Subject: Multiple VDS on 1 ip
Posted by AlecWeb on Wed, 16 Aug 2006 20:00:21 GMT

Hi!

I already searched trough the forum, but couldn't find a useful answer.

I am planning to put 10 VDS websites on 1 public IP. Is there a way to do this?

Thanks,
Alec

Subject: Re: Multiple VDS on 1 ip
Posted by dev on Wed, 16 Aug 2006 20:32:10 GMT

1. NAT? in this case you will be able to masquarade your VE IPs with host node IP. But different ports should be used for webservices then which probably not that good.

2. try to find software allowing to redirect http traffic based on web site name (name based hosting). However, AFAIK there are some problems with https and it can't be used this way...

Subject: Re: Multiple VDS on 1 ip
Posted by AlecWeb on Wed, 16 Aug 2006 20:51:44 GMT

I am afraid NAT won't go, because w also would like to have mail on these servers.

Any idea which software would fit for name based hosting? (I saw something like squid, but that doesn't seem to be a good solution, because its seems te be overkill)

Greetings
Alec

Subject: Re: Multiple VDS on 1 ip
Posted by dev on Thu, 17 Aug 2006 06:32:18 GMT

well, for every kind of protocol you will need its own proxy :/
and not all protocols support name based proxying so different tricks should be done. e.g. for POP3 it will be required
to provide full user name including a domain like 'john@mydomain.com'

Subject: Re: Multiple VDS on 1 ip
Posted by aistis on Thu, 17 Aug 2006 10:28:58 GMT
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Alec, in case you have a normal budget for this, you could look up to Virtuozzo solution by
SWsoft.. there is a possibility to do name based hosting with certain drawbacks as dev outlined.

Subject: Re: Multiple VDS on 1 ip
Posted by AlecWeb on Thu, 17 Aug 2006 11:08:29 GMT
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I tought about that, but it's just to expensive.

We only host educational websites, and so we don't have a big budget.

Any help on how to setup a namebased VPS hosting is welcome, because Googling didn't result
in anything really useful

Subject: Re: Multiple VDS on 1 ip
Posted by AlecWeb on Thu, 17 Aug 2006 11:09:51 GMT
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By the way, how does virtuozzo do it?

Thanks
Alec

Subject: Re: Multiple VDS on 1 ip
Posted by aistis on Thu, 17 Aug 2006 12:14:12 GMT
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oh.. so if it's for educational websites, then you must have some students who can think how to do
it for OpenVZ

anyway, regarding Virtuozzo way, you can look up another thread in this forum where we spoke a
little on this: http://forum.openvz.org/index.php?t=msg&goto=4435

Subject: Re: Multiple VDS on 1 ip
Posted by AlecWeb on Thu, 17 Aug 2006 15:02:03 GMT
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I am a student And I couldn't figure out how to do it, so that's why I am asking it

Anyone an idea for name-based proxies?

Subject: Re: Multiple VDS on 1 ip
Posted by hvdkamer on Thu, 17 Aug 2006 16:38:00 GMT
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Which ports must be accesible on each of the VE's from outside?

I'm doing a study on shared webhosting and for that I needed a trick for SSH and HTTP. The SSH part I solved by destination NAT and giving each VE a different port in the scheme <VEID>22. For HTTP this is not acceptable, so I use Lighttpd as a namebased proxy.

For some other protocols you can do something similar. But it is not that easy. If you need a lot of the same public ports on each of the VE's you are probably better of in getting more public IP-addresses.

I don't know what the status of IPv6 in OpenVZ is. That could also be a nice solution.

Subject: Re: Multiple VDS on 1 ip
Posted by AlecWeb on Thu, 17 Aug 2006 17:23:58 GMT
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Thanks for the reply!

Well in fact on each VDS I am going the use: SSH, FTP, SFTP, POP, IMAP, HTTP and HTTPS, so using portforwarding isn't the best solution.

In fact al I want to do, is to have 10 dedicated servers on 1, but I have only 1 ip (and can't have more than 3)

Subject: Re: Multiple VDS on 1 ip
Posted by aistis on Thu, 17 Aug 2006 17:27:15 GMT
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hvdkamer wrote on Thu, 17 August 2006 19:38Which ports must be accesible on each of the VE's from outside?

I'm doing a study on shared webhosting and for that I needed a trick for SSH and HTTP. The SSH part I solved by destination NAT and giving each VE a different port in the scheme <VEID>22. For HTTP this is not acceptable, so I use Lighttpd as a namebased proxy.

For some other protocols you can do something similar. But it is not that easy. If you need a lot of

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the same public ports on each of the VE's you are probably better of in getting more public IP-addresses.

I don't know what the status of IPv6 in OpenVZ is. That could also be a nice solution.

IPv6 is supported since 2.6.16-026test014.4 and IPv6 netfilter functionality since 2.6.16-026test015.1

It would be nice if somebody could test it..

Subject: Re: Multiple VDS on 1 ip
Posted by AecWeb on Thu, 17 Aug 2006 17:31:10 GMT
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Could IPv6 solve my problem? (The only thing I know about IPv6, is that it offers more IP's then IPv4)

Subject: Re: Multiple VDS on 1 ip
Posted by hvdkamer on Fri, 18 Aug 2006 08:59:10 GMT
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AlecWeb wrote on Thu, 17 August 2006 19:23Well in fact on each VDS I am going the use: SSH, FTP, SFTP, POP, IMAP, HTTP and HTTPS, so using portforwarding isn't the best solution.

If it is only for educational purposes it could be a solution . You are on a tight budget, so you must be creative

The problem with the secure ports you mention is that the connection is encrypted. May be there are tricks that first the hostname (for the namebased proxy) can be resolved, but as far as I understand, this part is in the encrypted communication. The problem then is that you want to redirect that communication to another server with most likely different keys. That is probably the reason why I didn't find namebased solutions for SSH and HTTPS. The SFTP is the same port as SSH as far as I know. SFTP is just the FTP like commands over a SSH connection. The other one is SCP.

For POP and IMAP I think you could write a proxy which does the trick. I don't know of one however...

AlecWeb wrote on Thu, 17 August 2006 19:31Could IPv6 solve my problem? (The only thing I know about IPv6, is that it offers more IP's then IPv4)

My provider (xs4all in the Netherlands) gives IPv6 to customers who want to try it. Another option is an IPv4 to IPv6 tunnel solution. The problem is that not everybody has accesss to IPv6 yet, so again it is only a solution for educational use.

Subject: Re: Multiple VDS on 1 ip
Posted by AlecWeb on Mon, 28 Aug 2006 18:32:13 GMT

I found something that could help:
Gauntlet Internet Firewall (see http://www.lib.ru/SECURITY/gauntlet.txt)

Does someone have experience with this? I think it could solve my problem. But I'm not sure.
Could someone confirm this?

Thankx,
Alec