



Y36SPS
Pošta 2



PONY EXPRESS!

CHANGE OF TIME!  REDUCED RATES!

10 Days to San Francisco!

LETTERS
WILL BE RECEIVED AT THE
OFFICE, 84 BROADWAY,
NEW YORK,
Up to 4 P. M. every TUESDAY,
AND
Up to 2½ P. M. every SATURDAY,
Which will be forwarded to connect with the PONY EXPRESS leaving
ST. JOSEPH, Missouri,
Every WEDNESDAY and SATURDAY at 11 P. M.

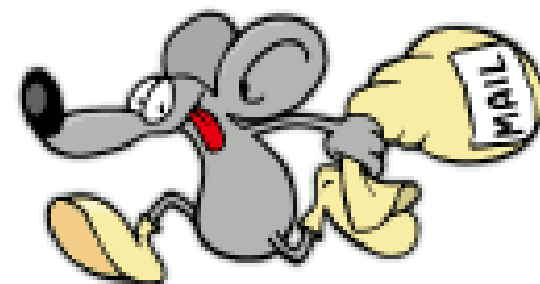
TELEGRAMS
Sent to Fort Kearney on the mornings of MONDAY and FRIDAY, will connect
with PONY leaving St. Joseph, WEDNESDAYS and SATURDAYS.

EXPRESS CHARGES.
LETTERS weighing half ounce or under..... \$1 00
For every additional half ounce or fraction of an ounce 1 00
In all cases to be enclosed in 10 cent Government Stamped Envelopes,
And all Express CHARGES Pre-paid.
PONY EXPRESS ENVELOPES For Sale at our Office.
WELLS, FARGO & CO., Ag'ts.
New York, July 1, 1861.

SILOE & JAMES, STATIONERS AND PRINTERS, 6 CULTON STREET, NEW YORK



- <http://www.postfix.org/>
- náhrada sendmailu
- kompatibilita se sendmailem
- nový koncept
 - více menších programů
 - klíčové komponenty
 - master, qmgr, nqmgr
 - input
 - smtpd, bounce, cleanup
 - delivery agents
 - local, virtual, smtp
- rozšíření
 - <http://www.postfix.org/addon.html>



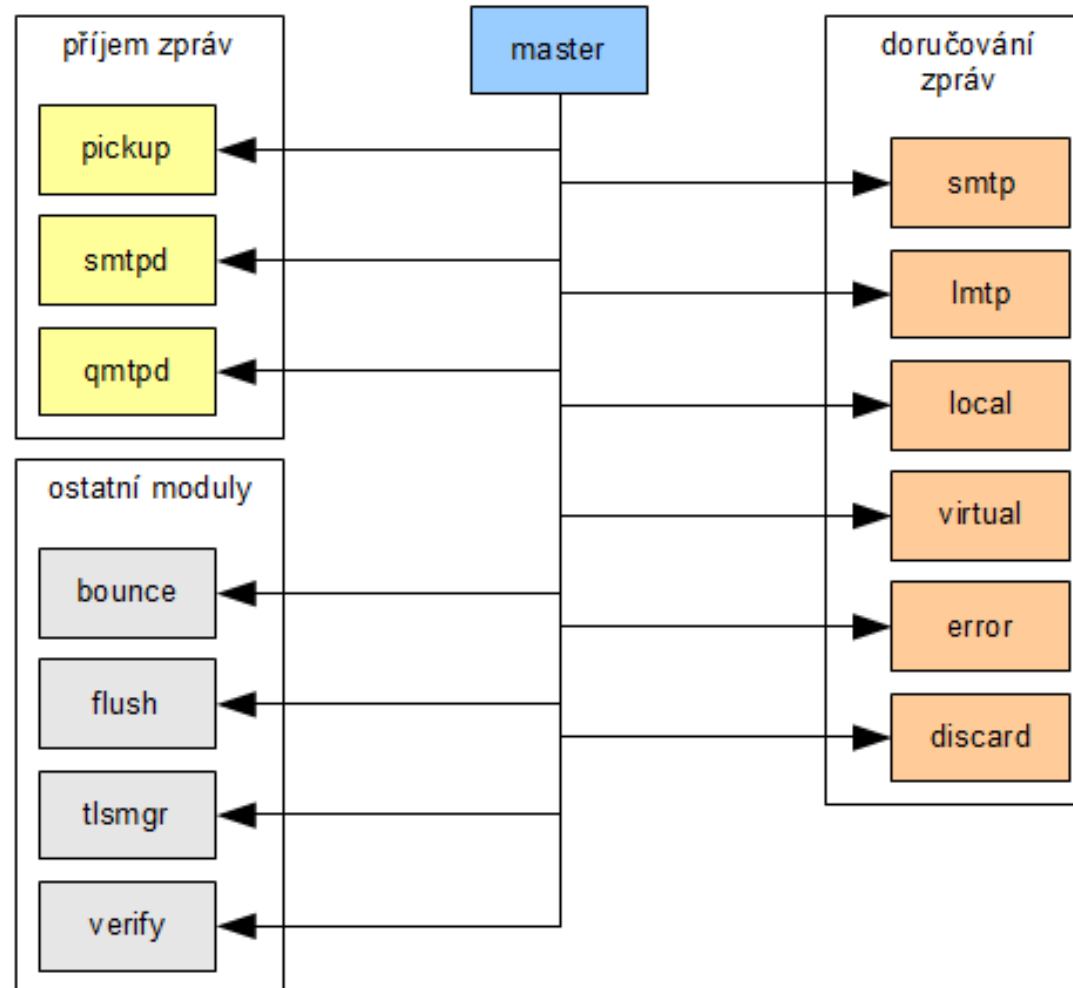
POSTFIX



- /etc/postfix/master.cf
 - start ostatních daemonů
- /etc/postfix/main.cf
 - volby postfixu
- # komentář
 - musí být první neprázdný znak
- víceřádkové volby
 - další řádek začíná prázdným znakem
- \$ uvození proměnné



Postfix - architektura

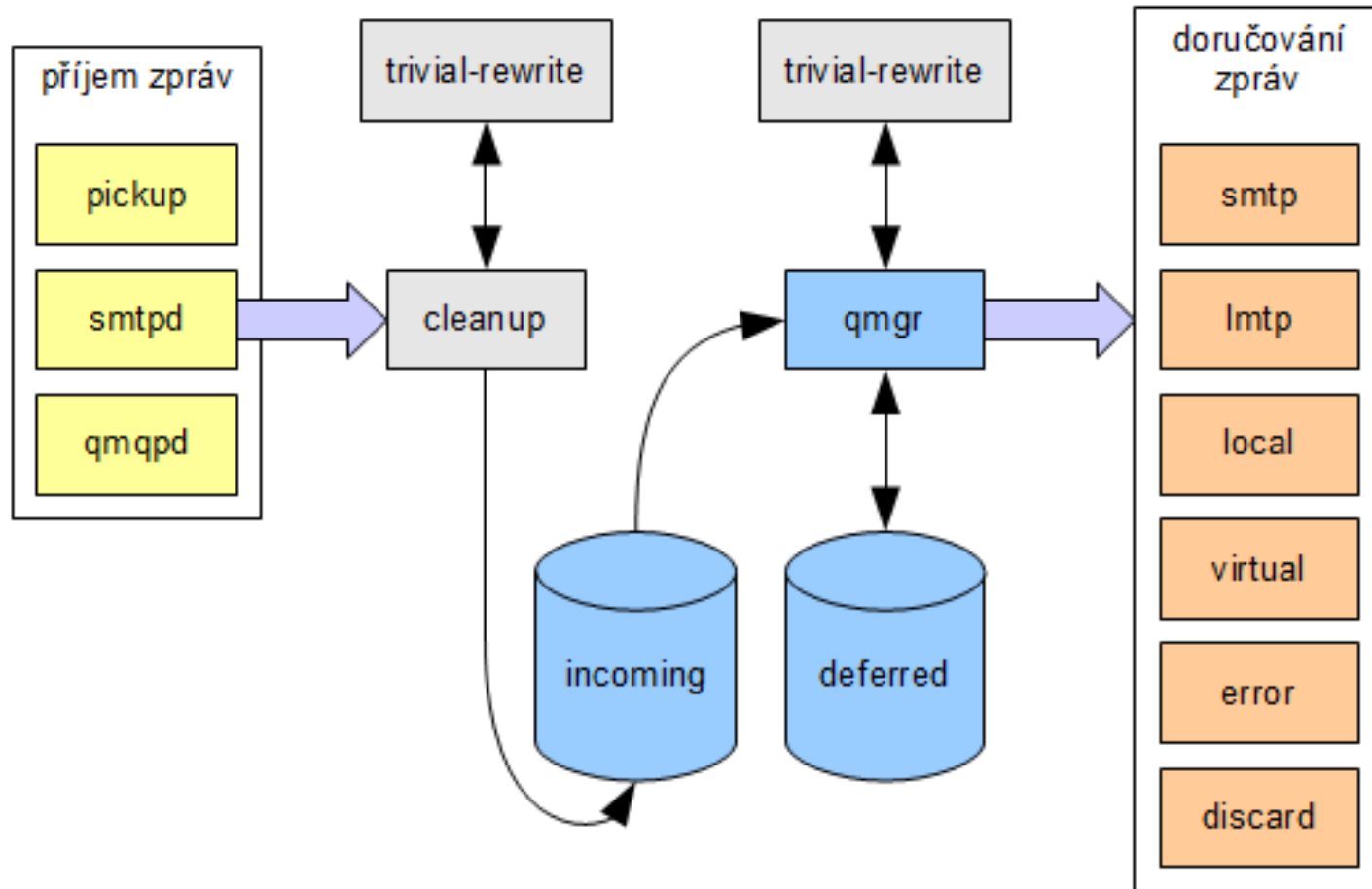


zdroj: <http://www.abclinuxu.cz/clanky/site/stavime-postovni-server-1-postfix>



Postfix - průchod zprávy

approved by
dsn.felk.cvut.cz



zdroj: <http://www.abclinuxu.cz/clanky/site/stavime-postovni-server-1-postfix>



- myhostname
- mydomain
- myorigin
- inet_interfaces
- mydestination
 - domény pro příjem
- relay_domains
 - z/do domény pro relay



mydomain = firma.cz

myhostname = mail1.\$mydomain

mapy

hash, btree, dbm; regex, PCRE; LDAP, SQL, NIS

mynetworks = hash:/etc/mynetworks

hash

homer@springfieldnukes.com homer@yahoo.com

smithers@springfieldnukes.com iluvburns@hotmail.com

regex

/^Subject: Your Credit Info/ REJECT

/^Subject: Hot Celebs 100% Exposed!/ REJECT



- postconf
 - e editace
 - m typy map
 - n ne defaultní nastavení
 - v
- postmap
 - postmap typ:/cesta
- postalias



- header_checks = typ:/cesta
- body_checks = typ:/cesta

- REJECT
- WARN
- IGNORE

`/^Subject:.*VIAGRA/ REJECT`

`/^Sender:.* / IGNORE`



virtual_alias_maps = typ:/cesta

virtual_alias_domains = virtual.dom

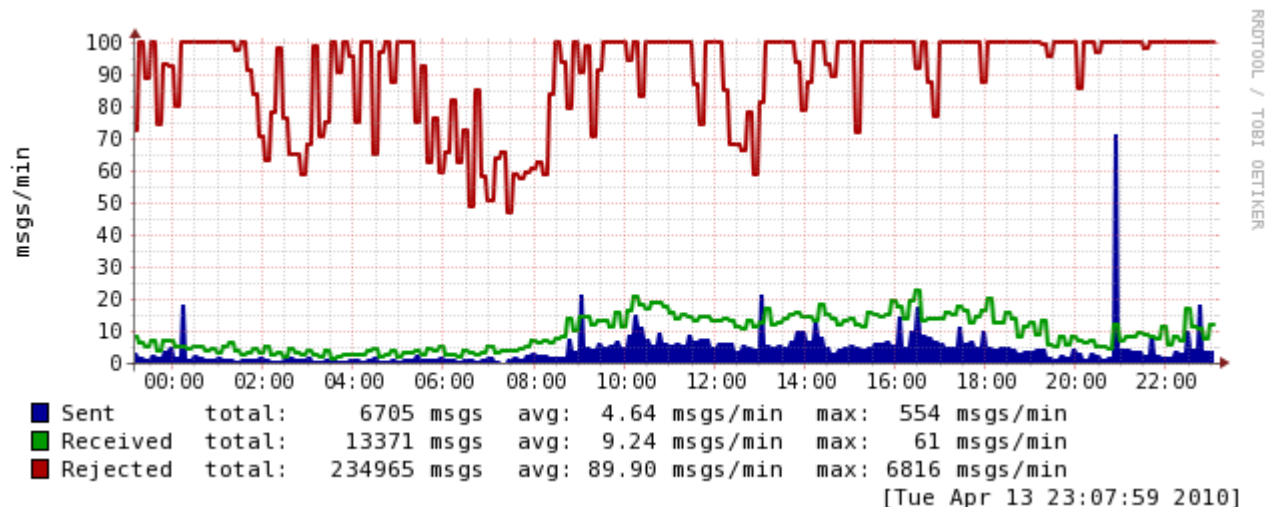
mapování pomocí mapovací databáze



- postfix (postkick)
 - check, reload, start, stop, abort, flush
- postqueue
 - p zobrazení
 - f flush
 - (sendmail -bp, sendmail -q)
- postcat
- postsuper
 - d id smazání
 - r id znovuzařazení do fronty
 - s kontrola struktury fronty
 - p smazání dočasných souborů



- synchronní x asynchronní logování
- analyzátory logu
- <http://www.postfix.org/addon.html#logfile>
 - pflogsumm
 - denní sumarizace
 - mailgraph
 - statistiky, RRDtool frontend





- ESMP
- Simple Authentication and Security Layer (SASL)
- <http://asg.web.cmu.edu/sasl/>
- http://www.postfix.org/SASL_README.html
- autentizace
 - pam, shadow – nevhodné (root přístup)
 - saslauthd
 - sasldb



- /usr/lib/sasl2/smtpd.conf
 - pwcheck_method: saslauthd
 - mech_list: plain login
- /etc/sysconfig/saslauthd
 - MECH=pam
- /etc/postfix/main.cf
 - smtpd_sasl_auth_enable = yes
 - smtpd_recipient_restrictions = permit_sasl_authenticated
 -
 - smtpd_sender_login_maps = typ:/cesta
 - reject_sender_login_mismatch = yes



- /usr/lib/sasl2/smtpd.conf
 - pwcheck_method: sasldb
- /etc/sasldb
 - pozor na chroot
- saslpasswd -u myhostname -c user
- sasldblistusers



```
echo -en "student\0student\0student" | openssl enc -base64
```

```
c3R1ZGVudABzdHVkZW50AHN0dWRlbnQ=
```

```
telnet localhost 25
```

```
...
```

```
AUTH PLAIN c3R1ZGVudABzdHVkZW50AHN0dWRlbnQ=
```

```
...
```




- /etc/postfix/main.cf
 - smtpd_use_tls = yes
 - smtpd_tls_key_file = /etc/postfix/key.pem
 - smtpd_tls_cert_file = /etc/postfix/cert.pem
 - smtpd_tls_CAfile = /etc/postfix/CAcert.pem
 -
 - smtpd_recipient_restrictions = permit_tls_clientcerts
 - smtpd_tls_ask_ccert = yes
 - relay_clientcerts = typ:/cesta
 - otisk jméno
 - openssl x509 -fingerprint -in client.pem



- <http://www.abclinuxu.cz/serialy/stavime-postovni-server>