.terabyteunlimited.com> or you can use the order form included towards the end of this document and in a separate file named "REGISTER.TXT".

Support Policy

The primary support communication method will be use of on-line services. The most recent versions of software and information will be available on the TeraByte Unlimited website, <http://www.terabyteunlimited.com>.

Registered users that require technical support should try to use e-mail as the primary communication method. Telephone support will also be given as needed.

Pre-sale information and technical support for unregistered users will be given via e-mail only. In all cases TeraByte Unlimited reserves the right to refuse any communication method that would incur a cost.

Ombudsman Statement

This program is produced by a member of the Association of Shareware Professionals (ASP). ASP wants to make sure that the shareware principle works for you. If you are unable to resolve a shareware-related problem with an ASP member by contacting the member directly, ASP may be able to help. The ASP Ombudsman can help you resolve a dispute or technical problem with an ASP member, but does not provide technical support for members' products. Please contact the ASP Ombudsman online at <http://www.asp-shareware.com/omb>.

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Definition of Shareware

Shareware distribution gives users a chance to try software before buying it. If you try a Shareware program and continue using it, you are expected to register. Individual programs differ on details - some request registration while others require it, some specify a maximum trial period. With registration, you get anything from the simple right to continue using the software to an updated program with printed manual.

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- 6.2. If any terms or provisions of this agreement shall be found to be illegal or unenforceable then, notwithstanding, this agreement shall remain in full force and effect and such term or provision shall be deemed stricken.
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Image Order Form

Text version in file REGISTER.TXT

Remit To:

TeraByte Unlimited
1350 Town Center Dr. #1049
Las Vegas, NV 89144

Registration Name: _____ Date: _____

Mailing Address: _____ Phone #: _____

_____ Phone #: _____

_____ Fax #: _____

E-Mail Address: _____ PC Brand/CPU Type: _____

Shipping Address: _____ Hard Drive Type: IDE EIDE SCSI

_____ Primary OS: _____

How did you learn about Image: _____

Description	Unit Price	Qty	Extended Price
Image	\$18.95		\$
OEM Image Client (Up to 500 clients)	\$1500.00		\$
OEM Image Client (Up to 1000 clients)	\$2500.00		\$
OEM Image Client (Up to 5000 clients)	\$7500.00		\$
OEM Image Client (Up to 10000 clients)	\$9000.00		\$
OEM Image Client (Unlimited)	\$14000.00		\$
Sub-Total			\$
Shipping and Handling Fees for orders not sent TO YOU via e-mail add \$9.95			\$
Nevada Residents add applicable sales tax			\$
TOTAL CHECK OR MONEY ORDER ENCLOSED*			\$

* Check or Money Order must be drawn on a U.S. bank in U.S. Dollars.

* If you do not have a US Checking account, you can send an international postal money order or have your bank issue a check on a U.S. bank in U.S. Dollars. Be sure to send this order form whichever method you choose.

☐ Check mailed separately. (Please ask your bank to include your name on the memo line of the check.)