

# Synchronize the system time across the cluster

ONTAP 9

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### Synchronize the system time across the cluster

Synchronizing the time ensures that every node in the cluster has the same time, and prevents CIFS and Kerberos failures.

A Network Time Protocol (NTP) server should be set up at your site. Beginning in ONTAP 9.5, you can set up your NTP server with symmetric authentication. For more information, see Managing the cluster time (cluster administrators only).

You synchronize the time across the cluster by associating the cluster with one or more NTP servers.

1. Verify that the system time and time zone is set correctly for each node.

All nodes in the cluster should be set to the same time zone.

a. Use the cluster date show command to display the current date, time, and time zone for each node.

b. Use the cluster date modify command to change the date or time zone for all of the nodes.

This example changes the time zone for the cluster to be GMT:

```
cluster1::> cluster date modify -timezone GMT
```

- 2. Use the cluster time-service ntp server create command to associate the cluster with your NTP server.
  - To set up your NTP server without symmetric authentication enter the following command: cluster time-service ntp server create -server server name
  - To set up your NTP server with symmetric authentication, enter the following command: cluster time-service ntp server create -server server ip address -key-id key id



Symmetric authentication is available beginning in ONTAP 9.5. It is not available in ONTAP 9.4 or earlier.

This example assumes that DNS has been configured for the cluster. If you have not configured DNS, you must specify the IP address of the NTP server:

```
cluster1::> cluster time-service ntp server create -server
ntp1.example.com
```

3. Verify that the cluster is associated with an NTP server: cluster time-service ntp server show

```
cluster1::> cluster time-service ntp server show

Server Version

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ntp1.example.com auto
```

#### **Related information**

System administration

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