

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-00MVWB0
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-00MVWB0
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
```

```
on/off support.
```

```
Suspend Offline collection upon
new
command.
```

```
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
UPDATED	WHEN_FAILED	RAW_VALUE				
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	Completed: read failure	90% 24235

```
926949504
# 2 Extended offline      Completed: read failure      80%      21485
611103840
# 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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