Subject: NTP Server in einer virtuellen Umgebung Posted by Daniel Bauer on Sun, 11 Dec 2011 15:09:23 GMT

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Hi @all,

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

The HN has already syncronized 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:

localhost .INIT. 16 I - 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

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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 syncronized 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.

Daniel

--

Subject: Re: NTP Server in einer virtuellen Umgebung Posted by MailingListe on Sun, 11 Dec 2011 19:36:49 GMT

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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 syncronized 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.

Regards

Andreas

File Attachments

1) smime.p7s, downloaded 447 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 <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 syncronized the time by de.pool.ntp.org, so the
- >>> time is
- >>> also ok inside the VPS.
- >>> The NTP server inside the VPS stalled, ntpg -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 gatesways (VE), all gateways should be a NTP server and couln'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 syncronized 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:
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>>
>> 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.
```

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

> That doesn't work.

> This works already.

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 432 times

Subject: Re: NTP Server in einer virtuellen Umgebung - SOLVED Posted by Daniel Bauer on Mon, 12 Dec 2011 18:54:40 GMT

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```
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 syncronized the time by de.pool.ntp.org, so the
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>>> let it manage your system clock. So if you need ntp inside the VE
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>>> 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

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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 syncronized the time by de.pool.ntp.org, so the
- >>>>> time is
- >>>> also ok inside the VPS.
- >>>>> The NTP server inside the VPS stalled, ntpg -p shows:

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

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- >>> Not really true. You need special capabilities assigned to the VE to
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- >>>> install ntp inside the VE and deinstall it on the HN.

>>>

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

>>>

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

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

> now it works.

Andreas

File Attachments

>> fudge 127.127.1.0 stratum 12

1) smime.p7s, downloaded 458 times