

Postfix, Dovecot, Sogo

Todo:

- Postfix: limiter les utilisateurs : /etc/postfix/sql/sql-relaydomains.cf
- Autoconfig
- Quotas
- backup

Postfix

1. Installer les paquets nécessaires:

```
apt update
apt-get install postfix postfix-mysql mariadb-server
```

Choisir Internet Site, définir le nom du serveur ainsi que l'adresse pour le postmaster.

2. Sécuriser l'installation maria-db

```
mysql_secure_installation
```

3. Vérifier la configuration Mysql:

1. Editer le fichier client

```
nano /etc/mysql/mariadb.conf.d/50-client.cnf
```

Il faut vérifier que la ligne suivante est présente

```
[client]
default-character-set          = utf8mb4
```

2. Editer le fichier mysql_client

```
nano /etc/mysql/mariadb.conf.d/50-mysql-client.cnf
```

Et vérifier si la configuration suivante est aussi définie:

```
[mysql]
default-character-set          = utf8mb4
```

3. Editer le fichier server

```
nano /etc/mysql/mariadb.conf.d/50-server.cnf
```

Et vérifier si la configuration suivante est aussi définie:

```
[mysqld]
character-set-client-handshake = FALSE
```

```
character-set-server      = utf8mb4
collation-server         = utf8mb4_unicode_ci
innodb_file_per_table    = TRUE
innodb_file_format       = barracuda
innodb_large_prefix      = TRUE
max_allowed_packet       = 128M
```

4. Ajouter root dans le groupe de postfix

```
adduser root postfix
```

5. Editer le fichier master.cf

```
nano /etc/postfix/master.cf
```

Modifier/ajouter les lignes suivantes:

```
submission inet n      -      y      -      -      smtpd
  -o syslog_name=postfix/submission
  -o smtpd_tls_security_level=encrypt
  -o smtpd_sasl_auth_enable=yes
#  -o smtpd_tls_auth_only=yes
  -o smtpd_reject_unlisted_recipient=no
  -o smtpd_sasl_type=dovecot
  -o smtpd_sasl_path=private/auth
#  -o smtpd_client_restrictions=$mua_client_restrictions
#  -o smtpd_helo_restrictions=$mua_helo_restrictions
#  -o smtpd_sender_restrictions=$mua_sender_restrictions
#  -o smtpd_recipient_restrictions=
#  -o smtpd_relay_restrictions=permit_sasl_authenticated,reject
  -o milter_macro_daemon_name=ORIGINATING
# Ancienne version LDA
#dovecot    unix      -      n      n      -      -      pipe
#  flags=DRhu user=vmail:vmail argv=/usr/lib/dovecot/deliver -f
#  ${sender} -d ${recipient}
```

6. Editer à présent le fichier main.cf

```
nano /etc/postfix/main.cf
```

Et veiller à ce que les lignes ressemblent à ceci:

```
myhostname = mail3.makeitsimple.be
mydomain = makeitsimple.be
myorigin = $myhostname
inet_interfaces = all
inet_protocols = all
mydestination = $myhostname, localhost.$mydomain, localhost
smtpd_recipient_restrictions = permit_mynetworks
reject_unauth_destination
smtpd_sender_restrictions = reject_unknown_sender_domain
home_mailbox = Maildir/
```

```
append_dot_mydomain = no
biff = no
config_directory = /etc/postfix
dovecot_destination_recipient_limit = 1
message_size_limit = 4194304
smtpd_tls_key_file = /etc/postfix/ssl/yourkey.key
smtpd_tls_cert_file = /etc/postfix/ssl/yourcertificate.crt
smtpd_use_tls=yes
smtpd_tls_session_cache_database = btree:${data_directory}/smtpd_scache

smtp_tls_key_file = /etc/postfix/ssl/yourkey.key
smtp_tls_cert_file = /etc/postfix/ssl/yourcertificate.crt
smtp_use_tls=yes
smtp_tls_session_cache_database = btree:${data_directory}/smtp_scache
smtp_tls_security_level=may
smtp_tls_note_starttls_offer = yes
smtp_tls_enforce_peername = no

smtpd_tls_security_level=may
#Transport LDA
#virtual_transport = dovecot
#Transport LMTP
virtual_transport = lmtp:unix:private/dovecot-lmtp
smtpd_sasl_type = dovecot
smtpd_sasl_path = private/auth

proxy_read_maps =
    proxy:unix:passwd.byname
    proxy:mysql:/etc/postfix/sql/sql-aliases.cf
    proxy:mysql:/etc/postfix/sql/sql-domains.cf
    proxy:mysql:/etc/postfix/sql/sql-domains-alias.cf
    proxy:mysql:/etc/postfix/sql/sql-mailboxes.cf
    proxy:mysql:/etc/postfix/sql/sql-relaydomains.cf
    proxy:mysql:/etc/postfix/sql/sql-transports.cf

virtual_mailbox_domains = proxy:mysql:/etc/postfix/sql/sql-domains.cf
virtual_alias_domains = proxy:mysql:/etc/postfix/sql/sql-domains-alias.cf
virtual_alias_maps =
    proxy:mysql:/etc/postfix/sql/sql-aliases.cf
    proxy:mysql:/etc/postfix/sql/sql-mailboxes.cf

relay_domains = proxy:mysql:/etc/postfix/sql/sql-relaydomains.cf
transport_maps = proxy:mysql:/etc/postfix/sql/sql-transports.cf
```

7. Créer un répertoire pour stocker les requêtes SQL de postfix

```
mkdir /etc/postfix/sql
cd /etc/postfix/sql
```

8. Nous allons à présent créer plusieurs fichiers sql:

1. **nano** sql-aliases.cf

Contenu:

```
# Retourne la destination d'un alias
user = posogodo-ro
password = Password
dbname = posogodo
hosts = 127.0.0.1
query = select destination from aliases a inner join domains b on
a.t_domains = b.id where CONCAT(address,'@',b.domain) = '%s' and
a.active=1 and b.active=1
```

2. **nano** sql-domains.cf

Contenu:

```
# Affiche les domaines autorisés
user = posogodo-ro
password = Password
dbname = posogodo
hosts = 127.0.0.1
query = SELECT domain FROM domains WHERE domain='%s' AND type='0'
AND active=1
```

3. **nano** sql-domains-alias.cf

Contenu:

```
# Affiche les domaines autorisés
user = posogodo-ro
password = Password
dbname = posogodo
hosts = 127.0.0.1
query = select destination from aliases where address='%s' and
active=1
```

4. **nano** sql-mailboxes.cf

Contenu:

```
# Retourne la destination d'un alias
user = posogodo-ro
password = Password
dbname = posogodo
hosts = 127.0.0.1
```

```
query = select concat(a.user,'@',b.domain) from mailboxes a inner
join domains b on a.t_domains = b.id where
CONCAT(a.user,'@',b.domain) = '%s' and a.active=1 and b.active=1
```

5. **nano** sql-relaydomains.cf

Contenu:

```
# # Retourne si un relay est autorisé
user = posogodo-ro
password = Password
dbname = posogodo
hosts = 127.0.0.1
query = select domain from domains where type in ('1','2','3') and
active =1 and domain='%s'
```

6. **nano** sql-transports.cf

Contenu:

```
# # # Retourne le transport à utiliser
user = posogodo-ro
password = Password
dbname = posogodo
hosts = 127.0.0.1
query = select destination from relay_transports a inner join
domains b on b.id = a.t_domains where b.domain='%s' and a.active =
1 and b.active = 1 and b.type in ('2','3')
```

9. Modifier les droits du répertoire

```
chown root:postfix /etc/postfix/sql -R
chmod 650 /etc/postfix/sql -R
```

10. Redémarrer postfix

```
systemctl restart postfix
```

Dovecot

Install & config

1. Installer les paquets

```
apt install dovecot-imapd dovecot-pop3d dovecot-mysql
```

2. Créer un groupe et un utilisateur vmail

```
groupadd -g 6000 vmail
useradd -g vmail -u 6000 vmail -d /srv/vmail -m
```

3. Editer le fichier dovecot.conf

```
nano /etc/dovecot/dovecot.conf
```

Modifications à apporter:

```
listen = *, ::

service stats {
    unix_listener stats-reader {
        user = vmail
        group = vmail
        mode = 0660
    }

    unix_listener stats-writer {
        user = vmail
        group = vmail
        mode = 0660
    }
}
```

4. Editer le fichier auth-system

```
nano /etc/dovecot/conf.d/auth-system.conf.ext
```

Et commenter tout le fichier. Autrement ceci peut affecter la rapidité du serveur.

5. Editer le fichier auth

```
nano /etc/dovecot/conf.d/10-auth.conf
```

Contenu à modifier:

```
disable_plaintext_auth = yes
auth_mechanisms = plain login
!include auth-sql.conf.ext
```

6. Editer le fichier auth-sql-conf

```
nano /etc/dovecot/conf.d/auth-sql.conf.ext
```

Voici le contenu:

```
# %u – username
# %n – user part in user@domain, same as %u if there's no domain
# %d – domain part in user@domain, empty if there's no domain
# %h – home directory
```

```
passdb {
  driver = sql
  args = /etc/dovecot/dovecot-sql.conf.ext
}
userdb {
  driver = static      ## Don't forget to change this
  args = uid=vmail gid=vmail home=/srv/vmail/%d/%n/Maildir
}
```

7. Editer le fichier dovecot-sql.conf

```
nano /etc/dovecot/dovecot-sql.conf.ext
```

Et modifier ceci:

```
driver = mysql
connect = host=127.0.0.1 dbname=posogodo user=posogodo-ro
password=Password
default_pass_scheme = SHA512-CRYPT
password_query = SELECT concat(a.user,'@',b.`domain` ) as user,
password FROM posogodo.mailboxes a left join posogodo.domains b on
a.t_domains = b.id where a.active='1' and b.active='1' and
concat(a.user,'@',b.`domain` ) = '%u';
```

8. Editer le fichier 10-mail.conf

```
nano /etc/dovecot/conf.d/10-mail.conf
```

Contenu:

```
mail_location = maildir:/srv/vmail/%d/%n/Maildir
namespace inbox {
  inbox = yes
}
mail_privileged_group = mail
mbox_write_locks = fcntl
```

9. Editer le fichier 10-master

```
nano /etc/dovecot/conf.d/10-master.conf
```

Contenu:

```
service imap-login {
  inet_listener imap {
    port = 143
  }
  inet_listener imaps {
  }
}
service pop3-login {
```

```
inet_listener pop3 {
    port = 110
}
inet_listener pop3s {
}
}
service lmtp {
    unix_listener /var/spool/postfix/private/dovecot-lmtp {
        mode = 0600
        user = postfix
        group = postfix
    }
}
service auth {
    unix_listener /var/spool/postfix/private/auth {
        mode = 0666
        user = postfix
        group = postfix
    }
    unix_listener auth-userdb {
        mode = 0600
        user = vmail
    }
    user = dovecot
}
service auth-worker {
    user = vmail
}
service dict {
    unix_listener dict {
    }
}
}
```

10. Le fichier 10-ssl pour vos certificats:

```
nano /etc/dovecot/conf.d/10-ssl.conf
```

Contenu:

```
ssl = required
ssl_cert = </etc/letsencrypt/live/mail2.makeitsimple.be/fullchain.pem
ssl_key = </etc/letsencrypt/live/mail2.makeitsimple.be/privkey.pem
```

11. Et enfin le fichier mailbox:

```
nano /etc/dovecot/conf.d/15-mailboxes.conf
```

Contenu:

```
namespace inbox {
    # These mailboxes are widely used and could perhaps be created
```

```
automatically:
  mailbox Drafts {
    auto = subscribe
    special_use = \Drafts
  }
  mailbox Spam {
    auto = subscribe
    autoexpunge = 60d
    special_use = \Junk
  }
  mailbox Trash {
    auto = subscribe
    autoexpunge = 60d
    special_use = \Trash
  }

  # For \Sent mailboxes there are two widely used names. We'll mark
  both of
  # them as \Sent. User typically deletes one of them if duplicates are
  created.
  mailbox Sent {
    auto = subscribe
    special_use = \Sent
  }
  mailbox "Sent Messages" {
    special_use = \Sent
  }

  # If you have a virtual "All messages" mailbox:
  #mailbox virtual/All {
  #  special_use = \All
  #  comment = All my messages
  #}

  # If you have a virtual "Flagged" mailbox:
  #mailbox virtual/Flagged {
  #  special_use = \Flagged
  #  comment = All my flagged messages
  #}
}
```

Sieve

1. Installer les paquets

```
apt install dovecot-sieve dovecot-managesieved
```

2. Editer le fichier 20-managesieve.conf

```
nano /etc/dovecot/conf.d/20-managesieve.conf
```

Et modifier le fichier de la sorte:

```
protocols = $protocols sieve

service managesieve-login {
  inet_listener sieve {
    port = 4190
  }
  service_count = 1

  process_min_avail = 0
  vsz_limit = 64M
}

protocol sieve {
  managesieve_max_line_length = 65536
  mail_max_userip_connections = 10
  managesieve_logout_format = bytes=%i/%o
  managesieve_implementation_string = Dovecot Pigeonhole
  managesieve_max_compile_errors = 5
}
```

3. Editer le fichier 90-sieve.conf

```
nano /etc/dovecot/conf.d/90-sieve.conf
```

et modifier le fichier

```
plugin {
  sieve= /srv/vmail/%d/%n/sieve/.dovecot.sieve
  sieve_dir = /srv/vmail/%d/%n/sieve
}
```

4. Editer le fichier 20-lmtp.conf

```
nano /etc/dovecot/conf.d/20-lmtp.conf
```

et rajouter **sieve** après \$mail_plugins

5. Editer le fichier 20-imap.conf

```
nano /etc/dovecot/conf.d/20-imap.conf
```

et rajouter **imap-sieve** après \$mail_plugins

6. Pour supporter Sieve dans SOGo, editer le fichier sogo.conf

```
nano /etc/sogo/sogo.conf
```

et rajouter les deux lignes suivantes:

```
NGImap4ConnectionStringSeparator = ".";  
SOGOSieveServer = "sieve://127.0.0.1:4190";
```

Quota

1. Dans le fichier 10-mail.conf rajouter ceci

```
mail_plugins = quota
```

2. Dans le fichier 20-imap.conf rajouter

```
protocol imap {  
    mail_plugins = $mail_plugins imap_sieve antispam imap_quota  
}
```

3. Dans le fichier 20-lmtp.conf rajouter

```
protocol lmtp {  
    mail_plugins = $mail_plugins sieve quota  
}
```

4. Dans le fichier 90-quota.conf modifier

```
plugin {  
    quota_warning = storage=95%% quota-warning 95 %u  
    quota_warning2 = storage=80%% quota-warning 80 %u  
}  
service quota-warning {  
    executable = script /usr/local/bin/quota-warning.sh  
    user = dovecot  
    unix_listener quota-warning {  
        user = vmail  
    }  
}  
plugin {  
    #quota = dirsize:User quota  
    #quota = maildir:User quota  
    #quota = dict:User quota::proxy::quota  
    quota = count:User quota  
    #quota = fs:User quota  
    quota_vsizes = yes  
}
```

5. Dans le fichier conf.d/auth-sql.conf.ext

```
passdb {  
    driver = sql  
  
    # Path for SQL configuration file, see example-config/dovecot-  
    sql.conf.ext
```

```
args = /etc/dovecot/dovecot-sql.conf.ext
}

# "prefetch" user database means that the passdb already provided the
# needed information and there's no need to do a separate userdb
lookup.
# <doc/wiki/UserDatabase.Prefetch.txt>
#userdb {
# driver = prefetch
#}

userdb {
driver = prefetch
}

userdb {
  driver = sql
  args = /etc/dovecot/dovecot-sql.conf.ext
}
```

6. Dans le fichier 10-mail.conf avec:

```
mail_uid = 6000
mail_gid = 6000
```

7. Dans le fichier /etc/dovecot/dovecot-sql.conf.ext modifier/ajouter les deux lignes suivantes:

```
password_query = SELECT concat(a.user, '@', b.`domain` ) as user,
password, CONCAT('*:storage=', quota) AS quota_rule FROM
posogodo.mailboxes a left join posogodo.domains b on a.t_domains = b.id
where a.active='1' and b.active='1' and concat(a.user, '@', b.`domain` )
= '%u';
user_query = SELECT concat(a.user, '@', b.`domain` ) as
user, concat('/srv/vmail', '/', b.domain, '/', a.user) as home, password,
CONCAT('*:storage=', quota) AS quota_rule FROM posogodo.mailboxes a
left join posogodo.domains b on a.t_domains = b.id where a.active='1'
and b.active='1' and concat(a.user, '@', b.`domain` ) = '%u';
```

8. Faire un script d'alerte pour dépassement de quota:

```
nano /usr/local/bin/quota-warning.sh
```

Avec le contenu suivant:

[quota-warning.sh](#)

```
#!/bin/bash
PERCENT=$1
USER=$2
cat << EOF | /usr/sbin/sendmail $USER -0
"plugin/quota=maildir:User quota:noenforcing"
```

```
From: postmaster@makeitsimple.be
Subject: quota warning
```

```
Attention: Votre boite email est pleine à $PERCENT%.
Passé 100% il ne sera plus possible de recevoir du courrier.
Veuillez prendre les actions nécessaires pour nettoyer votre boite
ou prendre un abonnement plus important.
```

```
EOF
```

9. Donner les droits nécessaires à ce fichier

```
chown vmail:vmail /usr/local/bin/quota-warning.sh
chmod +x /usr/local/bin/quota-warning.sh
```

10. Quelques commandes de debugging:

1. doveadm mailbox status -u vincent@x.org vsize '*'
2. doveadm quota recal
3. doveadm quota get -u vincent@x.org

11. Pour plus d'infos, dans le fichier 10-loggin mettre mail-debug & auth-debug sur true

rspamd

Petite note sur rspamd:

- les configs ajoutées dans `local.d` remplacent tout un fichier de configuration.
- les configs ajoutées dans `override.d` remplacent juste les paramètres indiqués.

Installer rspamd

1. Installer les paquets:

```
apt install redis-server software-properties-common lsb-release
```

2. Ajouter la clé gpg du dépôt rspamd:

```
wget -O- https://rspamd.com/apt-stable/gpg.key | apt-key add -
echo "deb http://rspamd.com/apt-stable/ $(lsb_release -cs) main" | tee
-a /etc/apt/sources.list.d/rspamd.list
```

3. Mettre à jour & installer rspamd:

```
apt update
apt install rspamd
```

4. Modification du port d'écoute:

```
nano /etc/rspamd/local.d/worker-normal.inc
```

Contenu

```
bind_socket = "127.0.0.1:11333";
```

5. Modification du port milter

```
nano /etc/rspamd/local.d/worker-proxy.inc
```

Contenu:

```
bind_socket = "127.0.0.1:11332";
milter = yes;
timeout = 120s;
upstream "local" {
    default = yes;
    self_scan = yes;
}
```

6. Nous allons à présent créer un code pour l'interface de gestion rspamd:

```
rspamadm pw --encrypt -p Password
```

Garder ce code pour l'étape suivante

7. Editer le fichier contenant le mot de passe:

```
nano /etc/rspamd/local.d/worker-controller.inc
```

Contenu:

```
password = "lecode-encrypté"
```

8. Editer le fichier classifieur-bayes:

```
nano /etc/rspamd/local.d/classifieur-bayes.conf
```

Contenu:

```
servers = "127.0.0.1";
backend = "redis";
autolearn = true;
```

9. Editer le fichier milter_headers:

```
nano /etc/rspamd/local.d/milter_headers.conf
```

Contenu:

```
extended_spam_headers = true;
skip_local = false;
skip_authenticated = false;
use = ["spam-header"];
```

```
routines {
    spam-header {
#     header = "X-Spam-Flag";
#     value = "Yes";
        header = "X-Spam";
        value = "Yes";
    }
}
```

10. Redémarrer rspamd:

```
systemctl restart rspamd
```

11. Ajouter un reverse proxy dans nginx:

```
nano /etc/nginx/sites-enabled/default
```

Contenu:

```
location ^~ /rspamd/ {
    proxy_pass http://127.0.0.1:11334/;
    proxy_set_header Host $host;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
}
```

12. Dans 20-lmtp.conf, activer Sieve pour le lmtp

```
/etc/dovecot/conf.d/20-lmtp.conf
```

Contenu:

```
protocol lmtp {
    # Space separated list of plugins to load (default is global
    mail_plugins).
    mail_plugins = $mail_plugins sieve
}
```

13. Lier rspamd à postfix:

```
postconf smtpd_milters=inet:127.0.0.1:11332
postconf non_smtpd_milters=inet:127.0.0.1:11332
postconf milter_protocol=6
postconf milter_mail_macros="i {mail_addr} {client_addr} {client_name}
{auth_authen}"
postconf -e "milter_default_action = accept"
service postfix restart
```

14. Pour tester la config:

```
Pour tester la config
rspamadm configtest
```

```
rspamadm configdump
```

15. Nous allons mettre en place un filtre en dovecot pour déplacer les spams dans le bon dossier

```
nano /etc/dovecot/conf.d/90-sieve.conf
```

Rajouter

```
sieve_after = /etc/dovecot/sieve-after/
```

16. Créer le répertoire ainsi que le fichier avec la règle sieve:

```
mkdir /etc/dovecot/sieve-after  
nano /etc/dovecot/sieve-after/spam-to-folder.sieve
```

Contenu:

```
require ["fileinto","mailbox"];  
  
if header :contains "X-Spam" "Yes" {  
    fileinto :create "Junk";  
    stop;  
}
```

17. Compiler la règle:

```
sievec /etc/dovecot/sieve-after/spam-to-folder.sieve  
service dovecot restart
```

18. Création de deux règles pour whitelister les domaines ou les ips. Editer le fichier multimap.conf

```
nano /etc/rspamd/local.d/multimap.conf
```

Et coller le contenu suivant

```
WHITELIST_SENDER_DOMAIN {  
    type = "from";  
    filter = "email:domain";  
    map = "/etc/rspamd/local.d/whitelist.sender.domain.map";  
    score = -10.0  
}  
  
IP_WHITELIST {  
    type = "ip";  
    prefilter = "true";  
    map = "/etc/rspamd/local.d/whitelist.ip.map";  
    action = "accept";  
}
```

1. Créer ensuite un fichier whitelist.sender.domain.map avec les domaines/emails à whitelister
2. Créer aussi un fichier whitelist.ip.map pour autoriser des ips spécifiques (j'utilise

127.0.0.1 pour éviter que les quota warning ne soient flaggués SPAM)

Signer DKIM

1. Créer un répertoire pour stocker les clés:

```
mkdir /var/lib/rspamd/dkim/
```

2. Créer un fichier dkim_signing

```
nano /etc/rspamd/local.d/dkim_signing.conf
```

Avec ceci:

```
# If false, messages with empty envelope from are not signed
allow_envfrom_empty = true;

# If true, envelope/header domain mismatch is ignored
allow_hdrfrom_mismatch = false;

# If true, multiple from headers are allowed (but only first is used)
allow_hdrfrom_multiple = false;

# If true, username does not need to contain matching domain
allow_username_mismatch = false;

# Default path to key, can include '$domain' and '$selector' variables
path = "/var/lib/rspamd/dkim/$domain.$selector.key";

# Default selector to use
selector = "dkim";

# If false, messages from authenticated users are not selected for
signing
sign_authenticated = true;

# If false, messages from local networks are not selected for signing
sign_local = true;

# Map file of IP addresses/subnets to consider for signing
# sign_networks = "/some/file"; # or url

# Symbol to add when message is signed
symbol = "DKIM_SIGNED";

# Whether to fallback to global config
try_fallback = true;

# Domain to use for DKIM signing: can be "header" (MIME From),
"envelope" (SMTP From) or "auth" (SMTP username)
```

```
use_domain = "header";

# Domain to use for DKIM signing when sender is in sign_networks
("header"/"envelope"/"auth")
#use_domain_sign_networks = "header";

# Domain to use for DKIM signing when sender is a local IP
("header"/"envelope"/"auth")
#use_domain_sign_local = "header";

# Whether to normalise domains to eSLD
use_esld = true;

# Whether to get keys from Redis
use_redis = false;

# Hash for DKIM keys in Redis
key_prefix = "DKIM_KEYS";

# map of domains -> names of selectors (since rspamd 1.5.3)
#selector_map = "/etc/rspamd/dkim_selectors.map";

# map of domains -> paths to keys (since rspamd 1.5.3)
#path_map = "/etc/rspamd/dkim_paths.map";

# If `true` get pubkey from DNS record and check if it matches private
key
check_pubkey = false;
# Set to `false` if you want to skip signing if public and private keys
mismatch
allow_pubkey_mismatch = true;
```

3. Créer une clé par domaine:

```
rspamadm dkim_keygen -s 'dkim' -b 2048 -d domaine.net -k
/var/lib/rspamd/dkim/domaine.net.dkim.key > domaine.net.txt
```

Dans le fichier .txt vous trouverez la configuration à appliquer dans votre zone DNS avec le sous domaine dkim._domainkey

Apprentissage des spams dans dovecot

1. Editer le fichier 20-imap.conf

```
nano /etc/dovecot/conf.d/20-imap.conf
```

et rajouter **imap_sieve** à la hauteur de mail_plugins.

2. Editer le fichier 90-sieve.conf

```
nano /etc/dovecot/conf.d/90-sieve.conf
```

et rajouter **sieve_plugins = sieve_imapsieve sieve_extprograms** dans le block "plugin".

3. Editer le fichier 90-plugin.conf

```
nano /etc/dovecot/conf.d/90-plugin.conf
```

Et ajouter les lignes suivantes:

```
# From elsewhere to Junk folder
imapsieve_mailbox1_name = Junk
imapsieve_mailbox1_causes = COPY
imapsieve_mailbox1_before = file:/etc/dovecot/sieve/learn-spam.sieve

# From Junk folder to elsewhere
imapsieve_mailbox2_name = *
imapsieve_mailbox2_from = Junk
imapsieve_mailbox2_causes = COPY
imapsieve_mailbox2_before = file:/etc/dovecot/sieve/learn-ham.sieve

sieve_pipe_bin_dir = /etc/dovecot/sieve
sieve_global_extensions = +vnd.dovecot.pipe
```

4. Créer un dossier de config sieve

```
mkdir /etc/dovecot/sieve
```

5. Ensuite créer un fichier learn-spam.sieve

```
nano /etc/dovecot/sieve/learn-spam.sieve
```

dont le contenu est:

```
require ["vnd.dovecot.pipe", "copy", "imapsieve"];
pipe :copy "rspamd-learn-spam.sh";
```

6. Créer un fichier learn-ham.sieve

```
nano /etc/dovecot/sieve/learn-ham.sieve
```

dont le contenu est:

```
require ["vnd.dovecot.pipe", "copy", "imapsieve"];
pipe :copy "rspamd-learn-ham.sh";
```

7. Compiler les scripts sieve et appliquer les droits

```
sievec /etc/dovecot/sieve/learn-spam.sieve
sievec /etc/dovecot/sieve/learn-ham.sieve
chmod u=rw,go= /etc/dovecot/sieve/learn-{spam,ham}.sieve
```

```
chown vmail.vmail /etc/dovecot/sieve/learn-{spam,ham}.sieve
```

8. Créer un fichier rspamd-learn-spam.sh

```
nano /etc/dovecot/sieve/rspamd-learn-spam.sh
```

dont le contenu est:

```
#!/bin/sh  
exec /usr/bin/rspamd learn_spam -h localhost:11334
```

9. et un fichier rspamd-learn-ham.sh

```
nano /etc/dovecot/sieve/rspamd-learn-ham.sh
```

dont le contenu est:

```
#!/bin/sh  
exec /usr/bin/rspamd learn_ham -h localhost:11334
```

10. Changer les droits et redémarrer dovecot

```
chmod u=rwx,go= /etc/dovecot/sieve/rspamd-learn-{spam,ham}.sh  
chown vmail.vmail /etc/dovecot/sieve/rspamd-learn-{spam,ham}.sh  
service dovecot restart
```

Filtrer les virus

1. Installer les paquets clamav:

```
apt install clamav clamav-daemon
```

2. Vérifier qu'un cron tourne pour mettre à jour via freshclam

3. Editer le fichier de config

```
nano /etc/rspamd/local.d/antivirus.conf
```

Et mettre le code suivant:

```
clamav {  
    # If set force this action if any virus is found (default unset: no  
    action is forced)  
    # action = "reject";  
    # message = '${SCANNER}: virus found: "${VIRUS}";'  
    # Scan mime_parts seperately - otherwise the complete mail will be  
    transfered to AV Scanner  
    #attachments_only = true; # Before 1.8.1  
    #scan_mime_parts = true; # After 1.8.1  
    # Scanning Text is suitable for some av scanner databases (e.g.  
    Sanesecurity)
```

```
#scan_text_mime = false; # 1.8.1 +
#scan_image_mime = false; # 1.8.1 +
# If `max_size` is set, messages > n bytes in size are not scanned
#max_size = 20000000;
# symbol to add (add it to metric if you want non-zero weight)
symbol = "CLAM_VIRUS";
# type of scanner: "clamav", "fprot", "sophos" or "savapi"
type = "clamav";
# If set true, log message is emitted for clean messages
#log_clean = false;
# Prefix used for caching in Redis: scanner-specific defaults are
used. If Redis is enabled and
# multiple scanners of the same type are present, it is important to
set prefix to something unique.
#prefix = "rs_cl_";
# For "savapi" you must also specify the following variable
#product_id = 12345;
# servers to query (if port is unspecified, scanner-specific default
is used)
# can be specified multiple times to pool servers
# can be set to a path to a unix socket
servers = "127.0.0.1:3310";
# if `patterns` is specified virus name will be matched against
provided regexes and the related
# symbol will be yielded if a match is found. If no match is found,
default symbol is yielded.
patterns {
    # symbol_name = "pattern";
    JUST_EICAR = '^Eicar-Test-Signature$';
}
# In version 1.7.0+ patterns could be extended
#patterns = {SANE_MAL = 'Sanesecurity\.Malware\.*', CLAM_UNOFFICIAL =
'UNOFFICIAL$'};
# `whitelist` points to a map of IP addresses. Mail from these
addresses is not scanned.
whitelist = "/etc/rspamd/antivirus.wl";
}
```

SOGo

1. Installer la clé gpg du dépôt SOGo:

```
gpg --keyserver hkp://pgp.mit.edu --recv-key 0x810273C4
gpg --armor --export 0x810273C4 | apt-key add -
```

2. Créer un dépôt

```
nano /etc/apt/sources.list.d/sogo.list
```

Avec le contenu:

```
# Commercial
#deb
https://<username>:<password>@packages.inverse.ca/SOGo/release/2/debian
/ buster buster
# Non-Commercial
deb http://packages.inverse.ca/SOGo/nightly/5/debian/ buster buster
```

3. Rafraîchir les dépôts et installer SOGo

```
apt install sogo sogo-activesync memcached
```

4. Se connecter sur le serveur MySQL:

```
mysql -u root -p
```

et faire les commandes suivantes:

```
CREATE DATABASE sogo;
CREATE USER 'sogo'@'localhost' IDENTIFIED BY 'Password';
GRANT ALL privileges ON sogo.* TO 'sogo'@'localhost';
USE posogodo;
CREATE VIEW sogo.sogo_view AS SELECT concat(mailboxes.user,'@',
domains.domain) AS c_uid, concat(mailboxes.user,'@', domains.domain) AS
c_name, domains.domain AS c_domain, concat(mailboxes.user,'@',
domains.domain) AS mail, CONCAT(firstname, ' ',lastname) AS c_cn,
mailboxes.password AS c_password, mailboxes.sogo_kind AS c_kind,
mailboxes.sogo_multibooking AS c_multibooking FROM mailboxes LEFT JOIN
domains ON mailboxes.t_domains = domains.id WHERE mailboxes.active=1 &
domains.active=1 AND mailboxes.sogo_active =1 ;
```

5. Editer le fichier sogo.conf:

```
nano /etc/sogo/sogo.conf
```

Et mettre un contenu similaire

```
{
/* ***** Main SOGo configuration file
*****
*
*
* Since the content of this file is a dictionary in OpenStep plist
format, *
* the curly braces enclosing the body of the configuration are
mandatory. *
* See the Installation Guide for details on the format.
*
*
* C and C++ style comments are supported.
```

```
*
*
*
* This example configuration contains only a subset of all available
*
* configuration parameters. Please see the installation guide more
details. *
*
*
* ~sogo/GNUstep/Defaults/.GNUstepDefaults has precedence over this
file, *
* make sure to move it away to avoid unwanted parameter overrides.
*
*
*
*****
***/

/* Database configuration (mysql://, postgresql:// or oracle://) */
//SGoProfileURL =
"postgresql://sogo:sogo@localhost:5432/sogo/sogo_user_profile";
//OCSFolderInfoURL =
"postgresql://sogo:sogo@localhost:5432/sogo/sogo_folder_info";
//OCSSessionsFolderURL =
"postgresql://sogo:sogo@localhost:5432/sogo/sogo_sessions_folder";

SGoProfileURL =
"mysql://sogo:Password@127.0.0.1:3306/sogo/sogo_user_profile";
OCSFolderInfoURL =
"mysql://sogo:Password@127.0.0.1:3306/sogo/sogo_folder_info";
OCSSessionsFolderURL =
"mysql://sogo:Password@127.0.0.1:3306/sogo/sogo_sessions_folder";

/* Mail */
SGoDraftsFolderName = Drafts;
SGoSentFolderName = Sent;
SGoTrashFolderName = Trash;
SGoJunkFolderName = Junk;
SGoIMAPServer = "localhost";
//SGoSieveServer = "sieve://127.0.0.1:4190";
SGoSMTPServer = "smtp://127.0.0.1";
//SGoMailDomain = acme.com;
SGoMailingMechanism = smtp;
//SGoForceExternalLoginWithEmail = NO;
//SGoMailSpoolPath = /var/spool/sogo;
//Le paramètre suivant est important pour la génération de filtres
Sieve
//NGImap4ConnectionStringSeparator = ".";
```

```
/* Notifications */
//S0GoAppointmentSendEMailNotifications = NO;
//S0GoACLsSendEMailNotifications = NO;
//S0GoFoldersSendEMailNotifications = NO;

/* Authentication */
//S0GoPasswordChangeEnabled = YES;

/* LDAP authentication example */
//S0GoUserSources = (
// {
//     type = ldap;
//     CNFieldName = cn;
//     UIDFieldName = uid;
//     IDFieldName = uid; // first field of the DN for direct binds
//     bindFields = (uid, mail); // array of fields to use for
indirect binds
//     baseDN = "ou=users,dc=acme,dc=com";
//     bindDN = "uid=sogo,ou=users,dc=acme,dc=com";
//     bindPassword = qwerty;
//     canAuthenticate = YES;
//     displayName = "Shared Addresses";
//     hostname = "ldap://127.0.0.1:389";
//     id = public;
//     isAddressBook = YES;
// }
//);

/* LDAP AD/Samba4 example */
//S0GoUserSources = (
// {
//     type = ldap;
//     CNFieldName = cn;
//     UIDFieldName = sAMAccountName;
//     baseDN = "CN=users,dc=domain,dc=tld";
//     bindDN = "CN=sogo,CN=users,DC=domain,DC=tld";
//     bindFields = (sAMAccountName, mail);
//     bindPassword = password;
//     canAuthenticate = YES;
//     displayName = "Public";
//     hostname = "ldap://127.0.0.1:389";
//     filter = "mail = '*'";
//     id = directory;
//     isAddressBook = YES;
// }
//);

/* SQL authentication example */
/* These database columns MUST be present in the view/table:
*     c_uid - will be used for authentication - it's the username or
```

```
username@domain.tld)
*   c_name - which can be identical to c_uid - will be used to
uniquely identify entries
*   c_password - password of the user, plain-text, md5 or sha
encoded for now
*   c_cn - the user's common name - such as "John Doe"
*   mail - the user's mail address
*   See the installation guide for more details
*/
S0GoUserSources =
(
  {
    type = sql;
    id = directory;
    displayName = "Annuaire";
    viewURL = "mysql://sogo:Pasword@127.0.0.1:3306/sogo/sogo_view";
    canAuthenticate = YES;
    isAddressBook = YES;
    DomainFieldName = "c_domain";
    KindFieldName = "c_kind";
    MultipleBookingsFieldName = "c_multibooking";
    userPasswordAlgorithm = sha512-crypt;
  }
);
MySQL4Encoding = "utf8mb4";
/* Web Interface */
S0GoPageTitle = S0Go;
//S0GoVacationEnabled = YES;
//S0GoForwardEnabled = YES;
//S0GoSieveScriptsEnabled = YES;
//S0GoMailAuxiliaryUserAccountsEnabled = YES;
//S0GoTrustProxyAuthentication = NO;
//S0GoXSRFValidationEnabled = YES;

/* General - S0GoTimeZone *MUST* be defined */
S0GoLanguage = French;
S0GoTimeZone = Europe/Brussels;
S0GoCalendarDefaultRoles = (
  PublicDAndTVviewer,
  ConfidentialDAndTVviewer
);
//S0GoSuperUsernames = (sogo1, sogo2); // This is an array - keep the
parens!
//SxVMemLimit = 384;
//WOPidFile = "/var/run/sogo/sogo.pid";
S0GoMemcachedHost = "127.0.0.1";
/* Debug */
S0GoDebugRequests = YES;
SoDebugBaseURL = YES;
//ImapDebugEnabled = YES;
//LDAPDebugEnabled = YES;
```

```
//PGDebugEnabled = YES;  
//S0GoEASDebugEnabled = YES;  
MySQL4DebugEnabled = YES;  
//S0GoUIxDebugEnabled = YES;  
//W0DontZipResponse = YES;  
W0LogFile = /var/log/sogo/sogo.log;  
}
```

6. Editer nginx

```
nano /etc/nginx/sites-enabled/default
```

Voici un exemple de contenu

```
location ^~/S0Go  
{  
    proxy_pass 'http://127.0.0.1:20000';  
    proxy_redirect 'http://127.0.0.1:20000' default;  
    # forward user's IP address  
    proxy_set_header X-Real-IP $remote_addr;  
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
    proxy_set_header Host $host;  
    proxy_set_header x-webobjects-server-protocol HTTP/1.0;  
    proxy_set_header x-webobjects-remote-host 127.0.0.1;  
    proxy_set_header x-webobjects-server-name $server_name;  
    proxy_set_header x-webobjects-server-url $scheme://$host;  
    proxy_set_header x-webobjects-server-port $server_port;  
    proxy_connect_timeout 90;  
    proxy_send_timeout 90;  
    proxy_read_timeout 90;  
    proxy_buffer_size 4k;  
    proxy_buffers 4 32k;  
    proxy_busy_buffers_size 64k;  
    proxy_temp_file_write_size 64k;  
    break;  
}  
location /S0Go.woa/WebServerResources/  
{  
    alias /usr/lib/GNUstep/S0Go/WebServerResources/;  
    allow all;  
    expires max;  
}  
  
location /S0Go/WebServerResources/  
{  
    alias /usr/lib/GNUstep/S0Go/WebServerResources/;  
    allow all;  
    expires max;  
}  
  
location (^/S0Go/so/ControlPanel/Products/([^/]*)/Resources/(.*)$)
```

```
{
    alias /usr/lib/GNUstep/SOGo/$1.SOGo/Resources/$2;
    expires max;
}

location
(/SOGo/so/ControlPanel/Products/[^/]*UI/Resources/.*\.(jpg|png|gif|css
|js)$)
{
    alias /usr/lib/GNUstep/SOGo/$1.SOGo/Resources/$2;
    expires max;
}
location ^~ /Microsoft-Server-ActiveSync
{
    access_log /var/log/nginx/activesync.log;
    error_log /var/log/nginx/activesync-error.log;
    resolver localhost;
    proxy_connect_timeout 4000;
    proxy_send_timeout 4000;
    proxy_read_timeout 4000;
    proxy_buffers 64 256k;
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_pass
http://127.0.0.1:20000/SOGo/Microsoft-Server-ActiveSync;
    proxy_redirect
http://127.0.0.1:20000/SOGo/Microsoft-Server-ActiveSync /;
}
```

7. Redémarrer postfix & nginx:

```
service postfix restart
service sogo restart
```

Sources

- Postfix:
 - <https://computingforgeeks.com/setup-mail-server-on-centos-with-postfix-dovecot-mysql-roundcube/>
 - <https://www.linode.com/docs/email/postfix/email-with-postfix-dovecot-and-mysql/>
 - <https://computingforgeeks.com/setup-mail-server-on-centos-with-postfix-dovecot-mysql-roundcube/>
- Dovecot:
 - <https://kaworu.ch/blog/2014/03/25/dovecot-antispam-with-rspamd/>
- Rspamd:
 - <https://workaround.org/ispmail/stretch/filtering-out-spam-with-rspamd>
 - <https://blog.debugo.fr/serveur-messagerie-rspamd/>
 - <https://github.com/rspamd/rspamd/issues/3078>

- Sogo:

- <https://forum.iredmail.org/topic10132-iredmail-support-a-lof-of-error-such-as-no-child-available-to-handle-incoming-request.html>
- <https://forum.iredmail.org/topic10785-iredmail-support-sogo-problem-with-activesync-outlook-2016.html>
- <https://www.mail-archive.com/users@sogo.nu/msg28614.html>
- <https://marc.info/?l=sogo-users&m=145570889316335&w=2>
- <https://forum.zentyal.org/index.php?topic=33233.0>

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