

# Set system time automatically

## Introduction

It is possible to set and synchronize the time in Linux automatically through the systemd service. It's the successor of NTP daemon. In my network the mt-engine01.simmy.ch provides system time. Hence the device can change, I created an DNS alias ntp.simmy.ch. Using this alias allows changes of the time source without problems.

## Ubuntu 22.04 LTS

nano /etc/systemd/timesyncd.conf

```
# This file is part of systemd.
#
# systemd is free software; you can redistribute it and/or modify it under the
# terms of the GNU Lesser General Public License as published by the Free
# Software Foundation; either version 2.1 of the License, or (at your option)
# any later version.
#
# Entries in this file show the compile time defaults. Local configuration
# should be created by either modifying this file, or by creating "drop-ins" in
# the timesyncd.conf.d/ subdirectory. The latter is generally recommended.
# Defaults can be restored by simply deleting this file and all drop-ins.
#
# See timesyncd.conf(5) for details.
```

[Time]

NTP=ntp.simmy.ch

FallbackNTP=0.pool.ntp.org, 1.pool.ntp.org, 2.pool.ntp.org

```
#RootDistanceMaxSec=5
#PollIntervalMinSec=32
#PollIntervalMaxSec=2048
```

```
systemctl restart systemd-timesyncd
timedatectl timesync-status
```

```
Server: 192.168.1.74 (192.168.1.74)
Poll interval: 1min 4s (min: 32s; max 34min 8s)
Leap: normal
Version: 4
Stratum: 3
Reference: 2E8C0F6C
Precision: 1us (-24)
Root distance: 76.324ms (max: 5s)
Offset: +1.117ms
Delay: 326us
Jitter: 0
Packet count: 1
Frequency: -25.696ppm
```

# Debian 10

<https://www.digitalocean.com/community/tutorials/how-to-set-up-time-synchronization-on-debian-10>

```
apt purge ntp
apt install systemd-timesyncd
nano /etc/systemd/timesyncd.conf
```

```
# This file is part of systemd.
#
# systemd is free software; you can redistribute it and/or modify it under the
# terms of the GNU Lesser General Public License as published by the Free
# Software Foundation; either version 2.1 of the License, or (at your option)
# any later version.
#
# Entries in this file show the compile time defaults. Local configuration
```

```
# should be created by either modifying this file, or by creating "drop-ins" in
# the timesyncd.conf.d/ subdirectory. The latter is generally recommended.
# Defaults can be restored by simply deleting this file and all drop-ins.
#
# See timesyncd.conf(5) for details.
```

```
[Time]
```

```
NTP=ntp.simmy.ch
```

```
FallbackNTP=0.pool.ntp.org, 1.pool.ntp.org, 2.pool.ntp.org
```

```
#RootDistanceMaxSec=5
```

```
#PollIntervalMinSec=32
```

```
#PollIntervalMaxSec=2048
```

```
systemctl start systemd-timesyncd
```

```
systemctl status systemd-timesyncd
```

```
date
```

---

Revision #2

Created 17 December 2023 15:39:09 by Admin

Updated 22 January 2024 17:13:53 by Admin