

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 2023-12-17 15:39:09 UTC

Updated 2024-01-22 17:13:53 UTC