

Enable SSD Trim automatically

Continues TRIM

The real reason Ubuntu doesn't TRIM SSDs by default is because the Linux kernel's implementation of TRIM is slow and results in poor performance in normal use. Windows sends a TRIM command each time it deletes a file, telling the drive to immediately delete the bits of the file. Linux supports this when file systems are mounted with the "discard" option. However, Debian, Ubuntu — and other distributions — don't do this by default for performance reasons. Continuous TRIM is not the most preferred way to issue TRIM commands in Linux. Continuous TRIM is enabled by the discard option for a mount in /etc/fstab: enables continuous TRIM in device operations:

```
/dev/sda1  /                ext4  defaults,discard  0  1
```

Periodic trim

Copy the available templates to the systemd directory and enable and start them.

```
# cp /usr/lib/systemd/system/fstrim.{service,timer} /etc/systemd/system
# systemctl enable fstrim.timer
# systemctl start fstrim.timer
```

In case these templates are not available, see the contents below:

```
# cat fstrim.service

[Unit]
Description=Discard unused blocks on filesystems from /etc/fstab
Documentation=man:fstrim(8)

[Service]
Type=oneshot
ExecStart=/sbin/fstrim -Av
```

```
# cat fstrim.timer

[Unit]
Description=Discard unused blocks once a week
Documentation=man:fstrim

[Timer]
OnCalendar=weekly
AccuracySec=1h
Persistent=true

[Install]
```

```
WantedBy=timers.target
```

Check the status of the .timer with:

```
# systemctl list-timers
```

The output is quite useful:

EXT PASSED	UNIT	LEFT	LAST ACTIVATES
Sun 2017-12-10 00:11:06 CET 56min ago	apt-daily.timer	6h left	Sat 2017-12-09 14:48:34 CET 2h apt-daily.service
Sun 2017-12-10 06:11:27 CET ago	apt-daily-upgrade.timer	12h left	Sat 2017-12-09 06:47:46 CET 10h apt-daily-upgrade.servi
Sun 2017-12-10 16:28:34 CET 16min ago	systemd-tmpfiles-clean.timer	22h left	Sat 2017-12-09 16:28:34 CET 1h systemd-tmpfiles-clean.
Mon 2017-12-11 00:00:00 CET	fstrim.timer	1 day 6h left	n/a fstrim.service

From:

<https://wiki.oscardegroot.nl/> - HomeWiki

Permanent link:

<https://wiki.oscardegroot.nl/doku.php?id=linux:system:disk:fstrim>

Last update: **2022/01/15 11:38**

