NAME

guestfs–release–notes – libguestfs Release Notes

RELEASE NOTES FOR LIBGUESTFS 1.8

These release notes only cover the differences from the previous stable/dev branch split (1.6.0). For detailed changelogs, please see the git repository, or the ChangeLog file distributed in the tarball.

New features

- Support and packages for Debian and Ubuntu.

- Daily builds from git repository on Debian and Ubuntu to reduce risk of regressions.

- Port to ArchLinux 'pacman' (thanks Thomas S Hatch).

- The following tools have been rewritten in C (originally in Perl):

  . virt-cat
  . virt-df
  . virt-inspector
  . virt-ls
  . virt-rescue

- Some C tools support encrypted guests automatically. This is supported in: guestfish, guestmount, virt-cat, virt-inspector, virt-ls.

- New tool virt-filesystems (in C) which is a replacement for virt-list-filesystems and virt-list-partitions, and has a superset of the functionality of those tools.

- guestfish, guestmount and the C tools use unified command line option parsing, so they support many common options such as '-a disk.img', '-d libvirt-domain', '-x', '-v'. The old command line option parsing is preserved for compatibility in scripts etc.

- guestfish no longer has any dependencies on Perl

- New man pages containing programming examples: guestfs-examples(3) (C/C++), guestfs-ocaml(3), guestfs-python(3), guestfs-ruby(3).

- Trace mode prints return values from API functions.

- virt-inspector can list applications installed in Windows guests, along with a great deal of information about those applications.

- Add support for inspecting: Linux Mint, Mandriva, FreeBSD.

- guestfish --rw option (with no effect currently) to make potentially dangerous write access explicit.

- guestfish --listen --csh for compatibility with csh, tcsh (thanks Eric Blake).

- The first upstream version that introduced each API function is now documented in guestfs(3).

– guestfs_last_errno allows you to retrieve the errno from the
  daemon, correctly translated to the local operating system.

– Functions can now have optional parameters.

– Progress bars and progress notifications can now happen for upload
  commands.

– Appliance builder more careful about not leaving temporary files
  around in /tmp.

– getfattr/setfattr commands added to virt-rescue.

– ROADMAP file covers roadmap and goals for future releases.

Security
– New SECURITY section in guestfs(3) API documentation.

– virt-inspector no longer runs any guest commands.

– Inspection code is more careful about avoiding very large files
  from guests which might previously have caused a denial of service.

– FUSE calls into guestmount are now traced when using guestmount −x.

New APIs
– add-domain
– add-drive-opts
– getxattr
– inspect-get-hostname
– inspect-get-package-format
– inspect-get-package-management
– inspect-get-roots
– inspect-list-applications
– lgetxattr
– mkfs-opts

Internals
– C programs now only link precisely with the libraries that they use.

– PCRE, libmagic, hivex and libvirt libraries are now completely
  optional for building.

– Multiple memory leaks and file descriptor leaks fixed.

– Add a POD wrapper to unify generation of man pages and HTML files
  across all programs.

– Source includes phony images of Fedora, Debian, Ubuntu and
  Windows guests.

– Ruby bindings have 'make install' rule.

– <guestfs.h> is now a single file.

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   –  <guestfs.h> does not require XDR headers.

   –  ocaml xml-light library is no longer required to build (thanks
      Maxim Koltsov).

   –  ./configure --disable-[...] for each language binding (thanks
      Maxim Koltsov).

   –  Old ocaml-viewer program removed (use guestfs-browser instead).

   –  New C API test type 'InitScratchFS' makes the tests run a little
      more quickly.

   –  Excluded packages in the appliance are now listed in a separate
      file appliance/excludelist.in, and can be customized per-distro.
```

Bugs fixed
```
   –  663407 readlink and readlinklist returns /sysroot/ in some paths
   –  661280 virt-rescue: panic when shutting down: "/sbin/reboot: No such file or d
   –  657499 checksum: wrong check sum type causes umount to fail
   –  655554 Whole disk paths are not made canonical by virt-inspector
   –  654638 openssl updated to 1.0.0b libguestfs depends on exact file names
   –  652796 ruby bindings not installed by 'make install', hence omitted from the b
```

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.