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Subject: vps from different Hardware Nodes can't access each others

Posted by [John Spanos](#) on Thu, 31 Mar 2011 17:22:47 GMT

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Hello ppl

I am new in mailing list but i face a strange situation and i need your help to fix it... let me explain

i have two hardware nodes

HN1 --> OS:CentOS --> ip\_address:192.168.1.1/24

HN2 --> OS:CentOS --> ip\_address:192.168.1.2/24

i have four vps on each Hardware Node

vps01\_hn1 --> running\_on: HN1 --> OS:Debian --> ip\_address:192.168.1.100/24

vps02\_hn1 --> running\_on: HN1 --> OS:Debian --> ip\_address:192.168.1.101/24

vps03\_hn1 --> running\_on: HN1 --> OS:Debian --> ip\_address:192.168.2.100/24

vps04\_hn1 --> running\_on: HN1 --> OS:Debian --> ip\_address:192.168.2.101/24

vps01\_hn2 --> running\_on: HN2 --> OS:Debian --> ip\_address:192.168.1.102/24

vps02\_hn2 --> running\_on: HN2 --> OS:Debian --> ip\_address:192.168.1.103/24

vps03\_hn2 --> running\_on: HN2 --> OS:Debian --> ip\_address:192.168.2.102/24

vps04\_hn2 --> running\_on: HN2 --> OS:Debian --> ip\_address:192.168.2.103/24

so here is my situation

when i try to ping or trace from vps01\_hn1 to any other vps i am taking a normal response

when i try to ping or trace from vps03\_hn1 to any vps on HN1 i get a response but from HN2 i get response only from vps01\_hn2 and vps02\_hn2.

the same situation from HN2 vps, vps01\_hn2 and vps02\_hn2 can ping everyone but vps03\_hn2 and vps04\_hn2 can't ping vps vps03\_hn1 and vps04\_hn1.

I don't have any iptables.

any ideas??

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Subject: Re: vps from different Hardware Nodes can't access each others

Posted by [Marc Olive](#) on Fri, 01 Apr 2011 06:15:01 GMT

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On Thursday 31 March 2011 19:22:47 John Spanos wrote:

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> help to fix it... let me explain  
>  
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>  
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> HN2 --> OS:CentOS --> ip\_address:192.168.1.2/24  
>  
> i have four vps on each Hardware Node  
>  
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> vps02\_hn1 --> running\_on: HN1 --> OS:Debian --> ip\_address:192.168.1.101/24  
> vps03\_hn1 --> running\_on: HN1 --> OS:Debian --> ip\_address:192.168.2.100/24  
> vps04\_hn1 --> running\_on: HN1 --> OS:Debian --> ip\_address:192.168.2.101/24  
>  
> vps01\_hn2 --> running\_on: HN2 --> OS:Debian --> ip\_address:192.168.1.102/24  
> vps02\_hn2 --> running\_on: HN2 --> OS:Debian --> ip\_address:192.168.1.103/24  
> vps03\_hn2 --> running\_on: HN2 --> OS:Debian --> ip\_address:192.168.2.102/24  
> vps04\_hn2 --> running\_on: HN2 --> OS:Debian --> ip\_address:192.168.2.103/24  
>  
>  
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> ping everyone but vps03\_hn2 and vps04\_hn2 can't ping vps vps03\_hn1 and  
> vps04\_hn1.  
>  
> I don't have any iptables.  
> any ideas??

You have mixed (sub)nets on each HN, 192.168.1.x and 192.168.2.x. How did you routed between subnets/hosts?

Also, if you randomly mix subnets IPs, like 192.168.2.100 on HN1 and 192.168.2.102 on HN2 then routing tables will be a bit hard, you will need a route for every node instead having one route for every net.

I don't know your needs, but splitting subnets in a different way will be easier to manage, for example 192.168.1.x for HNs, 192.168.2.x for VPx\_HN1 and 192.168.3.x for VPx\_HN2. This way you can route whole subnets to his HN-gateway, instead of routing individual VPs as you will have to do with the configuration you have now.

You should read some docs about routing and net-splitting.

Regards,

--

Marc Olivé  
Blau Advisors

marc.olive@blauadvisors.com

C/ Molí de Guasch, 10 baixos 1a,  
43440 L'Espluga de Francolí (Tarragona)  
Tel. +34 977 870 702  
Tel i Fax. + 34 977 870 507

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Subject: RE: vps from different Hardware Nodes can't access each others

Posted by [John Spanos](#) on Fri, 01 Apr 2011 11:20:39 GMT

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Hello,

Thanx for your help.

You are right with the solution you suggest me but the description of my problem was with fake ip addresses, my real problem is with real ip addresses and the subnets I have are not sequent.  
So think like we have ips from 192.168.1.0/24 and 10.10.10.0/24

Any other suggestions??

-----Original Message-----

From: users-bounces@openvz.org [mailto:users-bounces@openvz.org] On Behalf Of Marc Olive

Sent: Friday, April 01, 2011 9:15 AM

To: users@openvz.org

Subject: Re: [Users] vps from different Hardware Nodes can't access each others

On Thursday 31 March 2011 19:22:47 John Spanos wrote:

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>

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> HN2 --> OS:CentOS --> ip\_address:192.168.1.2/24

>

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>  
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> vps02\_hn1 --> running\_on: HN1 --> OS:Debian -->  
> ip\_address:192.168.1.101/24  
> vps03\_hn1 --> running\_on: HN1 --> OS:Debian -->  
> ip\_address:192.168.2.100/24  
> vps04\_hn1 --> running\_on: HN1 --> OS:Debian -->  
> ip\_address:192.168.2.101/24  
>  
> vps01\_hn2 --> running\_on: HN2 --> OS:Debian -->  
> ip\_address:192.168.1.102/24  
> vps02\_hn2 --> running\_on: HN2 --> OS:Debian -->  
> ip\_address:192.168.1.103/24  
> vps03\_hn2 --> running\_on: HN2 --> OS:Debian -->  
> ip\_address:192.168.2.102/24  
> vps04\_hn2 --> running\_on: HN2 --> OS:Debian -->  
> ip\_address:192.168.2.103/24  
>  
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marc.olive@blauadvisors.com

C/ Molí de Guasch, 10 baixos 1a,  
43440 L'Espluga de Francolí (Tarragona)  
Tel. +34 977 870 702  
Tel i Fax. + 34 977 870 507

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Subject: Re: vps from different Hardware Nodes can't access each others  
Posted by [Marc Olive](#) on Fri, 01 Apr 2011 11:31:16 GMT

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On Friday 01 April 2011 13:22:21 John Spanos wrote:

> Hello,

Hello,

> Thanx for your help.

>

> You are right with the solution you suggest me but the description of my  
> problem was with fake ip addresses, my real problem is with real ip  
> addresses and the subnets I have are not sequent. So think like we have  
> ips from 192.168.1.0/24 and 10.10.10.0/24

>

> Any other suggestions??

So you have something like:

HN1: 192.168.1.1/24

VS1\_HN1: 192.168.1.11/24

VS2\_HN1: 192.168.1.12/24

VS3\_HN1: 192.168.1.13/24

VS4\_HN1: 192.168.1.14/24

HN2: 10.0.0.1/24

VS1\_HN2: 10.0.0.11/24

VS2\_HN2: 10.0.0.12/24

VS3\_HN2: 10.0.0.13/24

VS4\_HN2: 10.0.0.14/24

You can ping from VS1\_HN1 to any VSx\_HN1 and VSx\_HN2, all it's fine.  
You can ping from VS3\_HN1 to any VSx\_HN1 but only to two of VSx\_HN2?  
What have this VS3 different from VS1? It's the same type of ethernet than VS1 one (venet or veth, both)? What about interface's config differences besides the IP? Did you checked the routing tables of HN and VS?

Regards,

--

Marc Olivé  
Blau Advisors

marc.olive@blauadvisors.com

C/ Molí de Guasch, 10 baixos 1a,  
43440 L'Espluga de Francolí (Tarragona)  
Tel. +34 977 870 702  
Tel i Fax. + 34 977 870 507

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Subject: RE: vps from different Hardware Nodes can't access each others  
Posted by [John Spanos](#) on Fri, 01 Apr 2011 11:41:28 GMT  
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So i have something like:

HN1: 192.168.1.1/24  
VS1\_HN1: 192.168.1.11/24  
VS2\_HN1: 192.168.1.12/24  
VS3\_HN1: 10.0.0.13/24  
VS4\_HN1: 10.0.0.14/24

HN2: 192.168.1.2/24  
VS1\_HN2: 10.0.0.11/24  
VS2\_HN2: 10.0.0.12/24  
VS3\_HN2: 192.168.1.13/24  
VS4\_HN2: 192.168.1.14/24

So vs1\_hn1 and vs1\_hn2 can ping all, vs3\_hn1 can ping VSx\_HN1, VS3\_HN2 and VS4\_HN2 and not VS1\_HN2 and VS2\_HN2.

Thanks

-----Original Message-----

From: users-bounces@openvz.org [mailto:users-bounces@openvz.org] On Behalf Of Marc Olive  
Sent: Friday, April 01, 2011 2:31 PM  
To: users@openvz.org  
Subject: Re: [Users] vps from different Hardware Nodes can't access each others

On Friday 01 April 2011 13:22:21 John Spanos wrote:

> Hello,

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>

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> my problem was with fake ip addresses, my real problem is with real ip  
> addresses and the subnets I have are not sequent. So think like we  
> have ips from 192.168.1.0/24 and 10.10.10.0/24

>

> Any other suggestions??

So you have something like:

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VS4\_HN1: 192.168.1.14/24

HN2: 10.0.0.1/24

VS1\_HN2: 10.0.0.11/24

VS2\_HN2: 10.0.0.12/24

VS3\_HN2: 10.0.0.13/24

VS4\_HN2: 10.0.0.14/24

You can ping from VS1\_HN1 to any VSx\_HN1 and VSx\_HN2, all it's fine.

You can ping from VS3\_HN1 to any VSx\_HN1 but only to two of VSx\_HN2?

What have this VS3 different from VS1? It's the same type of ethernet than VS1 one (venet or veth, both)? What about interface's config differences besides the IP? Did you checked the routing tables of HN and VS?

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Tel i Fax. + 34 977 870 507

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Subject: Re: vps from different Hardware Nodes can't access each others  
Posted by [Marc Olive](#) on Fri, 01 Apr 2011 12:06:23 GMT  
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On Friday 01 April 2011 13:43:04 John Spanos wrote:

> So i have something like:

>

> HN1: 192.168.1.1/24

> VS1\_HN1: 192.168.1.11/24

> VS2\_HN1: 192.168.1.12/24

> VS3\_HN1: 10.0.0.13/24

> VS4\_HN1: 10.0.0.14/24

>

> HN2: 192.168.1.2/24

> VS1\_HN2: 10.0.0.11/24

> VS2\_HN2: 10.0.0.12/24

> VS3\_HN2: 192.168.1.13/24

> VS4\_HN2: 192.168.1.14/24

>

> So vs1\_hn1 and vs1\_hn2 can ping all, vs3\_hn1 can ping VSx\_HN1, VS3\_HN2 and

> VS4\_HN2 and not VS1\_HN2 and VS2\_HN2.

Then, I repeat my first answer:

You have mixed (sub)nets and etcetera...

>

> Thanks

Regards,

--

Marc Olivé  
Blau Advisors

marc.olive@blauadvisors.com

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