

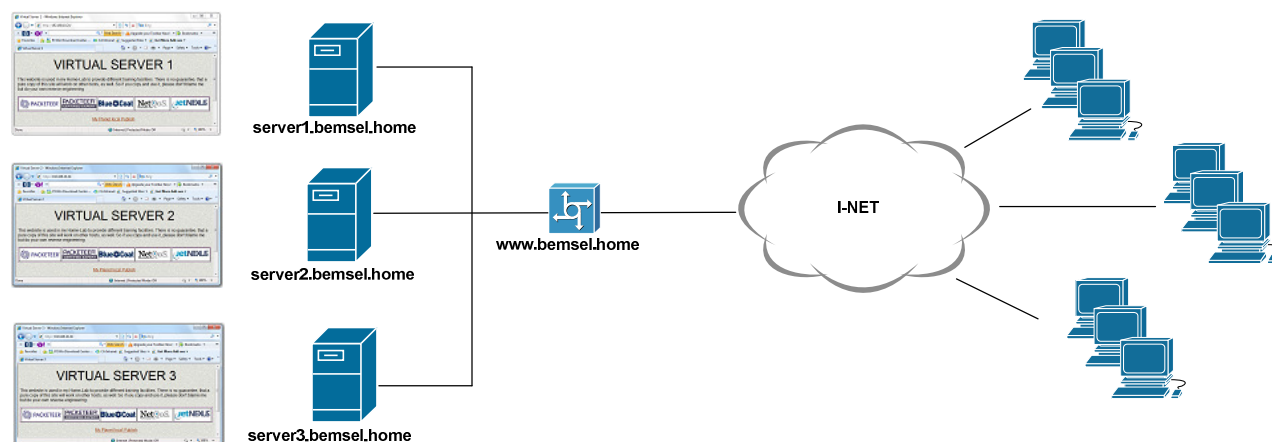


Configure Server Pool for jetNEXUS IP Services

created by: Rainer Bemsel - Version 1.0 - Dated: Dec/30/2009

This document outlines the initial server configuration and test scenario for jetNEXUS

The basic principle of a load balancer is that a single virtual IP can correspond to a number of real servers. In my home-lab I run 3 servers on VMware to provide kind of 3 real servers. I prepared all index.html with the server number, so I can see what "physical" server is serving the request. In a real life, you won't see that kind of configuration



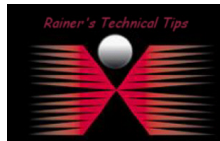
The DNS setting of `www.bemsel.home` is `192.168.10.24`, which will become the virtual IP Address.

```
C:\Windows\system32\cmd.exe - nslookup
C:\Users\rbemsel>nslookup
Default Server: blade-vm1.bemsel.home
Address: 192.168.10.60

> www.bemsel.home
Server: blade-vm1.bemsel.home
Address: 192.168.10.60

Name: www.bemsel.home
Address: 192.168.10.24

>
```



DISCLAIMER

This Technical Tip or TechNote is provided as information only. I cannot make any guarantee, either explicit or implied, as to its accuracy to specific system installations / configurations. Readers should consult each Vendor for further information or support.

Although I believe the information provided in this document to be accurate at the time of writing, I reserve the right to modify, update, retract or otherwise change the information contained within for any reason and without notice. This technote has been created after studying the material and / or practical evaluation by myself. All liability for use of the information presented here remains with the user.

jetNEXUS ALB uses the notation of channels. A Channel consists of a virtual IP address and port.

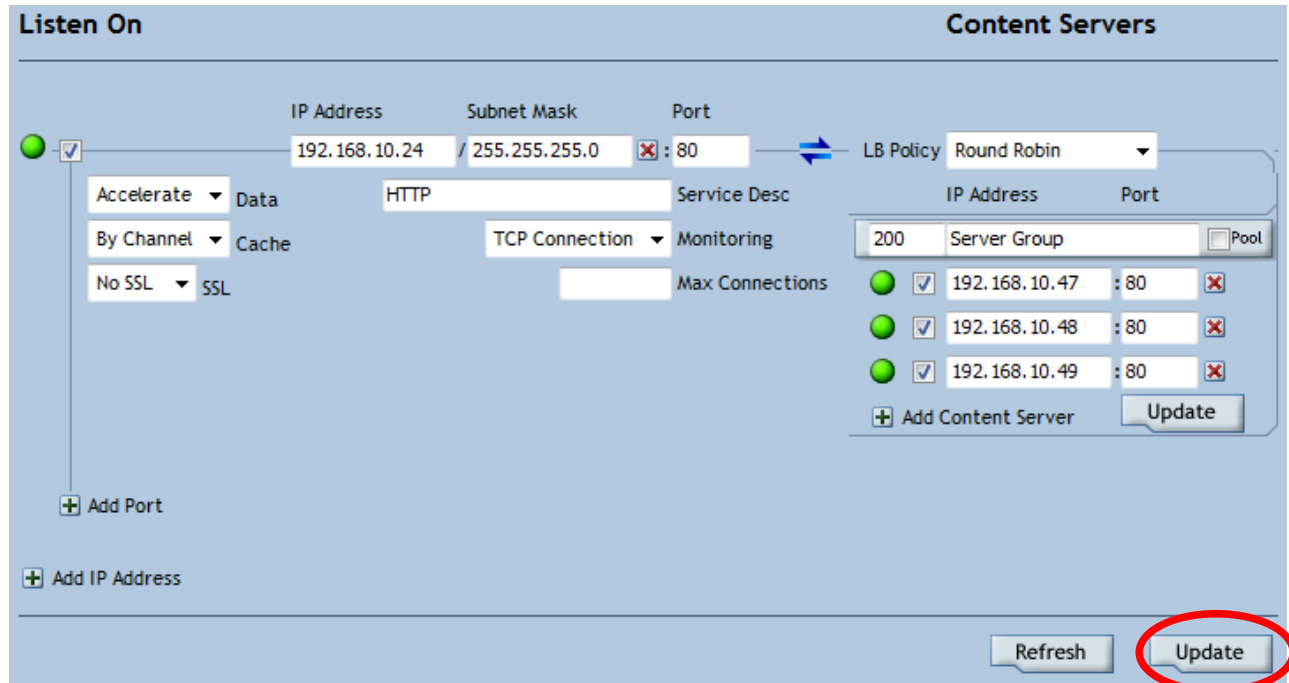
Load Balancing Policy Options with jetNEXUS virtual Appliance:

- Least Connections
- Round Robin
- Cookie Based
- IP Based

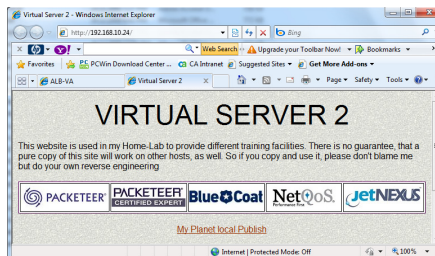
I've decided to go with Round Robin, as I do not have a lot of http requests in my lab

There are only a few steps to configure.

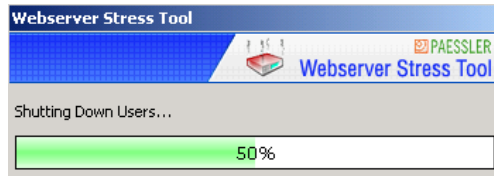
1. Choose Data and Cache Type
2. Add Virtual IP Address (192.168.10.24 = www.bemsel.home), Subnet Mask and Port
3. Choose Load Balancing Policy
4. Add Content Server
5. Restart the Service by clicking Update



6. Open a browser and connect to the virtual IP Address:



To get a bit more traffic into my lab, I did use a HTTP Stress Tool Trial Edition, which can be downloaded from <http://www.paessler.com/webstress/download>



Statistics will get you some results on how **Stress Tool** did bother your web server load balancing setup

Content Compression to Date	=	69%	
Throughput Before Compression	=	391.4 kB	
Throughput After Compression	=	117.5 kB	
Overall Compression to Date	=	3%	Current Values
Throughput Before Compression	=	7.93 MB	0%
Throughput After Compression	=	7.65 MB	1.04 Mbps (data)
Throughput From Cache	=	0	1.04 Mbps (data)
			0.00 Mbps (data)
			Total: 2.08 Mbps (data)
Overall Hits Counted	=	517	
Total Connections	=	409	21.57 / 23.27 Connections per Second
Peak Connections	=	30	3 Current Connections
Content Caching		Hits	Bytes
From Cache	=	0 / 0.0%	0 / 0.0%
From Server	=	400 / 100.0%	7.41 MB / 100.0%
Cache Contents	=	0 entries	0 / 0.0%
CPU Usage	=	9.0%	
Disk Usage	=	69%	
Memory Usage	=	4.6% (11.3MB of 243.7MB)	

Auto-Refresh [Secs] :

Happy Balancing