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chrony

: <http://blog.naver.com/wizardkyn/220841000603>

ntp가

```
[root@oracle ~]# systemctl status ntpd
[root@oracle ~]# systemctl stop ntpd
[root@oracle ~]# systemctl disable ntpd
[root@oracle ~]# yum remove ntp
```

chrony

- Chrony Daemon

```
[root@oracle ~]# yum install chrony
```

- Setting (: <http://www.pool.ntp.org/zone/kr>)

NTP

```
[root@oracle ~]# vi /etc/chrony.conf
```

```
#
#server 0.rhel.pool.ntp.org iburst
#server 1.rhel.pool.ntp.org iburst
#server 2.rhel.pool.ntp.org iburst
#server 3.rhel.pool.ntp.org iburst
```

```
#
server 0.kr.pool.ntp.org iburst
server 3.asia.pool.ntp.org iburst
server 1.asia.pool.ntp.org iburst
```

```
#
allow 192.168.110.0/24
```

```
#
# : server 192.168.110.141
```

- (Network Time Protocol UDP 123)

```
[root@oracle ~]# firewall-cmd --add-service=ntp --permanent
[root@oracle ~]# firewall-cmd --reload
```

- Chrony Daemon

```
[root@oracle ~]# systemctl start chronyd
[root@oracle ~]# systemctl enable chronyd
```

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```
[root@oracle ~]# chronyc tracking
Reference ID      : 114.207.245.166 (114.207.245.166)
Stratum          : 3
Ref time (UTC)   : Thu Oct 20 04:34:47 2016
System time      : 0.000196030 seconds slow of NTP time
Last offset      : -0.000104899 seconds
RMS offset       : 0.000373706 seconds
Frequency        : 2485.827 ppm slow
Residual freq    : -0.025 ppm
Skew             : 0.807 ppm
Root delay       : 0.016909 seconds
Root dispersion  : 0.012794 seconds
Update interval  : 128.7 seconds
Leap status      : Normal
```

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```
[root@oracle ~]# chronyc sources
210 Number of sources = 3
MS Name/IP address      Stratum Poll Reach LastRx Last sample
=====
===
^* 114.207.245.166      2  8  377  396  +192us[ +87us] +/-
26ms
^+ 168.63.242.24       2  8  377  137  -2096us[-2096us] +/-
76ms
^- y.ns.gin.ntt.net    2  8  221  134  -1266us[-1266us] +/-
130ms
```

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```
[root@oracle ~]# chronyc tracking
Reference ID      : 192.168.110.141 (192.168.110.141)
Stratum          : 4
Ref time (UTC)   : Thu Oct 20 04:53:31 2016
System time      : 0.000115289 seconds fast of NTP time
```

```

Last offset      : +0.000169455 seconds
RMS offset      : 0.000108872 seconds
Frequency       : 2486.154 ppm slow
Residual freq   : +0.155 ppm
Skew            : 1.359 ppm
Root delay      : 0.017371 seconds
Root dispersion : 0.013022 seconds
Update interval : 64.7 seconds
Leap status     : Normal

```

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```

[root@oracle ~]# chronyc sources
210 Number of sources = 1
MS Name/IP address          Stratum Poll Reach LastRx Last sample
=====
===
^* 192.168.110.141          3      6    377    31  -6455ns[ +163us] +/-
22ms

```

(/etc/chrony.conf)

(server 192.168.110.141)

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```

[root@oracle ~]# chronyc -a makestep
200 OK
200 OK

```

- https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/7/html/System_Administrators_Guide/ch-Configuring_NTP_Using_the_chrony_Suite.html

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