Subject: Redirect traffic from a specific hostame to a specific VE ?
Posted by int64 on Sat, 02 Aug 2008 07:24:00 GMT
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Hello, I am new to using openVZ and need some help already

I have installed openVZ on a CentOS 5.2 host machine and created a CentOS VE.

I have a dynamic DNS domain name from dyndns.org, is there any way that I can route that hostname to the specific VE?

I set the FQDN and hostname to that of the dyndns.org domain name but when I try to connect to SSH on that FQDN it will login to the host system and not the specific VE :S

I have been searching Google about iptables but I am not sure it they work with hostnames :S

To explain things easier :

This is what I am trying to do :

[HOST BOX : 192.168.1.100]
- |_vm1 (192.168.1.101)_| <------ host1.dyndns.org
- |_vm2 (192.168.1.102)_| <------ host2.dyndns.org
- |_vm3 (192.168.1.103)_| <------ host3.dyndns.org
- |_vm4 (192.168.1.104)_| <------ host4.dyndns.org
- |_vm5 (192.168.1.105)_| <------ host5.dyndns.org

This is what happens :

|------ host1.dyndns.org
|------ host2.dyndns.org
|------ host3.dyndns.org
|------ host4.dyndns.org
|------ host5.dyndns.org
|
\
.V
[HOST BOX : 192.168.1.100]
- |_vm1 (192.168.1.101)_|
- |_vm2 (192.168.1.102)_|
- |_vm3 (192.168.1.103)_|
- |_vm4 (192.168.1.104)_|
- |_vm5 (192.168.1.105)_|

host1.dyndns.org though host5.dyndns.org all have the same external ip of the host (x.x.x.x).

I was wondering if there was a way for the host machine to redirect traffic to the appropriate VE's according to the hostname?

Thanks for any help!! I am very confused about this .

Subject: Re: Redirect traffic from a specific hostame to a specific VE ?
Posted by int64 on Tue, 05 Aug 2008 09:50:13 GMT
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hmm it seems that not all protocols (ftp/ssh/ etc..) are "hostname aware" with the exception of HTTP/S. Thus, to overcome this, I simply modified the ports that services run on so all the VE's are happy.

>> [FOR OTHER SERVICES (SSH/FTP/etc) ]

I set SSH for VE1 to listen on port 2222.

Below is simple DNAT iptable to route the traffic

```
# iptables -t nat -A PREROUTING -p tcp -d 192.168.1.100 --dport 2222 \
  -i eth0 -j DNAT --to-destination 192.168.1.101:2222
```

let,
HN ip = 192.168.1.100
dport = HN port (public port)
VE destination = 192.168.1.101
VE Destination Port = 2222

this isn't that fun to do, but if you have only one public IP its the only thing you can do.

>> [FOR HTTP/S]

HTTP protocol is different, you can set up a reverse proxy on the HN to sort traffic to appropriate VE.

some reverse proxies I've heard of are pound or pen , but I'm sure you can find more online!

good luck!