FAQ

Is it possible to use this system on another ubuntu hardware?

-Yes, but maybe FreeNas is a better option then.

How to delete snapshots:

🗐 nasbeery								
	Storage Pools					Create Storage Pool	Import Storage Pool	R
Q Search	Name	Health	Size	Allocated	Free	Fragmentation	Usage	
Überblick	√ tank	⊘ ONLINE	111 GiB	14.18 MiB	110.99 GiB	0%		
Protokolle								
Speicher	File Systems Snapshots Status							
ZFS	6.7.2020, 1:10:14 PM 174						Create Snaps	hot
Netzwerk	Name	Created	Used	Referenced		Clones		
Konten	> tank 58							
Dienste	✓ tank/share 59							
Aktualisierungen f	tank/share@zfs-auto-snap_daily-2020-06-18-0625	18.6.2020, 8:25:02 AM	72 KiB	1.49 MiB				
Anwendungen	tank/share@zfs-auto-snap_frequent-2020-07-01-1600	1.7.2020, 6:00:02 PM	72 KiB	1.49 MiB		tank/share/klon2	Clone	Snap
Terminal	tank/share@zfs-auto-snap_daily-2020-07-03-0625	3.7.2020, 8:25:02 AM	64 KiB	1.49 MiB			Renam	ne Sr
	tank/share@zfs-auto-snap_daily-2020-07-04-0625	4.7.2020, 8:25:02 AM	56 KiB	1.49 MiB			Roll Ba	ack S
	tank/share@zfs-auto-snap_hourly-2020-07-04-0817	4.7.2020, 10:17:01 AM	0 B	1.49 MiB			Destro	y Sn

How to delete all snapshots:

(Terminal)

- #zfs list -t snapshot | awk ,{printf "zfs destroy %s\n",\$1}' > snapshot_delete.sh
- #sh snapshot_delete.sh

Maintenance:

Checking system health:

🗐 nasbeery									
	Storage Pools					Create Storage Pool	Import Storage Pool	Refresh	•
Q Search	Name	Health	Size	Allocated	Free	Fragmentation	Usage		
Überblick	∽ tank	⊘ ONLINE	111 GiB	14.18 MiB	110.99 GiB	0 %			,
Protokolle									
Speicher	File Systems Snapshots Status								_
ZFS	6.7.2020, 1:10:14 PM 174						Create Snaps	hot Refres	sh
Netzwerk	Name	Created	Used	Referenced	ł	Clones			
Konten	> tank 58								
Dienste	∨ tank/share 59								
Aktualisierungen 🚯	tank/share@zfs-auto-snap_daily-2020-06-18-0625	18.6.2020, 8:25:02 AM	72 KiB	1.49 MiB					
Anwendungen	tank/share@zfs-auto-snap_frequent-2020-07-01-1600	1.7.2020, 6:00:02 PM	72 KiB	1.49 MiB		tank/share/klon2	Clone	Snapshot	
Terminal	tank/share@zfs-auto-snap_daily-2020-07-03-0625	3.7.2020, 8:25:02 AM	64 KiB	1.49 MiB			Renan	ne Snapshot	
	tank/share@zfs-auto-snap_daily-2020-07-04-0625	4.7.2020, 8:25:02 AM	56 KiB	1.49 MiB			Roll B	ick Snapshot	t
	tank/share@zfs-auto-snap_hourly-2020-07-04-0817	4.7.2020, 10:17:01 AM	0 B	1.49 MiB			Destro	y Snapshot	5

(Terminal):

- zpool status Everything should be green and ONLINE
- (By funky Hardware)

The NasBeery installer supports a 5V device on pin 8 (BCM 14) and pin6 (ground).

What we tested so far:

Buzzer LED and Wires

Just connect the actor to the pins beyond (LED short link to ground).

While booting up the system you will hear a loud sound or see the LED light. After less than a minute the actor should stop buzzing or the LED turned dark. Then your "only" tank is in healthy condition.

3v3 Power	1		0	2	5 wer
BCM 2 (SDA)	3	0	õ,	7 1	ov Power
BCM 3 (SCL)	5	0	•	6	Ground
BCM 4 (GPCLK0)	7	0	0	8	BCM 14 (TXD)
Ground	9	٠	0	_	BCM 15 (RXD)
BCM 17	11	0	•	12	M 18 (PWM
BCM 27	13	0	•	14	Grou
BCM 22	15	0	0	16	BCM 23
3v3 Power	17	0	0	18	BCM 24
BCM 10 (MOSI)	19	0	•	20	Ground
BCM 9 (MISO)	21	0	0	22	BCM 25
BCM 11 (SCLK)	23	0	•	24	BCM 8 (CEO)
Ground	25	٠	۲	26	BCM 7 (CE1)
BCM 0 (ID_SD)	27	۲	•	28	BCM 1 (ID_SC)
BCM 5	29	0	•	30	Ground
BCM 6	31	0	0	32	BCM 12 (PWM
BCM 13 (PWM1)	33	0	•	34	Ground
BCM 19 (MISO)	35	0	0	36	BCM 16
BCM 26	37	0	0	38	BCM 20 (MOS
Ground	39	•	0	40	BCM 21 (SCLK
egend			2		
GPIO (General Purpose I	0)				
SPI (Serial Peripheral Inter	face)				
I ² C (Inter-integrated Circu	it)				
LIAPT and and	new Baselow	Transe			

Checking the free space:

	Storage Pools					Create Storage Pool	Import Storage
Q Search	Name	Health	Size	Allocated	Free	Fragmentation	Usage
Überblick	> tank	⊘ ONLINE	111 GiB	14.25 MiB	110.99 GiB	0%	
Protokolle							
Speicher	> temp	⊘ ONLINE	1.81 TiB	52.16 GiB	1.76 TiB	O %	
ZFS							
Netzwork							

Terminal: #zpool list

ubunt	ubuntu@nasbeery: ~									
ubunt	u@nasbe	ery:~\$	zpool l	ist						
NAME	SIZE	ALLOC	FREE	CKPOINT	EXPANDSZ	FRAG	CAP	DEDUP	HEALTH	ALTROOT
tank	111G	14.4M	111G			0%	0%	1.00x	ONLINE	
temp	1.81T	52.2G	1.76T			0%	2%	1.00x	ONLINE	
ubunt	u@nasbe	ery:~\$								

There should always be more than 20% free space (cap below 80%) or your system will slow down, at 90% you almost can't work anymore until you delete files and destroy snapshots.

Where are the snapshots stored? / Can I put snapshots to another drive?

You are starting without any snapshots. Anytime you create a snapshot a vectorchain is creating another point. So your current live state is the chain of many vectors. The vectors can start anywhere and you always can remove vectorpoints. The gap then will be closed by the previous vector.

Example:

Mo>Tu>We>Th>Fr

now we zfs destroy the we snapshot

Mo>Tu>Th>Fr

now we zfs destroy the monday snapshot

Tu>We>Th>Fr

and the a saturday snapshot will be created

Tu>We>Th>Fr>Sa

Your current state is always at the end and you can always access any snapshot state without any effort!

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