NAME
　　　　guestfs–release–notes – libguestfs Release Notes

RELEASE NOTES FOR LIBGUESTFS 1.4
　　　　These release notes only cover the differences from the previous stable/dev branch split (1.2.0). For
　　　　detailed changelogs, please see the git repository, or the ChangeLog file distributed in the tarball.

New features

- guestfish lets you choose a prepared disk image, eg:
    guestfish –N fs:ext4

- Add write support to guestmount (FUSE) module.

- virt-resize can now resize the content of partitions and logical
  volumes in the guest, and we have better support for shrinking guests.

- Bash tab-completion script for guestfish.

- Add ZFS support to virt-rescue.

- New tool 'virt-make-fs' for creating filesystems with content.

- Allow suffixes on any guestfish number parameter, eg. "1M".

- guestfish 'man' command opens the manual page.

- guestfish supports a "heredoc" syntax for uploading files:
    upload –<<_end_ /foo
    content
    end

- Some guestfish commands now print their output in octal or hex
  where appropriate (RHBZ#583242).

- Allow dash prefix on guestfish command line. This ignores any
  error from the second command: (RHBZ#578407)
    guestfish –– cmd1 : –cmd2 : cmd3

- guestfish –h / help command now returns an error for non-existent
  commands (RHBZ#597145).

- New 'supported' command in guestfish to list optional groups of
  commands which are supported by the daemon / configuration.

- virt-inspector and guestfish –i now work for filenames which
  contain spaces (RHBZ#507810).

- Change the protocol to use link-local addresses, to avoid
  conflicting with any address that the host might be using
  (RHBZ#588763).

- libguestfs now sets the correct time and timezone on filesystem
  modifications.

- Sort the domains into alphabetical order in virt-df.

- Make mkfs-b command work for FAT and NTFS by mapping the blocksize parameter to the cluster size (RHBZ#599464).

- Add version numbers to Perl modules (RHBZ#521674).

- Localization now works for all the libguestfs tools (RHBZ#559963).

- Tools now support filesystem-on-image VMs (RHBZ#590167).

- virt-list-partitions has a '-t' option to show the total size of disks.

- Include extra Augeas lenses in the supermin appliance (Matthew Booth).

- Add error and close callbacks.

- Add explicit close method in the Perl API.

- Multiple fixes for RHEL 5 compatibility.

- Multiple fixes for Debian/Ubuntu compatibility.

- Multiple revisions to improve the documentation.

Security

- Fix a potential DoS in virt-inspector and virt-v2v if a specially crafted disk image contained a char device in place of one of the configuration files that we read under /etc (RHBZ#582484).

New APIs

- aug-clear – clear Augeas path
- available-all-groups – return a list of all optional groups
- base64-in – upload base64-encoded data to file
- base64-out – download file and encode as base64
- checksum-device – compute checksums on the contents of a device
- checksums-out – compute checksums of multiple files in a directory
- debug-upload – upload a file to the appliance
- fallocate64 – preallocate a file in the guest filesystem
- fill-pattern – fill a file with a repeating pattern of bytes
- get-umask – get the current umask
- lvresize-free – expand an LV to fill free space
- ntfsresize – resize an NTFS filesystem
- ntfsresize-size – resize an NTFS filesystem (with size)
- part-del – delete a partition
- part-get-bootable – get the bootable flag of a partition
- part-get-mbr-id – get the MBR type byte of a partition
- part-set-mbr-id – set the MBR type byte of a partition
- pvresize-size – resize a physical volume (with size)
- pwrite – write to part of a file
- resize2fs-size – resize an ext2/3/4 filesystem (with size)
- txz-in – unpack compressed tarball to directory (RHBZ#580556)
- txz-out – pack directory into compressed tarball (RHBZ#580556)
- vfs-label – get the filesystem label
- vfs-uuid – get the filesystem UUID
- vgscan – rescan for LVM physical volumes, volume groups and logical volumes
- write – create a new file
- zero-device – write zeroes to an entire device

Internals
    - Extend the generator to support testing optional features.
    - Stricter checks on input parameters to many calls (RHBZ#501893 RHBZ#501894)
    - Extend the protocol to support sending arbitrary 8 bit data buffers.
    - Ship 'BUGS' file with releases. This is a summary of the bugs in
      the Red Hat Bugzilla database.
    - Ship 'RELEASE-NOTES' file with releases, containing release notes.
    - Unify supermin appliance building into one place, in febootstrap 2.7.
    - Fix the protocol code to handle the case where both ends send cancel
      messages at the same time.

Bugs fixed
    - 612178 guestfish: using -m option in conjunction with --listen option causes a
    - 610880 libguestfs should set broader read perms on tmpdir, so works in some sit
    - 604691 OCaml bindings are not thread safe
    - 603870 Updates to Spanish translation
    - 602592 [RFE] expose guestfs_close in perl bindings
    - 600977 virt-df -h --csv "Argument .. isn't numeric in printf"
    - 599464 mkfs-b does not support vfat/ntfs
    - 598807 add_cdrom does not work in RHEL 6
    - 598309 part-list and several other cmd failed on libguestfs on RHEL5
    - 597145 guestfish 'help' command should indicate error in exit status with an un
    - 597135 guestfish write-file cmd does not check "size" parameter
    - 597118 A warning should be given in the help of mke2journal-L for the length o
    - 597112 get-e2uuid should use blkid instead of "tune2fs -l" to get filesystem U
    - 596776 virt-inspector doesn't discover modprobe aliases on RHEL 3 guests
    - 596763 Updates to Spanish translation
    - 593292 Updates to Spanish translation
    - 592883 can not edit files on images mounted with guestmount cmd
    - 592360 Updates to Spanish translation
    - 591250 virt-tar prints "tar_in: tar subcommand failed on directory" if the arc
    - 591155 virt-tar prints "tar_in: tar subcommand failed on directory" if a disk
    - 591142 virt-inspector should give an error for unrecognized disk images
    - 590167 virt-inspector and other virt tools should be able to handle filesystem-
    - 589039 guestfish read-file cmd will cause daemon hang when read large files
    - 588851 guestfs_launch() returns -1, but guestfs_last_error() == NULL
    - 588763 libguestfs should use non-public or link-local addresses for appliance
    - 588733 Updates to Spanish translation
    - 588651 guestfish 'strings-e' cmd does not give proper error message or hint
    - 587484 lvresize can't reduce size of a volumn
    - 585961 Updates to Spanish translation
    - 585223 ntfsresize should support shrinking filesystems
    - 585222 pvresize should support shrinking PVs
    - 585221 resize2fs should support shrinking filesystems
    - 584038 Updates to Spanish translation
    - 583554 [FEAT] mknod-mode command is needed to set mode explicitly
    - 583242 [RFE] guestfish should print outputs in a suitable base (eg. octal for
    - 582993 guestfish eats words when tab completing case (in)sensitive paths
    - 582953 Misleading help information about lvcreate command
    - 582948 mknod command doesn't make block, character or FIFO devices
    - 582929 mknod doesn't check for invalid mode
    - 582901 guestfish chmod/umask commands do not check invalid mode value
    - 582899 guestfish:sparse is missed from command autocomplete list
    - 582891 [Feature Request] behavior and return value of guestfish umask cmd shou
    - 582548 [mknod] umask shouldn't take effect when mode is set explicitly

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– 582484 some guestfish sub commands can not handle special files properly
– 582252 Updates to Spanish translation
– 581501 Updates to Spanish translation
– 580650 virt-inspector warns "No grub default specified at /usr/lib/perl5/Sys/G
– 580556 request for libguestfs to support .txz tarballs
– 580246 tar-in command hangs if uploading more than available space
– 580016 aug-ls in guestfish does not take augeas variable as argument
– 579664 guestfish doesn't report error when there is not enough space for image
– 579608 multiple commands in guestfish can not work for symbol links
– 579155 libguestfs hangs if qemu doesn't start (in null vmchannel mode)
– 578407 the prefix '-' in sub-command isn't handled by guestfish in remote conti
– 576879 libguestfs protocol loses synchronization if you 'upload' before mounti
– 559963 libguestfs Perl programs do set locale, but still localization doesn't
– 521674 Perl modules are unversioned, but should carry version numbers
– 516096 Race condition in test_swapon_label_0: /sbin/blockdev: BLKRRPART: Devic
– 507810 guestfish -i / virt-inspector cannot handle spaces in filenames
– 502533 Updated Polish translation of libguestfs
– 501894 Some String parameters should be OptString
– 501893 String parameters should be checked for != NULL
– 501889 write-file does not support strings containing ASCII NUL
– 484986 grub-install fails on virtio disk
```

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.