

# Re: Transparent email proxy

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2007-07/msg00813.html>

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- *From:* Paul procacci <[pprocacci@xxxxxxxxxxxxxx](mailto:pprocacci@xxxxxxxxxxxxxx)>
  - *Date:* Fri, 13 Jul 2007 03:35:02 -0500
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Olivier Nicole wrote:

Hi,

As an ISP, or the person in charge of a large organisation, have you ever set-up a transparent email redirection: all outgoing email would be proceeded to an outgoing server in order to check for virus, spam, whatever.

Best regards,

Olivier

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The answer to your question is yes. To elaborate a bit more however here is a personal document I wrote (i.e. wasn't intended for anyone else), hopefully it provides you with good enough information and/or the information you were looking for. Mind you, this is BSD and qmail (yes, I'm a fanboy) specific. This assumes you are familiar with the software I decided to use under the components heading. Certainly feel free to ask any questions. I realize the document isn't "production quality" due to the reasons given about, but rest assured I can vouch for this method.

Additionally note, this is obviously not the only method....just that it's my method. ;P Cheers!

~Paul

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I have 5 machines behind a load balancer, one of which is FBSD 4.11, and the other 4 are FBSD 6.2. The component list I used is as follows:

Components

tcpserver

daemontools

qmail w/ QMAILQUEUE patch

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qmail-qfilter  
spamassassin  
\*custom c scripts (These are optional; one is provided)

### Flow

This is the current flow of any emails that reach the cluster. Note the items listed within \*'s are custom programs and explained later in this document:

tcpserver->qmail-smtpd->qmail-qfilter->spamc->\*reject\_spam\*->qmail-queue->qmail-remote

\*\*Note :: reject\_spam is included because that is needed for denying emails. (You could rewrite it in perl or sh if you needed to)

### Installation

The installation for any new and existing proxy boxes is extremely straightforward.

For all but qmail listed above, use the ports tree.

Setup spamd to create the /tmp/.spamd.sock socket. That's what I call mine, yours can/will vary.

Once all this is installed, create /etc/tcp.smtp with the following entry and build the cdb file:  
:+RELAYCLIENT=+QMAILQUEUE=/var/qmail/bin/qmail-queue-spam

Ensure tcpserver uses that file(i.e. -x)

While in /usr/ports/qmail.....

a) upload the attached files (patch-qmail.c and patch-Makefile) into ./files/

b) edit patch-qmail.c to reflect a message you would like to give.

'+ case 20: return "DAnti-SPAM Threshold Reached see [http://domain.com/legal\\_information.aspx](http://domain.com/legal_information.aspx):'

c) type: make extract

d) type: make patch

e) copy the attached file (reject-spam.c) to ./work/qmail\*/

f) Now, I haven't included some of my patches here do to sensitive information. Therefore, you'll need to edit the Makefile (work/qmail-\*/Makefile) to removed any and all references to check\_block and reject-record-spam.

g) type: make install

h) copy reject-spam to /var/qmail/bin

i) Copy the attached shell script (qmail-queue-spam) to /var/qmail/bin/; that is going to tie this together.

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Please note that it's NECESSARY to use the local software FW to allow relaying. IPFW is a good choice (my preference anyways). Deny everything to port 25, and only allow the hosts you want. I found this to be the easiest.

Then on those hosts, smarthost the "hidden" (not really) machine. --- Makefile.orig Thu Dec 14 16:23:19 2006

+++ Makefile Thu Dec 14 16:25:12 2006

@@ -157.6 +157.37 @@

> binm2

chmod 755 binm2

+check\_block: \

+load check\_block.o alloc.a error.a stralloc.a substdio.a control.o env.a open.a \

+getln.a fs.a str.a

+ ./load check\_block control.o stralloc.a substdio.a alloc.a \

+ error.a env.a str.a open.a getln.a fs.a str.a -L/usr/local/lib/mysql -lmysqlclient

±

+check\_block.o: \

+compile check\_block.c stralloc.h substdio.h readwrite.h str.h

+ ./compile check\_block.c -I/usr/local/include

±

+reject-record-spam: \

+load reject-record-spam.o slurpclose.o alloc.a str.a error.a stralloc.a getln.a \

+substdio.a control.o env.a fs.a

+ ./load reject-record-spam control.o slurpclose.o getln.a stralloc.a substdio.a alloc.a \

+ error.a env.a str.a fs.a open.a -L/usr/local/lib/mysql -lmysqlclient

±

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+reject-record-spam.o: \

+compile reject-record-spam.c stralloc.h substdio.h readwrite.h getln.h str.h scan.h fmt.h

+ ./compile reject-record-spam.c -I/usr/local/include

±

+reject-spam: \

+load reject-spam.o alloc.a str.a error.a stralloc.a getln.a \

+substdio.a

+ ./load reject-spam getln.a stralloc.a substdio.a str.a alloc.a \

+ error.a

±

+reject-spam.o: \

+compile reject-spam.c stralloc.h substdio.h readwrite.h getln.h str.h

+ ./compile reject-spam.c

±

binm2+df: \

binm2+df.sh conf-qmail

cat binm2+df.sh \

@@ -808.7 +839.7 @@

forward preline condredirect bouncesaying except maildirmake \

maildir2mbox maildirwatch qail elq pinq idedit install-big install \

instcheck home home+df proc proc+df binm1 binm1+df binm2 binm2+df \

-binm3 binm3+df

+binm3 binm3+df check\_block reject-record-spam reject-spam

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load:\  
make-load warn-auto.sh systype  
#!/bin/sh

exec /usr/local/bin/qmail-qfilter \  
/usr/local/bin/spamc -t 60 -s 250000 -U /tmp/spamd.sock -- \  
/var/qmail/bin/reject-spam

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