Postino Suite - whitepaper

Jaromil

September 2010 - 2011

Contents

1 Introduction

Postino is an integrated suite of interoperable tools to manage e-mail communication in a private and efficient way, without relying on third party services. Rather than reinventing the wheel, this suite reuses existing free and open source tools and protocols and is mainly targeted for GNU/Linux/BSD desktop usage.
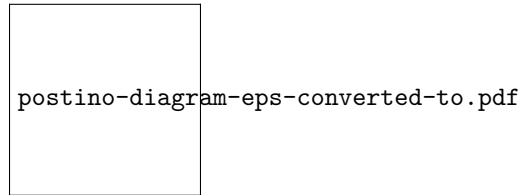
2 Diagram

3 Components

3.1 Client side

- Mail User Agent[1]

---

[1]Can be any application supporting local maildir folders, our favourite is Mutt

Figure 1: Suite diagram

- Fetchmail
- Procmail & Procmail-lib
- Mini SMTP (msmtp)
- Little Brother DB
- Secure shell client

3.2 Server side

- Postfix
- Dovecot
- Sieve
- Secure shell server

4 Workflow

4.1 Configuration

4.1.1 Configure to receive mail

4.1.2 Configure to send mail

4.1.3 Configure to filter mail

```
unset POSTRULE
POSTRULE+="from: list@kernel.org save: ml.kernel %%"
POSTRULE+="to: jaromil@nimk.nl save: job.nimk %%"
```

4.1.4 Example configuration

```
# SMTP (SEND)
SMTP_ADDRESS=smtp.gmail.com
SMTP_LOGIN=jaromil.rojo@gmail.com
SMTP_PASSWORD=hackme
SMTP_PORT=25
SMTP_CERTIFICATE=gmail.pem

# IMAP (RECEIVE)
IMAP_ADDRESS=imap.gmail.com
```

```
IMAP_LOGIN=jaromil.rojo@gmail.com
IMAP_PASSWORD=hackme
IMAP_PORT=443

# ACCEPTED EMAIL ADDRESSES
EMAIL="jaromil.rojo@gmail.com, jaromil@dyne.org, jaromil@kyuzz.org"

# LOCAL FILES
MAILDIRS=$HOME/mail
WORKDIR=$HOME/.postino
CERTIFICATES=$HOME/.ssl/certs
REMOTE_FILTER=/var/mail/...
```

4.2   Operation

4.2.1   Fetch mail

4.2.2   Read and reply mail

4.2.3   Send mail

4.2.4   Sync backup and filters