

NTP

The Network Time Protocol (NTP) is used to synchronize the clocks of all computers in the CPM lab.

Edit the NTP configuration `sudo nano /etc/ntp.conf` and insert your NTP server. In our case, this is:

```
pool ntp1.rwth-aachen.de iburst
pool ntp2.rwth-aachen.de iburst
```

Restart NTP using `sudo service ntp restart`.

Verify that NTP works correctly by running `ntpq -p`.

Under the st (stratum) column should be at least one "1". This indicates a successful synchronization.

```
cpm@cpm-MS-7A94:~$ ntpq -p
      remote               refid              st t when poll reach  delay  offset  jitter
=====
ntp1.rwth-aache .POOL.             16 p  -   64    0   0.000   0.000   0.000
ntp2.rwth-aache .POOL.             16 p  -   64    0   0.000   0.000   0.000
0.ubuntu.pool.n .POOL.             16 p  -   64    0   0.000   0.000   0.000
1.ubuntu.pool.n .POOL.             16 p  -   64    0   0.000   0.000   0.000
2.ubuntu.pool.n .POOL.             16 p  -   64    0   0.000   0.000   0.000
3.ubuntu.pool.n .POOL.             16 p  -   64    0   0.000   0.000   0.000
ntp.ubuntu.com .POOL.             16 p  -   64    0   0.000   0.000   0.000
*ts-1.rz.rwth-aa .GPS.              1 u 281 512 377   0.486  -1.204   0.122
+ntp2.rwth-aache .GPS.              1 u 187 512 377   0.563  -1.082   0.139
```

The website <https://time.is/> is also useful for checking the clock synchronization.