

Posta elettronica

Installazione di un mail server, metodo Postcot

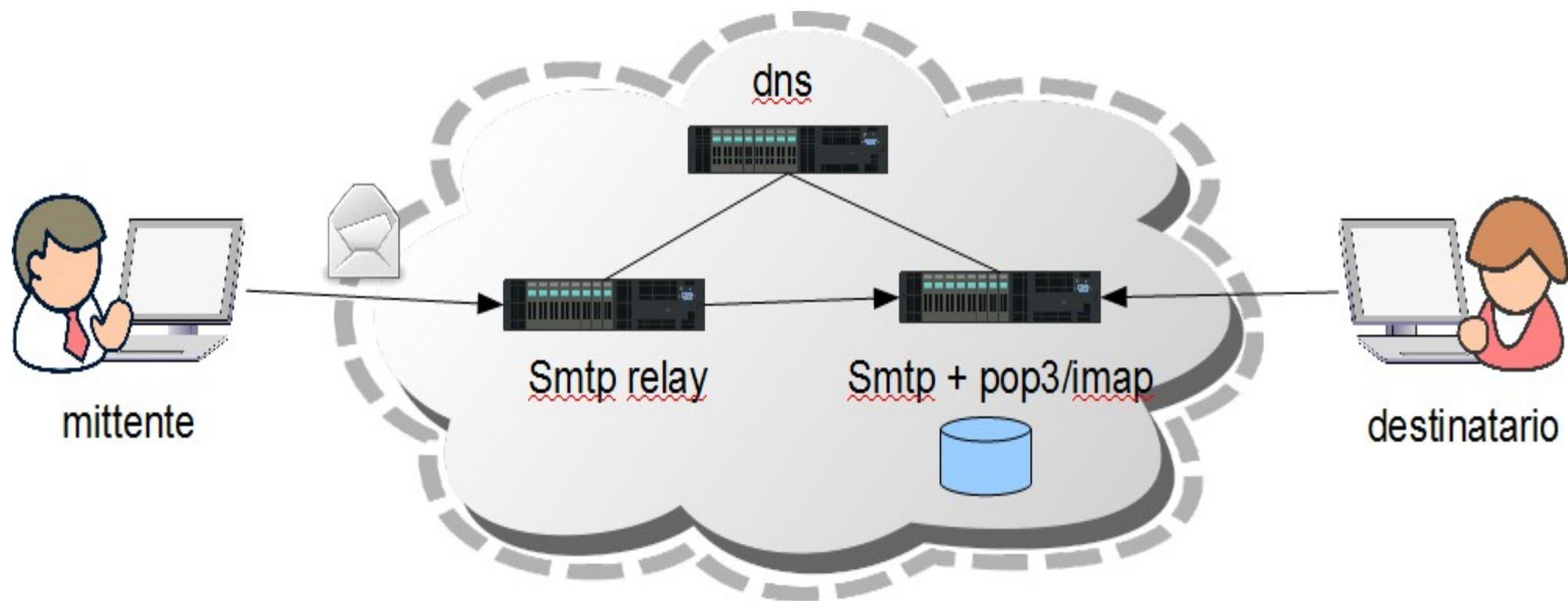
17 aprile 2013

Marco Moser

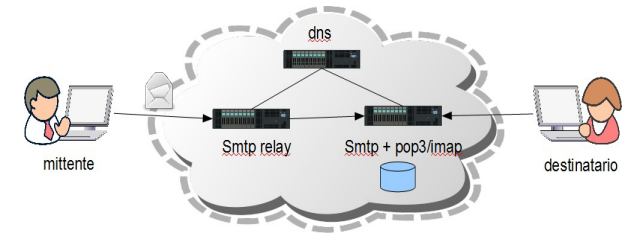
linuxtrent.it

formazione-postcot.odp

Giro della posta



Servizi



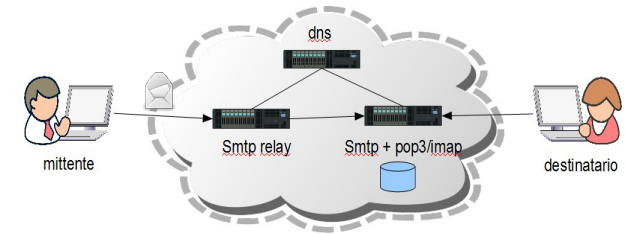
Trasmissione:

- **DNS** → Domain Name System
- **SMTP** → Simple Mail Transport Protocol, **porta 25** (porta 587 submission)

Consultazione:

- **POP3** → Post Office Protocol, **porta 110** (porta 995 ssl)
- **IMAP** → Internet Message Access Protocol, **porta 143** (porta 993 ssl)

DNS



Record MX

per ricevere le email su un dominio

oltrefersina.it. 360 IN MX 10 mail.oltrefersina.it.

Record SPF (Sender Policy Framework)

i server di posta autorizzati a inviare email per conto del tuo dominio

example.it. TXT "v=spf1 a:mail.example.it -all"

SMTP



Riceve ed inoltra email

Legge e ri-scrive gli header dell'email

Non certifica il mittente dei messaggi

ESMTP (2008) → 8bit, uft8, starttls, autenticazione SASL

Sendmail (Allman 1980) → storico ma ostico da configurare

Qmail (Berstein 1995) → nasce molto sicuro (taglia 1 bug = 1.000\$), da compilare, oggi la licenza e' public domain, e' un progetto fermo

Postfix (IBM, Venema 1997) → sicuro, flessibile e diffuso

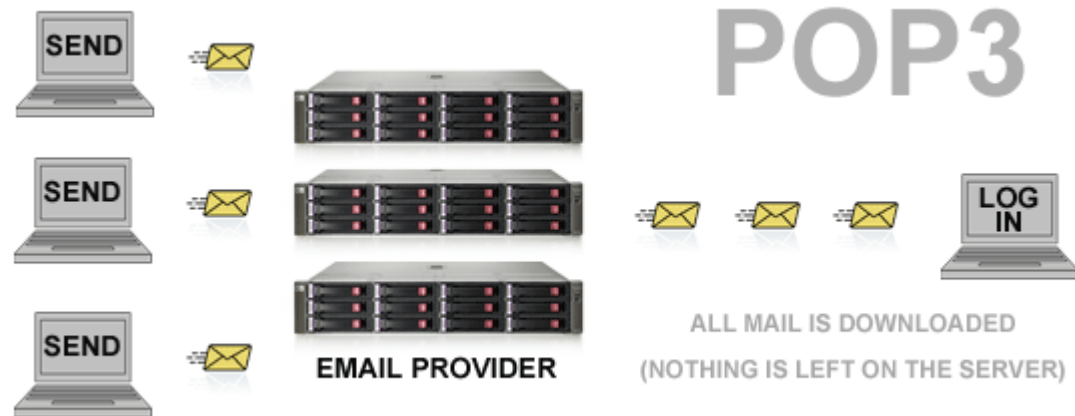
Altri: Exim, Apache James, ...

POP3

Autentica l'utente

Elenca, mostra e cancella la posta

[x] Lascia una copia sul server per 15 giorni



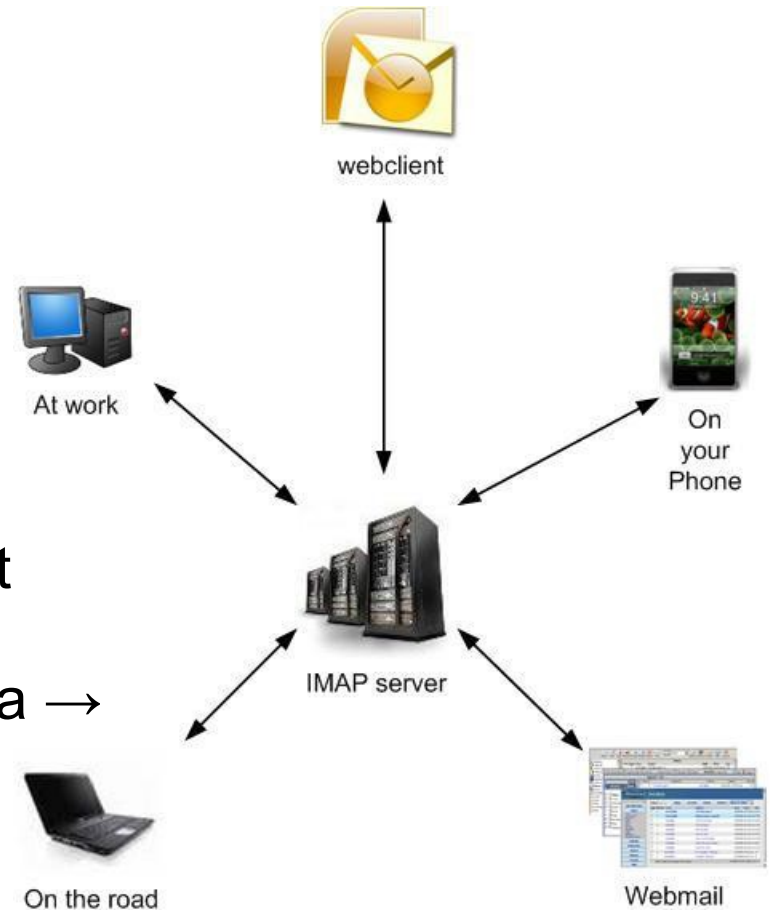
IMAP

Autentica utente → instaura una sessione,
consente l'accesso concorrente all'account

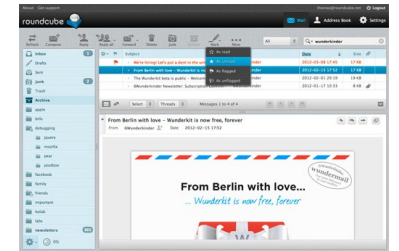
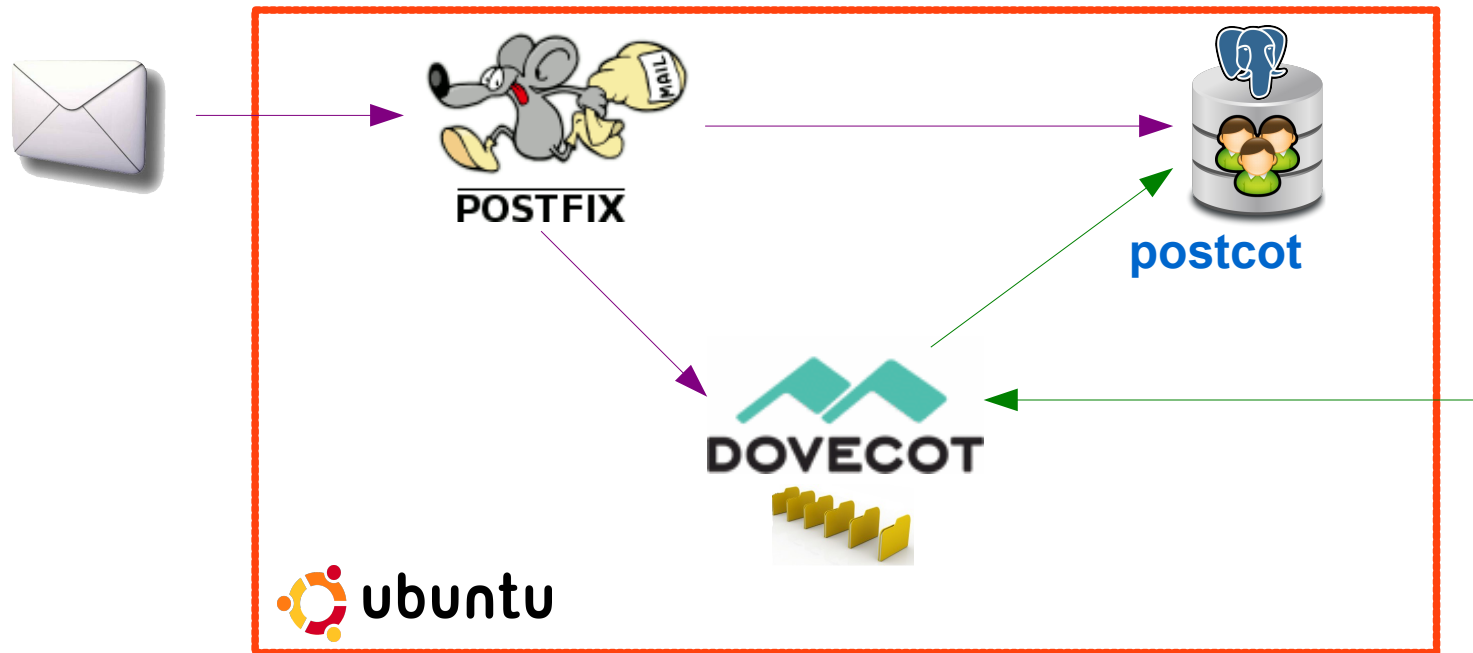
Elenca, mostra, cancella e archivia la posta →
organizzazione in cartelle, flags (letta,
inoltrata, ...), primitive per la ricerca

Scaricamento parziale dell'email (mime)

Shared folders, acl, quota



Utenti virtuali



Postcot

Postcot e' un'interfaccia grafica (**web**) che consente la gestione unificata delle mailbox virtuali di un mailserver:

- gli **amministratori** gestiscono il proprio parco domini
- gli **utenti** possono cambiare la password, inoltrare la email ad altri, scrivere il messaggio delle vacanze

Installazione

Scarica postcot da

<http://www.marcomoser.it/index.php/postcot/>

e segui le istruzioni per postgresql oppure mysql

http://localhost/postcot/?btn_help=btn_help

Ambiente

Postgresql (9.1)

```
apt-get install postgresql
```

Apache + php

```
apt-get install libapache2-mod-php5 php5-pgsql php5-pdo
```

Postfix + Dovecot + LDA + Sieve + SASL

```
apt-get install dovecot-postfix
```

pc-config.inc.php

- connessione al db → POSTCOT_DB*
- support link
- free rows
- comando du
- sieve server

Postfix main.cf

```
vi /etc/postfix/main.cf
```

```
myhostname = mail.example.it
```

```
mydestination = localhost.lan, localhost
```

```
relayhost = out.alice.it
```

```
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128
```

```
vi /etc/aliases
```

```
postmaster: root
```

```
root: info@example.it
```

```
/usr/bin/newaliases
```

Postfix antispam

```
apt-get install postgrey
```

```
vi /etc/default/postgrey
```

```
POSTGREY_OPTS="--inet=10023 --max-age=15"
```

```
vi /etc/postfix/main.cf
```

```
smtpd_recipient_restrictions = reject_unauth_pipelining,  
    permit_mynetworks,  
    permit_sasl_authenticated,  
    reject_unauth_destination,  
    reject_rbl_client sbl.spamhaus.org,  
    reject_rbl_client bl.spamcop.net,  
    check_policy_service inet:127.0.0.1:10023
```

Postfix virtual

```
vi /etc/postfix/main.cf
```

```
# utenti virtuali
virtual_mailbox_base = /home/vmail
virtual_uid_maps = static:5000
virtual_gid_maps = static:5000
virtual_mailbox_domains = pgsql:/etc/postfix/vhosts-sql.cf
virtual_mailbox_maps = pgsql:/etc/postfix/vmailbox-sql.cf
virtual_alias_maps = pgsql:/etc/postfix/valias-sql.cf
```

Segui le indicazioni di postcot (help)

```
vi /etc/postfix/master.cf
```

```
...
```

```
/etc/init.d/postfix restart
```

Mail utility

`mailq` → coda messaggi

`postsuper -r AEF2ACF8004` → rimuove dalla coda

`postqueue -f` → elabora la coda

`tail -f /var/log/mail.log` → file di log

`apt-get install mutt` → client email (allegati)

Dovecot config

vi dovecot-sql.conf.ext → query sql

vi conf.d/auth-sql.conf.ext → enable sql

```
passdb {  
    driver = sql  
    args = /etc/dovecot/dovecot-sql.conf.ext  
}  
# fast, accept all user (postfix)  
userdb {  
    driver = static  
    args = uid=5000 gid=5000 home=/home/vmail/%d/%n  
allow_all_users=yes  
}
```

vi conf.d/10-auth.conf
!include auth-sql.conf.ext

Dovecot pipe

```
service auth {
  # Postfix smtp-auth
  unix_listener /var/spool/postfix/private/dovecot-auth {
    mode = 0660
    user = postfix
    group = postfix
  }
  # dovecot lda
  unix_listener auth-userdb {
    mode = 0600
    user = vmail # User running dovecot-lda
    #group = vmail # Or alternatively mode 0660 + dovecot-lda user in
this group
  }
}
```

Dovecot LDA

Dovecot LDA riceve la email da postfix

crea le directory maildir al volo /home/vmail/dominio.it/info/

esegue eventuali script sieve

indicizza

plugin: quota, antispam dspam

* processo oppure LMTP

Postcot admin

Demo

[home](#)

[domini email](#)

[disconnetti postmaster@example.it](#)

[supporto clienti](#)

[postcot 1.0.0 GPL](#)

login:

`postmaster@example.it`

password

Menu > Domini email

benvenuto `postmaster@example.it`

[cambia password](#)

[email forwarding \(OFF\)](#)

[messaggio fuori sede](#)

[sieve script](#)

[postcot install guide](#)

[credits](#)

Postcot gui

home domini email disconnetti postmaster@example.it supporto clienti postcot 1.0.0 GPL

SALVA APPLICA >

* abcdefghijklmnopqrstuvwxyz

	indirizzo email ↑↓	dominio ↑↓	password ↑↓	inoltri ↑↓	admin ↑↓	quota ↑↓	note ↑↓	azione ↑↓
1	az22w2	@ example.com (3)	***** < n	n	n			OFF 4/12/2012
2	simone	@ example.com (3)	***** < n			10M		on 17/11/2012
3	stefano	@ example.com (3)	***** < n			2000G		OFF 23/11/2012
4	postmaster	@ example.it (1)	***** < Y (1)	Y [52K]		6K		on 28/11/2012
5	marco	@ marcomoser.it (1)	***** < n	Y				on 18/11/2012
6	moser	@ oltrefsina.it (1)	***** < Y (1)			55K [52K]		on 22/11/2012
7	ciccio2	@ pasticcio (1)	***** < n	n				on 19/12/2012
8	info	@ webtonic.it (3)	***** < n	n				on 17/11/2012
9	lorena	@ webtonic.it (3)	***** < n	Y				on 27/11/2012
10	postmaster	@ webtonic.it (3)	***** < Y (1)	Y				on 27/11/2012
	info@newdomain.it	@ (manual)	<	email list: marco@marcomoser.it info@oltrefsina.it	domini gestiti: - off * superuser example.com (3) example.it (1)			on
					nr of email limit ↑: 20			
					disk quota limit ↑: 1G			
		@ (manual)	< n	n				on
		@ (manual)	< n	n				on
		@ (manual)	< n	n				on

info | info@example2.it (create new domain) | @example.it (as entire domain alias)

Postcot domini

a) Crea nuovo dominio

- Indirizzo email > info@dominio.it
- Password > obbligatoria (sempre)
- Salva

b) Alias > postmaster@dominio.it → info@dominio.it

c) Catch all > @dominio.com → @dominio.it
occhio!

d) Mailing list > list@dominio.it → info@dominio.it marco@dominio.it

e) subdomain admin > info@subdomain.it → admin Y
dominio subdomain.it, 10 email, 2GB

Postcot utente

- a) cambia password
- b) inoltri
- c) fuori sede (compatibile con roundcube)

Sieve

```
require "fileinto";
```

```
# mail x linuxtrent
```

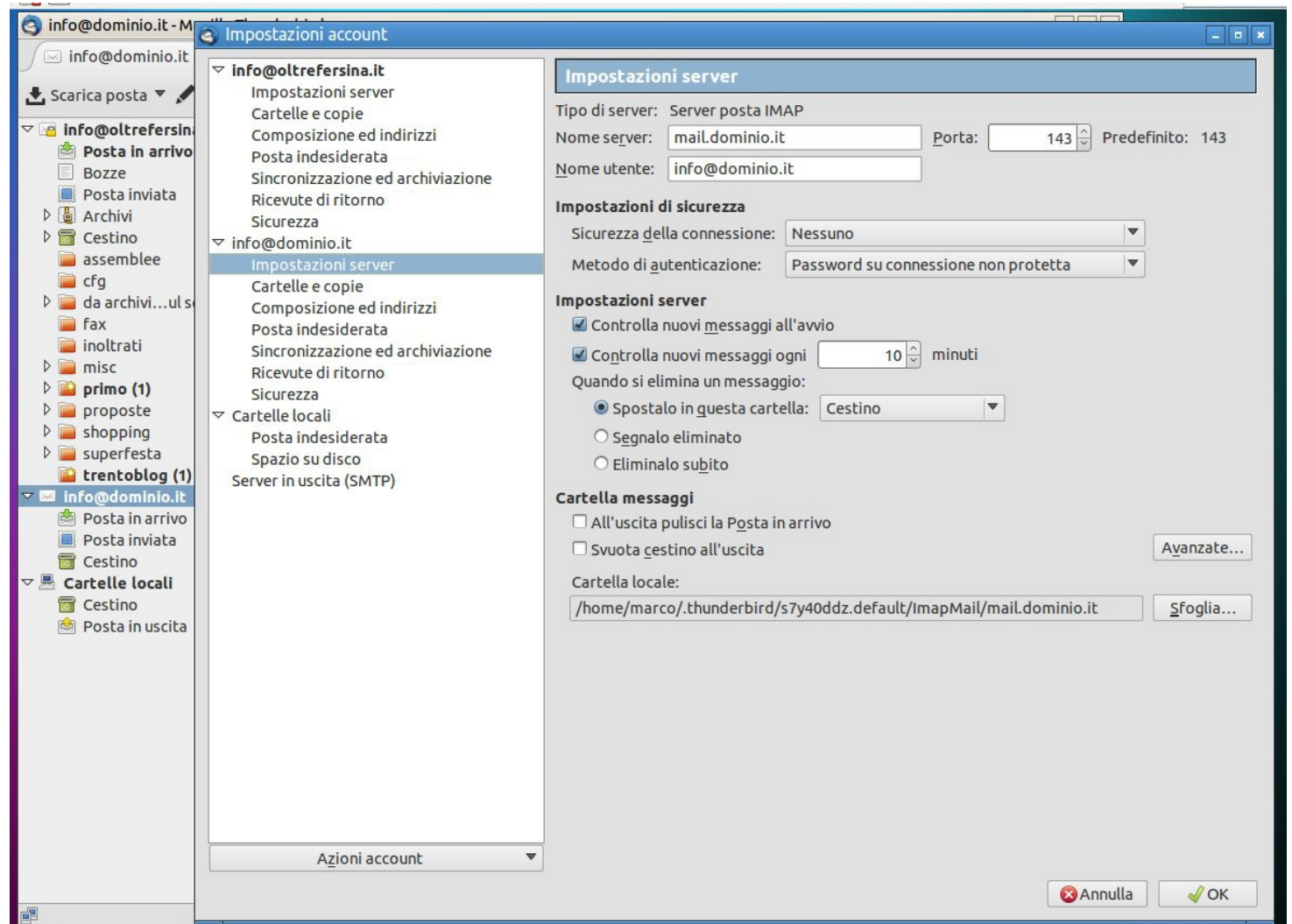
```
if header :is "to" "linuxtrent@freelists.org" {  
    fileinto "Mailing.Linuxtrent";  
    stop;  
}
```

```
# forward test
```

```
if header :contains "subject" ["web", "prenota"] {  
    redirect "info@webtonic.it";  
    stop;  
}
```


Thunderbird

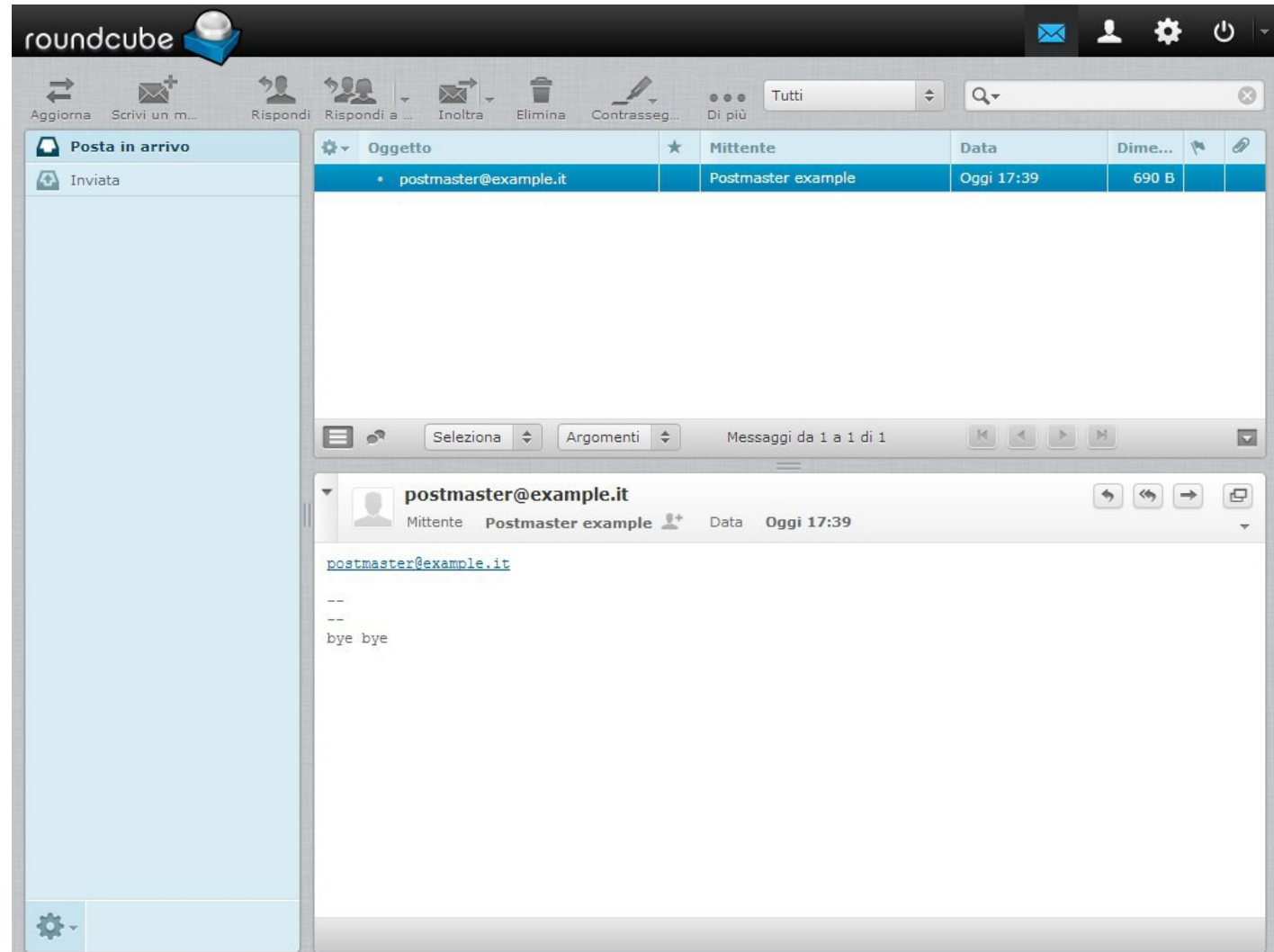
- imap
- smtp
- tls
- cartelle unificate
- gestione identita'



Roundcube

- ajax
- multi identita'
- sieve
- 3.5MB

In alternativa:
myroundcube.co
m



NoCC

- leggero
- zero db

NOCC Tim Gerundt <tim@gerundt.de> [Preferences](#) [Logout](#)

[Inbox](#) [Write](#) [Contacts](#)

Inbox 12 Messages

[Invert Selection](#) [Forward](#) [Delete](#)

<input type="checkbox"/>	From	To	Subject	Date	Size
<input type="checkbox"/>	Hans Eriksson <hans.ericson@bredband.net>	winmerge-translate@lists.sourceforge.net	[Winmerge-translate] Translation issues and broken WinM...	2008-01-07 02:03 AM	5kB
<input type="checkbox"/>	Kimmo Varis <kimmov@winmerge.org>	winmerge-translate <winmerge-translate@lists.sourceforge...	[Winmerge-translate] Introduce the new translation syst...	2008-01-06 08:54 PM	5kB
<input type="checkbox"/>	"SourceForge.net" <noreply@sourceforge.net>	noreply@sourceforge.net	[notepad-plus-Patches-1865144] Portable Object (*.po)...	2008-01-06 05:04 PM	2kB
<input type="checkbox"/>	Kimmo Varis <kimmov@winmerge.org>	Tim Gerundt <tim@gerundt.de>	Re: [WinMerge] Mail to introduce the new translation sy...	2008-01-06 04:13 PM	3kB
<input checked="" type="checkbox"/>	Audra McWilliams <uveqq@blkbird.com>	tim@gerundt.de	Nie mehr zu frueh kommen?	2008-01-06 10:54 AM	4kB
<input checked="" type="checkbox"/>	Vivian Tate <smootheddt808@chinaventurefunds.com>	tim@gerundt.de	BillExcellentOnlineStore	2008-01-06 10:53 AM	1kB
<input type="checkbox"/>	"amazon.de" <promotion5@amazon.de>	"tim@gerundt.de" <tim@gerundt.de>	"Adriano Celentano Box Limited Edition (3 DVDs)" jetzt...	2008-01-06 07:14 AM	24kB
<input type="checkbox"/>	Kimmo Varis <kimmov@winmerge.org>	winmerge-dev@lists.sourceforge.net	[Winmerge-dev] Old changelog files have been moved to D...	2008-01-05 11:41 PM	2kB
<input type="checkbox"/>	"SourceForge.net" <noreply@sourceforge.net>	noreply@sourceforge.net	[winmerge - Developers] RE: Move all old changelog file...	2008-01-05 10:59 PM	1kB
<input type="checkbox"/>	"SourceForge.net" <noreply@sourceforge.net>	noreply@sourceforge.net	[winmerge - Developers] RE: Move all old changelog file...	2008-01-05 06:33 PM	1kB
<input type="checkbox"/>	"SourceForge.net" <noreply@sourceforge.net>	noreply@sourceforge.net	[winmerge - Developers] RE: Move all old changelog file...	2008-01-05 06:21 PM	1kB
<input type="checkbox"/>	"SourceForge.net" <noreply@sourceforge.net>	noreply@sourceforge.net	[winmerge - Developers] RE: Move all old changelog file...	2008-01-05 05:52 PM	2kB

[Invert Selection](#) [Forward](#) [Delete](#)

[Inbox](#) [Write](#) [Contacts](#)

Antispam

Apache SpamAssassin → bayesian: filtra la posta in ingresso valutandone il contenuto [perl]

DSPAM → autoapprendimento, filtri bayesian [c] + gui

Amavis → spamassassin + clamav (antivirus)

ASSP → smtp proxy server (bayesian, rbl, urirbl, greylisting, ...) + gui

ThunderBayes++ → Thunderbird plugin

Grazie

Buona serata