

Backups

Creating and restoring backups.

- [Proxmox backups](#)

Proxmox backups

Design

- From Proxmox, we will be backing up VMs and containers to the TrueNAS *that is running in Proxmox*.
- In Proxmox, we mount the `alpha/proxmox/snapshots` dataset via NFS as `alpha-snapshots`.
- Backups from Proxmox are done hourly on the hour (`**:*00`) and copied to `alpha-snapshots`.
- In TrueNAS, backups are made from `alpha/proxmox/snapshots` to Backblaze B2.

Configuration

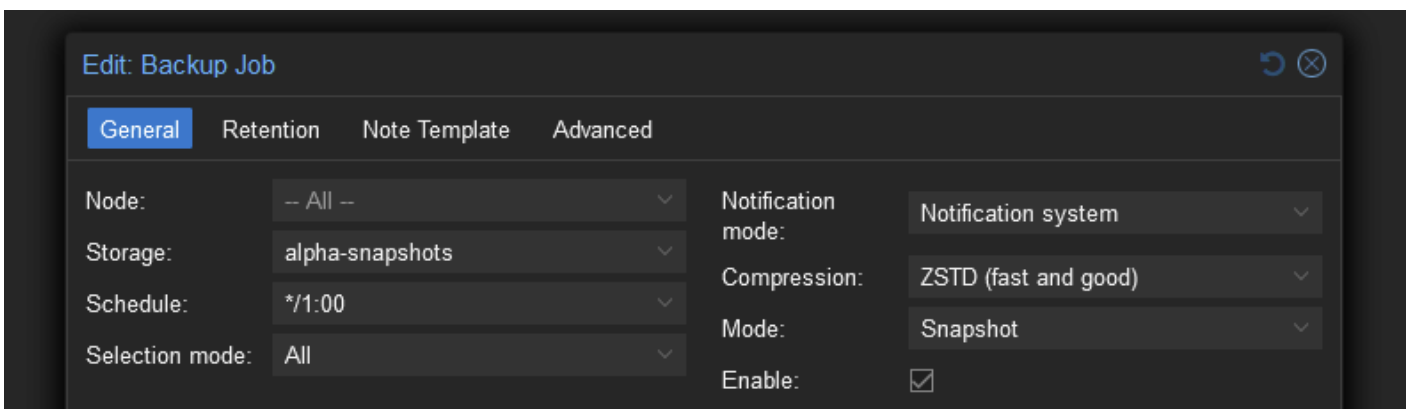
Mount the target volume

Mount the `alpha/proxmox/snapshots` dataset via NFS, call it `alpha-snapshots`.

Make sure to use the dedicated virtual network bridge `vmbri1`.

Create the backup job

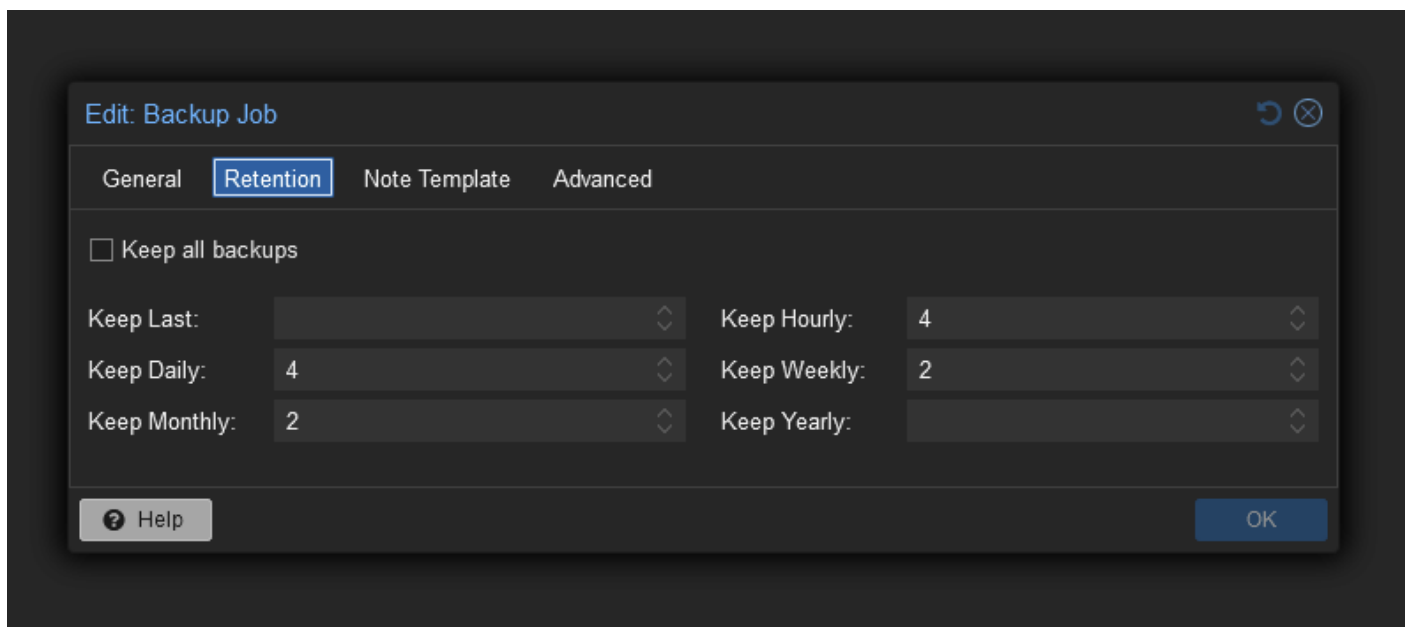
Select Datacenter > Backups, create a backup job like so:



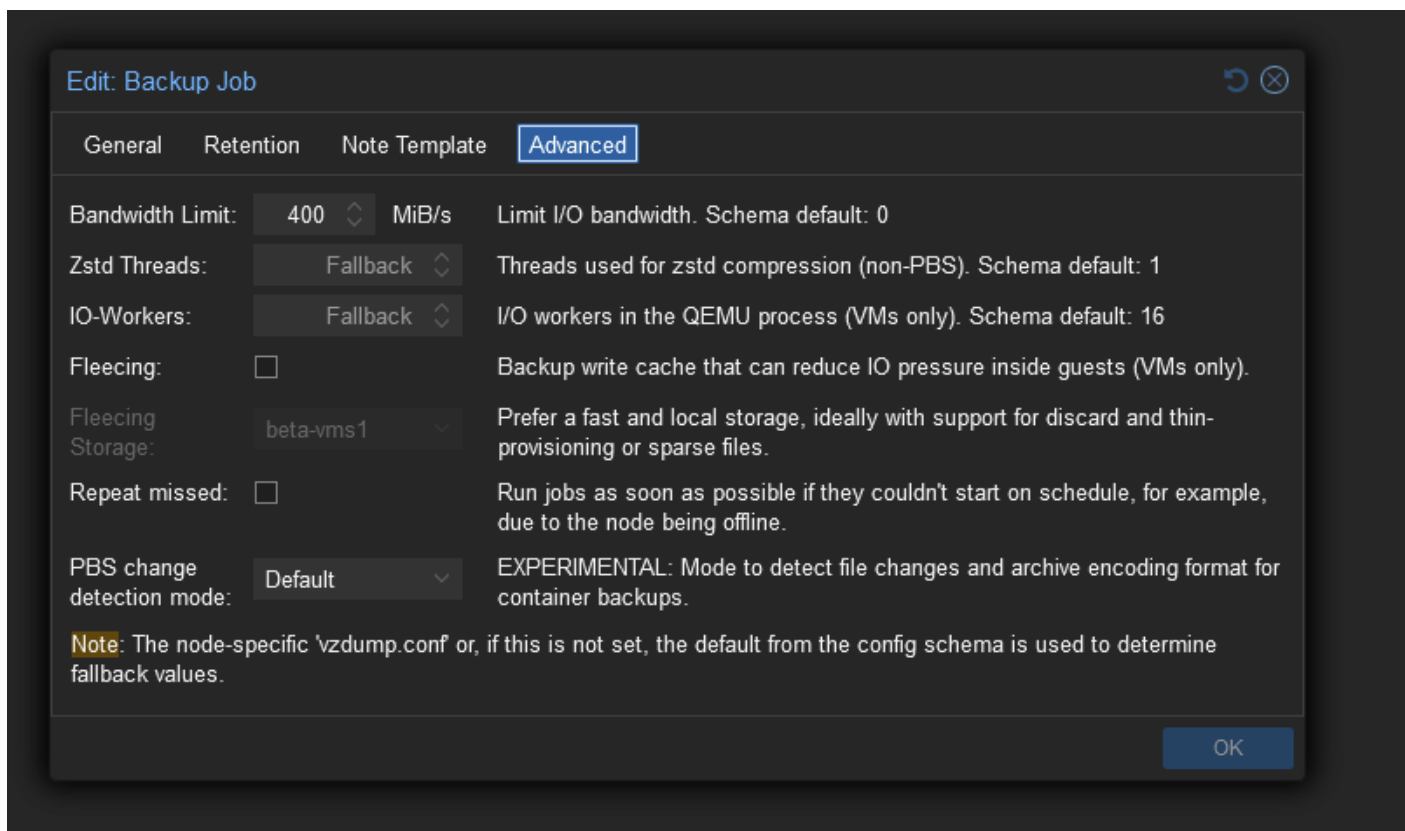
The screenshot shows the 'Edit: Backup Job' window in Proxmox. It has four tabs: 'General' (selected), 'Retention', 'Note Template', and 'Advanced'. The 'General' tab contains the following settings:

Field	Value
Node:	-- All --
Storage:	alpha-snapshots
Schedule:	*/*:00
Selection mode:	All
Notification mode:	Notification system
Compression:	ZSTD (fast and good)
Mode:	Snapshot
Enable:	☒

Mind the `Notification system` and `Mode` settings.



The above may change depending on needs, but it's what it's set to at the time of writing.



The only changed setting here is the bandwidth limit. The only reason it's set is to prevent completely hogging the disk I/O for several minutes. Yes, it takes longer as a result, but at least other services using the pool won't be I/O starved.

Configure vzdump

By default, `vzdump` creates temporary files in the target location (where the backup will go). As a result, it will try to symlink unprivileged container filesystems onto the NFS volume. This causes

permission problems, even when NFS is set to *mapall user/group*.

To fix this problem, modify `/etc/vzdump.conf`:

```
GNU nano 7.2 /etc/vzdump.conf *
# vzdump default settings

tmpdir: /tmp
#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}}
#pbs-change-detection-mode: legacy|data|metadata
```

The only line changed is the `tmpdir:` one. Set it to `/tmp` to prevent doing the compression and such *on* the target volume.