

Postfix в качестве почтового шлюза организации



Черновик!

Список задач

- Postfix должен выступать шлюзом для Microsoft Exchange
- Должна проводиться проверка на существование почтового ящика перед приемом письма - как довольно простой этап отсеивания спама
- Серые списки - борьба со спамом
- Проверка антивирусом. Все зараженные письма блокировать
- Проверка и анализ на принадлежность к спаму: пометить письмо, но доставить пользователю
- Dualdelivery. Входящая почта должна доставляться на основной и дополнительный почтовые сервера

Используемое ПО

- postfix - почтовый сервер (MTA)
- postfix-ldap - для работы с MS Active Directory
- postgrey - серые списки
- amavis - анализатор, использует антивирус и антиспам
- clamav - антивирус
- spamassassin - оценка спама

Установка

```
Postfix & Active Directory integration
# apt-get install postfix
```

```
Postfix & Active Directory integration
# apt-get install postfix-ldap
```

```
Amavis
# apt-get install amavis amavisd-new
```

```
ClamAV
# apt-get install clamav clamav-daemon clamav-dreshclam
```

Архиваторы для распаковки вложений

```
# apt-get install zoo unzip bzip2 p7zip cpio cabextract tnef pax nomarch  
lzop altermime arj lhasa ripole unrar
```

...

Интеграция с Microsoft Active Directory

Создаем файл `ldap_mydomain.ru.cf` с примерно таким содержимым:

```
# Проверка существования почтовых ящиков в Active Directory  
  
server_host = ldap://mydomain.int  
server_port = 3268  
timeout = 60  
search_base = DC=mydomain,DC=int  
query_filter =  
((&(proxyAddresses=smtp:%s)(!(userAccountControl:1.2.840.113556.1.4.803:=2))(  
|(objectClass=user)(objectClass=group)(objectClass=contact)(objectClass=publ  
icFolder)))  
result_format = %s  
result_attribute = cn  
#result_attribute = sAMAccountName  
special_result_attribute =  
scope = sub  
bind = yes  
bind_dn = ldaplookup@mydomain.int  
bind_pw = LDAPSecretPassword  
dereference = 0  
domain = mydomain.ru  
version=3  
debuglevel = 0  
#debuglevel = 9
```

Проверяем как оно работает:

```
# postmap -q someuser@mydomain.ru ldap://etc/postfix/ldap_mydomain.ru.cf
```

Если все хорошо и правильно - должны показаться ФИО учетной записи `someuser@mydomain.ru`

Добавляем проверку в `postfix/main.cf`:

```
virtual_mailbox_maps = ldap:/etc/postfix/ldap_mydomain.ru.cf
```

Amavis

Настраиваем по очереди в `/etc/amavis/conf.d/` (показаны только основные изменения)

01-debian

```
use strict;

$ENV{PATH} = $path =
'/usr/local/sbin:/usr/local/bin:/usr/sbin:/sbin:/usr/bin:/bin';
$file      = 'file';
$gzip      = 'gzip';
$bzip2     = 'bzip2';
$lzop      = 'lzop';
$rpm2cpio  = ['rpm2cpio.pl', 'rpm2cpio'];
$cabextract = 'cabextract';
$uncompress = ['uncompress', 'gzip -d', 'zcat'];
$unfreeze  = ['unfreeze', 'freeze -d', 'melt', 'fcats'];
$arc        = ['nomarch', 'arc'];
$unarj      = ['arj', 'unarj'];
$unrar      = ['rar', 'unrar']; #disabled (non-free, no security support)
$zoo        = 'zoo';
$lha        = 'lha';
$lha        = undef;
$pax        = 'pax';
$cpio       = 'cpio';
$ar         = 'ar';
$ripole     = 'ripole';
$dspam      = 'dspam';

1; # ensure a defined return
```

15-av_scanners

```
### http://www.clamav.net/
['ClamAV-clamd',
 \&ask_daemon, ["CONTSCAN {}\n", "/var/run/clamav/clamd.ctl"],
 qr/\bOK$/m, qr/\bFOUND$/m,
 qr/^.*?: (?!Infected Archive)(.*) FOUND$/m ],
```

15-content_filter_mode

```
use strict;

# You can modify this file to re-enable SPAM checking through spamassassin
# and to re-enable antivirus checking.

#
# Default antivirus checking mode
# Please note, that anti-virus checking is DISABLED by
# default.
# If You wish to enable it, please uncomment the following lines:

@bypass_virus_checks_maps = (
```

```
\%bypass_virus_checks, \@bypass_virus_checks_acl,  
\$bypass_virus_checks_re);  
  
#  
# Default SPAM checking mode  
# Please note, that anti-spam checking is DISABLED by  
# default.  
# If You wish to enable it, please uncomment the following lines:  
  
@bypass_spam_checks_maps = (  
    \%bypass_spam_checks, \@bypass_spam_checks_acl, \$bypass_spam_checks_re);  
  
1; # ensure a defined return
```

20-debian_defaults

```
use strict;  
$QUARANTINEDIR = "$MYHOME/virusmails";  
$quarantine_subdir_levels = 1; # enable quarantine dir hashing  
$log_recip_tmpl = undef;      # disable by-recipient level-0 log entries  
$DO_SYSLOG = 1;              # log via syslogd (preferred)  
$syslog_ident = 'amavis';    # syslog ident tag, prepended to all messages  
$syslog_facility = 'mail';  
$syslog_priority = 'debug';  # switch to info to drop debug output, etc  
$enable_db = 1;              # enable use of BerkeleyDB/libdb (SNMP and  
nanny)  
$enable_global_cache = 1;    # enable use of libdb-based cache if  
$enable_db=1  
$inet_socket_port = 10024;   # default listening socket  
$sa_spam_subject_tag = '***SPAM***';  
$sa_tag_level_deflt = -999;  # add spam info headers if at, or above that  
level  
$sa_tag2_level_deflt = 6.0;  # add 'spam detected' headers at that level  
$sa_kill_level_deflt = 21.0; # triggers spam evasive actions  
$sa_dsn_cutoff_level = 7;    # spam level beyond which a DSN is not sent  
$sa_mail_body_size_limit = 200*1024; # don't waste time on SA if mail is  
larger  
$sa_local_tests_only = 0;    # only tests which do not require internet  
access?  
$MAXLEVELS = 14;  
$MAXFILES = 1500;  
$MIN_EXPANSION_QUOTA =      100*1024; # bytes  
$MAX_EXPANSION_QUOTA = 300*1024*1024; # bytes  
$final_virus_destiny        = D_DISCARD; # (data not lost, see virus  
quarantine)  
$final_banned_destiny       = D_BOUNCE;  # D_REJECT when front-end MTA  
$final_spam_destiny         = D_DISCARD;  
$final_bad_header_destiny   = D_PASS;    # False-positive prone (for spam)  
$enable_dkim_verification = 1;  
$virus_admin = "postmaster\@$mydomain"; # due to D_DISCARD default  
$X_HEADER_LINE = "$myproduct_name at $mydomain";
```

```

@viruses_that_fake_sender_maps = (new_RE(
  [qr'\bEICAR\b'i => 0],          # av test pattern name
  [qr/.*/ => 1], # true for everything else
));
@keep_decoded_original_maps = (new_RE(
  qr'^MAIL-UNDECIPHERABLE$', # recheck full mail if it contains
  undecipherables
  qr'^(\ASCII(?! cpio)|text|uuencoded|xxencoded|binhex)'i,
));
$banned_filename_re = new_RE(
  # block certain double extensions anywhere in the base name
  qr'\.[^./]*\.(exe|vbs|pif|scr|bat|cmd|com|cpl|dll)\.?$'i,
  qr'\{[0-9a-f]{8}(-[0-9a-f]{4}){3}-[0-9a-f]{12}\}?$'i, # Windows Class ID
  CLSID, strict
  qr'^application/x-msdownload$'i,          # block these MIME types
  qr'^application/x-msdos-program$'i,
  qr'^application/hta$'i,
  qr'\.(exe|vbs|pif|scr|bat|cmd|com|cpl)$'i, # banned extension - basic
  qr'^\.(exe-ms)$',          # banned file(1) types
);
@score_sender_maps = ({ # a by-recipient hash lookup table,
  # results from all matching recipient tables are
  summed
  ## site-wide opinions about senders (the '.' matches any recipient)
  '.' => [ # the _first_ matching sender determines the score boost
    new_RE( # regexp-type lookup table, just happens to be all soft-
  blacklist
    [qr'^(bulkmail|offers|cheapbenefits|earnmoney|foryou)@'i          =>
  5.0],
    [qr'^(greatcasino|investments|lose_weight_today|market\.alert)@'i=>
  5.0],
    [qr'^(money2you|MyGreenCard|new\.tld\.registry|opt-out|opt-in)@'i=>
  5.0],
    [qr'^(optin|saveonlsmoking2002k|specialoffer|specialoffers)@'i    =>
  5.0],
    [qr'^(stockalert|stopsnoring|wantsome|workathome|yesitsfree)@'i    =>
  5.0],
    [qr'^(your_friend|greatoffers)@'i          =>
  5.0],
    [qr'^(inkjetplanet|marketopt|MakeMoney)\d*@'i          =>
  5.0],
  ),
  { # a hash-type lookup table (associative array)
    #'nobody@cert.org'          => -3.0,
    #'cert-advisory@us-cert.gov' => -3.0,
    #'owner-alert@iss.net'      => -3.0,
    #'slashdot@slashdot.org'    => -3.0,
    #'securityfocus.com'       => -3.0,
    #'ntbugtraq@listserv.ntbugtraq.com' => -3.0,
    #'security-alerts@linuxsecurity.com' => -3.0,
    #'mailman-announce-admin@python.org' => -3.0,
  }
);

```

```

#'amavis-user-admin@lists.sourceforge.net'=> -3.0,
#'amavis-user-bounces@lists.sourceforge.net' => -3.0,
#'spamassassin.apache.org'                => -3.0,
#'notification-return@lists.sophos.com'    => -3.0,
#'owner-postfix-users@postfix.org'         => -3.0,
#'owner-postfix-announce@postfix.org'      => -3.0,
#'owner-sendmail-announce@lists.sendmail.org' => -3.0,
#'sendmail-announce-request@lists.sendmail.org' => -3.0,
#'donotreply@sendmail.org'                => -3.0,
#'ca+envelope@sendmail.org'               => -3.0,
#'noreply@freshmeat.net'                  => -3.0,
#'owner-technews@postel.acm.org'           => -3.0,
#'ietf-123-owner@loki.ietf.org'           => -3.0,
#'cvs-commits-list-admin@gnome.org'        => -3.0,
#'rt-users-admin@lists.fsck.com'           => -3.0,
#'clp-request@comp.nus.edu.sg'            => -3.0,
#'surveys-errors@lists.nua.ie'            => -3.0,
#'emailnews@genomeweb.com'                => -5.0,
#'yahoo-dev-null@yahoo-inc.com'           => -3.0,
#'returns.groups.yahoo.com'               => -3.0,
#'clusternews@linuxnetworx.com'           => -3.0,
#lc('lvs-users-admin@LinuxVirtualServer.org') => -3.0,
#lc('owner-textbreakingnews@CNNIMAIL12.CNN.COM') => -5.0,
# soft-blacklisting (positive score)
#'sender@example.net'                     => 3.0,
#'.example.net'                           => 1.0,
},
], # end of site-wide tables
});
1; # ensure a defined return

```

21-ubuntu_defaults

```

use strict;

#
# These are Ubuntu specific defaults for amavisd-new configuration
#
# DOMAIN KEYS IDENTIFIED MAIL (DKIM)
$enable_dkim_verification = 1;
# Don't be verbose about sending mail:
@whitelist_sender_acl = qw( .$mydomain );
$final_virus_destiny      = D_DISCARD; # (defaults to D_BOUNCE)
$final_banned_destiny     = D_DISCARD; # (defaults to D_BOUNCE)
$final_spam_destiny       = D_DISCARD; # (defaults to D_REJECT)
$final_bad_header_destiny = D_PASS; # (defaults to D_PASS), D_BOUNCE
suggested
#$bad_header_quarantine_to = undef # use this for not quarantine mails with
bad_header

$virus_admin = undef;

```

```
$spam_admin = undef;  
  
#----- Do not modify anything below this line -----  
1; # insure a defined return
```

Ну и все остальное по желанию

Dualdelivery - двойная доставка

Для некоторых целей требуется чтобы входящая почта пересылалась на несколько серверов: основной и резервный.

Для этого была найдена интересная статейка:

<http://pjrlost.blogspot.ru/2012/11/smtp-delivery-to-two-mail-servers-via.html>

Осталось только немного заменить настройку чтобы почта шла таким путем: Internet → Postfix → Amavis(Antivirus → AntiSpam) → Postfix → Dualdelivery → Мои почтовые сервера

- Устанавливаем msmtп

```
# apt-get install msmtп
```

- Создаем пользователя smtpdd, создаем папки и даем на них права этому пользователю
 - /opt/smtpdd
 - /var/spool/smtpdd
 - /var/tmp/smtpdd
- Скачиваем файл <https://dl.dropbox.com/u/49959760/smtpdd.tar.gz> и разворачиваем содержимое в /opt/smtpdd
- Создаем задание cron

```
# crontab -e -u smtpdd
```

со следующим содержимым:

```
0 * * * * /opt/smtpdd/smtpdd.sh /var/spool/smtpdd/ qrun > /dev/null  
2>&1
```

- Добавляем в /etc/postfix/main.cf строчки

```
relay_domains = domain.whatever  
transport_maps = hash:/etc/postfix/domain.whatever.transport
```

- Создаем файл /etc/postfix/domain.whatever.transport и прописываем в него адрес нашего основного почтового сервера

```
domain.whatever smtp:[192.168.1.1]
```

- Даем команду

```
# postmap /etc/postfix/domain.whatever.transport
```

- Изменяем postfix/master.cf следующим образом:

```
#
#
=====
===
smtp      inet  n       -       -       -       smtpd
## Отправляем письмо в Amavis
   -o content_filter=amavis:[127.0.0.1]:10024
   -o receive_override_options=no_address_mappings

## Dualdelivery - пересылаем письмо на основной и резервный почтовые сервера
dualdelivery  unix  - n n - 5 pipe
               user=smtppdd argv=/opt/smtppdd/smtppdd.sh /var/spool/smtppdd/
               ${sender} ${recipient}
# Options:
# q - deliver and queue if fail
# d - deliver and delete if fail
# o - deliver and only queue the mail
       192.168.102.10:25:q 192.168.102.234:25:d

# Amavis
amavis      unix  -       -       n       -       2       lmtp
   -o disable_dns_lookups=yes
   -o lmtp_send_xforward_command=yes
   -o smtp_data_done_timeout=1200
   -o max_use=20

## Получаем письма с Amavis и обрабатываем дальше
127.0.0.1:10025 inet  n       -       n       -       2       smtpd
   -o content_filter=dualdelivery
   -o local_recipient_maps=
   -o relay_recipient_maps=
   -o smtpd_restriction_classes=
   -o smtpd_delay_reject=no
   -o smtpd_client_restrictions=permit_mynetworks,reject
   -o smtpd_helo_restrictions=
   -o smtpd_sender_restrictions=
   -o smtpd_recipient_restrictions=permit_mynetworks,reject
   -o smtpd_data_restrictions=reject_unauth_pipelining
   -o smtpd_end_of_data_restrictions=
   -o mynetworks=127.0.0.0/8
   -o smtpd_error_sleep_time=0
   -o smtpd_soft_error_limit=1001
   -o smtpd_hard_error_limit=1000
   -o smtpd_client_connection_count_limit=0
   -o smtpd_client_connection_rate_limit=0
   -o
receive_override_options=no_header_body_checks,no_unknown_recipient_checks
```

From:

<https://wiki.rtzra.ru/> - RTzRa's hive

Permanent link:

<https://wiki.rtzra.ru/software/postfix/postfix-mail-gate>

Last update: **2017/05/09 18:34**

