

# Configuration NTP

## Network Time Protocol

### Introduction

Pour effectuer une synchronisation NTP, il faut tout d'abord que le switch puisse aller sur internet

```
-> ip interface "vlan1" address 192.168.10.100 mask 255.255.255.0 vlan 1 ifindex 1
-> ip static-route 0.0.0.0/0 gateway 192.168.10.1 metric 1
```

### Passons à la configuration du NTP

```
-> ntp server 194.2.0.28 prefer
-> ntp server 38.229.59.9
-> ntp server enable
-> ntp server synchronised
```

### Configuration de la timezone

```
-> system timezone CET
-> system daylight-savings-time start last sunday in march at 02:00 end last sunday in october at 03:00
-> system daylight-savings-time enable
```

### Vérification

```
-> show ntp server status
IP address      = 38.229.59.9,
Host mode       = client,
Peer mode       = server,
Prefer          = yes,
Version         = 4,
Key             = 0,
Stratum         = 2,
Minpoll         = 6 (64 seconds),
Maxpoll         = 10 (1024 seconds),
Delay           = 0.167 seconds,
```

Offset = 660733522.277 seconds,  
Dispersion = 0.953 seconds  
Root distance = 0.083,  
Precision = -20,  
Reference IP = 172.16.21.35,  
Status = configured : reachable : rejected,  
Uptime count = 1402 seconds,  
Reachability = f,  
Unreachable count = 0,  
Stats reset count = 1043 seconds,  
Packets sent = 6,  
Packets received = 4,  
Duplicate packets = 0,  
Bogus origin = 0,  
Bad authentication = 0,  
Bad dispersion = 0,  
Last Event = peer changed to reachable,

IP address = 194.2.0.28,  
Host mode = client,  
Peer mode = server,  
Prefer = no,  
Version = 4,  
Key = 0,  
Stratum = 2,  
Minpoll = 6 (64 seconds),  
Maxpoll = 10 (1024 seconds),  
Delay = 0.017 seconds,  
Offset = 660733522.272 seconds,  
Dispersion = 1.952 seconds  
Root distance = 0.000,  
Precision = -23,  
Reference IP = 172.19.123.3,  
Status = configured : reachable : rejected,  
Uptime count = 1402 seconds,  
Reachability = 7,  
Unreachable count = 0,  
Stats reset count = 1261 seconds,  
Packets sent = 3,

```
Packets received = 3,  
Duplicate packets = 0,  
Bogus origin = 0,  
Bad authentication = 0,  
Bad dispersion = 0,  
Last Event = peer changed to reachable,
```

et

```
-> show ntp client  
Current time: Wed, Dec 8 2021 9:47:58.667 (UTC),  
Last NTP update: Wed, Dec 8 2021 9:47:28.033 (UTC),  
Server reference: 38.229.59.9,  
Client mode: enabled,  
Broadcast client mode: disabled,  
Broadcast delay (microseconds): 4000,  
Server qualification: synchronized
```

## Il est aussi possible de régler l'heure et la date à la main

```
-> system date 08/12/2021  
-> system time 10:48:00
```

## Supprimer un serveur NTP :

```
-> no ntp server 194.2.0.28 prefer
```

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Revision #1

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