

Mutt Mail User Agent

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Mutt is a fast, standards-compliant, efficient MUA (Mail User Agent). In some areas it works better than Thunderbird+Enigmail, and is certainly faster and more responsive.

Mutt lacks true MTA (Message Transfer Agent aka "SMTP client") and MRA (Mail Retrieval Agent aka "IMAP/POP3 client"), thus there are some provisions built-in. In principle it is only mail reader and composer. You may install true MTA such as [Postfix](#) or Exim and MRA such as [Fetchmail](#). Alternatively you can synchronize your mailbox using [OfflineIMAP](#) and just stick to integrated SMTP support. You can even use integrated IMAP client, but it is not very convenient.

Installation

```
dnf install mutt cyrus-sasl-plain
```

cyrus-sasl-plain package is necessary for SMTP authentication to work.

Configuration

Mutt generally works out of the box. This configuration guide discusses only Qubes-specific setup. In this example we will have one TemplateVM and several AppVMs. It also takes advantage of [SplitGPG](#), which is assumed to be already working.

NOTE: this requires qubes-gpg-split >= 2.0.9. 2.0.8 and earlier contains bug which causes this setup to hang in specific situations and does not allow to list keys.

First, paste this to /etc/Muttrc.local in TemplateVM:

```
# specify your key or override in ~/.mutt/muttrc in AppVM
set pgp_sign_as="0xDEADBEEF"

set pgp_use_gpg_agent = no

# this needs qubes-gpg-split >= 2.0.8; 2.0.7 end earlier has had a deadlock on this
set pgp_decode_command="qubes-gpg-client-wrapper --status-fd=2 --batch %f"
#set pgp_decode_command="gpg --status-fd=2 %p?--passphrase-fd=0? --no-verbose --quiet --
batch --output - %f"

set pgp_decrypt_command="$pgp_decode_command"

set pgp_verify_command="qubes-gpg-client-wrapper --status-fd=2 --no-verbose --quiet --batch
--output - --verify %s %f"

set pgp_sign_command="qubes-gpg-client-wrapper --batch --armor --detach-sign --textmode %?
a?-u %a? %f"
set pgp_clearsign_command="qubes-gpg-client-wrapper --batch --armor --textmode --clearsign
%?a?-u %a? %f"

# I found no option to add Charset armor header when it is UTF-8, since this is
# default (as specified in RFC4880). This is needed to workaround bug in
# Enigmail, which ignores RFC and without this header Thunderbird interprets
# plaintext as us-ascii. See https://sourceforge.net/p/enigmail/bugs/38/.

## also note you must specify absolute path of pgpwrap when using debian
## e.g. /usr/lib/mutt/pgpwrap

set pgp_encrypt_only_command="pgpwrap qubes-gpg-client-wrapper --batch --textmode --armor
--always-trust %?a?--encrypt-to %a? --encrypt -- -r %r -- %f | sed -e '2iCharset: UTF-8'"
set pgp_encrypt_sign_command="pgpwrap qubes-gpg-client-wrapper --batch --textmode --armor
--always-trust %?a?--encrypt-to %a? --encrypt --sign %?a?-u %a? -- -r %r -- %f | sed -e
'2iCharset: UTF-8'"

# we need to import both into vault and locally wrt $pgp_verify_command
set pgp_import_command="qubes-gpg-import-key %f; gpg --no-verbose --import %f"
```

```

# those are unsupported by split-gpg
set pgp_export_command="gpg --no-verbose --export --armor %r"
set pgp_verify_key_command="gpg --no-verbose --batch --fingerprint --check-sigs %r"

# read in the public key ring
set pgp_list_pubring_command="qubes-gpg-client-wrapper --no-verbose --batch --quiet --with-
colons --list-keys %r"

# read in the secret key ring
set pgp_list_secring_command="qubes-gpg-client-wrapper --no-verbose --batch --quiet --with-
colons --list-secret-keys %r"

# this set the number of seconds to keep in memory the passphrase used to encrypt/sign
# the more the less secure it will be
set pgp_timeout=600

# it's a regexp used against the GPG output: if it matches some line of the output
# then mutt considers the message a good signed one (ignoring the GPG exit code)
#set pgp_good_sign="^gpg: Good signature from"
set pgp_good_sign="^\\[GNUPG:\\] GOODSIG"

# mutt uses by default PGP/GPG to sign/encrypt messages
# if you want to use S-mime instead set the smime_is_default variable to yes

# automatically sign all outgoing messages
set crypt_autosign=yes
# sign only replies to signed messages
#set crypt_replysign

# automatically encrypt outgoing messages
#set crypt_autoencrypt=yes
# encrypt only replies to signed messages
set crypt_replyencrypt=yes
# encrypt and sign replies to encrypted messages
set crypt_replysignencrypt=yes

# automatically verify the sign of a message when opened
set crypt_verify_sig=yes

# disable use of gpgme, which interferes with Split-GPG
# and defaults to 'yes' on Debian 9 and higher
set crypt_use_gpgme=no

send-hook "~A" set pgp_autoinline=no crypt_autoencrypt=no
send-hook "~t @invisiblethingslab\\.com" set crypt_autoencrypt=yes

# vim:ft=muttrc

```

Then shutdown your TemplateVM. Next open your AppVM, create file `/home/user/.mutt/muttrc` and adjust for your needs:

```

#
# accounts
#
set from = "Wojciech Zygmunt Porczyk <woju@invisiblethingslab.com>"
alternates '^woju@invisiblethingslab\\.com

alternates '^wojciech@porczyk\\.eu

```

```
#
# crypto
#
set pgp_sign_as = "0xDEADBEEF"
send-hook "~t @my\\.family\\.com" set crypt_autoencrypt=no

#
# lists
#

# google groups
lists .*@googlegroups\\.com

subscribe (qubes-(users|devel)|othergroup)@googlegroups\\.com
fcc-save-hook qubes-users@googlegroups\\.com =list/qubes-users/
fcc-save-hook qubes-devel@googlegroups\\.com =list/qubes-devel/
fcc-save-hook othergroup@googlegroups\\.com =list/othergroup/
```

You may also create /home/user/.signature:

```
regards,
Wojciech Porczyk
```

Some additional useful settings

In muttrc:

```
###qubes integration stuff

#open links in a dispvm using urlview
#see below for sample .urlview
macro pager \cb <pipe-entry>'urlview'<enter> 'Follow links with urlview'

#override default mailcap MIME settings with qvm-open-in-dvm calls
#see sample .mailcap below
set mailcap_path=~/.mailcap

bind attach <return>    view-mailcap
```

Debian-specific options:

```
#use debian mutt-patched package for mailbox sidebar hack
set sidebar_width = 30
set sidebar_visible = no
set sidebar_delim='|'

#show/hide sidebar
macro index S '<enter-command>toggle sidebar_visible<enter>'
macro pager S '<enter-command>toggle sidebar_visible<enter>'

#navigate the sidebar folders
bind index CP sidebar-prev
bind index CN sidebar-next
bind index CO sidebar-open
bind pager CP sidebar-prev
bind pager CN sidebar-next
```

In .urlview:

```
## TODO: this doesn't work with encrypted emails --
## urlview can't find the links
###
COMMAND qvm-open-in-dvm %s
```

In .mailcap:

```
## TODO: override most/all default mailcap settings to prevent
## opening in muttvm
## is there a way to do this polymorphically? i.e. not
## listing every damn mimetype by hand
###
## also would be convenient to use mailcap's TEST feature to
## show some html in mutt pager (e.g. with w3m, links or html2text),
## else open others in dispvm

# MS Word documents
application/msword; qvm-open-in-dvm %s
application/vnd.oasis.opendocument.spreadsheet; qvm-open-in-dvm %s
application/vnd.oasis.opendocument.text; qvm-open-in-dvm %s

# Images
image/jpg; qvm-open-in-dvm %s
image/jpeg; qvm-open-in-dvm %s
image/png; qvm-open-in-dvm %s
image/gif; qvm-open-in-dvm %s

# PDFs
application/pdf; qvm-open-in-dvm %s

# HTML
text/html; w3m -T text/html '%s' | cat --squeeze-blank; nametemplate=%s.html; copiousoutput
text/html; qvm-open-in-dvm %s
```

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- [Page archive](#)
- First commit: 08 Dec 2020. Last commit: 08 Dec 2020.
- Applicable Qubes OS releases based on commit dates and [supported releases](#): 4.0
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