

smartmontools



context

dit document beschrijft smartmontools, bruikbaar om je harddisk te testen

installatie

```
apt install smartmontools
```

werking

- zoek de device file van je disk (`dmesg`, `fdisk -l` of `smartctl --scan`)
- `smartctl -i /dev/sda`: basisinfo over je disk.

```
=== START OF INFORMATION SECTION ===
Model Family:      Western Digital Caviar Green (AF)
Device Model:      WDC WD15EARS-00MVB0
Serial Number:     WD-WCAZA4292482
LU WWN Device Id:  5 0014ee 2b031ec63
Firmware Version:  51.0AB51
User Capacity:     1,500,301,910,016 bytes [1.50 TB]
Sector Size:       512 bytes logical/physical
Device is:         In smartctl database [for details use: -P show]
ATA Version is:    ATA8-ACS (minor revision not indicated)
SATA Version is:   SATA 2.6, 3.0 Gb/s
Local Time is:     Fri Jan 6 22:19:08 2023 CET
SMART support is:  Available - device has SMART capability.
SMART support is:  Enabled
```

- `smartctl -a /dev/sda`: alle info en testresultaten over je disk

```
=== START OF INFORMATION SECTION ===
Model Family:      Western Digital Caviar Green (AF)
Device Model:      WDC WD15EARS-00MVB0
```

```
Serial Number:      WD-WCAZA4304219
LU WWN Device Id:  5 0014ee 25adc396d
Firmware Version:  51.0AB51
User Capacity:      1,500,301,910,016 bytes [1.50 TB]
Sector Size:        512 bytes logical/physical
Device is:          In smartctl database [for details use: -P show]
ATA Version is:     ATA8-ACS (minor revision not indicated)
SATA Version is:    SATA 2.6, 3.0 Gb/s
Local Time is:      Fri Jan  6 13:09:12 2023 CET
SMART support is:   Available - device has SMART capability.
SMART support is:   Enabled
```

=== START OF READ SMART DATA SECTION ===

SMART overall-health self-assessment test result: PASSED

General SMART Values:

Offline data collection status: (0x82) Offline data collection
activity

was completed without error.
Auto Offline Data Collection:

Enabled.

Self-test execution status: (0) The previous self-test routine
completed

without error or no self-test
has ever
been run.

Total time to complete Offline
data collection: (37080) seconds.

Offline data collection
capabilities: (0x7b) SMART execute Offline
immediate.

Auto Offline data collection
Suspend Offline collection upon
command.

on/off support.

new

Offline surface scan supported.
Self-test supported.
Conveyance Self-test supported.
Selective Self-test supported.

SMART capabilities: (0x0003) Saves SMART data before
entering

power-saving mode.
Supports SMART auto save timer.
Error logging capability: (0x01) Error logging supported.
General Purpose Logging

supported.

Short self-test routine
recommended polling time: (2) minutes.

Extended self-test routine
recommended polling time: (358) minutes.

Conveyance self-test routine

recommended polling time: (5) minutes.

SCT capabilities: (0x3035) SCT Status supported.
 SCT Feature Control supported.
 SCT Data Table supported.

SMART Attributes Data Structure revision number: 16

Vendor Specific SMART Attributes with Thresholds:

ID#	ATTRIBUTE_NAME	FLAG	VALUE	WORST	THRESH	TYPE
1	Raw_Read_Error_Rate	0x002f	200	200	051	Pre-fail
Always	-	0				
3	Spin_Up_Time	0x0027	253	165	021	Pre-fail
Always	-	1175				
4	Start_Stop_Count	0x0032	084	084	000	Old_age
Always	-	16444				
5	Reallocated_Sector_Ct	0x0033	200	200	140	Pre-fail
Always	-	0				
7	Seek_Error_Rate	0x002e	200	200	000	Old_age
Always	-	0				
9	Power_On_Hours	0x0032	067	067	000	Old_age
Always	-	24255				
10	Spin_Retry_Count	0x0032	100	100	000	Old_age
Always	-	0				
11	Calibration_Retry_Count	0x0032	100	100	000	Old_age
Always	-	0				
12	Power_Cycle_Count	0x0032	099	099	000	Old_age
Always	-	1326				
192	Power-Off_Retract_Count	0x0032	200	200	000	Old_age
Always	-	203				
193	Load_Cycle_Count	0x0032	195	195	000	Old_age
Always	-	16719				
194	Temperature_Celsius	0x0022	124	100	000	Old_age
Always	-	26				
196	Reallocated_Event_Count	0x0032	200	200	000	Old_age
Always	-	0				
197	Current_Pending_Sector	0x0032	200	195	000	Old_age
Always	-	27				
198	Offline_Uncorrectable	0x0030	200	195	000	Old_age
Offline	-	86				
199	UDMA_CRC_Error_Count	0x0032	200	200	000	Old_age
Always	-	0				
200	Multi_Zone_Error_Rate	0x0008	200	192	000	Old_age
Offline	-	108				

SMART Error Log Version: 1

No Errors Logged

SMART Self-test log structure revision number 1

Num	Test_Description	Status	Remaining
LifeTime(hours)	LBA_of_first_error		

# 1	Short offline 926949504	Completed: read failure	90%	24235
# 2	Extended offline 611103840	Completed: read failure	80%	21485
# 3	Short offline -	Completed without error	00%	21484

SMART Selective self-test log data structure revision number 1

SPAN	MIN_LBA	MAX_LBA	CURRENT_TEST_STATUS
1	0	0	Not_testing
2	0	0	Not_testing
3	0	0	Not_testing
4	0	0	Not_testing
5	0	0	Not_testing

Selective self-test flags (0x0):

After scanning selected spans, do NOT read-scan remainder of disk.
If Selective self-test is pending on power-up, resume after 0 minute delay.

meer info

[Monitoring Hard Drive Health on Linux with smartmontools](#)

[Linux](#)

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