
Subject: name based routing to VE's possible?

Posted by [jchamilton](#) on Mon, 10 Jul 2006 20:47:36 GMT

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This is probably more of a networking question than a OpenVZ question so please feel free to jab me in the eye and tell me where to go with it...

In our company it's much easier to get a CNAME alias for an IP added than it is to get a brand new IP and host name.

So, is it possible to put all VE's on my HN in a private network but make them accessible from the outside world via the HN IP?

Ideally, I would like to have a CNAME alias in our corporate DNS for each VE that points to the HN IP and have the HN route to each VE based on the destination host name.

jch

Subject: Re: name based routing to VE's possible?

Posted by [dev](#) on Mon, 10 Jul 2006 21:35:31 GMT

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there are 2 choices here:

1. if you are not going to run multiple applications listening on the same port (e.g. >=2 httpd daemons etc.) then the best choice is NAT

http://wiki.openvz.org/Using_NAT_for_VE_with_private_IPs

2. if you really need name based hosting then it depends on protocols you need which protocols do you want?

Subject: Re: name based routing to VE's possible?

Posted by [jchamilton](#) on Mon, 10 Jul 2006 21:52:40 GMT

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I did read that howto and it's not exactly what i'm looking for.

Primarily the ports / protocols I would need: http, https, ssh, and mysql (3306). However, projects and requirements typically change so it would be good if adding a new port was simply a config. change of some sort.

I definitely want to be able to do the name based hosting...

jch

Subject: Re: name based routing to VE's possible?
Posted by [hvdkamer](#) on Tue, 11 Jul 2006 08:24:57 GMT
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According to the support website Virtuozzo is able to do this. However I can't find if this is indeed for every protocol or just the simpler ones...

I'm currently investigating a setup to isolate webhosting accounts from each other. The normal user permissions aren't able to do this, because the webserver needs access also and that is by its very nature public .

So I want SSH and HTTP for every account. Because I've only one public IP-address this becomes difficult. I'm now thinking about mod_proxy for the webserver and a lighttpd webserver in every mini OpenVZ server. Added bonus is that every account can change its PHP settings to its own desire. The main webserver just asks the right mini OpenVZ server to render the page and then gives it back.

For SSH I don't see a similar solution. So there I'll probably give every mini OpenVZ server its own dropbear which listens on 22<VEID>. The SSH is only for the account itself, so a different port shouldn't be a problem.

Luckily for me this are the only two needed. I'm interested to know if Virtuozzo could handle http, ssh, smtp, ftp, pop, imap and so forth purely based on the name and not IP-address.

Another solution is may be IPv6.

Subject: Re: name based routing to VE's possible?
Posted by [aistis](#) on Tue, 11 Jul 2006 13:46:15 GMT
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Indeed, in Virtuozzo terminology it is "Name-Based Hosting" and it can do with following protocols: FTP, SMTP, HTTP and POP3. There are some limitations though(guess due to reasonable limitations of all protocols except HTTP which can send Host: header in advance), so for example your POP3 or FTP user names will have to be in a form <user>@<host>.

You can get 30-days free trial from SWsoft sales by filling an online form here:
<http://www.virtuozzo.com/en/products/virtuozzo/freetrial/>

Of course another option is to implement that for OpenVZ

Subject: Re: name based routing to VE's possible?
Posted by [jchamilton](#) on Tue, 11 Jul 2006 14:52:35 GMT
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Thanks everyone for your replies - I think what I'm going to do is ask for 3x as many IPs that I need and hope that I get 1x...

I'll probably use the NAT method for any "dynamic" VE's that I create along the way in testing...

Thanks again for your help!

Subject: Re: name based routing to VE's possible?
Posted by [aistis](#) on Tue, 11 Jul 2006 15:30:50 GMT
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Should work if you split the services between different VEs. Take care

Subject: Re: name based routing to VE's possible?
Posted by [cdevidal](#) on Thu, 20 Jul 2006 01:34:22 GMT
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I just read about Virtuozzo's "named-based hosting" tonight. Is this pretty much the same as using host headers in a web server? Do each of the private VEs have their own private IP?

Subject: Re: name based routing to VE's possible?
Posted by [aistis](#) on Thu, 20 Jul 2006 10:01:35 GMT
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Yes, they do have private IPs.

Subject: Re: name based routing to VE's possible?
Posted by [cdevidal](#) on Thu, 20 Jul 2006 12:47:42 GMT
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Is this pretty much the same as using host headers in a web server?

Subject: Re: name based routing to VE's possible?
Posted by [aistis](#) on Fri, 21 Jul 2006 10:38:50 GMT

Not really. AFAIR for SMTP there is a dedicated gateway (MTA running) with (my guess) some map table, which forwards messages to VEs according to rcpt to: domain name. It should not be difficult to write the HTTP proxy which proxies to VEs according to host: header. FTP/POP3 - not sure, but you get the idea.
