

Table of Contents

Scrub Schedules	1
<i>Scrub Schedule For The Boot Device</i>	1
<i>Scub Schedule For The Volume</i>	2

Scrub Schedules

Maintaining your FreeNAS server is very important. It can be the difference between knowing your server may be developing a problem which gives you some time to take remedial action, or getting up one morning and realising your servers bust and the data has been lost.

Part of a good server maintenance routine is performing regular scrubs of the drives and periodically running SMART tests.

There are a few things you need to know before starting.

Do not schedule scrubs and SMART tests to run at the same time. This can cause the scrub to never complete.

Only one SMART test at a time can be run on the same disk. We cannot have a scenario were the Long test and the Short test are running simultaneously on the same drive.

Scrubs and SMART tests are almost pointless on SSDs (Fester does not know why. I can see why surface scans and badblocks tests would be a waste of time, but not scrubs and some types of SMART tests. If anyone knows why let me know and I will try to include it in the guide.).

When considering scrubs and SMART tests all manner of questions arise. What tests should be done? How often?

It is also immediately clear that when scheduling scrubs and SMART tests we must put some thought into this so the two do not coincide with one another.

This should help.

Scrub Schedule For The Boot Device

Go to the "System" page (1) and click on the "Boot" button (2).

System Information

Hostname	[REDACTED]	Edit
Build	FreeNAS-9.10-RELEASE (2def9c8)	
Platform	Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz	
Memory	16248MB	
System Time	[REDACTED]	
Uptime	[REDACTED]	
Load Average	0.00, 0.06, 0.13	

In the small box labelled “Automatic scrub interval (in days)” change the default value from 35 (this is too long) to 7.

Boot Volume Condition: **HEALTHY** Size: 238.0 GiB
Used: 645.7 MiB (0%)

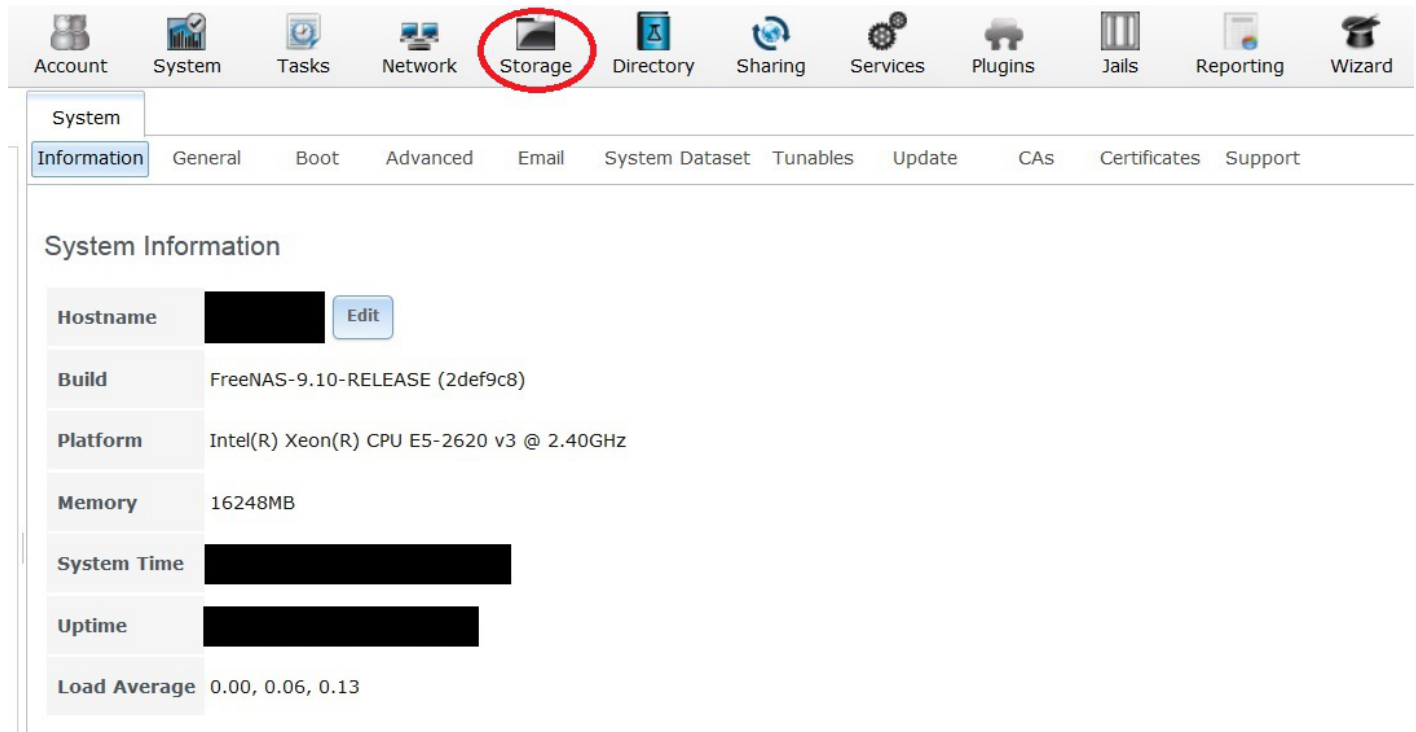
7 Automatic scrub interval (in days)

Name	Active	Created
default	On Reboot, Now	201
Initial-Install		201

That's it.

Scrub Schedule For The Volume

Go to the “Storage” page.



The screenshot shows the FreeNAS web interface. At the top, there is a navigation bar with icons for Account, System, Tasks, Network, Storage (highlighted with a red circle), Directory, Sharing, Services, Plugins, Jails, Reporting, and Wizard. Below this, the 'System' tab is selected, and the 'Information' sub-tab is active. The 'System Information' section displays various system details:

Hostname	[REDACTED]	Edit
Build	FreeNAS-9.10-RELEASE (2def9c8)	
Platform	Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz	
Memory	16248MB	
System Time	[REDACTED]	
Uptime	[REDACTED]	
Load Average	0.00, 0.06, 0.13	

Now click on the “Scrubs” button (1).

You have two choices here.

You can select the default scrub schedule (2) (it should turn blue when selected) and change it by clicking on the “Edit” button (3) and populating the settings within with new ones that will follow shortly.

Or you can delete it by clicking the “Delete” button (4) and create a new one (Fester prefers to delete and start from scratch).

Storage

Volumes Periodic Snapshot Tasks Replication Tasks **Scrubs** Snapshots VMware-Snapshot

Add Scrub

Volume	Threshold days	Description	Minute	Hour	Day of month	Month
Tank1	35		00	00	Everyday	Every

Edit Delete

If you deleted the default scrub schedule then click the “Add Scrub” button (1).

Whatever option you decided on before a window will pop up.

- Select the volume the schedule applies to from the “Volume:” drop down selection menu (2) (Fester used Tank1).
- Set the “Threshold days:” to **10** by typing it into the corresponding text box (3).
- Give the schedule a meaningful name in the “Description:” text box (4).
- Fester wants to schedule these tests to run on the 1st and 15th of every month at 02:00am in the morning (the server should not be busy at that time).
- Set “Each selected minute” to **00** (5) and “Each selected hour” to **02** (6).
- Scroll down the window.

Add Scrub 1

Volume: Tank1 (ZFS) 2

Threshold days: 10 3

Description: Give It A Good Name 4

Minute:

Every N minute Each selected minute

5 00 01 02 03 04 05 06 07 08

09 10 11 12 13 14 15 16 17

18 19 20 21 22 23 24 25 26

27 28 29 30 31 32 33 34 35

36 37 38 39 40 41 42 43 44

45 46 47 48 49 50 51 52 53

Hour:

Every N hour Each selected hour

6 00 01 02 03 04 05 06 07 08

09 10 11 12 13 14 15 16 17

18 19 20 21 22 23

In the “Each selected day of the month” box select the 1st day by clicking on **01** (7) and the 15th day by clicking on **15** (8).

Put a tick in every tick box for every month (9).

Now scroll down the window.

Account System Tasks Network

Storage

Volumes Periodic Snapshot Tasks Replica

Add Scrub

Volume	Threshold days
No entry has been found	

Day of month:

Every N day of month Each selected day of month

7 01 02 03 04 05 06 07 08 09

8 10 11 12 13 14 15 16 17 18

19 20 21 22 23 24 25 26 27

28 29 30 31

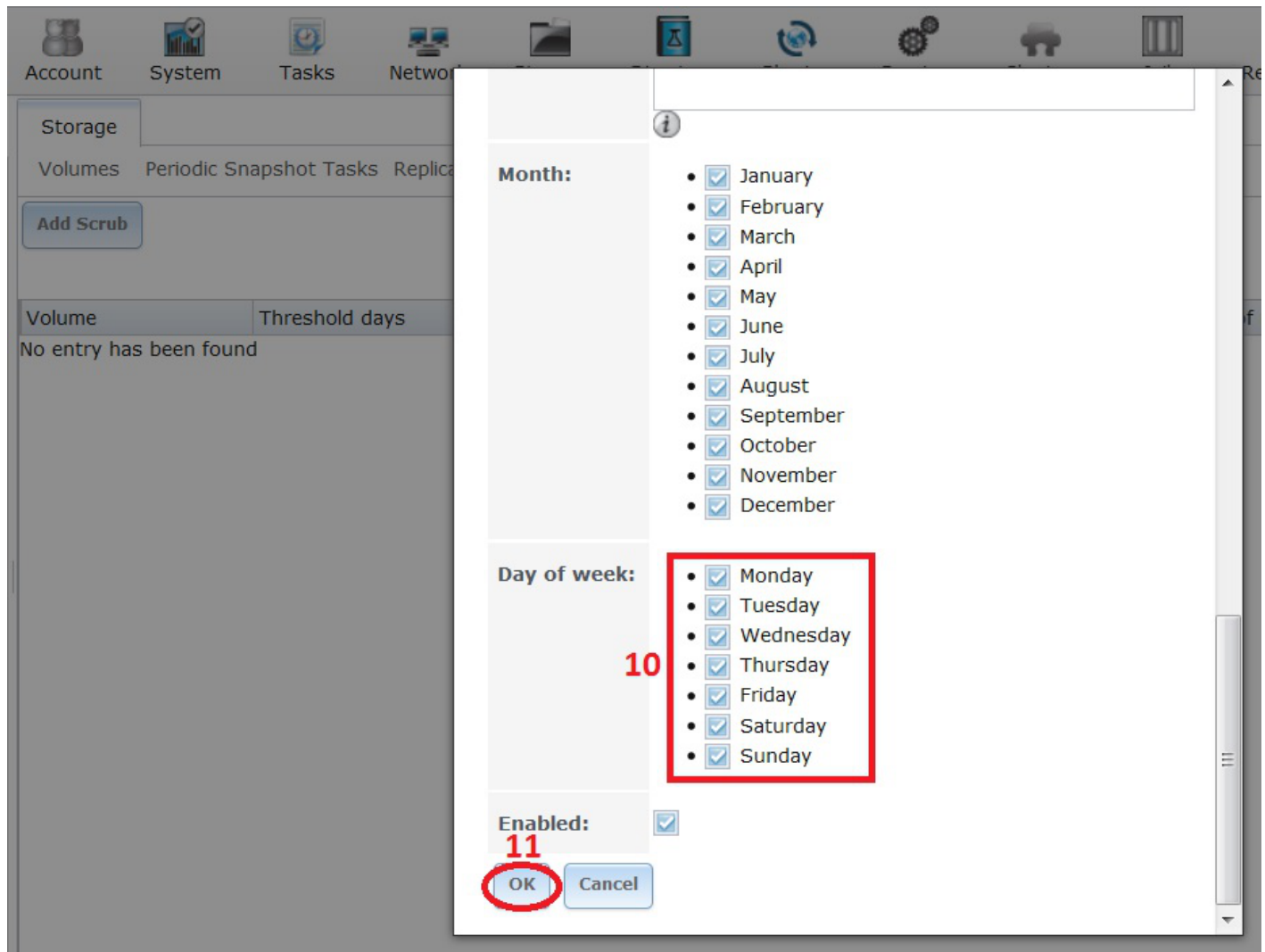
Month:

9

- ☒ January
- ☒ February
- ☒ March
- ☒ April
- ☒ May
- ☒ June
- ☒ July
- ☒ August
- ☒ September
- ☒ October
- ☒ November
- ☒ December

Put a tick in every tick box for every day of the week (10).

Now click on the "OK" button (11) to save this scrub schedule.



That's the scrub schedule set.

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