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Configure phplist to send email from multiple postfix instances / IP addresses

Thursday February 12th, 2015 by Jack Huang

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Once you get your postfix server running for a while, you may see that the bottleneck is not the hardware but the rate in which you are able to send out email to different providers.

Instead of wasting idle resources, we can just add an IP address to the server and setup Postfix to run in a multi instance configuration. This way, we can utilise what we already have and double the email throughput of the server.

Preparations

- 1. First, we need to add one or more IP addresses to our host.
- Make sure a postfix server is running.

3. Enable the multi instance support, run the command:

4. Create the first instance:

postmulti -e init

postmulti -I postfix-2 -G outgoing -e create

-I Is the nick name for the instance. You can use the hostname or whatever you like. -G is the group name. In this post we are not using groups so just name it whatever you think describes it best. An example use for groups, is the ability to reload some of the instances while keeping the rest running.

The process will create new folder to hold both the configuration and the postfix mail queue. The structure is fairly simple but important to note for interacting with the instances:

Configuration files such as the main.cf files will be at /etc/instancename/ and in our example, under /etc/postfix-2/

The queue will be at /var/spool/instancename/ and in our example, under /var/spool/postfix-2/

5. Assigning an ip address to an instance

Lets assume that we have two IP addresses available on the server - 192.168.50.44 192.168.50.45 For the main instance, which is configured in /etc/postfix, we will keep the localhost listener, and add a specific address:

Edit the /etc/postfix/main.cf file and look for the line: inet_interfaces = all And change it to:

inet_interfaces = localhost, 192.168.50.44

open /etc/postfix/master.cf, look for the line: smtp unix - - n - - smtp

And change it to:

smtp unix - - n - - smtp -o smtp_bind_address=192.168.50.44

This means that the base postfix instance is now listening and sending through the localhost address and 192.168.50.44

For each of the other instances, edit the main.cf file located under /etc/instancename and specify which IP address will be in use. To follow with our example, edit the /etc/postfix-2/main.cf file and replace:

inet_interfaces = all With:

inet_interfaces = 192.168.50.45

open /etc/postfix-2/master.cf, look for the line: smtp unix - - n - - smtp And change it to:

smtp unix - - n - - smtp -o smtp_bind_address=192.168.50.45

6. Restart the postfix service after making these change.

7. Install one or multiple phplist

8. Configure each phplist to send email from different postfix instances add the following code to the beginning of admin/index.php :

putenv("MAIL_CONFIG=/etc/postfix-2"); (note: use variable for "postfix-2" if you only have one phplist install)

9. Specify a list of user name are allowed to submit mail in /etc/postfix/main.cf or /etc/postfix-2/main.cf for each instance

authorized_submit_users = testuser

10. (Option) Commands to start/stop/enable/disable postfix instance:

postmulti -i postfix-2 -p start postmulti -i postfix-2 -p stop postmulti -i postfix-2 -e enable

postmulti -i postfix-2 -e disable

Now, we can schedule multiple phplist to run at the same time and we have double the email throughput of the server.



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104.156.253.94



Nuwan Sunday June 28th, 2015 at 22:37 Dear Jack Huang I setup PHP List on VPS it's working fine. That VPS I purchased with extra 5 Public IP for balance outgoing e-mails via multiple IP . The solution is depending on postfix's TCP_TABLES and a perl script... Install the perl module List::util::WeightedRoundRobin: cpan install /List::util::WeightedRoundRobin/ Create the following perl script and make it executable: vi /etc/postfix/random.pl #!/usr/bin/perl -w # author: Hari Hendaryanto use strict; use warnings; use Sys::Syslog qw(:DEFAULT setlogsock); use List::Util::WeightedRoundRobin; use Storable; my \$hashfile="/tmp/file.hash"; store {}, \$hashfile unless -r \$hashfile; # # our transports lists, we will define this in master.cf as transport services # Queued using Weighted Round-Robin Scheduling # my \$list = [{ name => 'smtp1:', weight => 1, }, name => 'smtp2:', weight => 1, }, { name => 'smtp3:', weight => 1, }, name => 'smtp4:', weight => 1, }, name => 'smtp5:', weight => 1, }, name => 'smtp6:', weight => 1, }, name => 'smtp7:', weight => 1, },]; my \$WeightedList = List::Util::WeightedRoundRobin->new(); my \$weighted list = \$WeightedList->create weighted list(\$list); # \$maxinqueue max number of queue in smtp list my \$maxinqueue = scalar(@{\$weighted_list}); # # Initalize and open syslog. openlog('postfix/randomizer','pid','mail'); # # Autoflush standard output. # select STDOUT; \$|++; while () { chomp; my \$count; my \$hash=retrieve(\$hashfile); if (!defined \$hash->{"index"}) count = 0;} else { \$count = \$hash->{"index"}; } if (\$count >= \$maxinqueue) \$hash->{"index"} = 0; \$count = 0; 3 \$hash->{"index"}++; store \$hash, \$hashfile; my \$random_smtp = \${\$weighted_list}[\$count]; if (/^get\s(.+)\$/i) { print "200 \$random_smtp\n"; syslog("info","Using: %s Transport Service", \$random_smtp); next; } print "200 smtp:\n"; Execute the script to make sure it's working and no errors are encountered: /etc/postfix/random.pl Configure postfix to use the random generated smtp transport. Edit /etc/postfix/master.cf, by appending following lines: ## Round-robin outgoing smtp 127.0.0.1:23000 inet n n n - 0 spawn user=nobody argv=/etc/postfix/random.pl # random smtp smtp1 unix – – n – – smtp -o syslog_name=postfix-smtp1



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