

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 or writable DVD 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 7).

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 IMSG on the screen. To set the message use the set command (i.e. set msg=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.

If you experience errors or problems when a CD is being closed during a image to CD operation then set the CDCMZ to a value of 1 to use a different closing technique. (i.e. set cdczmz=1).

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.

If you're having slow network performance it may be to do bugs or compatibility issues in the DOS NIC drivers. You can use the IOBS variable to see if they solve your performance issues. For IOBS, set it to a value of A (for auto determine best value), 1, 2 or 3 (i.e. set IOBS=A).

Command line options

You 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 an 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 an 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.
```


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/networkstation/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.

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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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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.)