

# **LA POSTA ELETTRONICA**



# Postfix – Installazione e test

- Installare postfix:  
# sudo apt install postfix
- Scegliete “Local only”
- Come System Domain name mettete  
<hostname>.localdomain
- NB: <hostname> e` il nome della vostra vm
- Test:  
# telnet localhost 25
- Se volete leggere il messaggio inviato potete installare mutt:  
# sudo apt install mutt
- Configurazione in /etc/postfix, in particolare i file master.cf e main.cf.

```
las@las:~$ telnet localhost 25
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
220 las.localdomain ESMTP Postfix (Ubuntu)
ehlo localhost
250-las.localdomain
250-PIPELINING
250-SIZE 10240000
250-VERFY
250-ETRN
250-STARTTLS
250-ENHANCEDSTATUSCODES
250-8BITMIME
250-DSN
250-SMTPUTF8
250 CHUNKING
mail from: fromano@localhost
250 2.1.0 Ok
rcpt to: las@localhost
250 2.1.5 Ok
data
354 End data with <CR><LF>.<CR><LF>
Ciao!
Buona giornata!!
Saluti
Fabrizio
.
250 2.0.0 Ok: queued as 626FD286D3
quit
221 2.0.0 Bye
Connection closed by foreign host.
las@las:~$
```

# Postfix – Installazione e test

```
las@las: ~  
q:Quit d:Del u:Undel s:Save m:Mail r:Reply g:Group f:Help  
1 N Jan 22 fromano@localho ( 4)  
  
-----  
Putt: /var/mail/las [Msgs:1 New:1 0.5K]---(threads/date)-----
```

```
las@las: ~  
j:Exit --:PrevPg <Space>:NextPg v:View Attachm. d:Del r:Reply j:Next f:Help  
Date: Sun, 22 Jan 2023 18:47:07 +0000 (UTC)  
From: fromano@localhost  
  
Ciao!  
Buona giornata!!  
Saluti  
Fabrizio  
  
-----  
N ~ 1/1: fromano@localhost -- (all)
```

# Postfix – Installazione e test

- Ora editate il file `/etc/postfix/main.cf` e *inserite queste righe*:

```
##### controlli spam mta #####
```

```
smtpd_delay_reject = yes
```

```
smtpd_helo_required = yes
```

```
smtpd_helo_restrictions =
```

```
    permit_sasl_authenticated ,
```

```
    permit_mynetworks ,
```

```
    check_helo_access hash:/etc/postfix/helo_access ,
```

```
    reject_non_fqdn_hostname ,
```

```
    reject_invalid_hostname,
```

```
    permit
```

```
smtpd_sender_restrictions =
```

```
    permit_sasl_authenticated ,
```

```
    permit_mynetworks ,
```

```
    reject_non_fqdn_sender ,
```

```
    reject_unknown_sender_domain ,
```

```
    permit
```



# Postfix – Installazione e test


```
smtpd_recipient_restrictions =  
    reject_unauth_pipelining ,  
    reject_non_fqdn_recipient ,  
    reject_unknown_recipient_domain ,  
    permit_mynetworks ,  
    permit_sasl_authenticated ,  
    reject_unauth_destination ,  
    check_sender_access hash:/etc/postfix/sender_access ,  
    check_recipient_access hash:/etc/postfix/recipient_access ,  
    check_helo_access hash:/etc/postfix/secondary_mx_access ,  
    reject_rbl_client zen.spamhaus.org ,  
    # postgrey  
    # check_policy_service inet:127.0.0.1:10031 ,  
    permit  
# amavis  
#content_filter = smtpamavis:127.0.0.1:10024  
#smtpamavis_destination_concurrency_limit = 8
```



# Postfix – Installazione e test

- Modificate anche le seguenti righe:

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



in


```
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128 192.168.100.0/24
```

E

```
inet_interfaces = loopback-only
```

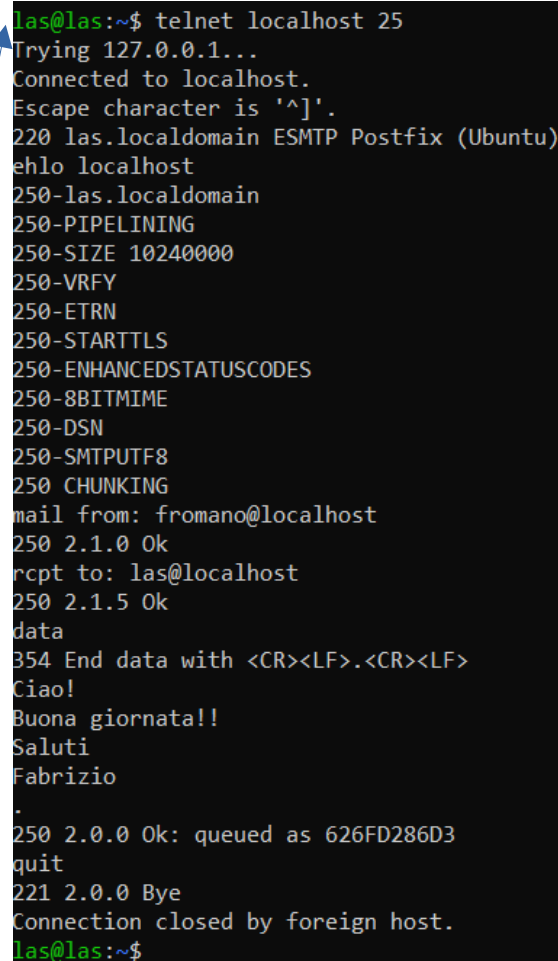
in

```
inet_interfaces = all
```



# Postfix – Installazione e test

- Fate un check della configurazione con  
# postfix check
- Riavviate postfix  
# service postfix restart
- Effettuate di nuovo il test:  
# telnet localhost 25
- Che succede? Arriva la email?



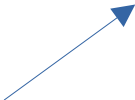
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Ciao!
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Saluti
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quit
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Connection closed by foreign host.
las@las:~$
```

# Postfix – Installazione e test

- Ora create tutti un utente fittizio:
- # adduser fromano
- Effettuate di nuovo il test ma verso il pc di un altro gruppo:

```
# telnet  
<ipvostrovicino> 25
```

- Cosa succede? La mail arriva?



```
las@las:~$ telnet localhost 25  
Trying 127.0.0.1...  
Connected to localhost.  
Escape character is '^]'.  
220 las.localdomain SMTP Postfix (Ubuntu)  
ehlo localhost  
250-las.localdomain  
250-PIPELINING  
250-SIZE 10240000  
250-VRFY  
250-ETRN  
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250-SMTPUTF8  
250 CHUNKING  
mail from: fromano@localhost  
250 2.1.0 Ok  
rcpt to: las@localhost  
250 2.1.5 Ok  
data  
354 End data with <CR><LF>.<CR><LF>  
Ciao!  
Buona giornata!!  
Saluti  
Fabrizio  
.  
250 2.0.0 Ok: queued as 626FD286D3  
quit  
221 2.0.0 Bye  
Connection closed by foreign host.  
las@las:~$
```



# Dovecot – Installazione (facoltativo)

- Installare dovecot:

```
# sudo apt install dovecot-core dovecot-imapd  
dovecot-pop3d dovecot-lmtpd
```

- Configurazione in `/etc/dovecot`, in particolare il file `dovecot.conf` (nelle ultime versioni la configurazione è stata divisa in sottoparti presenti nella cartella `/etc/dovecot/conf.d/` ).
- L'installazione fornisce già una configurazione funzionante di pop e imap con autenticazione in locale.
- Se volete potete confrontarla con la configurazione della slide seguente oppure copiare quella di base suggerita sul [sito di dovecot](#).

# Esempio di dovecot.conf

```
mail_location = mbox:~/mail:INBOX=/var/mail/%u
namespace inbox {
    inbox = yes
    location =
    mailbox Drafts {
        special_use = \Drafts
    }
    mailbox Junk {
        special_use = \Junk
    }
    mailbox Sent {
        special_use = \Sent
    }
    mailbox "Sent Messages" {
        special_use = \Sent
    }
    mailbox Trash {
        special_use = \Trash
    }
    prefix =
}
passdb {
    driver = pam
}
protocols = " imap pop3"
ssl = no
userdb {
    driver = passwd
}
```

# Dovecot – Installazione (facoltativo)

- Testiamo pop e imap:

```
las@las:~$ telnet localhost 110
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
+OK Dovecot (Ubuntu) ready.
user las
+OK
pass laslaslas
+OK Logged in.
list
+OK 1 messages:
1 442
.
```

```
las@las:~$ telnet localhost 143
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
* OK [CAPABILITY IMAP4rev1 SASL-IR LOGIN-REFERRALS ID ENABLE IDLE LITERAL+ STARTTLS AUTH=PLAIN] Dovecot (Ubuntu) ready.
01 login las laslaslas
01 OK [CAPABILITY IMAP4rev1 SASL-IR LOGIN-REFERRALS ID ENABLE IDLE SORT SORT=DISPLAY THREAD=REFERENCES THREAD=REFS THREA
D=ORDEREDSUBJECT MULTIAPPEND URL-PARTIAL CATENATE UNSELECT CHILDREN NAMESPACE UIDPLUS LIST-EXTENDED I18NLEVEL=1 CONDSTOR
E QRESYNC ESEARCH ESORT SEARCHRES WITHIN CONTEXT=SEARCH LIST-STATUS BINARY MOVE SNIPPET=FUZZY PREVIEW=FUZZY PREVIEW STAT
US=SIZE SAVEDATE LITERAL+ NOTIFY SPECIAL-USE] Logged in
03 list "" *
* LIST (\HasNoChildren) "/" INBOX
03 OK List completed (0.002 + 0.000 + 0.001 secs).
04 select INBOX
* FLAGS (\Answered \Flagged \Deleted \Seen \Draft)
* OK [PERMANENTFLAGS (\Answered \Flagged \Deleted \Seen \Draft *)] Flags permitted.
* 1 EXISTS
* 0 RECENT
* OK [UIDVALIDITY 1674414003] UIDs valid
* OK [UIDNEXT 2] Predicted next UID
04 OK [READ-WRITE] Select completed (0.002 + 0.000 + 0.001 secs).
05 status INBOX
05 BAD Error in IMAP command STATUS: Missing arguments (0.001 + 0.000 secs).
05 status INBOX(MESSAGES)
05 BAD Error in IMAP command STATUS: Invalid characters in atom (0.001 + 0.000 secs).
05 status INBOX(MESSAGES)
05 BAD Error in IMAP command STATUS: Invalid characters in atom (0.001 + 0.000 secs).
05 status INBOX (MESSAGES)
* STATUS INBOX (MESSAGES 1)
05 OK [CLIENTBUG] Status on selected mailbox completed (0.001 + 0.000 secs).
06 fetch 1 all
* 1 FETCH (FLAGS (\Seen) INTERNALDATE "22-Jan-2023 18:47:46 +0000" RFC822.SIZE 442 ENVELOPE ("Sun, 22 Jan 2023 18:47:07
+0000 (UTC)" NIL ((NIL NIL "fromano" "localhost")) ((NIL NIL "fromano" "localhost")) ((NIL NIL "fromano" "localhost")) N
IL NIL NIL NIL "<20230122184719.626FD286D3@las.localdomain>"))
06 OK Fetch completed (0.004 + 0.000 + 0.003 secs).
logout
logout BAD Error in IMAP command: Invalid command name (0.001 + 0.000 secs).
07 logout
* BYE Logging out
07 OK Logout completed (0.001 + 0.000 secs).
Connection closed by foreign host.
las@las:~$
```