

NAME

guestfs-release-notes – libguestfs Release Notes

RELEASE NOTES FOR LIBGUESTFS 1.14

These release notes only cover the differences from the previous stable/dev branch split (1.12.0). For detailed changelogs, please see the git repository, or the ChangeLog file distributed in the tarball.

New features

Erlang bindings.

virt-alignment-scan is a new tool to check the alignment of partitions within virtual machines or disk images.

virt-sparsify is a new tool to make virtual machine disk images sparse.

virt-sysprep is a new tool to make cloning guests from a template simpler.

guestfish

- New commands setenv, unsetenv, to set environment variables.
- The input file and line number is printed in error messages.
- guestfish progress bars are now a "mini-library" used by other tools too.

guestmount

- the --live option (for access to live VMs) now works.

virt-cat

- virt-cat can now handle Windows paths and drive letters (RHBZ#693359).

virt-filesystems

- the MBR partition type byte is displayed in --long output.

virt-make-fs

- virt-make-fs now sets the MBR partition type byte correctly, improving compatibility with Windows (RHBZ#746295).

virt-resize

- virt-resize can now work with guests using extended and logical partitions, in particular Ubuntu guests.
- virt-resize can now align the first partition of Windows guests, improving performance. The new virt-resize --align-first option controls this behaviour.
- The virt-resize --machine-readable flag makes it possible to use virt-resize from other programs.
- Partitions are now aligned to 128 sectors (usually 64K) by default. This improves efficiency on high-end storage. The new virt-resize --alignment option allows the alignment to be adjusted.

virt-win-reg

- The syntax for deleting registry keys and values is documented in the man page (RHBZ#737944).

library

- non-printing characters are escaped correctly in debug output.
- GUESTFS_EVENT_ENTER is a new event type generated whenever a libguestfs function is called.
- the library contains systemtap/DTrace probes.
- the library can now be compiled without hivex (RHBZ#723474).

inspection

- Improve detection of Windows disks.
- Adds support for:
 - ttylinux - a minimal Linux
 - Mageia (thanks Michael Scherer)
 - OpenSUSE and zypper (thanks Michael Scherer, Vincent Untz)
 - Ubuntu logos (thanks Michael Scherer)
 - NetBSD and pkgsrc (thanks Michael Scherer)
- Handle some guest types that use /dev/root in /etc/fstab.
- Fix handling of guests with > 26 disks (thanks Matthew Booth)
- Add support for guests with HP Smart Array disks (thanks Matthew Booth)

febootstrap

- FEBOOTSTRAP_KERNEL, FEBOOTSTRAP_MODULES environment variables can be set in order to choose which kernel to use for the appliance.

misc

- ArchLinux support now working with Linux 3.0 (thanks Erik Nolte)
- libvirt disks marked <readonly/> are now added readonly when using the virt-tools '-d' option.

Security

(no security problems were found or fixed in this release)

New APIs

compress-out, compress-device-out, copy-device-to-device, copy-device-to-file, copy-file-to-device, copy-file-to-file, get-smp, part-to-partnum, set-smp.

The mount API no longer implicitly adds -o sync,noatime options.

add-domain has a new 'readonlydisk' optional parameter to control how <readonly/> disks are handled.

Internals

- Coverity was run on the source and more bugs were identified and fixed.
- PCRE library is now required to build libguestfs.

- APIC is now the default for the appliance. You can also enable SMP support in the appliance.
- OCaml bindings now correctly acquire GC lock during callbacks.
- Out of tree builds should now work correctly (thanks Hilko Bengen).
- `./configure --with-extra="..."` can be used by packagers to set the extra version string.
- `zero`, `zero-device` APIs: if the blocks already contain zeroes, don't write zeroes, so that we don't unnecessarily make the underlying storage non-sparse.
- `is-zero`, `is-zero-device` APIs: optimize these so zero detection is faster.

Bugs fixed

- 748266 libguestfs should detect versions of qemu which require `-machine pc opt`
- 747290 libguestfs ignores `<readonly/>` in libvirt XML
- 747287 Misleading error message when permission denied opening a disk image
- 746295 `virt-make-fs` doesn't set partition ID
- 744795 `guestmount --live` is not usable
- 737944 `virt-win-reg` hyphen (delete key) syntax may be wrong, and is not documented
- 733297 ruby event handlers fail with "exception in callback: wrong argument type"
- 731744 libguestfs should escape special/non-printing characters in debug output
- 729887 appliance crashes running `aug_init` with `flags=4`
- 729075 libguestfs confuses `Hp_recovery` partition with Windows root filesystem
- 727178 error: `luks_open: cryptsetup: error while loading shared libraries: lib`
- 726739 libguestfs: error: `aug_get: no matching node, trying to find hostname`
- 723474 If `hivex` and/or `pcre` not installed, libguestfs fails to compile
- 693359 `virt-cat` and `virt-edit` don't handle case sensitive NTFS paths properly
- 678231 `virt-inspector` reports unknown filesystem UUID
- 671082 libguestfs does not work with `kernel-rt`
- 666578 libguestfs: unknown filesystem label `SWAP-sda2`
- 642821 `virt-resize` falls over on a disk image with a logical swap partition

SEE ALSO

[guestfs-examples](#) (1), [guestfs-faq](#) (1), [guestfs-performance](#) (1), [guestfs-recipes](#) (1), [guestfs-testing](#) (1), [guestfs](#) (3), [guestfish](#) (1), <http://libguestfs.org/>

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BUGS

To get a list of bugs against libguestfs, use this link:
<https://bugzilla.redhat.com/buglist.cgi?component=libguestfs&product=Virtualization+Tools>

To report a new bug against libguestfs, use this link:
https://bugzilla.redhat.com/enter_bug.cgi?component=libguestfs&product=Virtualization+Tools

When reporting a bug, please supply:

- The version of libguestfs.
- Where you got libguestfs (eg. which Linux distro, compiled from source, etc)
- Describe the bug accurately and give a way to reproduce it.
- Run **libguestfs-test-tool** (1) and paste the **complete, unedited** output into the bug report.