



It comes in the night and sucks the essence from your computers.

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This manual documents Bacula version 2.2.4 (14 September 2007)

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## 0.1 bimagemgr

**bimagemgr** is a utility for those who backup to disk volumes in order to commit them to CDR disk, rather than tapes. It is a web based interface written in Perl and is used to monitor when a volume file needs to be burned to disk. It requires:

- A web server running on the bacula server
- A CD recorder installed and configured on the bacula server
- The cdrtools package installed on the bacula server.
- perl, perl-DBI module, and either DBD-MySQL DBD-SQLite or DBD-PostgreSQL modules

DVD burning is not supported by **bimagemgr** at this time, but both are planned for future releases.

### 0.1.1 bimagemgr installation

Installation from tarball: 1. Examine the Makefile and adjust it to your configuration if needed. 2. Edit config.pm to fit your configuration. 3. Do 'make install' as root. 4. Edit httpd.conf and change the Timeout value. The web server must not time out and close the connection before the burn process is finished. The exact value needed may vary depending upon your cd recorder speed and whether you are burning on the bacula server on on another machine across your network. In my case I set it to 1000 seconds. Restart httpd. 5. Make sure that cdrecord is setuid root.

Installation from rpm package: 1. Install the rpm package for your platform. 2. Edit /cgi-bin/config.pm to fit your configuration. 3. Edit httpd.conf and change the Timeout value. The web server must not time out and close the connection before the burn process is finished. The exact value needed may vary depending upon your cd recorder speed and whether you are burning on the bacula server on on another machine across your network. In my case I set it to 1000 seconds. Restart httpd. 4. Make sure that cdrecord is setuid root.

For bacula systems less than 1.36: 1. Edit the configuration section of config.pm to fit your configuration. 2. Run /etc/bacula/create\_cdimage\_table.pl from a console on your bacula server (as root) to add the CDImage table to your bacula database.

Accessing the Volume files: The Volume files by default have permissions 640 and can only be read by root. The recommended approach to this is as follows (and only works if bimagegr and apache are running on the same host as bacula).

For bacula-1.34 or 1.36 installed from tarball - 1. Create a new user group bacula and add the user apache to the group for Red Hat or Mandrake systems. For SuSE systems add the user wwwrun to the bacula group. 2. Change ownership of all of your Volume files to root.bacula 3. Edit the /etc/bacula/bacula startup script and set SD\_USER=root and SD\_GROUP=bacula. Restart bacula.

Note: step 3 should also be done in /etc/init.d/bacula-sd but released versions of this file prior to 1.36 do not support it. In that case it would be necessary after a reboot of the server to execute '/etc/bacula/bacula restart'.

For bacula-1.38 installed from tarball - 1. Your configure statement should include: `--with-dir-user=bacula --with-dir-group=bacula --with-sd-user=bacula --with-sd-group=disk --with-fd-user=root --with-fd-group=bacula` 2. Add the user apache to the bacula group for Red Hat or Mandrake systems. For SuSE systems add the user wwwrun to the bacula group. 3. Check/change ownership of all of your Volume files to root.bacula

For bacula-1.36 or bacula-1.38 installed from rpm - 1. Add the user apache to the group bacula for Red Hat or Mandrake systems. For SuSE systems add the user wwwrun to the bacula group. 2. Check/change ownership of all of your Volume files to root.bacula

bimagegr installed from rpm ; 1.38.9 will add the web server user to the bacula group in a post install script. Be sure to edit the configuration information in config.pm after installation of rpm package.

bimagegr will now be able to read the Volume files but they are still not world readable.

If you are running bimagegr on another host (not recommended) then you will need to change the permissions on all of your backup volume files to 644 in order to access them via nfs share or other means. This approach should only be taken if you are sure of the security of your environment as it exposes the backup Volume files to world read.

### 0.1.2 bimagemgr usage

Calling the program in your web browser, e.g. `http://localhost/cgi-bin/bimagemgr.pl` will produce a display as shown below in Figure 1. The program will query the bacula database and display all volume files with the date last written and the date last burned to disk. If a volume needs to be burned (last written is newer than last burn date) a "Burn" button will be displayed in the rightmost column.

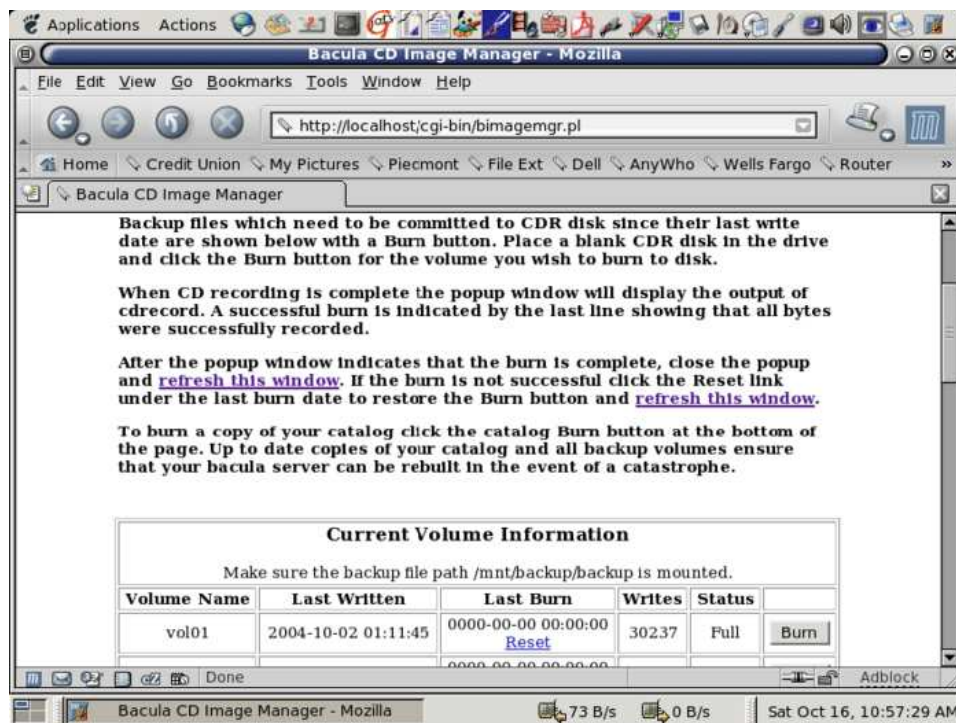


Figure 1

Place a blank CDR disk in your recorder and click the "Burn" button. This will cause a pop up window as shown in Figure 2 to display the burn progress.

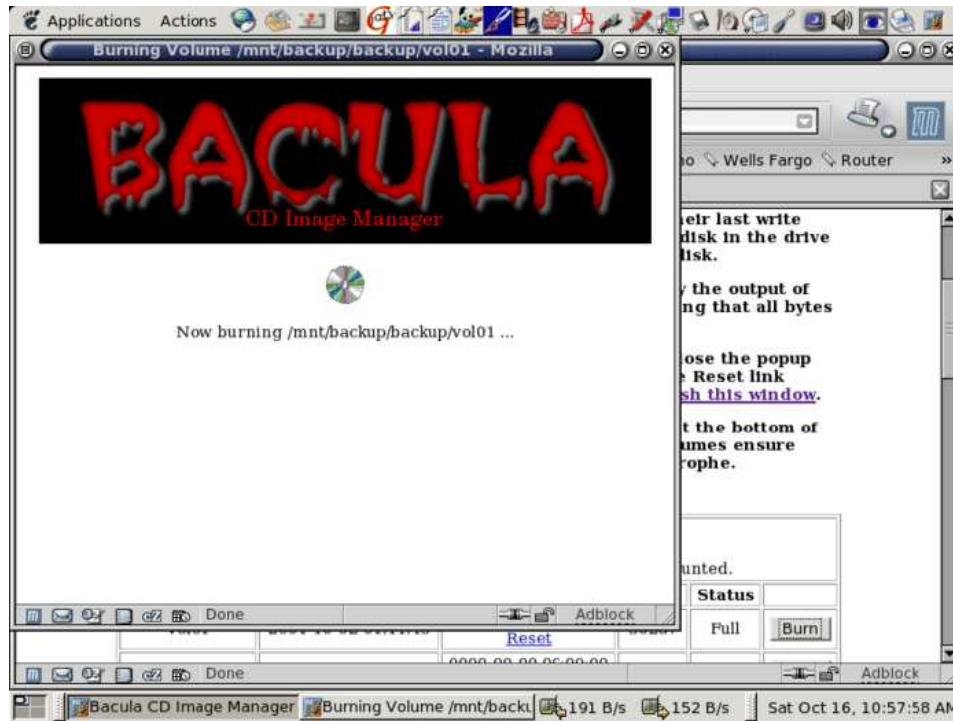


Figure 2

When the burn finishes the pop up window will display the results of `cdrecord` as shown in Figure 3. Close the pop up window and refresh the main window. The last burn date will be updated and the "Burn" button for that volume will disappear. Should you have a failed burn you can reset the last burn date of that volume by clicking its "Reset" link.

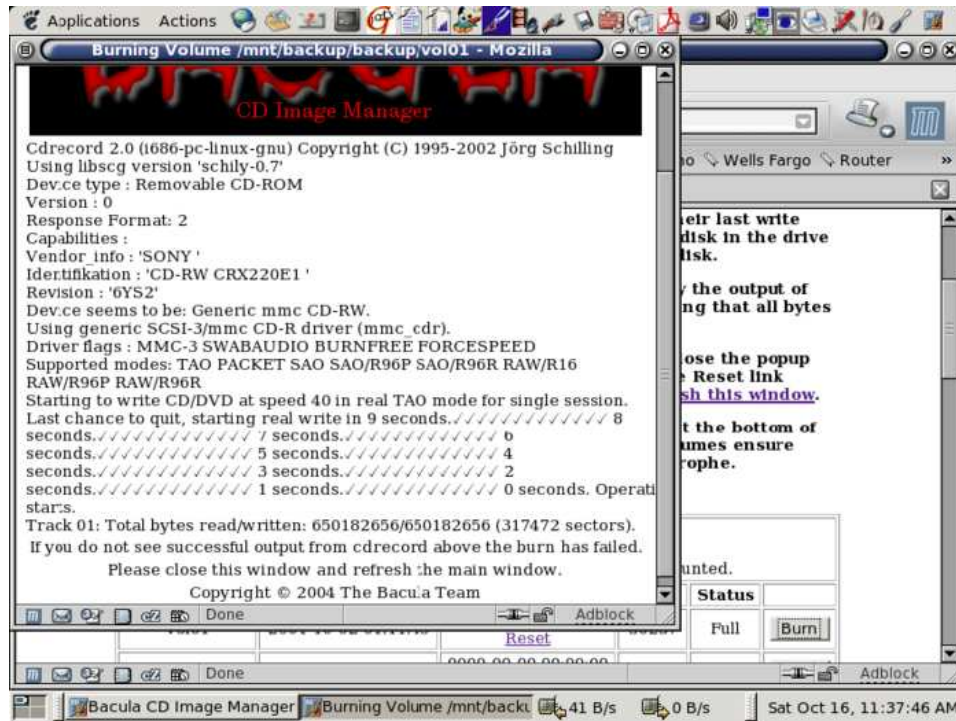


Figure 3

In the bottom row of the main display window are two more buttons labeled "Burn Catalog" and "Blank CDRW". "Burn Catalog" will place a copy of your bacula catalog on a disk. If you use CDRW disks rather than CDR then "Blank CDRW" allows you to erase the disk before re-burning it. Regularly committing your backup volume files and your catalog to disk with **bimagemgr** ensures that you can rebuild easily in the event of some disaster on the bacula server itself.

# Chapter 1

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