

ubuntu18.04??ntp

????????????????NTP??

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NTP????

- server-1???? → ????? NTP Server
- server-2???? → server-1???? NTP Client

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??? server-1 ?????? NTP ????

1. ?? NTP ??

```
sudo apt update
sudo apt install ntp
```

2. ??????

??

```
sudo vim /etc/ntp.conf
```

????????

```
server 0.ubuntu.pool.ntp.org iburst
server 1.ubuntu.pool.ntp.org iburst
server 2.ubuntu.pool.ntp.org iburst
```

3. ???? client?server-2???

????

2. ???????

```
sudo vim /etc/ntp.conf
```

```
server
```

```
# server 0.ubuntu.pool.ntp.org iburst  
# server 1.ubuntu.pool.ntp.org iburst
```

```
server-1
```

```
server 192.168.1.10 iburst
```

```
server-1 IP
```

3. ?????

```
sudo systemctl restart ntp
```

4. ???????

```
ntpq -p
```

```
*192.168.1.10
```

????????????

1. ?? server-1 ??????????????????????

```
server-1 /etc/ntp.conf
```

```
local stratum 10
```


ntp libopts25 ntp.deb

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- A Ubuntu 18.04/
- B ntp
- U scp A B

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apt-get download --print-deps

1.

```
mkdir ~/ntp-offline-packages
cd ~/ntp-offline-packages
```

2. ntp

amd64 .deb

```
#
apt-get download $(apt-cache depends --recurse --no-recommends --no-suggests --no-conflicts --no-breaks --no-replaces --no-enhances ntp | grep "^\w")
```

- apt-cache depends ... ntp
- grep "^\w"
- apt-get download .deb

3.

.deb

```
ls -lh *.deb
```

ntp_*.deb, libopts25_*.deb, libedit2_*.deb

5-10

4.

```
cd ..
tar -czvf ntp-offline.tar.gz ntp-offline-packages
```


