

chrony 3
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chrony 3
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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 1.kr.pool.ntp.org
server 0.asia.pool.ntp.org
server 2.asia.pool.ntp.org
```

```
#
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
```

-

```
[root@oracle ~]# chronyc sources  
210 Number of sources = 3  
MS Name/IP address                Stratum Poll Reach LastRx Last sample  
=====
```

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)

•

```

[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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