

# Tower Health Analysis

Diagnostic scan identified 8 critical and 14 warning findings requiring attention.

SERVER

Tower

DATE

14 April 2026

UPTIME

30 days, 0 hrs

HARDWARE

Intel Core i7-10700 @  
2.90GHz (16 cores)

OS / PLATFORM

unraid 7.1.4 (kernel 6.12.10-  
Unraid) / unraid 7.1.4

ARRAY STATUS

Attention Required

8 Critical Finding(s) Detected

- Disk Almost Full: /mnt/disk5 (98%)
- Severe Parity Check Speed Degradation
- Parity Errors on 2026-01-22
- Parity Errors on 2026-03-30
- ZFS Pool 'backup' is DEGRADED
- K8s pod crash loop: default/broken-app-7b9f4c-abc12
- K8s deployment down: default/broken-app
- Backup stale: proxmox-backup (pbs) — last success 3d ago

# Contents

|    |                               |          |
|----|-------------------------------|----------|
| 1  | System Overview               |          |
| 2  | Findings                      | Critical |
| 3  | Drive Health & SMART Analysis |          |
| 4  | Docker & Application Analysis |          |
| 5  | GPU Monitoring                |          |
| 6  | Backup Monitoring             |          |
| 7  | Network Speed Test            |          |
| 8  | ZFS Pool Analysis             |          |
| 9  | UPS / Power                   |          |
| 10 | Network Interfaces            |          |
| 11 | Service Checks                |          |
| 12 | Proxmox VE                    |          |
| 13 | Kubernetes                    |          |
| 14 | Tunnels & VPN                 |          |
| 15 | Parity Analysis               |          |
| 16 | Recommended Actions           |          |

# 1 System Overview

16

CPU CORES

75.0%

MEMORY USAGE

18.3%

I/O WAIT

30 days,  
0 hrs

UPTIME



| COMPONENT    | DETAIL                                              | STATUS    |
|--------------|-----------------------------------------------------|-----------|
| CPU          | Intel Core i7-10700 @ 2.90GHz — 23.4% usage         | Normal    |
| Memory       | 24576 MB / 32768 MB (75.0%)                         | Normal    |
| Load Average | 1m: 2.34 / 5m: 1.87 / 15m: 1.52                     | Normal    |
| I/O Wait     | 18.3%                                               | Elevated  |
| Network      | eth0 (1000Mb/s), bond0 (2000Mb/s), wg0              | Connected |
| Uptime       | 30 days, 0 hrs                                      | —         |
| OS           | unraid 7.1.4 (kernel 6.12.10-Unraid) 6.12.10-Unraid | —         |
| Motherboard  | ASRock Z490M-ITX/ac                                 | —         |

## Disk Space Utilisation



## 2 Findings

CRITICAL

### **Critical** Disk Almost Full: /mnt/disk5 (98%)

/mnt/disk5 is at 98% capacity (80.0 GB free of 4000.0 GB).

#### Evidence:

- Usage: 3920.0/4000.0 GB (98%)

Recommended: Free space immediately or expand storage.

### **Critical** Severe Parity Check Speed Degradation

Parity check speed has degraded by 69% (from 142 MB/s to 44 MB/s). This is a strong indicator of a hardware issue.

#### Evidence:

- Earliest: 142 MB/s (2024-01-15)
- Latest: 44 MB/s (2026-03-30)

Recommended: Check SATA cables, drive health, and controller. The slowest drive/cable is the bottleneck.

### **Critical** Parity Errors on 2026-01-22

Parity check on 2026-01-22 found 5 errors (action: check).

#### Evidence:

- Errors: 5, Duration: 151200s, Speed: 50 MB/s

Recommended: Run a correcting parity check. Investigate which drive has bad data.

### **Critical** Parity Errors on 2026-03-30

Parity check on 2026-03-30 found 12 errors (action: check).

#### Evidence:

- Errors: 12, Duration: 172800s, Speed: 44 MB/s

Recommended: Run a correcting parity check. Investigate which drive has bad data.

### **Critical** ZFS Pool 'backup' is DEGRADED

Pool 'backup' is operating in degraded mode — one or more devices has failed or been removed. The pool has reduced redundancy and cannot survive another device failure.

#### **Evidence:**

- State: DEGRADED
- Status: One or more devices has been removed by the administrator.
- Scan: scrub repaired 0B in 06:18:44 with 0 errors on Sat Apr 5 04:00:00 2026
- VDev raidz1-0: DEGRADED
- /dev/sdg: REMOVED

Recommended: Replace the failed device immediately with 'zpool replace'. Online the device using 'zpool online' or replace the device with 'zpool replace'.

### **Critical** K8s pod crash loop: default/broken-app-7b9f4c-abc12

Pod broken-app-7b9f4c-abc12 in namespace default is in CrashLoopBackOff with 47 restarts

Recommended: Check logs: `kubectl logs broken-app-7b9f4c-abc12 -n default --previous`

### **Critical** K8s deployment down: default/broken-app

Deployment broken-app has 0/1 ready replicas

Recommended: Investigate immediately: `kubectl describe deployment broken-app -n default`

### **Critical** Backup stale: proxmox-backup (pbs) — last success 3d ago

Backup job 'proxmox-backup' (pbs) has not completed successfully in over 48 hours. Last success was 3d ago.

#### **Evidence:**

- Provider: pbs
- Last success: 2026-04-11 12:11
- Snapshots: 30

Recommended: Check if the backup schedule is running. Verify repository connectivity and credentials.

**Warning** SMART data unavailable: /dev/sdb

Drive /dev/sdb (WDC WD140EDGZ-11B1PA0) was detected but smartctl could not read SMART attributes. The drive may be behind an HBA, USB bridge, or unsupported controller.

**Evidence:**

- Temperature: 0°C
- Power-on hours: 0
- No SMART attributes in smartctl output

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Recommended: Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly.

**Warning** SMART data unavailable: /dev/sdc

Drive /dev/sdc (WDC WD140EDGZ-11B1PA0) was detected but smartctl could not read SMART attributes. The drive may be behind an HBA, USB bridge, or unsupported controller.

**Evidence:**

- Temperature: 0°C
- Power-on hours: 0
- No SMART attributes in smartctl output

---

Recommended: Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly.

**Warning** SMART data unavailable: /dev/sdd

Drive /dev/sdd (Seagate ST14000NM001G-2KJ) was detected but smartctl could not read SMART attributes. The drive may be behind an HBA, USB bridge, or unsupported controller.

**Evidence:**

- Temperature: 0°C
- Power-on hours: 0
- No SMART attributes in smartctl output

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Recommended: Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly.

**Warning** SMART data unavailable: /dev/sde

Drive /dev/sde (Seagate ST8000VN004-2M2101) was detected but smartctl could not read SMART attributes. The drive may be behind an HBA, USB bridge, or unsupported controller.

**Evidence:**

- Temperature: 0°C
- Power-on hours: 0
- No SMART attributes in smartctl output

---

Recommended: Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly.

**Warning** SMART data unavailable: /dev/sdf

Drive /dev/sdf (Seagate ST8000VN004-2M2101) was detected but smartctl could not read SMART attributes. The drive may be behind an HBA, USB bridge, or unsupported controller.

**Evidence:**

- Temperature: 0°C
- Power-on hours: 0
- No SMART attributes in smartctl output

---

**Recommended:** Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly.

**Warning** SMART data unavailable: /dev/sdg

Drive /dev/sdg (WDC WD40EFAX-68JH4N1) was detected but smartctl could not read SMART attributes. The drive may be behind an HBA, USB bridge, or unsupported controller.

**Evidence:**

- Temperature: 0°C
- Power-on hours: 0
- No SMART attributes in smartctl output

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**Recommended:** Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly.

**Warning** SMART data unavailable: /dev/nvme0n1

Drive /dev/nvme0n1 (Samsung 970 EVO Plus 1TB) was detected but smartctl could not read SMART attributes. The drive may be behind an HBA, USB bridge, or unsupported controller.

**Evidence:**

- Temperature: 0°C
- Power-on hours: 0
- No SMART attributes in smartctl output

---

**Recommended:** Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly.

**Warning** Drive Temperature: /dev/sdg at 47°C

Drive /dev/sdg (WDC WD40EFAX-68JH4N1) is at 47°C. Elevated — reduce if possible — Backblaze + Google research shows failure rate at 2.0x baseline at this temperature.

**Evidence:**

- Current temperature: 47°C
- Failure rate multiplier: 2.0x (Backblaze/Google data)

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**Recommended:** Improve case airflow. Add/replace fans. Check that existing fans are working.

**Warning** Historical Overheating on /dev/sdg (max 69°C)

Drive /dev/sdg has reached 69°C at some point in its lifetime. At this temperature, failure rate is ~10.0x baseline. Thermal damage may be permanent.

**Evidence:**

- Airflow\_Temperature\_Max: 69°C

Recommended: Monitor SMART attributes closely for degradation.

**Warning** Elevated Disk I/O Wait

I/O wait is at 18.3%. This is above the ideal threshold of <10%.

**Evidence:**

- I/O Wait: 18.3%

Recommended: Consider adding an SSD cache for Docker containers and frequently-accessed data.

**Warning** Low Disk Space: /mnt/disk3 (96%)

/mnt/disk3 is at 96% capacity (320.0 GB free of 8000.0 GB).

**Evidence:**

- Usage: 7680.0/8000.0 GB (96%)

Recommended: Monitor growth rate. Plan storage expansion or cleanup.

**Warning** K8s pod pending (unscheduled): default/pending-job-xyz

Pod pending-job-xyz in namespace default is pending and not assigned to any node

Recommended: Check events: `kubectl describe pod pending-job-xyz -n default`

**Warning** K8s deployment unhealthy: default/broken-app

Deployment broken-app has 1 unavailable replicas (0/1 ready)

Recommended: Check pod status: `kubectl get pods -l app=broken-app -n default`

**Warning** K8s PVC pending: default/pending-pvc

PersistentVolumeClaim pending-pvc (class: nfs, capacity: ) is still pending

Recommended: Check storage provisioner and available PVs

#### **Info** Drive Temperature: /dev/sde at 42°C

Drive /dev/sde (Seagate ST8000VN004-2M2101) is at 42°C. Warm — within tolerance — Backblaze + Google research shows failure rate at 1.5x baseline at this temperature.

##### **Evidence:**

- Current temperature: 42°C
- Failure rate multiplier: 1.5x (Backblaze/Google data)

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**Recommended:** Improve case airflow. Add/replace fans. Check that existing fans are working.

#### **Info** Drive Temperature: /dev/nvme0n1 at 41°C

Drive /dev/nvme0n1 (Samsung 970 EVO Plus 1TB) is at 41°C. Warm — within tolerance — Backblaze + Google research shows failure rate at 1.5x baseline at this temperature.

##### **Evidence:**

- Current temperature: 41°C
- Failure rate multiplier: 1.5x (Backblaze/Google data)

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**Recommended:** Improve case airflow. Add/replace fans. Check that existing fans are working.

#### **Info** OS Update Available: unraid 7.0.0 → 7.0.1

You are running unraid 7.0.0. Version 7.0.1 is available. Keeping your NAS OS up to date ensures you have the latest security patches and bug fixes.

##### **Evidence:**

- Installed: 7.0.0
- Latest: 7.0.1
- Checked: 2026-04-14T12:11:29+01:00

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**Recommended:** Update your NAS OS when convenient. Review release notes before updating.

#### **Info** Backup healthy: daily-borg (borg) — 14 snapshots, 2.3 TB

Backup job 'daily-borg' (borg) is healthy with 14 snapshots totaling 2.3 TB.

##### **Evidence:**

- Provider: borg
- Snapshots: 14
- Total size: 2.3 TB
- Schedule: daily

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**Recommended:** No action required.



### Backup healthy: hourly-restic (restic) — 168 snapshots, 890.2 GB

Backup job 'hourly-restic' (restic) is healthy with 168 snapshots totaling 890.2 GB.

#### Evidence:

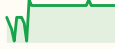
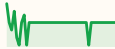
- Provider: restic
- Snapshots: 168
- Total size: 890.2 GB
- Schedule: hourly

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Recommended: No action required.

**OS Update Available:** unraid 7.0.0 → 7.0.1 — [Release notes](#)

### 3 Drive Health & SMART Analysis

| DEV      | DISK   | MODEL     | SIZE | HOURS | AGE       | HEALTH   | CONCERNS                                                     | TEMP HISTORY                                                                          |
|----------|--------|-----------|------|-------|-----------|----------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|
| /dev/sdb | parity | WDC ...   | 14T  | 38.4K | 4.4 years | PASSED   | —                                                            |    |
| /dev/sdc | disk1  | WDC ...   | 14T  | 42.1K | 4.8 years | PASSED * | 47 CRC error(s)                                              |    |
| /dev/sdd | disk2  | Seagat... | 14T  | 35.8K | 4.1 years | PASSED   | —                                                            |    |
| /dev/sde | disk3  | Seagat... | 8T   | 51.2K | 5.8 years | PASSED * | 12 cmd timeouts, 8 realloc, 2 pending                        |    |
| /dev/sdf | disk4  | Seagat... | 8T   | 44.8K | 5.1 years | PASSED   | —                                                            |    |
| /dev/sdg | disk5  | WDC ...   | 4T   | 62.4K | 7.1 years | FAILED   | 87 cmd timeouts, Max 47°C, 184 realloc, 24 pending, Very old |  |
| nvme0n1  | cache  | Samsu...  | 1T   | 18.2K | 2.1 years | PASSED   | —                                                            |  |

# 4 Docker & Application Analysis

## Running Containers

| CONTAINER      | IMAGE        | STATUS                 | CPU   | MEMORY         | NET I/O             | BLOCK I/O           | UPTIME  |
|----------------|--------------|------------------------|-------|----------------|---------------------|---------------------|---------|
| plex           | linuxser...  | Up 30 days             | 12.3% | 1340 MB (4.1%) | 144.0 GB / 831.1 GB | 1.0 TB / 48.8 GB    | 30 days |
| emby           | emby/e...    | Up 30 days             | 8.7%  | 2028 MB (6.2%) | 92.0 GB / 505.9 GB  | 768.0 GB / 39.1 GB  | 30 days |
| tdarr          | haveagit...  | Up 30 days             | 5.4%  | 916 MB (2.8%)  | 11.5 GB / 9.2 GB    | 2.0 TB / 1.5 TB     | 30 days |
| nginx-proxy    | nginx:al...  | Up 30 days             | 0.3%  | 42 MB (0.1%)   | 425.4 GB / 528.9 GB | 100.0 MB / 50.0 MB  | 30 days |
| wireguard      | linuxser...  | Up 30 days             | 0.1%  | 28 MB (0.1%)   | 218.5 GB / 185.1 GB | 10.0 MB / 5.0 MB    | 30 days |
| home-assistant | homeas...    | Up 15 days             | 3.2%  | 512 MB (1.6%)  | 8.2 GB / 4.0 GB     | 20.0 GB / 10.0 GB   | 15 days |
| grafana        | grafana/...  | Up 30 days             | 1.1%  | 186 MB (0.6%)  | 5.1 GB / 11.5 GB    | 1.0 GB / 512.0 MB   | 30 days |
| prometheus     | prom/pr...   | Up 30 days             | 0.8%  | 256 MB (0.8%)  | 3.0 GB / 6.1 GB     | 5.0 GB / 10.0 GB    | 30 days |
| radarr         | linuxser...  | Up 30 days             | 0.4%  | 312 MB (1.0%)  | 2.2 GB / 1.1 GB     | 2.0 GB / 1.0 GB     | 30 days |
| sonarr         | linuxser...  | Up 30 days             | 0.3%  | 298 MB (0.9%)  | 2.0 GB / 1.0 GB     | 2.0 GB / 1.0 GB     | 30 days |
| overseerr      | linuxser...  | Up 30 days             | 0.2%  | 148 MB (0.5%)  | 835.9 MB / 624.0 MB | 512.0 MB / 256.0 MB | 30 days |
| sabnzbd        | linuxser...  | Up 30 days             | 0.1%  | 95 MB (0.3%)   | 40.2 GB / 2.0 GB    | 512.0 GB / 256.0 GB | 30 days |
| pihole         | pihole/pi... | Exited (1) 3 days ago  | 0.0%  | 0 MB (0.0%)    | 0 B / 0 B           | 0 B / 0 B           | Exited  |
| mariadb-old    | mariadb:...  | Exited (0) 14 days ago | 0.0%  | 0 MB (0.0%)    | 0 B / 0 B           | 0 B / 0 B           | Exited  |

## Top Processes by Resource Usage

| PROCESS                                 | CPU % | RAM  | NOTES  |
|-----------------------------------------|-------|------|--------|
| /usr/bin/plex-media-server              | 12.3% | 4.1% | root   |
| emby-server --ffmpeg<br>/usr/bin/ffmpeg | 8.7%  | 6.2% | root   |
| python3<br>/app/tdarr/Tdarr_Node        | 5.4%  | 2.8% | nobody |
| /usr/sbin/shfs                          | 3.2%  | 1.5% | root   |
| mongod --config<br>/etc/mongod.conf     | 2.1%  | 3.4% | root   |
| nginx: master process                   | 1.8%  | 0.9% | root   |
| /usr/bin/wireguard-go<br>wg0            | 1.2%  | 0.4% | nobody |
| postgres: writer process                | 0.8%  | 2.1% | root   |
| /usr/sbin/sshd -D                       | 0.5%  | 0.3% | root   |
| /sbin/agetty --noclear<br>tty1 linux    | 0.3%  | 0.2% | root   |

# 5 ZFS Pool Analysis

## Pool: tank

**State** ONLINE val-good **Size** 28000.0 GB total, 21280.0 GB used (76%) — **Fragmentation** 18% — **Last Scrub** scrub — Sun Apr 6 02:00:00 2026 (0 errors) —

### VDev Layout

| DEVICE   | TYPE   | STATE  | READ ERR | WRITE ERR | CKSUM ERR |
|----------|--------|--------|----------|-----------|-----------|
| mirror-0 | mirror | ONLINE | 0        | 0         | 0         |
| /dev/sdb | disk   | ONLINE | 0        | 0         | 0         |
| /dev/sdc | disk   | ONLINE | 0        | 0         | 0         |
| mirror-1 | mirror | ONLINE | 0        | 0         | 0         |
| /dev/sdd | disk   | ONLINE | 0        | 0         | 0         |
| /dev/sde | disk   | ONLINE | 0        | 0         | 0         |

## Pool: backup

**State** DEGRADED val-warn **Size** 8000.0 GB total, 5440.0 GB used (68%) — **Fragmentation** 8% — **Last Scrub** scrub — Sat Apr 5 04:00:00 2026 (0 errors) — **Status** One or more devices has been removed by the administrator. —

### VDev Layout

| DEVICE   | TYPE   | STATE    | READ ERR | WRITE ERR | CKSUM ERR |
|----------|--------|----------|----------|-----------|-----------|
| raidz1-0 | raidz1 | DEGRADED | 0        | 0         | 0         |
| /dev/sdf | disk   | ONLINE   | 0        | 0         | 0         |
| /dev/sdg | disk   | REMOVED  | 0        | 0         | 0         |
| /dev/sdh | disk   | ONLINE   | 0        | 0         | 0         |

## ARC Cache Statistics

**ARC Size** 12288 MB / 16384 MB max — **Hit Rate** 94.2% val-good

## 6 UPS / Power

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### ServerUPS

APC Back-UPS XS 1400U

**Status** Online val-good **Battery** 100% — **Load** 34% — **Runtime** 48 min — **Power Draw** 294W / 865W nominal — **Input Voltage** 122V — **Temperature** 31°C — **Last Transfer** Low line voltage —

# 7 Network Interfaces

| INTERFACE | STATE | SPEED    | MTU  | IPV4 ADDRESS    |
|-----------|-------|----------|------|-----------------|
| eth0      | UP    | 1000Mb/s | 1500 | 192.168.1.38/24 |
| bond0     | UP    | 2000Mb/s | 1500 | 192.168.1.38/24 |
| wg0       | UP    | —        | 1420 | 10.13.13.1/24   |

# 8 Service Checks

| SERVICE           | TYPE  | TARGET            | STATUS | RESPONSE | FAILURES |
|-------------------|-------|-------------------|--------|----------|----------|
| Home Assistant    | HTTP  | http://192.168... | UP     | 42ms     | 0        |
| Pi-hole DNS       | DNS   | pi.hole           | UP     | 3ms      | 0        |
| Gateway Ping      | PING  | 192.168.1.1       | UP     | 1ms      | 0        |
| Plex Media Server | HTTP  | http://192.168... | UP     | 185ms    | 0        |
| NFS Share         | NFS   | 192.168.1.50      | DOWN   | —        | 2        |
| SMB Share         | SMB   | 192.168.1.50      | UP     | 8ms      | 0        |
| Internet Speed    | SPEED | speedtest         | UP     | 8200ms   | 0        |

## Speed Test Results

| CHECK          | DOWNLOAD | UPLOAD   | LATENCY | STATUS |
|----------------|----------|----------|---------|--------|
| Internet Speed | 940 Mbps | 450 Mbps | 8.0 ms  | UP     |

# GPU Monitoring

| GPU                     | VENDOR | USAGE | TEMP | VRAM                 | POWER      | ENCODER | DECODER |
|-------------------------|--------|-------|------|----------------------|------------|---------|---------|
| NVIDIA GeForce RTX 4060 | nvidia | 34%   | 62°C | 2048 / 8192 MB (25%) | 85 / 150 W | 78%     | 42%     |
| Intel UHD Graphics 730  | intel  | 12%   | 48°C | 128 / 512 MB (25%)   | 8 / 15 W   | 5%      | 15%     |

# Backup Monitoring

| JOB            | PROVIDER | STATUS | LAST SUCCESS | SIZE     | SNAPSHOT S | DURATION | ENCRYPTED |
|----------------|----------|--------|--------------|----------|------------|----------|-----------|
| daily-borg     | BORG     | OK     | 9h ago       | 2.3 TB   | 14         | 1845s    | Yes       |
| hourly-restic  | RESTIC   | OK     | 4h ago       | 890.2 GB | 168        | 312s     | Yes       |
| proxmox-backup | PBS      | STALE  | 3d ago       | 5.0 TB   | 30         | 7200s    | No        |

# Network Speed Test

940  
Mbps  
DOWNLOAD

450  
Mbps  
UPLOAD

8.0 ms  
LATENCY

1.2 ms  
JITTER

| FIELD  | VALUE                |
|--------|----------------------|
| Server | Lisbon               |
| ISP    | MEO                  |
| Tested | 14 Apr 2026 11:56:29 |

# Proxmox VE

## Nodes

| node   | status | cpu   | memory | uptime |
|--------|--------|-------|--------|--------|
| pve-01 | online | 23.0% | 40.6%  | 90d 0h |
| pve-02 | online | 14.0% | 37.5%  | 60d 0h |

## Guests (VMs / LXC's)

| id  | name           | type | status  | cpu   | memory |
|-----|----------------|------|---------|-------|--------|
| 100 | ubuntu-docker  | qemu | running | 12.0% | 50.0%  |
| 101 | home-assistant | qemu | running | 5.0%  | 25.0%  |
| 102 | windows-11     | qemu | stopped | 0.0%  | 0.0%   |
| 200 | pihole         | lxc  | running | 1.0%  | 25.0%  |
| 201 | nginx-proxy    | lxc  | running | 2.0%  | 25.0%  |
| 300 | media-server   | qemu | running | 35.0% | 75.0%  |
| 301 | backup-vm      | qemu | running | 8.0%  | 50.0%  |

## Storage

| storage    | node   | type    | status    | used  |
|------------|--------|---------|-----------|-------|
| local      | pve-01 | dir     | available | 20.0% |
| local-lvm  | pve-01 | lvmthin | available | 40.0% |
| nfs-backup | pve-01 | nfs     | available | 25.0% |
| local      | pve-02 | dir     | available | 20.0% |
| local-lvm  | pve-02 | lvmthin | available | 50.0% |

# Kubernetes

k3s v1.31.4+k3s1

## Nodes

| node        | status | roles                | cpu  | memory | Pods     | age  |
|-------------|--------|----------------------|------|--------|----------|------|
| k3s-master  | Ready  | control-plane,master | 0.0% | 0.0%   | 18 / 110 | 120d |
| k3s-worker1 | Ready  | worker               | 0.0% | 0.0%   | 25 / 110 | 90d  |
| k3s-worker2 | Ready  | worker               | 0.0% | 0.0%   | 12 / 110 | 60d  |

## Pods

| pod                     | namespace  | status           | ready | restarts | node        |
|-------------------------|------------|------------------|-------|----------|-------------|
| jellyfin-0              | media      | Running          | 1/1   | 0        | k3s-worker1 |
| sonarr-0                | media      | Running          | 1/1   | 2        | k3s-worker1 |
| radarr-0                | media      | Running          | 1/1   | 0        | k3s-worker1 |
| home-assistant-0        | home       | Running          | 1/1   | 1        | k3s-worker2 |
| grafana-6f8b9c7d4-xk2m1 | monitoring | Running          | 1/1   | 0        | k3s-master  |
| prometheus-0            | monitoring | Running          | 2/2   | 0        | k3s-master  |
| vaultwarden-0           | home       | Running          | 1/1   | 0        | k3s-worker2 |
| broken-app-7b9f4c-abc12 | default    | CrashLoopBackOff | 0/1   | 47       | k3s-worker1 |
| pending-job-xyz         | default    | Pending          | 0/1   | 0        |             |

# Tunnels & VPN

## Cloudflared Tunnels

Version: 2025.2.1

| TUNNEL     | STATUS  | CONNECTIONS | ROUTES                    |
|------------|---------|-------------|---------------------------|
| nas-tunnel | healthy | 4           | nas.example.com, plex.... |
| dev-tunnel | healthy | 2           | code.example.com          |

## Tailscale Peers

Version: 1.78.1 — State: Running

| PEER              | IP         | ONLINE | OS    | TX     | RX       |
|-------------------|------------|--------|-------|--------|----------|
| macbook           | 100.64.0.2 | Yes    | macOS | 4.9 GB | 2.9 GB   |
| phone             | 100.64.0.3 | Yes    | iOS   | 1.0 GB | 512.0 MB |
| backup-nas        | 100.64.0.4 | Yes    | linux | 8.8 GB | 12.0 GB  |
| offsite-pi (exit) | 100.64.0.5 | No     | linux | 2.0 GB | 1.0 GB   |

## 9 Parity Analysis

| PERIOD     | DURATION | SPEED      | ERRORS | ACTION |
|------------|----------|------------|--------|--------|
| 2024-01-15 | 15h 0m   | 142.5 MB/s | 0      | check  |
| 2024-04-12 | 16h 0m   | 134.2 MB/s | 0      | check  |
| 2024-07-20 | 17h 30m  | 121.8 MB/s | 0      | check  |
| 2024-10-05 | 20h 0m   | 106.3 MB/s | 0      | check  |
| 2025-01-11 | 24h 0m   | 88.7 MB/s  | 0      | check  |
| 2025-04-19 | 27h 0m   | 78.4 MB/s  | 2      | check  |
| 2025-07-26 | 30h 0m   | 71.1 MB/s  | 0      | check  |
| 2025-10-18 | 35h 0m   | 60.2 MB/s  | 0      | check  |
| 2026-01-22 | 42h 0m   | 50.5 MB/s  | 5      | check  |
| 2026-03-30 | 48h 0m   | 44.1 MB/s  | 12     | check  |

# 10 Recommended Actions

| ACTION                                                                                                                                         | PRIORITY   | ESTIMATED IMPACT                                                          | COST |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------|------|
| Free space immediately or expand storage.                                                                                                      | immediate  | Services may fail if disk fills completely. Write operations will fail.   | —    |
| Check SATA cables, drive health, and controller. The slowest drive/cable is the bottleneck.                                                    | immediate  | Parity checks take much longer, array is unprotected for extended periods | —    |
| Run a correcting parity check. Investigate which drive has bad data.                                                                           | immediate  | Parity data is inconsistent. Array protection is compromised.             | —    |
| Run a correcting parity check. Investigate which drive has bad data.                                                                           | immediate  | Parity data is inconsistent. Array protection is compromised.             | —    |
| Replace the failed device immediately with 'zpool replace'. Online the device using 'zpool online' or replace the device with 'zpool replace'. | immediate  | No redundancy. Another device failure will cause data loss.               | —    |
| Check logs: kubectl logs broken-app-7b9f4c-abc12 -n default --previous                                                                         | immediate  | Application is repeatedly crashing and restarting                         | —    |
| Investigate immediately: kubectl describe deployment broken-app -n default                                                                     | immediate  | Service is completely unavailable                                         | —    |
| Check if the backup schedule is running. Verify repository connectivity and credentials.                                                       | immediate  | Backup data is stale. Recovery point objective (RPO) exceeded.            | —    |
| Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify                       | short-term | Drive health cannot be monitored — failures may go undetected             | Free |

| ACTION                                                                                                                                                           | PRIORITY   | ESTIMATED IMPACT                                              | COST                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------------|
| smartctl can access the drive directly.                                                                                                                          |            |                                                               |                       |
| Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly. | short-term | Drive health cannot be monitored — failures may go undetected | Free                  |
| Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly. | short-term | Drive health cannot be monitored — failures may go undetected | Free                  |
| Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly. | short-term | Drive health cannot be monitored — failures may go undetected | Free                  |
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| Check if the drive supports SMART passthrough. For USB drives, try enabling SAT passthrough. For HBA controllers, verify smartctl can access the drive directly. | short-term | Drive health cannot be monitored — failures may go undetected | Free                  |
| Improve case airflow. Add/replace fans. Check                                                                                                                    | short-term | Reduced drive lifespan, increased error rate                  | \$20-50 for case fans |

| ACTION                                                                           | PRIORITY    | ESTIMATED IMPACT                                              | COST                         |
|----------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|------------------------------|
| that existing fans are working.                                                  |             |                                                               |                              |
| Monitor SMART attributes closely for degradation.                                | medium-term | Possible latent damage from thermal stress                    | —                            |
| Consider adding an SSD cache for Docker containers and frequently-accessed data. | short-term  | Noticeable performance degradation during heavy disk activity | \$50-150 for SSD cache drive |
| Monitor growth rate. Plan storage expansion or cleanup.                          | short-term  | May run out of space soon if growth continues                 | —                            |
| Check events: <code>kubect! describe pod pending-job-xyz -n default</code>       | short-term  | Workload is not running — may be waiting for resources        | —                            |
| Check pod status: <code>kubect! get pods -l app=broken-app -n default</code>     | short-term  | Service may be degraded                                       | —                            |
| Check storage provisioner and available PVs                                      | short-term  | Pods depending on this PVC cannot start                       | —                            |
| Improve case airflow. Add/replace fans. Check that existing fans are working.    | medium-term | Reduced drive lifespan, increased error rate                  | \$20-50 for case fans        |
| Improve case airflow. Add/replace fans. Check that existing fans are working.    | medium-term | Reduced drive lifespan, increased error rate                  | \$20-50 for case fans        |
| Update your NAS OS when convenient. Review release notes before updating.        | medium-term | Missing security patches and bug fixes.                       | —                            |
| No action required.                                                              | medium-term | None — backup is operating normally.                          | —                            |
| No action required.                                                              | medium-term | None — backup is operating normally.                          | —                            |

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*This report was generated from a read-only diagnostic session on 14 April 2026. No changes were made to the system.*

Data sources: SMART, dmesg, syslog, /proc/meminfo, /proc/stat, docker, parity-checks.log.