

Postfix quota reject 2.0

INTRODUCTION

As in the web site this are just a Postfix policy daemon and a independent daemon that allows you to reject mail for you're users when they are over quota or for preventing to use more space than available for the mailbox, clogging the mail queue or for avoiding perhaps tons of over quota bounces. This just rejects mail at smtp time by reading mailbox quota file status of the user mailbox. It works for Cyrus and Courier mailboxes. In version 1.0 of Postfix quota reject the policy and the daemon where just all in one but this had the problem that if you had several mailbox machines and several mail scanning machines in front of them like it's a normal situation on ISP was almost impossible to use postfix quota reject and a bit messy. This version enters too support for Cyrus mailboxes and does the ISP situation quite more tidy and transparent.

The version 2.0 contains the policy daemon that should be running on mail scanning machines and the mailbox quota file checker daemon in the mailbox machine. When a mail is received in frontal scanning machines policy daemon reads policy list of items, then processes the list of recipients converting all aliases to real addresses (only virtually for doing checks and if it should reject mail for a recipient part of an alias it returns the alias is over quota) and then checks quota status for all by opening a socket to the mailbox quota status file reader daemon (running on mailbox machines) passing to it size of the mail to check whether to accept or reject and the path to check for the file quota status then it answers to the policy daemon of mail scanning machines A or R (accept or reject). If the answer is reject it rejects with a 5xx error saying over quota recipients because perhaps the sender wants to remove those recipients and send the mail again. So we could say the load is in the policy daemon because the daemons on mailbox machines just take a path a size and do an operation calculating free space available and answering to policy daemon. One important part to say is that I have entered too an anti loop control for avoiding someone that could have defined an alias wrongly in the mysql table (entering in an infinite loop of resolving aliases). If you have aliases with more than 100 recipients you should increase the \$indice variable although I assume that you should use mailing lists better instead of using an alias for that purpose.

Policy daemon (frontales) can be launched as an inet daemon or just launched from postfix master (recommended and listening only on localhost) and the mailbox daemon can be too launched from postfix master... although really both daemons can be launched from inetd or other tcpwrappers.

INSTALLATION

I have it running on perl-5.8.8 and you need to have perl installed with syslog, DBI for accesing mysql and IO socket modules installed. For mysql I'm running mysql 5, first of all install mysql5 and import the database, later install perl and required modules and later configure all as described here. An important thing to say is that Postfix 2.2 or later is required.

First of all let's define postfixquotareject user, pass and server for accessing to mysql by opening postfix-qreject-frontales.pl and going to :

```
##### CONFIGURATION VARIABLES#####  
our $mysql_server = "xxx.xxx.xxx.xxx";  
our $mysql_port = 3306;  
our $database = "qreject";  
our $usu_mysql = "xxxxxxxxxxxx";  
our $clave_mysql = "xxxxxxxxxxxxxxxx";  
#####
```

Now in Postfix config directory in master.cf :

```
127.0.0.1:2222 inet n    n    n    -    0    spawn
                user=cyrus argv=/usr/local/etc/postfix/postfix-qreject-frontales.pl
```

```
xxx.xxx.xxx.xxx:3333 inet n    n    n    -    0    spawn
                user=cyrus argv=/usr/local/etc/postfix/postfix-qreject-buzones.pl
```

(the last definition of master.cf of buzones you should set it in the server that has the mailboxes)

I advise to run frontales in 127.0.0.1 of each mail scanning server although you could run it on another dedicated server but IMHO does not make any sense; buzones should be listening on an ip reachable by servers running frontales. I advise you to deny other accesses to this daemons apart from the own postfix and the frontales daemon to buzones daemon. Perhaps using ipfw or iptables or any packet filtering solution you prefer.

The user to run buzones should be allowed to read mailbox quota status files of courier or Cyrus.

In main.cf :

In smtpd_recipient_restrictions for doing things well you should set (always on mail scanning machines):

```
check_recipient_access hash:/usr/local/etc/postfix/pasarpoliticaono
```

and the file contains :

```
ramattack.net      hosteado
```

hosteado is a restriction class wich sais :

```
hosteado = check_policy_service inet:127.0.0.1:2222
defuera = dunno
```

At smtpd_end_of_data_restrictions you should set (always on mail scanning machines too) :

```
smtpd_end_of_data_restrictions = check_policy_service inet:127.0.0.1:2222
```

I have had problems with some postfix version by setting here a restriction class as in recipient_restrictions so is handled from the own code for doing nothing else than give dunno to postfix.

You can too define as me defuera wich gives a just a dunno in case you ever need for dealing with some other restrictions... it's just sane but not used here. Of course I have in my own mailserver this defined this way because my own mail machine does scanning and mailbox storing but you know else you should set frontales in master.cf of mail scanning machines and buzones in mailbox machine's master.cf file.

So, the only thing you should see is that if you use separate mailbox machines than mail scanning machines you should set everything of here in mail scanning machines except :

```
xxx.xxx.xxx.xxx:3333 inet n    n    n    -    0    spawn
                user=cyrus argv=/usr/local/etc/postfix/postfix-qreject-buzones.pl
```

that will run in mailbox machines and later you should fill properly the field maquina on the mysql table, in order the policy to connect to proper daemon for checking that mailbox.

Both programs support using no arguments or -v or -vv (as postfix native transports); so nothing, just verbose or very verbose for “syslogging” more or less.

In the database if you want to define an alias for wich you want to check if they're mailboxes are over-quota or not before accepting mail for the alias you should set an * in the maquina field of the database, else just enter the ip the address. If an address doesn't exist on the table postfix quota reject just accepts it and done, although it logs it to syslog; this becomes quite nice too because perhaps you just want to do checks of several users with postfixquotareject and not for the other rest... you know saving that resources, although the code is IMHO very very fast (I have benchmarked it with postal).

EXAMPLES OF CONFIGURATION IN MYSQL TABLE

- Normal mailbox definition for Cyrus (no alias) :

```
-----
+-----+-----+
| direccion          | buzon          | maquina |
+-----+-----+
| egoitz@ramattack.net |                |         |
/home/expert/correo/imap/domain/r/ramattack.net/quota/e/user.egoitz | 127.0.0.1 |
```

- Normal mailbox definition for Courier (no alias) :

```
++-----+-----+-----+
| direccion          | buzon          | maquina |
+-----+-----+-----+
| egoitz@hosting01ram.net | /home/vmail/hosting01ram.net/egoitz/maildirsiz |
127.0.0.1 |
```

- Alias definition :

```
+-----+-----+-----+
| direccion          | buzon          | maquina |
+-----+-----+-----+
| andresito@hosting01ram.net | egoitz@hosting01ram.net,egoitz@ramattack.net | * |
+-----+-----+-----+
```

*******NOTE*******

You could run a postfix group of mail scanning machines and later in mailbox machines... really any smtp daemon while mailboxes are maildir++ or cyrus mailboxes and have they're quota status files; you should just launch mailbox quota status checker daemon from inetd or other wrapper on mailbox machines and you're done. Really you only require Postfix on mail scanning machines who are going to accept or deny the entering mail. Cool don't you think :) ,

And that's all, any questions you could contact me at egoitz@ramattack.net. Please when contacting me, specify in the subject the word “PQR”, for helping my filters else could happen not to read you're mail accidentally