



Version 4.4.0 Release Highlights

V4.4.0 is an updated release of the vtServer Bare Metal hypervisor platform that includes updates, new features and bug fixes.

The most significant changes are:

vtServer

Updates

- new linux kernel (6.1.46)
- new samba (4.17.5)
- new libssh (0.10.5)
- new codemeter (v7.60b)

New

- added cancel commands for long storage operations
- added autostart priority setting and startup delay
- added support for secure boot
- allow multipath device name for single-path devices
- added 'scsi_mod=relaxed=xx' kernel option to support incompatible scsi devices
- new version of alpha tools disk
- new version TapeMGR v2.1 -> add copy, move and directory commands
- new version EcoApp v2.3 -> retrieve OpenVMS load from emulator, fix idle percentage.
- new version vtDSK v1.3 -> fix crash after mount verification.
- remove old/stale SCSI devices by force on manual fibre channel reset.
- Add ip addresses to webserver certificate.
- Remove dvd installation caching in systems with at least 4Gb memory. (can be reactivated by 'dvdcache' boot option).
- enable secure boot.
- allow copying of iso installation file to usb stick to create a bootable installer.

Fixes

- fix snapshot creation on refresh update when multiple vtserver instances are present.
- fix network device name of virtual interface under KVM.
- fix error in console menu on disable_port80 system parameter.
- make sure that autostart of all emulators at system boot are done in alphabetic order.
- unconditionally stop all emulators on forced system shutdown.
- fix spurious restart of http server if port 80 has been disabled.



- disable mgag200, matroxfb_base and nvidiafb modules to avoid nomodeset on specific servers.
- increase maximum number of luns from 255 to 65535 for Emulex fibre channel controllers.
- removed access to files via the web interface.
- fix failure to boot to next boot device after an error occurred when reading the bootloader from disk.
- fix ntp CTL_OP_REQ_NONCE vulnerability update ciphers in apache configuration.
- disable OPTIONS command in apache.
- use strong DH group in apache.



vtAlpha

New

- allow emulator to run on systems that don't report a proper host clock speed.
- properly keep track of cdrom size in 512 byte blocks to prevent error message when using tru64 ("error updating device after capacity change").
- avoid restarting of network interface during mac address change if possible.
- make sure removable devices are present, even when the medium is absent during boot.
- add support for TapeMGR copy, move and directory commands.
- create a persistent mac address for pseudo network interface even if eth0 is missing.
- add 'disable_scsi_timeout' option for isp1040.
- allow virtual tape container files on readonly volume.
- add method to view license usage and pid in codemeter and licmgr.

Fixes

- apply locking in rpi handling in kgpsa to avoid crash.
- fix influence of poll on countdown time when license is gone.
- fix possible thread hang with ssh causing a vms bugcheck.
- fix 'vms_pal::build_stack_frame mmu_fault' errors in wildfire which caused cpu's to stay offline when rebooting VMS or Tru64.
- fix handling of some disk errors.
- fix possible errors in cmpt instruction in the interpreter.
- fix memory corruption in kgpsa directory services.
- fix use after free error in kgpsa fcp processing.
- do not change the license status in the last 16 hours when viewing the license from the user interface.
- better handling of I/O timeouts for all storage controllers to minimize controller resets.
- ignore machine check on degxa with tru64 1.0.30 driver if trace flag igninvmemacc is set.
- honour write protected device in io_uring and passthru paths of backend.
- fix bad configuration error in kgpsa dynamic device configuration.
- fix dropped ssh connection if there's a lot of output.
- improve performance of pbxda serial line emulation.
- improve scsi timeout handling and locking.
- properly handle virtual tape writelock errors.
- fix license allocation algorithm to do a separate search for system and cpu licenses over multiple license servers and keys.
- fix bug that may have caused cpu license acquisition to be omitted.



- fix failure to boot to next boot device after an error occurred when reading the bootloader from disk.
- change license acquisition to consider all licenses in all keys to be a pool of available licenses.
- check for port online state if creating an npiv adapter to prevent wrong error messages.
- work around INCONSTATE bugchecks in VMS V6.2-1H3 and V7.1 caused by a bad OpenVMS driver.

vtVAX

New

- Added support for scsi lun's. VAX configuration needs to be upgraded to v3.0.
- Added support for generic SCSI devices
- Added SCSI options to the vax SCSI adapters
- Added copy/move function to tape manager, allow wildcard deletes. Requires VMS TapeManager V1.20 for new functionality.
- Add console management port debug [kzdda|kzddb] [on|off] option to enable or disable generic SCSI command tracing
- Add SCSI compatibility option
- Add SCSI timeout disable option

Fixes

- Re-added readdelay and writedelay processing in custom.xml
- Modified SCSI controller to reduce IO rate impact caused by ECO-Mode
- Correct SCSI generic and medium changer/robot implementation



vtMonitor

New

- Added support for SCSI target-lun definitions for the vtVAX. VAX configuration will be upgraded to v3.0
- Added functionality to cancel certain long running tasks, like copy, move, create, zip of files.
- Added configuration of start order of autostart configurations and startup delay.
- Ask confirmation before writing to physical disk.
- Added download functionality for log files and disks from the UI.
- Added upload functionality of files from local pc to mounted disk on vtServer.
- Added informational status bar for serverlist and file explorer.

Fixes

- Bug Solved: Path check (for log file or container) was failing on old versions of Firefox.

vtLicense

- No changes.



Installation and Update Procedure

The vtServer software may be installed on a new host platform, or it may be updated incrementally. These options are described in more detail below.

Installation on New Host

The installation process installs a complete version of the vtServer software package on a server with no previous vtServer installation.

The vtServer installation kit is available in multiple formats: On a DVD-ROM; as an .iso formatted file that can be burned to a DVD or used as a virtual DVD device when installing vtServer in a virtual machine; or as a bootable USB thumb drive.

For a detailed description of the installation process, please see the *vtServer vtAlpha/vtVAX Bare Metal Reference Manual*.

Warning: the backup and restore option is changed. A restore can only be done from a backup created by the same version of vtServer. This is done to prevent a corrupted vtServer when restoring “old” backup files. When using vtServer backups we recommend creating a new backup after the installation or update to V4.4.0.

Incremental Update

The incremental update process is the preferred method for updating existing vtServer installations. A complete set of incremental updates is provided on the distribution media (DVD, .iso file or USB drive). Update files can also be retrieved from our ftp server.

To update to vtServer V4.4.0 the current version has to be V4.3.0.

For a detailed description of the update process, please see the *vtServer vtAlpha/vtVAX Bare Metal Reference Manual*.

Post-Update Instructions

After completing the installation or update of vtServer, the host system should be rebooted and the vtMonitor user interface should be reloaded.

Creating a vtServer backup after an installation or update is recommended.