

ReadyNAS 104 Maintenance

I have a few very basic questions regarding maintenance:

I have read documentation and noted various issues on this in numerous forums including [ReadyNAS OS 6: An overview of relevant scheduled maintenance tasks available](#) and would like some clarification please.

- Scrubbing
- Defragmentation
- Balancing

I am running 2 ReadyNAS104 units:

First Unit with Three 4TB Disks Raid 5 / One 4TB Disk JBOD (this JBOD is redundant data and will be Destroyed and incorporated into the RAID at some stage) - bitrot enabled.

Data: Raid 5 3.08 TB free of 7.27 TB

Second Unit with Four 4TB Disks Raid 5 - no bitrot enabled

Data: 6.89 TB free of 10.90 TB

All are showing Healthy with latest 6.9.3 Firmware

Neither of these units have been:

Scrubbed

Defragged

Balanced

I recently had a disk failure on the second unit; the disk (3) was replaced with a spare and successfully resynced (time taken - 6 Days) although the replaced disk was not the same model (Seagate Disk Model:ST4000VN000-1H4168) as the others (WD40EFRX Red). I will replace after I have these questions resolved.

This problem has motivated me to look at all these issues.

The Two questions:

Given the above data capacity how long would each of the process take to complete?

Which of the below is the most crucial and in what order should they be implemented?

- Scrubbing
- Defragmentation
- Balancing

I do use both units to access media along with document and graphic files and have noted the difference in the directory and files names and structure on media payers such as TV

and some computers to the structure and file names through ReadyNAS admin page after editing (basically tidying up the directory and file names), I believe this is also due to lack of maintenance; legacy metadata etc. I believe this also causes delayed access to files from various media players throughout my network. The network has been tested and I use Apple extreme routers with extended Apple express units (this is up for review soon).

I will download logs / diagnostics for both units and send if required.

I do know this is a little long-winded and thank you in advance.

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