

# Proxmox VE

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# LXC Container Permission denied □□□□

□□□□ LXC Container □□□□□□□□□□□□□□

```
INFO: create storage snapshot 'vzdump'  
INFO: creating vzdump archive '/mnt/pve/xxxxxx/dump/vzdump-lxc-401-2024_06_08-00_19_50.tar.zst'  
INFO: tar: /mnt/pve/xxxxxx/dump/vzdump-lxc-401-2024_06_08-00_19_50.tmp: Cannot open: Permission denied  
INFO: tar: Error is not recoverable: exiting now
```

□□□□ :

□□□□□□ (Unprivileged container) □□□□□□ (Unprivileged container) □□□□□□□□□□ vzdump □□□□□□□□□□□□□□□□□□□□ 100

□□□□ pve /etc/vzdump.conf

```
mkdir /temp && mkdir /temp/vzdump  
vim /etc/vzdump.conf
```

# vzdump default settings

```
tmpdir: /temp/vzdump  
#dumpdir: DIR  
#storage: STORAGE_ID  
#mode: snapshot|suspend|stop  
#bwlimit: KBPS  
#performance: [max-workers=N][,pbs-entries-max=N]  
#ionice: PRI  
#lockwait: MINUTES  
#stopwait: MINUTES  
#stdexcludes: BOOLEAN
```

#mailto: ADDRESSLIST  
#prune-backups: keep-INTERVAL=N[,...]  
#script: FILENAME  
#exclude-path: PATHLIST  
#pigz: N  
#notes-template: {{guestname}}

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□□□□ **Jason Tools** <https://blog.jason.tools/2021/07/proxmox-ve-vzdump-lxc-fail.html>

Storage

Storage ☐

# Ceph☐☐

## #☐Crush Rule

```
ceph osd crush rule create-replicated rule-nvme default host nvme
ceph osd crush rule create-replicated rule-hdd default host hdd
ceph osd crush rule rm replicated_rule
```

## ☐HDD Pool☐SSD☐

```
ceph osd tier add Ceph_Pool Cache
ceph osd tier cache-mode Cache writeback
ceph osd tier set-overlay Ceph_Pool Cache
ceph osd pool set Cache hit_set_type bloom
#ceph osd pool set Cache hit_set_count 12
#ceph osd pool set Cache hit_set_period 14400

ceph osd pool set Cache target_max_bytes xxxxxx
ceph osd pool set Cache target_max_objects xxxxxx
ceph osd pool set Cache min_read_recency_for_promote 2
ceph osd pool set Cache min_write_recency_for_promote 2

ceph osd pool set Cache cache_target_dirty_ratio 0.4
ceph osd pool set Cache cache_target_dirty_high_ratio 0.6
ceph osd pool set Cache cache_target_full_ratio 0.8
ceph osd pool set Cache cache_min_flush_age 600
ceph osd pool set Cache cache_min_evict_age 1800
```

## #remove Cache Pool

```
ceph osd tier cache-mode Cache readproxy
rados -p Cache ls
rados -p Cache cache-flush-evict-all
ceph osd tier remove-overlay Ceph_Pool
ceph osd tier remove Ceph_Pool Cache
ceph delete Cache Cache --yes-i-really-really-mean-it
```

## # Ceph LVM Disk Label

```
ceph-volume lvm zap /dev/sdX --destroy
```

## # Ceph

```
ceph -s
```

```
ceph osd pool stats
```

## # ceph cluster

```
ceph osd set noout
```

```
ceph osd set nobackfill
```

```
ceph osd set norecover
```

## # ceph cluster

```
ceph osd unset noout
```

```
ceph osd unset nobackfill
```

```
ceph osd unset norecover
```

Storage ☐☐

# ZFS ☐☐

## ☐☐ ZFS ☐☐ SSD ☐ Cache ☐ Log

```
zpool add ZFS_Pool cache << /dev/xxxx >>
```

```
zpool add ZFS_Pool log << /dev/xxxx >>
```

## ☐☐ ZFS ☐☐☐☐

zfs list

```
root@pve:~# zfs list
NAME                                USED  AVAIL  REFER  MOUNTPOINT
ZFS_Pool                            20.5G  4.40T   96K    /ZFS_Pool
ZFS_Pool/subvol-401-disk-1          1.71G  18.3G  1.71G  /ZFS_Pool/subvol-401-disk-1
ZFS_Pool/vm-301-disk-0              18.8G  4.40T  18.8G  -
root@pve:~#
```

zpool list

```
root@pve:~# zpool list
NAME      SIZE  ALLOC   FREE  CKPOINT  EXPANDSZ   FRAG    CAP  DEDUP    HEALTH  ALTROOT
ZFS_Pool  4.55T  20.6G  4.53T      -          -         0%   0%  1.00x   ONLINE  -
root@pve:~#
```

zpool status

```
root@pve:~# zpool status
pool: ZFS_Pool
state: ONLINE
scan: scrub repaired 0B in 00:04:54 with 0 errors on Sun Jun 9 00:28:55 2024
config:
```

NAME	STATE	READ	WRITE	CKSUM
ZFS_Pool	ONLINE	0	0	0
ata-ST5000LM000-2AN170_WCJ089VZ	ONLINE	0	0	0
logs				
nvme-eui.0000000000000000707c183920000600-part4	ONLINE	0	0	0
cache				
nvme-eui.0000000000000000707c183920000600-part5	ONLINE	0	0	0

```
errors: No known data errors
```

```
root@pve:~# █
```

GuestOS

GuestOS

# Guest OS Qemu Guest Agent

## OS Qemu Guest Agent

### Windows 2012

VirtIO ISO Qemu-GA

<https://fedorapeople.org/groups/virt/virtio-win/direct-downloads/stable-virtio/virtio-win.iso>

### Windows 2008 R2 / 7

100.0

<https://fedorapeople.org/groups/virt/virtio-win/direct-downloads/archive-qemu-ga/qemu-ga-win-100.0.0.0-3.el7ev/>

! 100 Qemu-GA !!

### Windows 2003 ( )

Qemu-GA

# CentOS/Redhat/Rocky

```
dnf install qemu-guest-agent -y  
systemctl enable qemu-guest-agent  
systemctl start qemu-guest-agent
```

# Ubuntu / Debian

```
apt update && apt -y install qemu-guest-agent  
systemctl enable qemu-guest-agent  
systemctl start qemu-guest-agent
```