Configure NTP Server in AD

Option 1 - Via GPO

Setup GPO for NTP Server and apply it to the Domain Controller.

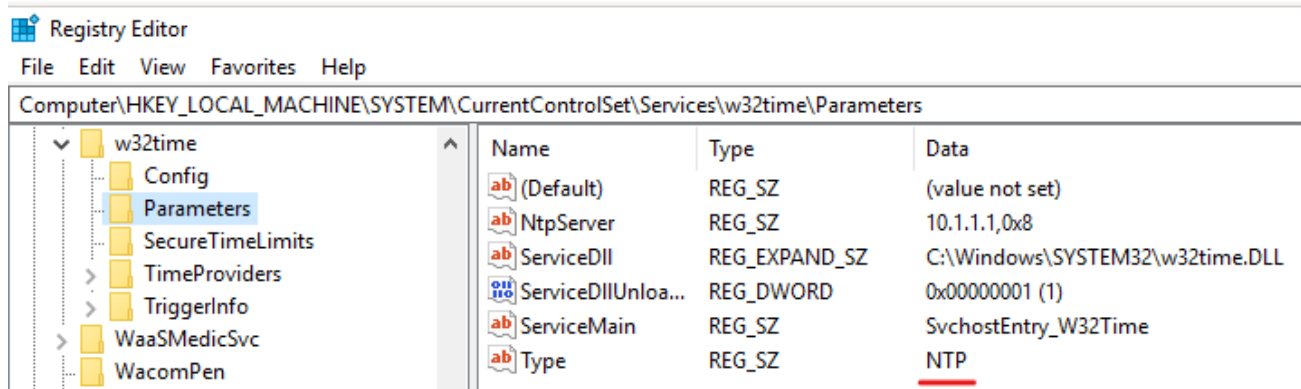Setup GPO for NTP Client for Member Server

| Computer Configuration (Enabled) | | | hide |

Policies — hide

Administrative Templates — hide

Policy definitions (ADMX files) retrieved from the local computer.

System/Windows Time Service/Time Providers — hide

Policy	Setting	Comment
Configure Windows NTP Client	Enabled	

NtpServer		lab-dc1.homelab.local
Type		NTP
CrossSiteSyncFlags		2
ResolvePeerBackoffMinutes		15
ResolvePeerBackoffMaxTimes		7
SpecialPollInterval		1024
EventLogFlags		0

Policy	Setting	Comment
Enable Windows NTP Client	Enabled	

Option 2 - Manually via Regedit

Enable NTP Server in Domain Controller.

1. Change the server type to NTP. To do this, follow these steps:
   1. Select **Start** > **Run**, type *regedit*, and then select **OK**.
   2. Locate and then select the following registry subkey:
      `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Parameters`
   3. In the pane on the right, right-click **Type**, and then select **Modify**.
   4. In **Edit Value**, type *NTP* in the **Value data** box, and then select **OK**.
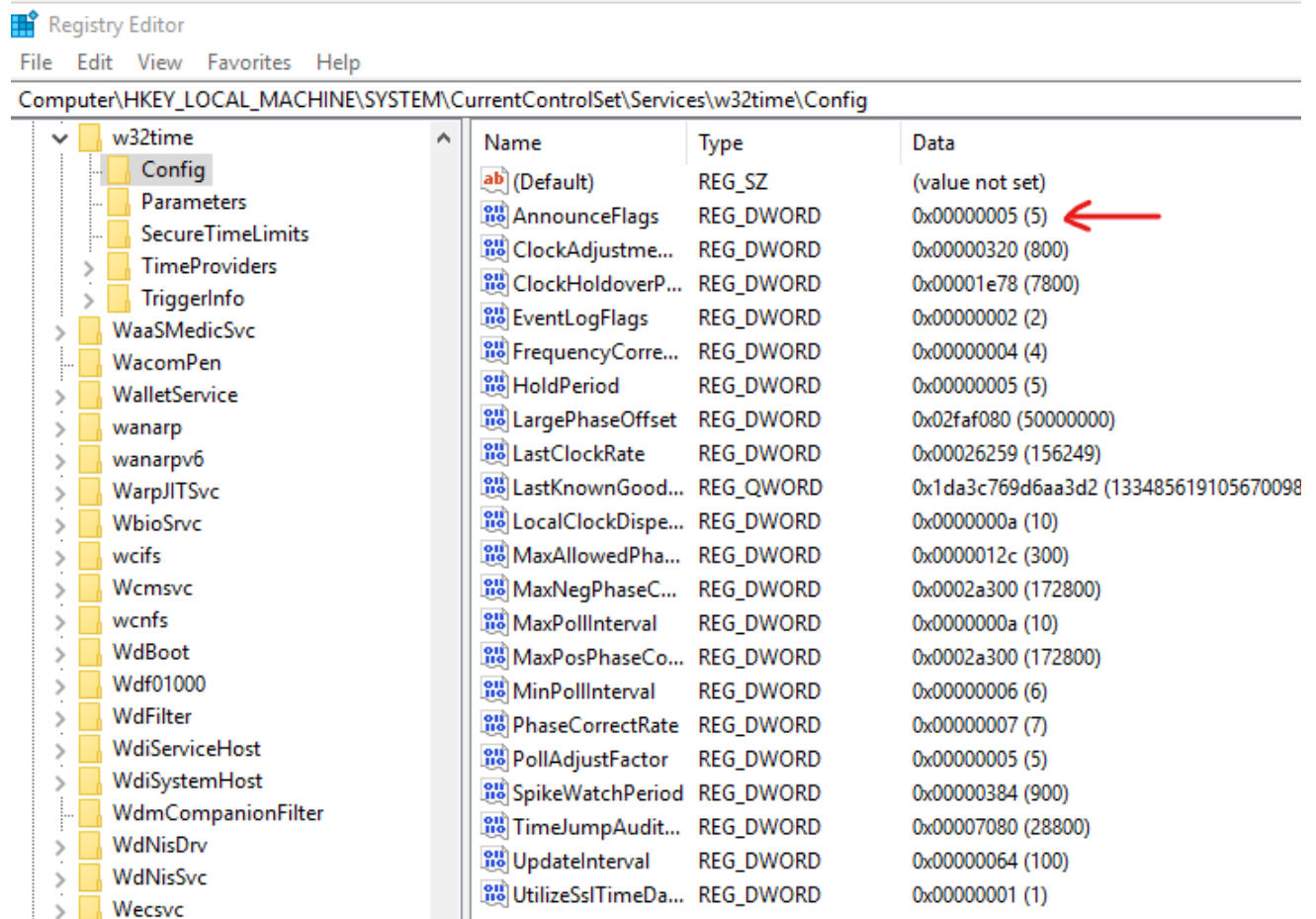   5. Example:

2. Set `AnnounceFlags` to 5. To do this, follow these steps:
   1. Locate and then select the following registry subkey:
      `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Config`
   2. In the pane on the right, right-click **AnnounceFlags**, and then select **Modify**.

3. In **Edit DWORD Value**, type *5* in the **Value data** box, and then select **OK**.
4. Example:

3. Enable NTPServer. To do this, follow these steps:
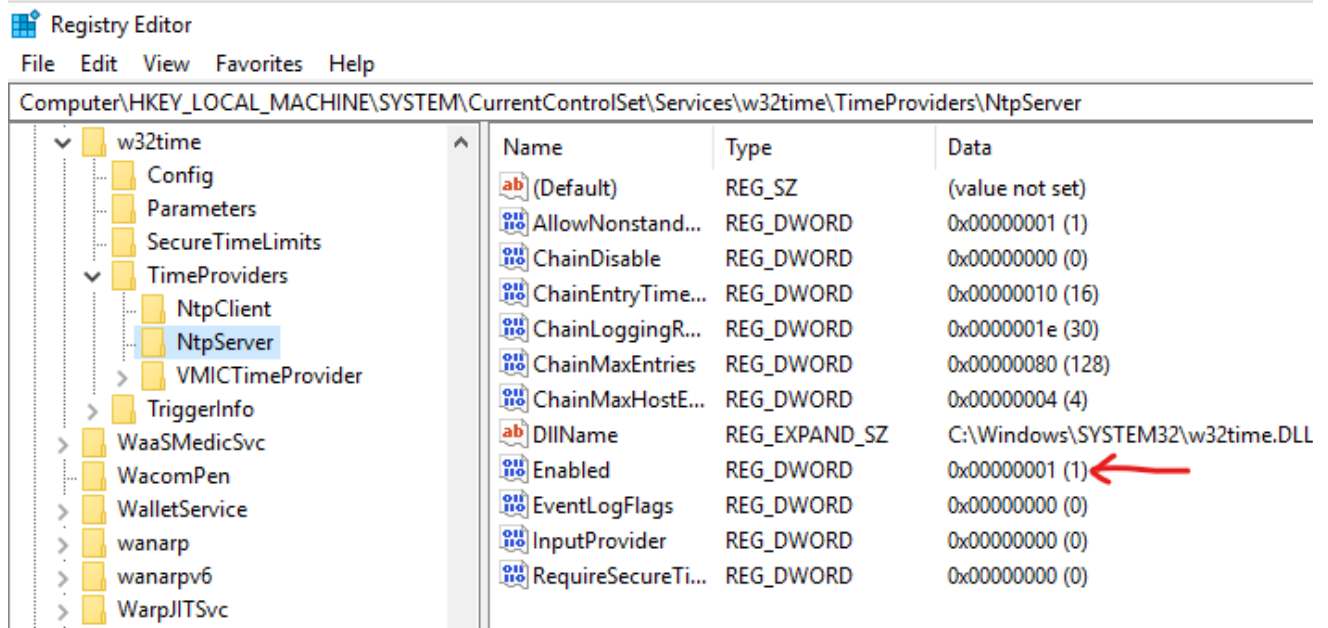   1. Locate and then select the following registry subkey:

       HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\TimeProviders\NtpServer

    2. In the pane on the right, right-click **Enabled**, and then select **Modify**.
    3. In **Edit DWORD Value**, type *1* in the **Value data** box, and then select **OK**.
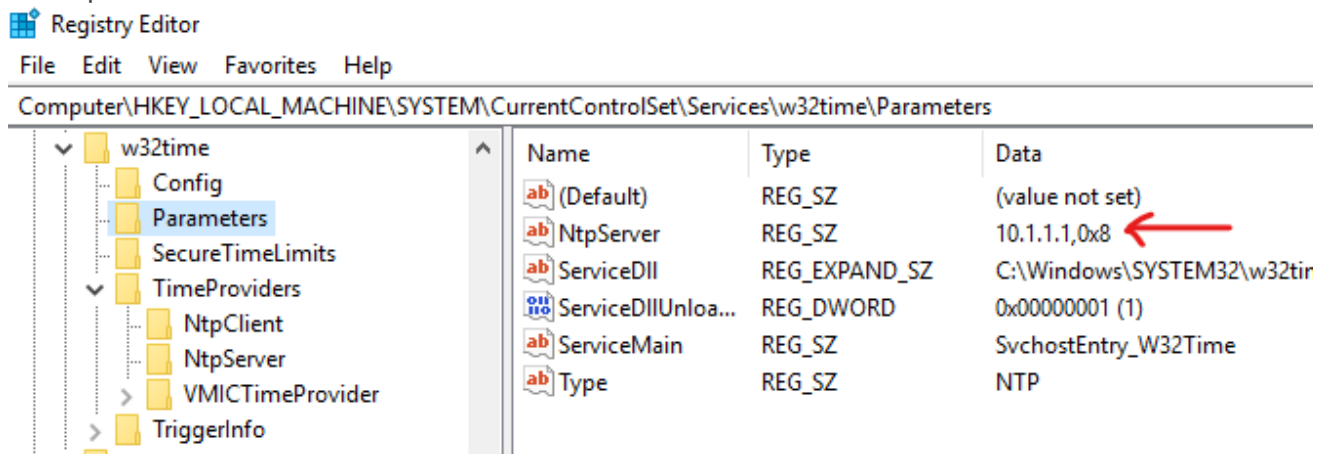
4. Example:

4. Specify the time sources. To do this, follow these steps:
   1. Locate and then click the following registry subkey:

      HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Parameters

   2. In the pane on the right, right-click **NtpServer**, and then select **Modify**.
   3. In **Edit Value**, type *Peers* in the **Value data** box, and then select **OK**.
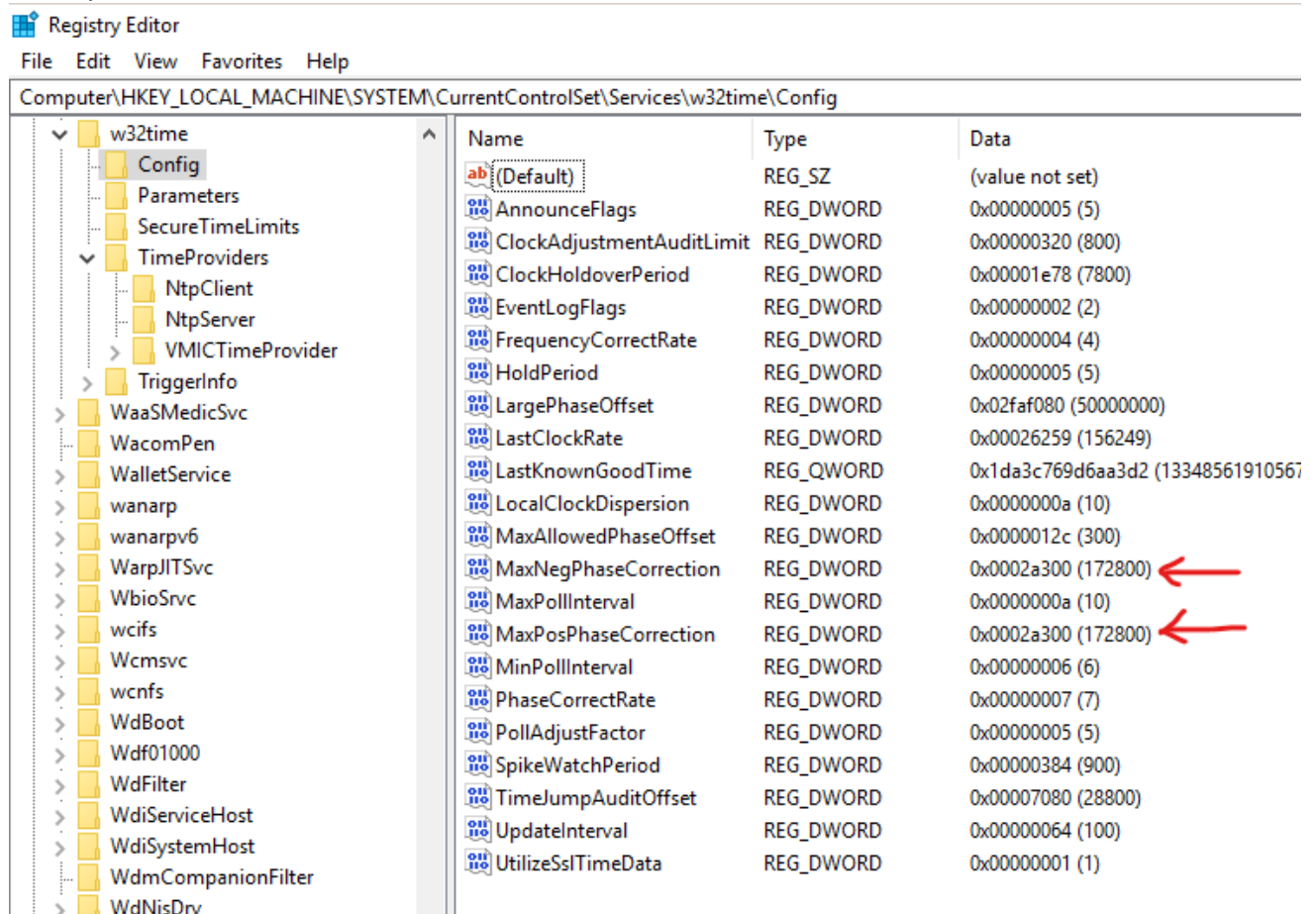   4. Example:

5. Configure the time correction settings. To do this, follow these steps:
   1. Locate and then click the following registry subkey:

      HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Config

   2. In the pane on the right, right-click **MaxPosPhaseCorrection**, and then select **Modify**.
   3. In **Edit DWORD Value**, click to select **Decimal** in the **Base** box.
   4. In **Edit DWORD Value**, type *TimeInSeconds* in the **Value data** box, and then select **OK**.
   5. Locate and then click the following registry subkey:

      HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Config

   6. In the pane on the right, right-click **MaxNegPhaseCorrection**, and then select **Modify**.

7. In **Edit DWORD Value**, click to select **Decimal** in the **Base** box.
8. In **Edit DWORD Value**, type *TimeInSeconds* in the **Value data** box, and then select **OK**.
9. Example:

6. Close Registry Editor.
7. At the command prompt, type the following command to restart the Windows Time service, and then press Enter:

```
net stop w32time && net start w32time
```

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