

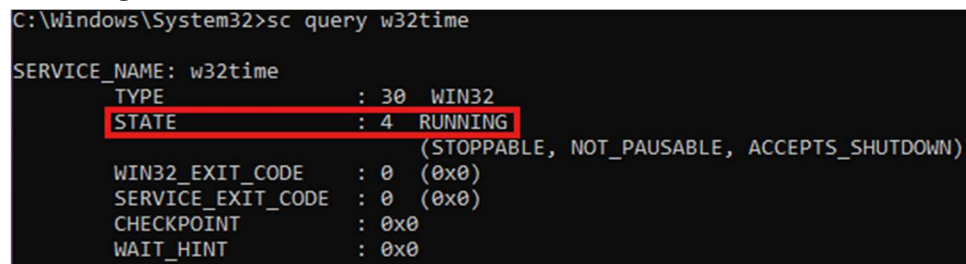
# Windows 11 : Configuration and Activation of NTP Servers and NTP Pools

## 1. Open Command Prompt as an administrator :

- Click on the **Windows search bar** or the **Start menu** and type « **cmd** ».
- Right-click on **Command Prompt** and select **Run as administrator**.

## 2. Check the status of the Windows Time service:

- Type the following command :  
**sc query w32time**
- Check its current status. If the service is running, you will see something like « **STATE : 1 RUNNING** ». If the service is stopped, you will see something like « **STATE : 1 STOPPED** ».



```
C:\Windows\System32>sc query w32time

SERVICE_NAME: w32time
        TYPE               : 30        WIN32
        STATE                : 4          RUNNING
                                (STOPPABLE, NOT_PAUSABLE, ACCEPTS_SHUTDOWN)
        WIN32_EXIT_CODE      : 0          (0x0)
        SERVICE_EXIT_CODE   : 0          (0x0)
        CHECKPOINT           : 0x0
        WAIT_HINT            : 0x0
```

- If the service is stopped, proceed to **step 3**. If the service is running, skip to **step 4**.

## 3. If the service is stopped:

- Type the following command in a single line and press **Enter** on your keyboard :

**net start w32time**

#### 4. How to configure a specific NTP server :

- Perform a search using a search engine like Google to find the list of NTP servers in your region. For Canada, you can find NTP servers and NTP pools at the following addresses:

[Canadian NTP Servers](#)

[NTP Pool Project](#)

- Type the following command in a single line and press **Enter** on your keyboard :

```
w32tm /config /manualpeerlist:serveur1 /syncfromflags:manual /reliable:YES /update
```

If you have multiple servers, use the format :

« **manualpeerlist:"SERVEUR1,SERVEUR2"** », and so on.

*Here's an example written as a single command line :*

```
w32tm /config /manualpeerlist:"time.nrc.ca,time.chu.nrc.ca,0.ca.pool.ntp.org,1.ca.pool.ntp.org,2.ca.pool.ntp.org,3.ca.pool.ntp.org" /syncfromflags:manual /reliable:YES /update
```

- You will see a confirmation message stating that the command was executed successfully.».

```
C:\Windows\System32>w32tm /config /manualpeerlist:"time.nrc.ca,time.chu.nrc.ca,0.ca.pool.ntp.org,1.ca.pool.ntp.org,2.ca.pool.ntp.org,3.ca.pool.ntp.org" /syncfromflags:manual /reliable:YES /update
La commande s'est terminée correctement.
```

#### 5. Force synchronization:

- Type the following command in a single line and press **Enter** on your keyboard :

```
w32tm /resync
```

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## 6. Verify the configuration:

- Type the following command in a single line and press **Enter** on your keyboard :  
**w32tm /query /status**
- You should see something like the following displayed on your screen :

```
C:\Windows\System32>w32tm /query /status
Indicateur de dérive : 0(Aucun avertissement)
Couche : 3 (Référence secondaire, synchronisée par (S)NTP)
Précision : -23 (119.209ns par battement)
Délai de racine : 0.0083213s
Dispersion de racine : 7.7661463s
ID de référence : 0x84F60BE3 (IP de la source : 132.246.11.227)
Heure de la dernière synchronisation réussie : 2025-03-14 11:38:16
Source : time.nrc.ca,time.chu.nrc.ca,0.ca.pool.ntp.org,1.ca.pool.ntp.org,2.ca.pool.ntp.org,3.ca.pool.ntp.org
Intervalle d'interrogation : 10 (1024s)
```

## 7. Verify the configuration in Windows 11 :

- Press **Win+I** keys simultaneously on your keyboard



- In the left panel, click on « **Time & Language** »
- In the right panel, click on « **Date & Time** »
- Next to **Set time zone automatically**, ensure the toggle switch is set to « **On** »
- Next to **Set time automatically**, ensure the toggle switch is also set to « **On** »