

by nicola for livenet research

# Performance zfs

- [http://open-zfs.org/wiki/Performance\\_tuning#Alignment\\_Shift\\_.28ashift.29](http://open-zfs.org/wiki/Performance_tuning#Alignment_Shift_.28ashift.29)
- [http://open-zfs.org/wiki/Performance\\_tuning#Basic\\_concepts](http://open-zfs.org/wiki/Performance_tuning#Basic_concepts)
- [https://github.com/zfsonlinux/zfs/blob/master/cmd/zpool/zpool\\_vdev.c#L108](https://github.com/zfsonlinux/zfs/blob/master/cmd/zpool/zpool_vdev.c#L108)
- <https://www.servethehome.com/the-case-for-using-zfs-compression/>
- <https://utcc.utoronto.ca/~cks/space/blog/linux/ForcedUTF8FileNames>
- <https://serverfault.com/questions/74411/best-compression-for-zfs-send-recv>
- <https://github.com/zfsonlinux/zfs/issues/692>
- <https://www.percona.com/blog/2018/05/15/about-zfs-performance/>
- <https://forums.freebsd.org/threads/help-with-zfs-and-block-size-alignment.46957/>
- <https://mpolednik.github.io/2017/01/23/virtio-blk-vs-virtio-scsi/>

## ssh performance

<https://famzah.files.wordpress.com/2015/06/openssh-ciphers-performance-2015-chart.jpg>

## choose correct value ashift

- <https://illumos.topicbox.com/groups/zfs/T2cf12f740806aa96-Ma3844bffd677334735f94f3d>
- <https://wiki.orzfly.com/topics/zfs-on-linux-mount-raw-pool-image>
- <https://www.tecmint.com/setup-iscsi-target-and-initiator-on-debian-9/>
- <http://dalaris.com/how-to-install-zfs-and-present-a-zvol-through-iscsi-in-ubuntu-14-04/>
- <https://linuxacademy.com/howtoguides/posts/show/topic/21208-how-to-share-your-storage-with-iscsi>
- <https://help.ubuntu.com/lts/serverguide/iscsi-initiator.html.en>
- <https://linux.die.net/man/8/tgtadm>
- <https://unix.stackexchange.com/questions/132797/how-to-dd-a-remote-disk-using-ssh-on-local-machine-and-save-to-a-local-disk>

## understanding aio mode

- <https://specs.openstack.org/openstack/nova-specs/specs/mitaka/implemented/libvirt-aio-mode.html>
- <https://blog.programster.org/zfs-record-size>

==option of qemu== \*

- [https://heiko-sieger.info/qemu-system-x86\\_64-drive-options/](https://heiko-sieger.info/qemu-system-x86_64-drive-options/)
- [http://people.redhat.com/pbonzini/qemu-test-doc/\\_build/topics/disk\\_005fimages.html](http://people.redhat.com/pbonzini/qemu-test-doc/_build/topics/disk_005fimages.html)

## native or threads

- [https://www.reddit.com/r/VFIO/comments/9e3wwf/io\\_native\\_vs\\_threads\\_with\\_kvm\\_and\\_gpu\\_passthrough/](https://www.reddit.com/r/VFIO/comments/9e3wwf/io_native_vs_threads_with_kvm_and_gpu_passthrough/)
- [https://wiki.mikejung.biz/KVM/\\_Xen](https://wiki.mikejung.biz/KVM/_Xen)

### qemu disk with win10 performance

<http://turlucode.com/qemu-disk-io-performance-comparison-native-or-threads-windows-10-version/>

### initramfs

<https://github.com/zfsonlinux/zfs/issues/6264>

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