

---

Subject: NTP Server in einer virtuellen Umgebung  
Posted by [Daniel Bauer](#) on Sun, 11 Dec 2011 15:09:23 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi @all,

I've a VPS for my internal LAN, which should also be used as a NTP server.

The HN has already synchronized the time by de.pool.ntp.org, so the time is also ok inside the VPS.

The NTP server inside the VPS stalled, ntpq -p shows:

```
remote      refid      st t when poll reach  delay  offset
jitter
=====
=====
localhost   .INIT.     16 l  - 64  0  0.000  0.000
0.000
```

my /etc/ntp.conf looks like this:

```
driftfile /var/lib/ntp/ntp.drift
```

```
statistics loopstats peerstats clockstats
filegen loopstats file loopstats type day enable
filegen peerstats file peerstats type day enable
filegen clockstats file clockstats type day enable
```

```
server 127.0.0.1
fudge 127.0.0.1 stratum 12
```

```
restrict -4 default kod notrap nomodify nopeer noquery
restrict -6 default kod notrap nomodify nopeer noquery
```

```
restrict 127.0.0.1
restrict ::1
```

```
restrict 192.168.1.0 mask 255.255.255.0 nomodify notrap
```

does anybody knows a solution?

Thanks  
Daniel

---

---

Subject: Re: NTP Server in einer virtuellen Umgebung  
Posted by [Daniel Pittman](#) on Sun, 11 Dec 2011 18:58:20 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On Sun, Dec 11, 2011 at 07:09, Daniel Bauer <[m1ist@dsb-gmbh.de](mailto:m1ist@dsb-gmbh.de)> wrote:

> I've a VPS for my internal LAN, which should also be used as a NTP server.  
> The HN has already synchronized the time by [de.pool.ntp.org](http://de.pool.ntp.org), so the time is  
> also ok inside the VPS.  
> The NTP server inside the VPS stalled, ntpq -p shows:

You don't need NTP inside the container, just on the HN. The VE can't set the time anyhow.

Daniel

--

---

---

Subject: Re: NTP Server in einer virtuellen Umgebung  
Posted by [MailingListe](#) on Sun, 11 Dec 2011 19:36:49 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Zitat von Daniel Pittman <[daniel@rimspace.net](mailto:daniel@rimspace.net)>:

> On Sun, Dec 11, 2011 at 07:09, Daniel Bauer <[m1ist@dsb-gmbh.de](mailto:m1ist@dsb-gmbh.de)> wrote:  
>  
>> I've a VPS for my internal LAN, which should also be used as a NTP server.  
>> The HN has already synchronized the time by [de.pool.ntp.org](http://de.pool.ntp.org), so the time is  
>> also ok inside the VPS.  
>> The NTP server inside the VPS stalled, ntpq -p shows:  
>  
> You don't need NTP inside the container, just on the HN. The VE can't  
> set the time anyhow.

Not really true. You need special capabilities assigned to the VE to let it manage your system clock. So if you need ntp inside the VE you should do something like "vzctl set <VEID> --capability sys\_time:on", install ntp inside the VE and deinstall it on the HN.

Regards

Andreas

### File Attachments

1) [smime.p7s](#), downloaded 475 times

---

Subject: Re: NTP Server in einer virtuellen Umgebung  
Posted by [Daniel Bauer](#) on Sun, 11 Dec 2011 21:18:07 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

From: <lst\_hoe02@kwsoft.de>  
> Zitat von Daniel Pittman <daniel@rimspace.net>:  
>  
>> On Sun, Dec 11, 2011 at 07:09, Daniel Bauer <m1ist@dsb-gmbh.de>  
>> wrote:  
>>  
>>> I've a VPS for my internal LAN, which should also be used as a NTP  
>>> server.  
>>> The HN has already synchronized the time by de.pool.ntp.org, so the  
>>> time is  
>>> also ok inside the VPS.  
>>> The NTP server inside the VPS stalled, ntpq -p shows:  
>>  
>> You don't need NTP inside the container, just on the HN. The VE  
>> can't  
>> set the time anyhow.  
>  
> Not really true. You need special capabilities assigned to the VE to  
> let it manage your system clock. So if you need ntp inside the VE you  
> should do something like "vzctl set <VEID> --capability sys\_time:on",  
> install ntp inside the VE and deinstall it on the HN.

But that's not what I want.

I want the HN to be a NTP client, so that all (HN + VE) have a valid  
time.  
This works already.

I want the VE to be a NTP server for the local LAN, without beeing a NTP  
Client.  
That doesn't work.

Why?

No VE and also no LAN client have access to the HN.  
I've 3 subnets with 3 gateways (VE), all gateways should be a NTP  
server and couldn't be a NTP client.

Thanks  
Daniel

---

Subject: Re: NTP Server in einer virtuellen Umgebung  
Posted by [MailingListe](#) on Mon, 12 Dec 2011 12:07:41 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Zitat von Daniel Bauer <mlist@dsb-gmbh.de>:

> From: <lst\_hoe02@kwsoft.de>

>> Zitat von Daniel Pittman <daniel@rimspace.net>:

>>

>>> On Sun, Dec 11, 2011 at 07:09, Daniel Bauer <mlist@dsb-gmbh.de> wrote:

>>>

>>>> I've a VPS for my internal LAN, which should also be used as a NTP server.

>>>> The HN has already synchronized the time by de.pool.ntp.org, so the time is

>>>> also ok inside the VPS.

>>>> The NTP server inside the VPS stalled, ntpq -p shows:

>>>

>>> You don't need NTP inside the container, just on the HN. The VE can't

>>> set the time anyhow.

>>

>> Not really true. You need special capabilities assigned to the VE to

>> let it manage your system clock. So if you need ntp inside the VE you

>> should do something like "vzctl set <VEID> --capability sys\_time:on",

>> install ntp inside the VE and deinstall it on the HN.

>

> But that's not what I want.

>

> I want the HN to be a NTP client, so that all (HN + VE) have a valid time.

> This works already.

>

> I want the VE to be a NTP server for the local LAN, without being a

> NTP Client.

> That doesn't work.

NTP by default only works as server if it has a valid timesource. By default it does not use the "local clock" because its unreliable. On the other hand NTP always try to adjust the local clock if it has a valid timesource. This does not work in a VE if you don't set the capability to adjust the clock, NTP will even run as "root" if it is not able to adjust the local clock with the intended user.

If you insist on your network design your options are:

- Let the VE NTP get the time from the HN and let it run as root on the VE
- Try to hack NTP use the local clock as timesource and not try to update

Regards

Andreas

## File Attachments

1) [smime.p7s](#), downloaded 473 times

---

---

Subject: Re: NTP Server in einer virtuellen Umgebung - SOLVED

Posted by [Daniel Bauer](#) on Mon, 12 Dec 2011 18:54:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

From: <lst\_hoe02@kwsoft.de>

> Zitat von Daniel Bauer <m1ist@dsb-gmbh.de>:

>

>> From: <lst\_hoe02@kwsoft.de>

>>> Zitat von Daniel Pittman <daniel@rimspace.net>:

>>>

>>>> On Sun, Dec 11, 2011 at 07:09, Daniel Bauer <m1ist@dsb-gmbh.de>

>>>> wrote:

>>>>

>>>>> I've a VPS for my internal LAN, which should also be used as a NTP  
>>>>> server.

>>>>> The HN has already synchronized the time by de.pool.ntp.org, so the  
>>>>> time is

>>>>> also ok inside the VPS.

>>>>> The NTP server inside the VPS stalled, ntpq -p shows:

>>>>>

>>>>> You don't need NTP inside the container, just on the HN. The VE  
>>>>> can't

>>>>> set the time anyhow.

>>>>>

>>>>> Not really true. You need special capabilities assigned to the VE to

>>>>> let it manage your system clock. So if you need ntp inside the VE

>>>>> you

>>>>> should do something like "vzctl set <VEID> --capability

>>>>> sys\_time:on",

>>>>> install ntp inside the VE and deinstall it on the HN.

>>>>>

>>>>> But that's not what I want.

>>>>>

>>>>> I want the HN to be a NTP client, so that all (HN + VE) have a valid

>>>>> time.

>>>>> This works already.

>>>>>

>>>>> I want the VE to be a NTP server for the local LAN, without beeing a

>>>>> NTP Client.

>>>>> That doesn't work.

>>>>>

>>>>> NTP by default only works as server if it has a valid timesource. By

>>>>> default it does not use the "local clock" because its unreliable. On

>>>>> the other hand NTP always try to adjust the local clock if it has a

>>>>> valid timesource. This does not work in a VE if you don't set the

>>>>> capability to adjust the clock, NTP will even run as "root" if it is

>>>>> not able to adjust the local clock with the intended user.

>>>>>

>>>>> If you insist on your network design your options are:

> - Let the VE NTP get the time from the HN and let it run as root on  
> the  
> VE  
> - Try to hack NTP use the local clock as timesource and not try to  
> update

the solution was not to take localhost, but  
> server 127.127.1.0  
> fudge 127.127.1.0 stratum 12  
now it works.

Thanks a lot  
Daniel

---

Subject: Re: NTP Server in einer virtuellen Umgebung - SOLVED  
Posted by [MailingListe](#) on Tue, 13 Dec 2011 08:44:48 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Zitat von Daniel Bauer <mlist@dsb-gmbh.de>:

> From: <lst\_hoe02@kwsoft.de>  
>> Zitat von Daniel Bauer <mlist@dsb-gmbh.de>:  
>>  
>>> From: <lst\_hoe02@kwsoft.de>  
>>>> Zitat von Daniel Pittman <daniel@rimspace.net>:  
>>>>>  
>>>>>> On Sun, Dec 11, 2011 at 07:09, Daniel Bauer <mlist@dsb-gmbh.de>  
>>>>>> wrote:  
>>>>>>>  
>>>>>>>> I've a VPS for my internal LAN, which should also be used as a NTP  
>>>>>>>> server.  
>>>>>>>> The HN has already synchronized the time by de.pool.ntp.org, so the  
>>>>>>>> time is  
>>>>>>>> also ok inside the VPS.  
>>>>>>>> The NTP server inside the VPS stalled, ntpq -p shows:  
>>>>>>>>>  
>>>>>>>>>> You don't need NTP inside the container, just on the HN. The VE  
>>>>>>>>>> can't  
>>>>>>>>>> set the time anyhow.  
>>>>>>>>>>>  
>>>>>>>>>>>> Not really true. You need special capabilities assigned to the VE to  
>>>>>>>>>>>> let it manage your system clock. So if you need ntp inside the VE you  
>>>>>>>>>>>> should do something like "vzctl set <VEID> --capability sys\_time:on",  
>>>>>>>>>>>>>> install ntp inside the VE and deinstall it on the HN.  
>>>>>>>>>>>>>>>  
>>>>>>>>>>>>>>>>> But that's not what I want.  
>>>>>>>>>>>>>>>>>>>

>>> I want the HN to be a NTP client, so that all (HN + VE) have a valid  
>>> time.  
>>> This works already.  
>>>  
>>> I want the VE to be a NTP server for the local LAN, without being a  
>>> NTP Client.  
>>> That doesn't work.  
>>  
>> NTP by default only works as server if it has a valid timesource. By  
>> default it does not use the "local clock" because its unreliable. On  
>> the other hand NTP always try to adjust the local clock if it has a  
>> valid timesource. This does not work in a VE if you don't set the  
>> capability to adjust the clock, NTP will even run as "root" if it is  
>> not able to adjust the local clock with the intended user.  
>>  
>> If you insist on your network design your options are:  
>> - Let the VE NTP get the time from the HN and let it run as root on the  
>> VE  
>> - Try to hack NTP use the local clock as timesource and not try to  
>> update  
>  
> the solution was not to take localhost, but  
>> server 127.127.1.0  
>> fudge 127.127.1.0 stratum 12  
> now it works.

But be aware that NTP inside the VE is running as "root" in this case.  
Don't every expose it to untrusted networks this way.

Regards

Andreas

## File Attachments

1) [smime.p7s](#), downloaded 486 times

---