

NAME

guestfs-release-notes – libguestfs Release Notes

RELEASE NOTES FOR LIBGUESTFS 1.12

These release notes only cover the differences from the previous stable/dev branch split (1.10.0). For detailed changelogs, please see the git repository, or the ChangeLog file distributed in the tarball.

New features*guestfish*

- guestfish strings can use escapes, eg. `><fs> write /foo "line 1\nline 2\n"`
- guestfish write-append command can be used to append to files.
- Long-running file uploads and downloads can be cancelled through the API or by hitting ^C in guestfish.
- New guestfish "display" command for displaying graphical files inside guests.
- In guestfish, tab completion now works on /dev/mapper devices.

virt-inspector

- Inspection API can get an icon or logo for certain guests.
- virt-inspector includes the logo and hostname for certain guests.
- virt-inspector can now get the version and release numbers for RPM packages.
- CentOS and Scientific Linux are now treated as separate distros by the inspection API.

virt-resize

- virt-resize can now handle btrfs.
- New virt-resize --ntfsresize-force option allows Windows VMs to be resized multiple times.

other virt tools

- guestfish, guestmount, virt-cat, virt-df, virt-edit, virt-filesystems, virt-inspector, virt-ls and virt-rescue now allow you to use "-d UUID" option to specify a guest by UUID. This makes them more robust to use from other programs.
- virt-ls -lR option allows complex file iteration and guest analysis.
- virt-win-reg supports HKEY_USERS\<SID> and HKEY_USERS\<username>.
- virt-win-reg new option --unsafe-printable-strings allows printable strings to be displayed in the output (unsafely: read the documentation before using).
- virt-edit has been rewritten in C.

API and language bindings

- Java is now completely supported.
See <http://libguestfs.org/guestfs-java.3.html>
- JRuby is supported via the Java bindings.
- `guestfs_close` now appears in trace messages.
- Python binding adds explicit `g.close()` method.
- Python programs can now use the new event API.
- Python GIL is released during `libguestfs` calls, allowing multithreaded Python programs to work properly.
- 9pfs (Plan 9 filesystems exported from the host) are now supported.
- Add `-DGUESTFS_WARN_DEPRECATED=1` to warn about use of deprecated API functions in C programs.
- New manual page `guestfs-recipes(1)` with recipes.
- `mkfs-opts` can now set inode size and sector size on created filesystems (thanks Nikita Menkovich).
- `guestfs_last_errno` is now accessible from OCaml (as `g#last_errno ()`).

Security

- `optargs_bitmask` is checked even for calls that have no optional arguments. This closes a possible exploit in the daemon from untrusted callers.

New APIs

`btrfs-filesystem-resize`, `get-pgroup`, `inspect-get-icon`, `is-zero`, `is-zero-device`, `list-9p`, `list-dm-devices`, `mount-9p`, `ntfsresize-opts`, `set-pgroup`, `write-append`

Internals

- Coverity (a static analysis tool) was run across the codebase and many fixes were made.
- Generator can handle functions that return `RBufferOut` and have optional arguments.
- Compatible with Perl 5.14.
- Compatible with gcc 4.6.
- Perform safety checks on QEMU.
- C API tests can now fully test calls that have optional arguments.
- Use `./configure --enable-install-daemon` to install `/usr/sbin/guestfsd`.
- `po-docs` directory now covers all man pages.
- `stderr` from `qemu` process is now captured by the event subsystem.

Bugs fixed

- 602997 part-get-bootable gives wrong result with an unordered part layout
- 661280 virt-rescue: panic when shutting down: "/sbin/reboot: No such file or d
- 700369 qemu-system-x86_64 says 'KVM not supported for this target'
- 705200 guestmount attempt results in access denied
- 714981 'list-file systems' does not know about virtio 9p file systems or detect
- 717786 libguestfs python bindings should have an explicit close call
- 721275 virt-resize in F16 should support btrfs

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.