

# اهحالص او اهئااطخأ فاشكتسا او NTP نيوكت IM&P و CUCM ىلع

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## عمدقمل

نم (CUCM) ةدجوملا تالاصتالا ريديل (NTP) ةكبشلا تقولوكوتورب دنتسملا اذه فصوي  
Cisco.

## قيساسأل تابلطتم

### تابلطتم

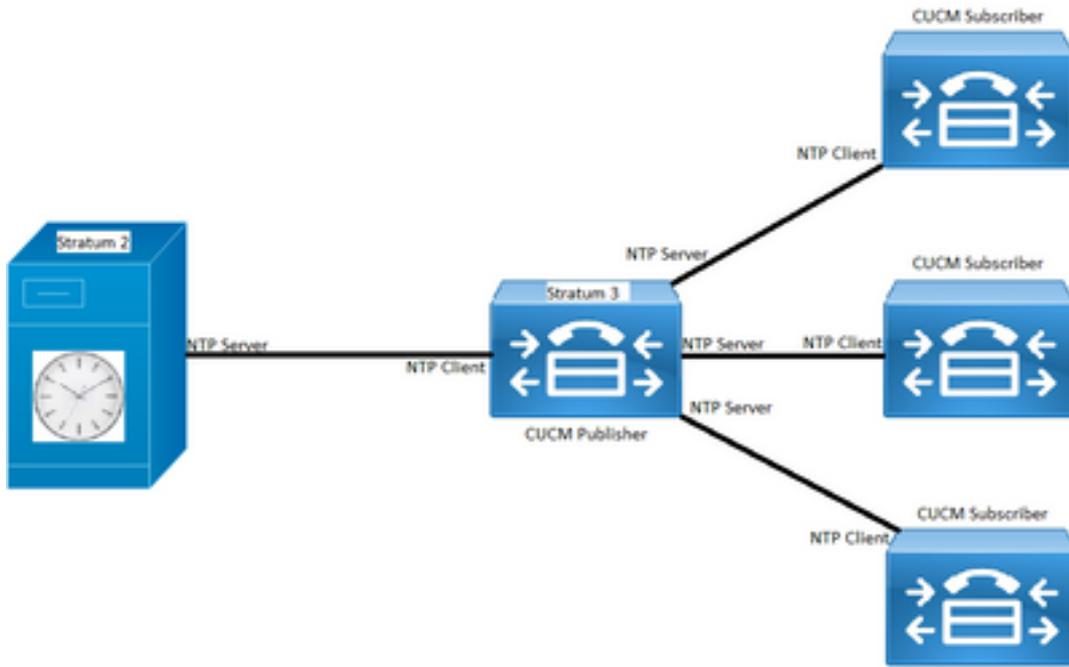
دنتسملا اذهل ةصاخ تابلطتم دجوت ال

### عمدختسملا تانوكملا

ةنيعم ةيدام تانوكموجمارب تارادصا ىلع دنتسملا اذه رصتقي ال

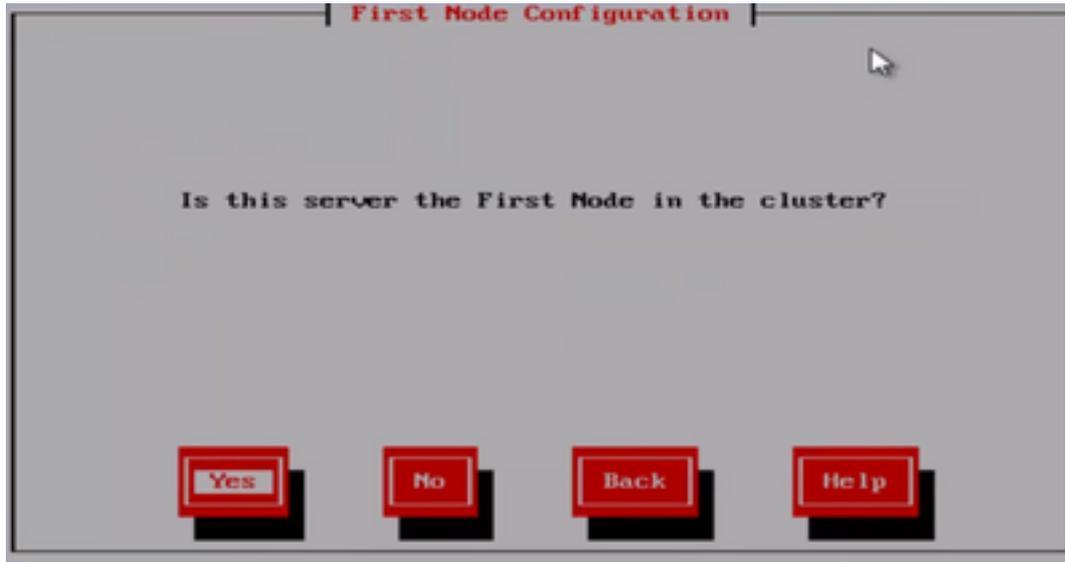
ةصاخ ةيلمعم ةئيبي ف ةدجوملا ةزهجال نم دنتسملا اذه في ةدراولا تامولعمل عاشنإ مت  
تناك اذإ. (يضا رتفا) حوسمم نيوكتب دنتسملا اذه في عمدختسملا ةزهجال عمجت ادب  
رمايال لم تحملا ريثاتلل كمهف نم دكأتف، ليغشنتلا ديقتك بش



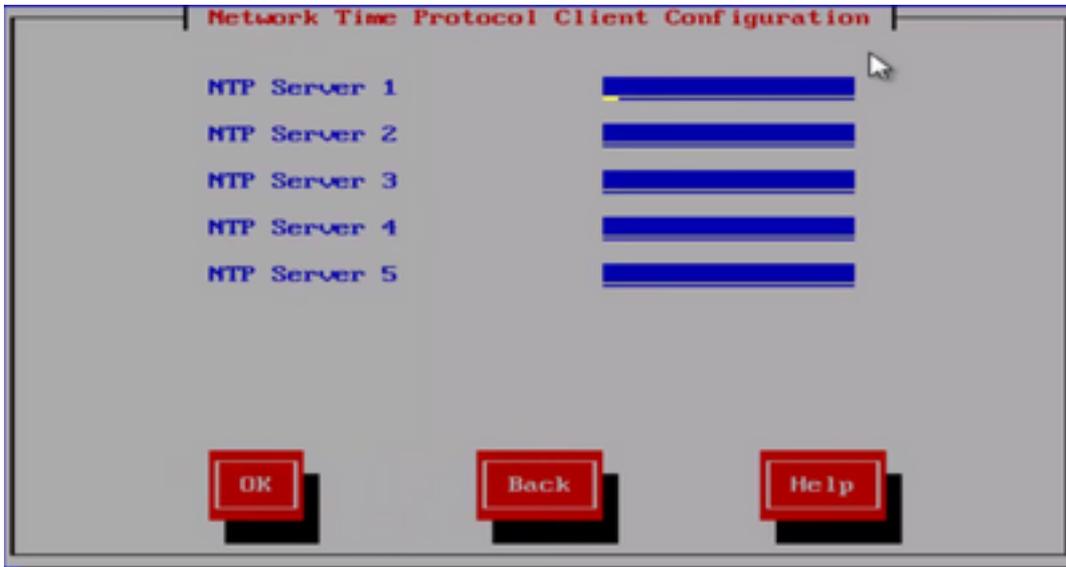


## تثبيت الة ل مع

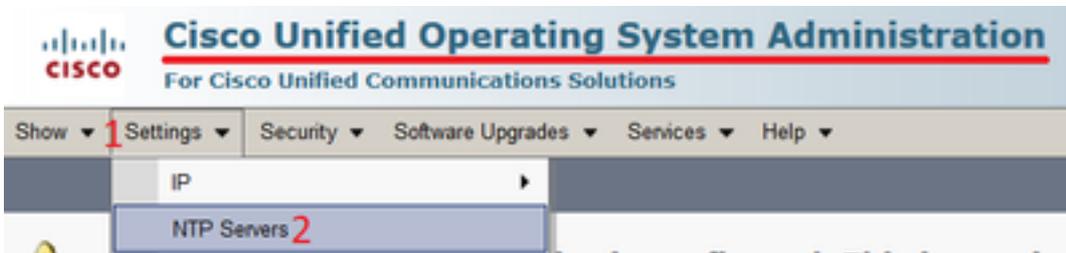
ماظن يف لوالا ةدقعال وه مداخلال ناك اذا ام ديحتل ةبلاطم كانه، CUCM، تثبيت دنع ةومجال.



لحرم دعب تثبيتال جلاعم لقتني، ةومجال ماظن يف لوالا ةدقعال وه مداخلال نكي مل اذا ماظن يف لوالا ةدقعال يه تناك اذا NTP (مداوخ) مداخل كتبلاطم متي، كلذعمو، NTP نيوكت ةومجال.



لڤيغشتلا ماظن لوؤس م ب ةصاخلا بيولا ةحفص مدختسأ ، تيبتتلا دعب



رم اوألا رطس ةهجاو مدختسأ ، تيبتتلا دعب

NTP مداوخ ىلإ لوصول ةمدختس م لما رم اوألا ىلع روثعلا كنكمي ، روصلال ي ف حضوم وه امك CUCM. مداوخ لخاد اهليدعتو

- ك ب صاخلا ماظنلا ىلع اهنيوكت مت يتلا NTP مداوخ NTP مداوخ ةمئاق رمألا ضرعت .

```
admin:utils ntp server list
192.0.2.202
192.0.2.125
admin:
```

- ماظنلا ىلإ دي دج NTP مداوخ NTP\_ADDRESS مداوخ ىلإ رمألا فيضي .

```
admin:utils ntp server add 192.0.2.125
72.163.32.44 : added successfully.
Restarting NTP on the server.
admin:
```

لوصول ةينكم ا CUCM مداوخ ربتخي ، دي دج NTP مداوخ ةفاضل تدرا اذا هنا ركذت : ةظحالم يلاتلا أطخل رهظي ، لش ف اذوا ، هتفاضل لبق

```
admin:utils ntp server add 191.0.2.81
191.0.2.81 : [ Inaccessible NTP server. Not added. ]
```

- لعفلاب اهنيوكت مت يتل NTP طاقن نم يا فذح ب كل NTP مداخ فذح بلطتي رمألا حمسي ماطنلا لخاد.

```
admin:utils ntp server delete
1: 192.0.2.202
2: 192.0.2.125
a: all
q: quit

Choice: 2

Restart NTP (y/n): y

72.163.32.44 will be deleted from the list of configured NTP servers.
Continue (y/n)?y

72.163.32.44 : deleted successfully.
Restarting NTP on the server.
```

## اهحالصإو ااطخألا فاشكتسا

### اهعيمجت بولطملا تانايا بل

مداخ يا نم تانايا بل هذه عمج بلطت تنأف، اهاحالصإو NTP ااطخأ فاشكتسا ب موقت ام دنع NTP لكاشم هي دل CUCM (مداوخ):

- رمألا صيخشت رابتخا نم تاجرخملا
- ثالثل تاونس لل (NTP) ةكبشلا تقو لوكوتورب ةلاح نم جارخإلا
- Cisco نم (RTMT) يلعلال تقولا ةبقارم ةأا نم اهعيمجت مت يتل CUCM نم NTP تالچس

### لاثلل ليلاحت

NTP و CUCM رشان نم ةيلال تامولعمل مادختسا مت، لاثلل ليلاحت

#### CUCM رشان

رادصإلا: 11.5(1) SU5

FQDN: CUCM-115.home.lab

IP ناووع أدبي 192.X.X ب

#### NTP

رفريس يب يت نا لچوج نم

FQDN: time1.example.com.ntp

IP ناووع أدبي 216.X.X ب

## فلم دجوي ال - CUCM ل PCAP ةعجرام

صنلا عبرم يف رمأل نم جاتنإلا يف NTP ل ذفنملا وه اذه 123 وه ذفنملا مقرر نأ ظالحا،  
رشانلا ةظحالم اضيأ كنكمي "NTPv4" ةطساوب ظحالم وه امك 4 وه NTP رادصا ىرت نأ كنكمي  
مداخك لمعي هنإف، كلذ عمو؛ "time1.example.com" ب هلاصتإ سسؤي امذن ع ليمعك لمعي يذلا  
CUCM-sub1 و CUCM-sub2 و CUCM-sub3 عم لاصتالا سسؤي امذن ع

From the CLI of the publisher run the command **"utils network capture port 123"**

Wait until you see traffic (this can take a little time, or it may be instant) then hit ctrl+c. Look in the traffic to find where your publisher is communicating with its NTP server and the NTP server is communication with the publisher (if the NTP server isn't replying then it is an issue in the network or with the NTP server). The primary focus of this output is the NTP version. In CUCM 9 and later NTP version 3 (NTPv3) can cause issues and an NTP source using NTPv4 should be the NTP server for the publisher.

```
admin:utils network capture size all count 10000000 port 123
```

Executing command with options:

```
size=128 count=1000 interface=eth0
src=dest= port=123
ip=
```

```
16:08:43.199710 IP cucm-sub3.home.lab.39417 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:08:43.199737 IP cucm-115.home.lab.ntp > cucm-sub3.home.lab.39417: NTPv4, Server, length 48
16:08:43.199823 IP cucm-sub3.home.lab.39417 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:08:43.199859 IP cucm-115.home.lab.ntp > cucm-sub3.home.lab.39417: NTPv4, Server, length 48
16:09:01.640980 IP cucm-115.home.lab.50141 > time1.example.com.ntp: NTPv4, Client, length 48
16:09:01.654675 IP time1.example.com.ntp > cucm-115.home.lab.50141: NTPv4, Server, length 48
16:09:01.654733 IP cucm-115.home.lab.50141 > time1.example.com.ntp: NTPv4, Client, length 48
16:09:01.667368 IP time1.example.com.ntp > cucm-115.home.lab.50141: NTPv4, Server, length 48
16:09:01.668612 IP cucm-115.home.lab.50141 > time1.example.com.ntp: NTPv4, Client, length 48
16:09:01.681366 IP time1.example.com.ntp > cucm-115.home.lab.50141: NTPv4, Server, length 48
16:09:01.681518 IP cucm-115.home.lab.50141 > time1.google.com.ntp: NTPv4, Client, length 48
16:09:01.694108 IP time1.google.com.ntp > cucm-115.home.lab.50141: NTPv4, Server, length 48
16:09:01.875016 IP cucm-115.home.lab.48422 > time1.google.com.ntp: NTPv4, Client, length 48
16:09:01.884476 IP cucm-sub3.home.lab.58072 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:01.884568 IP cucm-115.home.lab.ntp > cucm-sub3.home.lab.58072: NTPv4, Server, length 48
16:09:01.884954 IP cucm-sub3.home.lab.58072 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:01.884999 IP cucm-115.home.lab.ntp > cucm-sub3.home.lab.58072: NTPv4, Server, length 48
16:09:01.885381 IP cucm-sub3.home.lab.58072 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:01.885423 IP cucm-115.home.lab.ntp > cucm-sub3.home.lab.58072: NTPv4, Server, length 48
16:09:01.886147 IP cucm-sub3.home.lab.58072 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:01.886184 IP cucm-115.home.lab.ntp > cucm-sub3.home.lab.58072: NTPv4, Server, length 48
16:09:01.888555 IP time1.google.com.ntp > cucm-115.home.lab.48422: NTPv4, Server, length 48
16:09:01.888642 IP cucm-115.home.lab.48422 > time1.google.com.ntp: NTPv4, Client, length 48
16:09:01.900926 IP time1.google.com.ntp > cucm-115.home.lab.48422: NTPv4, Server, length 48
16:09:01.901017 IP cucm-115.home.lab.48422 > time1.google.com.ntp: NTPv4, Client, length 48
16:09:01.913497 IP time1.google.com.ntp > cucm-115.home.lab.48422: NTPv4, Server, length 48
16:09:01.913566 IP cucm-115.home.lab.48422 > time1.google.com.ntp: NTPv4, Client, length 48
16:09:01.926693 IP time1.google.com.ntp > cucm-115.home.lab.48422: NTPv4, Server, length 48
16:09:02.038981 IP cucm-sub2.home.lab.42078 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:02.039117 IP cucm-115.home.lab.ntp > cucm-sub2.home.lab.42078: NTPv4, Server, length 48
16:09:02.039281 IP cucm-sub2.home.lab.42078 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:02.039345 IP cucm-115.home.lab.ntp > cucm-sub2.home.lab.42078: NTPv4, Server, length 48
16:09:02.039434 IP cucm-sub2.home.lab.42078 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:02.039535 IP cucm-115.home.lab.ntp > cucm-sub2.home.lab.42078: NTPv4, Server, length 48
16:09:02.039607 IP cucm-sub2.home.lab.42078 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:02.039814 IP cucm-115.home.lab.ntp > cucm-sub2.home.lab.42078: NTPv4, Server, length 48
16:09:02.066544 IP cucm-sub1.home.lab.46400 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:02.066622 IP cucm-115.home.lab.ntp > cucm-sub1.home.lab.46400: NTPv4, Server, length 48
16:09:02.066751 IP cucm-sub1.home.lab.46400 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
```

```

16:09:02.066892 IP cucm-115.home.lab.ntp > cucm-sub1.home.lab.46400: NTPv4, Server, length 48
16:09:02.066968 IP cucm-sub1.home.lab.46400 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:02.067104 IP cucm-115.home.lab.ntp > cucm-sub1.home.lab.46400: NTPv4, Server, length 48
16:09:02.067155 IP cucm-sub1.home.lab.46400 > cucm-115.home.lab.ntp: NTPv4, Client, length 48
16:09:02.067189 IP cucm-115.home.lab.ntp > cucm-sub1.home.lab.46400: NTPv4, Server, length 48

```

### فلم مداخلت ساب - PCAP ل CUCM ةعجارم

اذه مداخلت ساب `udp.port == 123`: طاقنن ل طبرللا ي ف رادصل نTP ل ا ىرحتي ن ا لمعتسي حشرم ل ا CUCM رشان ن ا و Google NTP م داخ عم تالاصت ا ماقا CUCM رشان ن ا ىرت ن ا ك نكمي حشرم ل ا CUCM. نم نيكرتشم ل اب اضي ا لصتي

| No.   | Time            | Source       | Destination  | Protocol | Info                  |
|-------|-----------------|--------------|--------------|----------|-----------------------|
| 14... | 16:08:01.559665 | 192.168.1.14 | 216.168.1.15 | NTP      | NTP Version 4, client |
| 14... | 16:08:01.571555 | 216.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.184443 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.184623 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.185545 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.185571 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.186535 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.186557 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.187475 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.187494 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.260265 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.260358 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.260644 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.260685 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.260826 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.260863 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.260969 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.261003 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.284288 | 192.168.1.15 | 216.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.638610 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.638725 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 15... | 16:08:02.638989 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 15... | 16:08:02.639030 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |
| 16... | 16:08:02.639182 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, client |
| 16... | 16:08:02.639220 | 192.168.1.15 | 192.168.1.14 | NTP      | NTP Version 4, server |

### تاجرم ةعجارم CLI ل CUCM

### ةل ا ح ا ر ا NTP uTILS

**NOTE:** All nodes will show the current time in UTC regardless of the time zone of the server (listed in UTC time). This makes it easy to compare times on the different CUCM nodes.

**NOTE:** If there is a time difference of 15 minutes or more, it is expected that DB replication

will be broken

1) If the publisher is ahead by 15 minutes, this can result in the pub send data to the sub and the sub would have a delay to process the data because it has not yet reached the time in the timestamp of the packets from the publisher (this is expected behavior in this type of situation)

2) If the subscriber is ahead by 15 minutes, this would result in the subscriber drop the data from the publisher because the subscriber sees it as old data (15 minutes old)

**admin:utils ntp status**

ntpd (pid 28435) is running...

| remote      | refid  | st | t | when | poll | reach | delay  | offset | jitter |
|-------------|--------|----|---|------|------|-------|--------|--------|--------|
| 203.0.113.0 | .GOOG. | 1  | u | 44   | 64   | 3     | 11.724 | -0.021 | 0.064  |

unsynchronised

polling server every 8 s

Current time in UTC is : Fri Sep 6 20:54:50 UTC 2019

Current time in America/New\_York is : Fri Sep 6 16:54:50 EDT 2019

admin:

ليصفت للاب ةق باس لل انا خر م ل ا حرش ت ام ك ، ةي ل ل ا ت ام و ل م ل ا رقا .

The very first column contains the "**tally code**" character. Short overview:

- \* the source you are synchronized to (syspeer)
- # source selected, distance exceeds maximum value
  - o the PPS(Pulse Per Second) source if your ntpd (ppspeer, only if you have a PPS capable system and refclock)
  - + candidate, i.e. it is considered a good source
  - outlyer, i.e. quality is not good enough
  - x falseticker, i.e. this one is considered to distribute bad time
  - blank: source discarded, failed sanity

See the Select field of the Peer status word on the NTP Event Messages and

Status Words page for more information on the tally codes. **remote**

the hostname or IP of the remote machine. **refid**

the identification of the time source to which the remote machines is synced.

May be (for example) a radio clock or another ntp server) **st**

the stratum of the remote machine. 16 is "unsynchronized". 0 is the best

value, that could be (for example) a radio clock or the ntp servers private

caesium clock (see <http://www.eecis.udel.edu/~mills/ntp/html/index.html#intro>

for more information about ntp in general). **t**

types available: l = local (such as a GPS, WWVB) u = unicast (most common) m = multicast b =

broadcast - = netaddr **when**

how many seconds since the last poll of the remote machine. **poll**

the polling interval in seconds. **reach**

an 8-bit left-rotating register. Any 1 bit means that a "time packet" was

received. The right most bit indicate the status of the last connection

with the NTP server. It is Octal number. Use calculator in progammer

interface to translate from OCT to BIN: For example 377 translates to

1111111. Each 1 means a successful connection to the NTP server. If you

just start a NTP service, and it connects successfully with its server, this

number will change as follows (if connectivity is good): 0000001 = 001 0000011 = 003 0000111

= 007 0001111 = 017 0011111 = 037 0111111 = 077 0111111 = 177 1111111 = 377 **delay**

the time delay (in milliseconds) to communicate with the remote. **offset**

the offset (in milliseconds) between our time and that of the remote. **jitter**

the observed jitter (in milliseconds) of time with the remote.

## Utils صيخشت رابتخا جارخا

```
admin:utils diagnose test
```

```
Log file: platform/log/diag1.log
```

```
Starting diagnostic test(s)
```

```
=====
```

```
test - disk_space           : Passed (available: 6463 MB, used: 12681 MB)
skip - disk_files           : This module must be run directly and off hours
test - service_manager      : Passed
test - tomcat               : Passed
test - tomcat_deadlocks     : Passed
test - tomcat_keystore      : Passed
test - tomcat_connectors    : Passed
test - tomcat_threads       : Passed
test - tomcat_memory        : Passed
test - tomcat_sessions      : Passed
skip - tomcat_heapdump      : This module must be run directly and off hours
test - validate_network     : Passed
test - raid                 : Passed
test - system_info          : Passed (Collected system information in diagnostic log)
test - ntp_reachability     : Passed
test - ntp_clock_drift      : Passed
test - ntp_stratum          : Passed
skip - sdl_fragmentation    : This module must be run directly and off hours
skip - sdi_fragmentation    : This module must be run directly and off hours
```

```
Diagnostics Completed
```

The final output will be in Log file: platform/log/diag1.log

Please use 'file view activelog platform/log/diag1.log' command to see the output

```
admin:
```

ةدحتملا تايالولا يف صيخشتلا رابتخا جارخا يف (NTP) ةكبشلا تقو لوكونورب لشف اذا،  
اذهل اهباشم ايش ىرتس ف:

```
admin:utils diagnose test
```

```
Log file: platform/log/diag1.log
```

```
Starting diagnostic test(s)
```

```
=====
```

```
test - disk_space           : Passed (available: 6463 MB, used: 12681 MB)
skip - disk_files           : This module must be run directly and off hours
test - service_manager      : Passed
test - tomcat               : Passed
test - tomcat_deadlocks     : Passed
test - tomcat_keystore      : Passed
test - tomcat_connectors    : Passed
test - tomcat_threads       : Passed
test - tomcat_memory        : Passed
test - tomcat_sessions      : Passed
skip - tomcat_heapdump      : This module must be run directly and off hours
test - validate_network     : Passed
test - raid                 : Passed
```

```

test - system_info          : Passed (Collected system information in diagnostic log)
test - ntp_reachability    : Warning
The NTP service is restarting, it can take about 5 minutes.

test - ntp_clock_drift     : Warning
The local clock is not synchronised.
None of the designated NTP servers are reachable/functioning or legitimate.

test - ntp_stratum         : Warning
The local clock is not synchronised.
None of the designated NTP servers are reachable/functioning or legitimate.

skip - sdl_fragmentation   : This module must be run directly and off hours

```

رملال لي غشت ب مق . تي بثت ال تقوي في اديج ناك NTP نأ دي كأت

ثي ح زاهج ل نم CDRTIME ك `sql select pkid,name,dbinfo('utc_to_datetime', cdrtime) as CDRTIME from device where cdrtime > getCurrTime()` لي غشت ب مق

تنك اذ (لودج ل لي دع ت مت ام دن ع) CDRTIME ب لي لاج ل تقولا ة نراق م ب رملال اذ موق ي لوك وور ب حي حص ت ب تم ق م ث ة ي ق رت ل ل / تي بثت ل ل ي في حي حص ر ي غ NTP لوك وور ب م دخت ست اذ ي ري ال . ري غ ت ع ارج ا ه ي ف م تي ة رم ل ك ي ف ا ه ت ن م ا زم م ت ت ال ت ا ن ا ي ب ل ا ة د ع ا ق ن ا ف ، NTP ا دي ع ب ت ل ق ت ن ا ت ن ا ن ا ل (ع وض و ntp ل م ع ت س ي ، ال ث م) ر م ا NTP ي ج ذوم ن ل ل ت ن ا ض ك ري ا م دن ع ر ا د ص ا | دي ج ي ل ل ر د ص م NTP ئ ي س ن م

ح ل ص ي ن ل دي ج NTP ر د ص م ي ل ل ل ا ق ت ن ا ل ن ا ر ي غ ؛ دي ج ي ل ل ئ ي س NTP ن م ل ق ت ن ت ن ا دي ج ل ن م ة ي ق رت ل ل / تي بثت ل ل ا ن ا ث ا ه و ا ش ن ا م ت ي ت ل ل ل و ا د ج ل ل

اذه ع ق و ت م ل ا ج ا ت ن ا ل ر م ا اذ ه د ح ا و ض ك ري ا م دن ع :

```

admin:run sql select pkid,name,dbinfo('utc_to_datetime', cdrtime) as CDRTIME from device where
cdrtime > getCurrTime()

pkid name cdrtime

====

admin:

```

م د خ ت س م ل NTP ن ا ي ل ع ة م ا ل ع ا ه ن ا ف ، ي ل ل ا ل ا ج ا ر خ ل ل ه ب ا ش م ج ا ر خ ا ك ي د ل ن ا ك ا ذ ا خ س ن ل ل ا ي ل ع ر ث و ت ل ل ك ا ش م ث و د ح ي ف ب ب س ت د ق و ه م ا د خ ت س ا م ت ي م ل ة ي ق ر ت ل ل / ت ي ب ث ت ل ل : ت ا ن ا ي ب ل ا ة د ع ا ق ل ل ث ا م ت م ل

```

admin:run sql select pkid,name,dbinfo('utc_to_datetime', cdrtime) as CDRTIME from device where
cdrtime > getCurrTime()

pkid name cdrtime

=====

bf80dd31-9911-43ce-81fd-a99ec0333fb5 MTP_2 2016-09-11 14:38:14.0
4c38fc05-760d-4afb-96e8-69333c195e74 CFB_2 2016-09-11 14:38:14.0
90878c80-e213-4c7e-82b9-6c780aac72f3 ANN_2 2016-09-11 14:38:14.0
08b5bff4-da94-4dfb-88af-ea9ffa96872c MOH_2 2016-09-11 14:38:14.0
93320e4d-1b73-4099-9a7c-c4cddfadb5d9 MTP_3 2016-09-11 14:38:14.0
a6850d42-5f0a-49ce-9fa3-80d45b800e23 CFB_3 2016-09-11 14:38:14.0

```



ةمچرتل هذه لوج

ةللأل تاي نقتل نمة ومة مادختساب دن تسمل اذة Cisco تمةرت  
ملاعلاء انء مء مء نمة دختسمل معد و تمة مء دقتل ةر شبل او  
امك ةق قء نوك ت نل ةللأل ةمچرت لصف أن ةظحال مء ءرء. ةصاأل مء تءل ب  
Cisco ةللخت. فرتمة مچرت مء دقء ةللأل ةل فارتحال ةمچرتل عم لاعل او  
ىل إلمءءاد ءوچرلاب ةصوء و تاملرتل هذه ةقء نء اهءل وئس م Cisco  
Systems (رفوتم طبارل) ةل صأل ةل ءل ءن إل دن تسمل