

# Борьба за iops ы

Тест производительности дисковой подсистемы в PROXMOX.

Изначально: zfs пул на nvme, ashift 12, включен кэш в настройках VM write back, ФС внутри VM ext4.

Подобраны параметры для fio - смешанная нагрузка 1C

```
fio --name=1c_mixed --filename=/tmp/mixed_workload --size=8G --rw=randrw --rwmixread=60 --bs=8k --ioengine=libaio --iodepth=16 --numjobs=8 --runtime=400 --time_based --group_reporting > /home/a30t/vk1c-ext4-ashift12-wcache.txt
```

## vk1c-ext4-ashift12-wcache

Run status group 0 (all jobs):

READ: bw=675MiB/s (708MB/s), 675MiB/s-675MiB/s (708MB/s-708MB/s), io=264GiB (283GB), run=400015-400015msec

WRITE: bw=450MiB/s (472MB/s), 450MiB/s-450MiB/s (472MB/s-472MB/s), io=176GiB (189GB), run=400015-400015msec

Disk stats (read/write):

dm-0: ios=4137380/3208203, merge=0/0, ticks=492888/2446976, in\_queue=2939864, util=76.95%, aggrios=4137380/3206699, aggrmerge=0/1507, aggrticks=514372/2050053, aggrin\_queue=2721125, aggrutil=80.08%

sda: ios=4137380/3206699, merge=0/1507, ticks=514372/2050053, in\_queue=2721125, util=80.08%

## vk1c-ext4-ashift12

Run status group 0 (all jobs):

READ: bw=516MiB/s (541MB/s), 516MiB/s-516MiB/s (541MB/s-541MB/s), io=202GiB (217GB), run=400001-400001msec

WRITE: bw=344MiB/s (361MB/s), 344MiB/s-344MiB/s (361MB/s-361MB/s), io=134GiB (144GB), run=400001-400001msec

Disk stats (read/write):

dm-0: ios=3574961/3125992, merge=0/0, ticks=742172/3416224, in\_queue=4158396, util=89.33%, aggrios=3575186/3102889, aggrmerge=222/25408, aggrticks=768781/3000911, aggrin\_queue=3856302, aggrutil=90.87%  
sda: ios=3575186/3102889, merge=222/25408, ticks=768781/3000911, in\_queue=3856302, util=90.87%

## vk1c-ext4-ashift13

Run status group 0 (all jobs):

READ: bw=511MiB/s (536MB/s), 511MiB/s-511MiB/s (536MB/s-536MB/s), io=200GiB (214GB), run=400001-400001msec  
WRITE: bw=341MiB/s (357MB/s), 341MiB/s-341MiB/s (357MB/s-357MB/s), io=133GiB (143GB), run=400001-400001msec

Disk stats (read/write):

dm-0: ios=3469061/3526092, merge=0/0, ticks=696228/3092284, in\_queue=3788512, util=87.32%, aggrios=3470006/3506293, aggrmerge=28/25951, aggrticks=716387/2628436, aggrin\_queue=3431389, aggrutil=87.60%  
sda: ios=3470006/3506293, merge=28/25951, ticks=716387/2628436, in\_queue=3431389, util=87.60%

Revision #5

Created 6 October 2025 20:52:28 by Admin

Updated 6 October 2025 22:18:08 by Admin