

Puesta en Marcha de un Servidor de Correo

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Fundamentos de Postfix

Postfix es un servidor de correo creado como una alternativa al servidor Sendmail. En lugar de ser un gestor monolítico como el Sendmail, en el diseño de Postfix se han disgregado los diversos tratamientos que se realizan sobre un mensaje a su paso por un Mail Transfer Agent (MTA), adjudicando cada tratamiento o grupo de tratamientos a un proceso independiente. El conjunto de todos estos procesos es Postfix y se comunican entre sí por sockets.



Postfix basa su funcionamiento en cuatro colas: maildrop, incoming, active y deferred. El correo que se genera de forma local se deposita en maildrop para su posterior proceso. Después se toman los mensajes que llegan a maildrop, se analizan las cabeceras de los mensajes y se depositan en la cola incoming. En la cola active se encuentran aquellos mensajes que están en fase de encaminamiento, y en deferred los mensajes que por diversas causas no se pueden encaminar o están pendientes de reintentar su encaminamiento.

Configuración del Postfix

Para configurar el Postfix, hemos de configurar varios ficheros. En primer lugar, se han modificado las siguientes líneas en el fichero /etc/postfix/main.cf:

Modificamos el nombre del host:

```
myhostname = pasarela.red9.redes.dis.ulpgc.es
```

Modificamos el dominio:

```
mydomain = red9.redes.dis.ulpgc.es
```

Definimos las interfaces por las que se recibirá el correo:

```
inet_interfaces = all
```

Habilitamos todos los protocolos:

```
inet protocols = all
```

Definimos el listado de dominios por los que nos consideramos como destino final:

```
mydestination = $myhostname, localhost.$mydomain, $mydomain
```

Establecemos el código de rechazo:

```
unknown_local_recipient_reject_code = 450
```

Definimos la lista de redes a las que accedemos a mano:

```
mynetworks = 172.16.9.0/24, 127.0.0.0/8
relay_domains = $mydestination
```

Especificamos el host por defecto al que se enviará el correo:

```
relay = neptuno.redes.dis.ulpgc.es
relayhost = [$relay]
```

En segundo lugar, hemos configurado el archivo /etc/aliases, donde se recoge los alias del sistema. Hemos modificado los distintos alias para que estén asignados a root.

```
webmaster: root
postmaster: root
ftp: root
```

Y hemos renombrado el alias de root a gabriel, para redirigir el correo del root a gabriel, un usuario del sistema:

```
root: gabriel
```

Configuración del DNS

Por último, hemos de actualizar los DNS para incluir los registros de las estafetas utilizando los registros MX. En primer lugar, hemos actualizado el archivo db.red9 con las siguientes líneas:

```
IN MX 10 pasarela.red9.redes.dis.ulpgc.es.IN MX 20 neptuno.redes.dis.ulpgc.es.
```

donde definimos los dos servidores de correo, pasarela.red9.redes.dis.ulpgc.es y neptuno.redes.dis.ulpgc.es.

Instalación y configuración de un servicio IMAP

Para poder trabajar con gestores de correos bajo el protocolo IMAP, hemos utilizado el servicio dovecot, que da soporte al envío y recepción de correo con el protocolo IMAP. En el guión de la práctica se recomienda utilizar el servicio imapd, pero tras estudiar un poco el servicio, hemos visto que el servicio dovecot es más sencillo de instalar, configurar y utilizar. En primer lugar instalamos el dovecot con el comando:

```
yum install dovecot
```

y, para configurarlo, editamos el fichero /etc/dovecot/dovecot.conf, añadiendo las siguientes líneas:

```
mail location = mbox:~/mail:INBOX=/var/mail/%u
```

donde definimos el lugar donde se almacenarán los correos. Además, creamos las carpetas para que el servicio almacene los correos. Por último, reiniciamos el postfix y el dovecot:

```
service postfix restart service dovecot restart
```

Pruebas

Para realizar las pruebas, hemos subdivido las mismas en tres fases distintas, envío de correo, lectura de correo y gestión de correo en una aplicación.

Envío de correo

Para el envío de correo, iniciamos una sesión telnet entre el cliente y el destinatario:

```
> telnet pasarela 25
```

definimos el remitente y el destinatario:

```
mail from: david
250 2.1.0 OK
rcpt to: gabriel
250 2.1.0 OK
```

y escribimos el correo:

```
Data
354 End data with <CR><LF>. <CR><LF>
Subject: Probando
Esto es una prueba.
.
250 2.0.0 OK: queued as 3942946023
```

Lectura de correo

Para poder ver el correo recibido, hemos de ejecutar la orden:

```
> mail -u gabriel
```

con lo que nos saldrán los correos disponibles:

```
Heirloom Mail version 12.4 7/29/08. Type ? for help "/var/mail/gabriel": 1 message 1 new 1 unread >N 1 david@red9.redes.dis Fri Apr 29 14:41 11/432 "Probando"
```

si pulsamos 1 veremos:

```
Message 1:
From david@red9.redes.dis.ulpgc.es Fri Apr 20 14:41:55 2012
Return-Path: <david@red9.redes.dis.ulpgc.es>
X-Original-To: gabriel
Delivered-To: gabriel@red9.redes.dis.ulpgc.es
Subject: Probando
Status: R

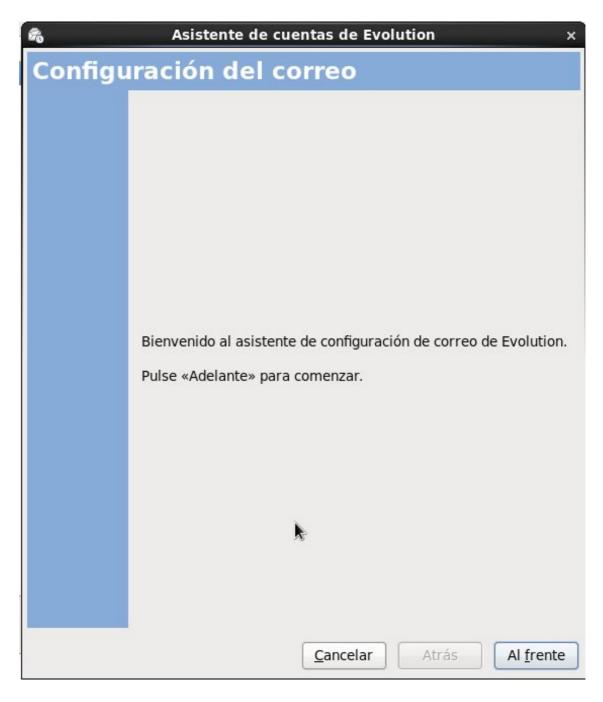
Esto es una prueba.
```

Gestión de correo en una aplicación

El cliente que hemos utilizado para gestionar el correo es el Evolution, recomendado por el guión de la práctica. En primer lugar, se instaló utilizando la orden:

yum install evolution

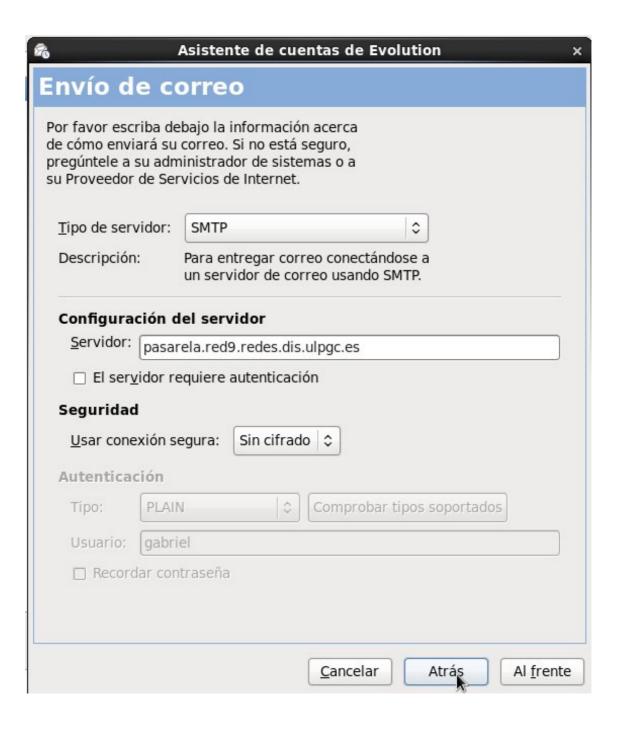
Una vez instalado, se ejecutó la aplicación y se siguieron los pasos, rellenando los valores solicitados:

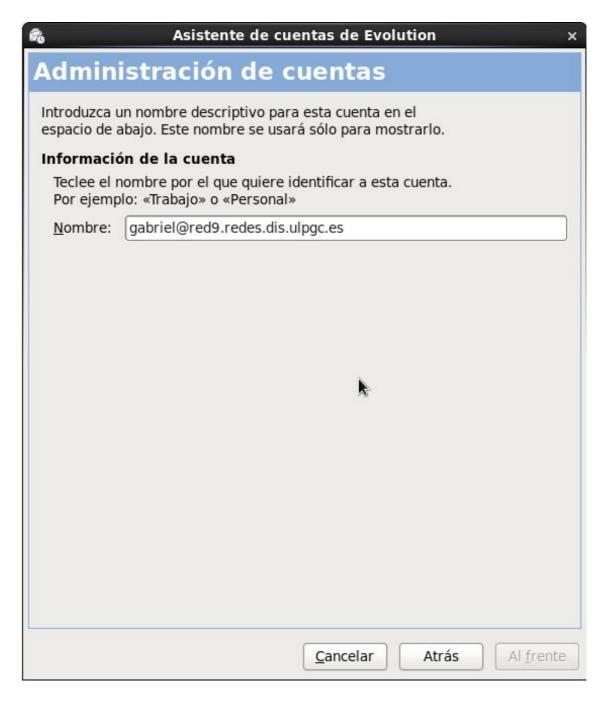


a Asister	te de cuentas de Evolution	×
Identidad		
Por favor escriba debajo su correo-e. Los campos «opcio que los rellene, a menos qu información en el correo-e o	onales» no hace falta e quiera incluir esta	
Información requerida		
Nombr <u>e</u> completo:	prueba	
Dirección de correo-e:	gabriel@red9.redes.dis.ulpgc.es	
Información opcional		
☐ Hacer que ésta sea mi cuenta predeterminada		
Responder a:		
Organización:		
200		
	Cancelar Atrás Al <u>f</u> rente	

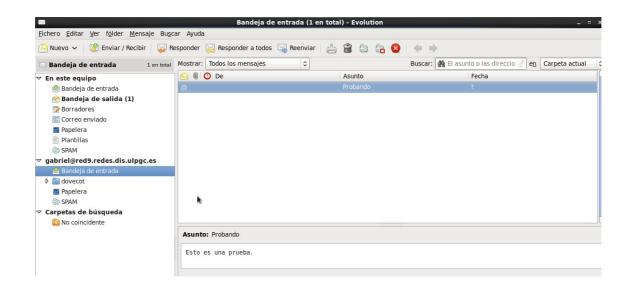


Asistente de cuentas de Evolution ×
Opciones de recepción
Comprobando correo nuevo
☐ Comprobar si hay correo <u>n</u> uevo cada 10 🗘 minu <u>t</u> os
☐ Comprobar si hay mensajes nuevos en todas las carpetas
☐ Comprobar si hay mensajes nuevos en las carpetas suscritas
Conexión con el servidor
☐ <u>U</u> sar un comando personalizado para conectarse al servidor
Comando: ssh -C -I %u %h exec /usr/sbin/imapd
Carpetas
☐ Mostrar sólo las carpetas suscritas
☐ <u>Ig</u> norar el espacio de nombres suministrado por el servidor
Espacio de nombres:
Opciones
☐ <u>A</u> plicar filtros a los mensajes nuevos en INBOX en este servidor
☐ Comprobar si el contenido de los mensajes nuevos es <u>s</u> pam
☐ Sólo comprobar si hay spam en la carpeta <u>B</u> andeja de entrada
☐ Sincronizar automáticamente el correo remoto localmente
<u>C</u> ancelar Atrás Al <u>f</u> rente





y, una vez hecho, recibimos los correos:



Apéndice

/etc/postfix/main.cf

```
# Global Postfix configuration file. This file lists only a subset
\ensuremath{\sharp} of all parameters. For the syntax, and for a complete parameter
# list, see the postconf(5) manual page (command: "man 5 postconf").
# For common configuration examples, see BASIC CONFIGURATION README
# and STANDARD CONFIGURATION README. To find these documents, use
# the command "postconf html directory readme_directory", or go to
# http://www.postfix.org/.
\# For best results, change no more than 2-3 parameters at a time,
# and test if Postfix still works after every change.
# SOFT BOUNCE
# The soft bounce parameter provides a limited safety net for
# testing. When soft bounce is enabled, mail will remain queued that
# would otherwise bounce. This parameter disables locally-generated
# bounces, and prevents the SMTP server from rejecting mail
permanently
# (by changing 5xx replies into 4xx replies). However, soft bounce
# is no cure for address rewriting mistakes or mail routing mistakes.
#soft bounce = no
# LOCAL PATHNAME INFORMATION
# The queue directory specifies the location of the Postfix queue.
# This is also the root directory of Postfix daemons that run
chrooted.
# See the files in examples/chroot-setup for setting up Postfix chroot
# environments on different UNIX systems.
queue directory = /var/spool/postfix
# The command directory parameter specifies the location of all
# postXXX commands.
command_directory = /usr/sbin
# The daemon directory parameter specifies the location of all Postfix
# daemon programs (i.e. programs listed in the master.cf file). This
# directory must be owned by root.
daemon directory = /usr/libexec/postfix
# The data directory parameter specifies the location of Postfix-
writable
# data files (caches, random numbers). This directory must be owned
# by the mail_owner account (see below).
data directory = /var/lib/postfix
# QUEUE AND PROCESS OWNERSHIP
# The mail_owner parameter specifies the owner of the Postfix queue
# and of most Postfix daemon processes. Specify the name of a user
```

```
# account THAT DOES NOT SHARE ITS USER OR GROUP ID WITH OTHER ACCOUNTS
# AND THAT OWNS NO OTHER FILES OR PROCESSES ON THE SYSTEM. In
# particular, don't specify nobody or daemon. PLEASE USE A DEDICATED
# USER.
mail owner = postfix
# The default privs parameter specifies the default rights used by
# the local delivery agent for delivery to external file or command.
# These rights are used in the absence of a recipient user context.
# DO NOT SPECIFY A PRIVILEGED USER OR THE POSTFIX OWNER.
#default privs = nobody
# INTERNET HOST AND DOMAIN NAMES
# The myhostname parameter specifies the internet hostname of this
# mail system. The default is to use the fully-qualified domain name
# from gethostname(). $myhostname is used as a default value for many
# other configuration parameters.
myhostname = pasarela.red9.redes.dis.ulpgc.es
#myhostname = $mydomain
# The mydomain parameter specifies the local internet domain name.
# The default is to use $myhostname minus the first component.
# $mydomain is used as a default value for many other configuration
# parameters.
mydomain = red9.redes.dis.ulpgc.es
# SENDING MAIL
# The myorigin parameter specifies the domain that locally-posted
# mail appears to come from. The default is to append $myhostname,
\ensuremath{\sharp} which is fine for small sites. If you run a domain with multiple
# machines, you should (1) change this to $mydomain and (2) set up
# a domain-wide alias database that aliases each user to
# user@that.users.mailhost.
# For the sake of consistency between sender and recipient addresses,
# myorigin also specifies the default domain name that is appended
# to recipient addresses that have no @domain part.
#myorigin = $myhostname
myorigin = $mydomain
# RECEIVING MAIL
# The inet interfaces parameter specifies the network interface
# addresses that this mail system receives mail on. By default,
# the software claims all active interfaces on the machine. The
# parameter also controls delivery of mail to user@[ip.address].
# See also the proxy interfaces parameter, for network addresses that
# are forwarded to us via a proxy or network address translator.
# Note: you need to stop/start Postfix when this parameter changes.
inet interfaces = all
#inet interfaces = $myhostname
```

```
#inet interfaces = $myhostname, localhost
#inet interfaces = localhost
# Enable IPv4, and IPv6 if supported
inet protocols = all
# The proxy interfaces parameter specifies the network interface
# addresses that this mail system receives mail on by way of a
# proxy or network address translation unit. This setting extends
# the address list specified with the inet_interfaces parameter.
# You must specify your proxy/NAT addresses when your system is a
# backup MX host for other domains, otherwise mail delivery loops
# will happen when the primary MX host is down.
#proxy interfaces =
#proxy interfaces = 1.2.3.4
# The mydestination parameter specifies the list of domains that this
# machine considers itself the final destination for.
# These domains are routed to the delivery agent specified with the
# local transport parameter setting. By default, that is the UNIX
# compatible delivery agent that lookups all recipients in /etc/passwd
# and /etc/aliases or their equivalent.
# The default is $myhostname + localhost.$mydomain. On a mail domain
# gateway, you should also include $mydomain.
# Do not specify the names of virtual domains - those domains are
# specified elsewhere (see VIRTUAL README).
# Do not specify the names of domains that this machine is backup MX
# host for. Specify those names via the relay_domains settings for
# the SMTP server, or use permit mx backup if you are lazy (see
# STANDARD CONFIGURATION README).
# The local machine is always the final destination for mail addressed
# to user@[the.net.work.address] of an interface that the mail system
# receives mail on (see the inet_interfaces parameter).
\# Specify a list of host or domain names, /file/name or type:table
# patterns, separated by commas and/or whitespace. A /file/name
# pattern is replaced by its contents; a type:table is matched when
# a name matches a lookup key (the right-hand side is ignored).
# Continue long lines by starting the next line with whitespace.
# See also below, section "REJECTING MAIL FOR UNKNOWN LOCAL USERS".
#mydestination = $myhostname, localhost.$mydomain, localhost
#mydestination = $myhostname, localhost.$mydomain, localhost,
$mydomain
#mydestination = $myhostname, localhost.$mydomain, localhost,
$mydomain,
      mail.$mydomain, www.$mydomain, ftp.$mydomain
mydestination = $myhostname, localhost.$mydomain, $mydomain
# REJECTING MAIL FOR UNKNOWN LOCAL USERS
```

```
# The local recipient maps parameter specifies optional lookup tables
# with all names or addresses of users that are local with respect
# to $mydestination, $inet interfaces or $proxy interfaces.
# If this parameter is defined, then the SMTP server will reject
# mail for unknown local users. This parameter is defined by default.
# To turn off local recipient checking in the SMTP server, specify
# local_recipient_maps = (i.e. empty).
# The default setting assumes that you use the default Postfix local
# delivery agent for local delivery. You need to update the
# local recipient maps setting if:
# - You define $mydestination domain recipients in files other than
   /etc/passwd, /etc/aliases, or the $virtual alias maps files.
   For example, you define $mydestination domain recipients in
   the $virtual mailbox maps files.
# - You redefine the local delivery agent in master.cf.
# - You redefine the "local transport" setting in main.cf.
# - You use the "luser relay", "mailbox transport", or
"fallback transport"
   feature of the Postfix local delivery agent (see local(8)).
# Details are described in the LOCAL RECIPIENT README file.
# Beware: if the Postfix SMTP server runs chrooted, you probably have
# to access the passwd file via the proxymap service, in order to
\# overcome chroot restrictions. The alternative, having a copy of
# the system passwd file in the chroot jail is just not practical.
# The right-hand side of the lookup tables is conveniently ignored.
# In the left-hand side, specify a bare username, an @domain.tld
# wild-card, or specify a user@domain.tld address.
#local recipient maps = unix:passwd.byname $alias maps
#local_recipient_maps = proxy:unix:passwd.byname $alias_maps
#local recipient maps =
# The unknown local recipient reject code specifies the SMTP server
# response code when a recipient domain matches $mydestination or
# ${proxy,inet} interfaces, while $local recipient maps is non-empty
# and the recipient address or address local-part is not found.
# The default setting is 550 (reject mail) but it is safer to start
# with 450 (try again later) until you are certain that your
# local recipient maps settings are OK.
unknown local recipient reject code = 450
# TRUST AND RELAY CONTROL
# The mynetworks parameter specifies the list of "trusted" SMTP
# clients that have more privileges than "strangers".
# In particular, "trusted" SMTP clients are allowed to relay mail
# through Postfix. See the smtpd recipient restrictions parameter
# in postconf(5).
```

```
# You can specify the list of "trusted" network addresses by hand
# or you can let Postfix do it for you (which is the default).
# By default (mynetworks style = subnet), Postfix "trusts" SMTP
# clients in the same IP subnetworks as the local machine.
# On Linux, this does works correctly only with interfaces specified
# with the "ifconfig" command.
# Specify "mynetworks style = class" when Postfix should "trust" SMTP
# clients in the same IP class A/B/C networks as the local machine.
# Don't do this with a dialup site - it would cause Postfix to "trust"
# your entire provider's network. Instead, specify an explicit
# mynetworks list by hand, as described below.
# Specify "mynetworks style = host" when Postfix should "trust"
# only the local machine.
#mynetworks style = class
#mynetworks style = subnet
#mynetworks style = host
# Alternatively, you can specify the mynetworks list by hand, in
# which case Postfix ignores the mynetworks style setting.
# Specify an explicit list of network/netmask patterns, where the
# mask specifies the number of bits in the network part of a host
# address.
# You can also specify the absolute pathname of a pattern file instead
# of listing the patterns here. Specify type:table for table-based
lookups
# (the value on the table right-hand side is not used).
\#mynetworks = 168.100.189.0/28, 127.0.0.0/8
#mynetworks = $config directory/mynetworks
#mynetworks = hash:/etc/postfix/network table
mynetworks = 172.16.9.0/24, 127.0.0.0/8
relay domains = $mydestination
#smtpd restriction classes = remitentes
#remitentes = check sender access hash:/etc/postfix/remitentes ,
#smtpd sender restricions = check client access
hash:/etc/postfix/clientes
##
# The relay domains parameter restricts what destinations this system
# relay mail to. See the smtpd recipient restrictions description in
# postconf(5) for detailed information.
# By default, Postfix relays mail
```

```
# - from "trusted" clients (IP address matches $mynetworks) to any
destination,
# - from "untrusted" clients to destinations that match $relay_domains
or
   subdomains thereof, except addresses with sender-specified
routing.
# The default relay domains value is $mydestination.
# In addition to the above, the Postfix SMTP server by default accepts
mail
# that Postfix is final destination for:
# - destinations that match $inet interfaces or $proxy_interfaces,
# - destinations that match $mydestination
# - destinations that match $virtual alias domains,
# - destinations that match $virtual mailbox domains.
# These destinations do not need to be listed in $relay domains.
# Specify a list of hosts or domains, /file/name patterns or type:name
# lookup tables, separated by commas and/or whitespace. Continue
# long lines by starting the next line with whitespace. A file name
# is replaced by its contents; a type:name table is matched when a
# (parent) domain appears as lookup key.
# NOTE: Postfix will not automatically forward mail for domains that
# list this system as their primary or backup MX host. See the
# permit mx backup restriction description in postconf(5).
#relay domains = $mydestination
# INTERNET OR INTRANET
# The relayhost parameter specifies the default host to send mail to
\# when no entry is matched in the optional transport(5) table. When
# no relayhost is given, mail is routed directly to the destination.
# On an intranet, specify the organizational domain name. If your
# internal DNS uses no MX records, specify the name of the intranet
# gateway host instead.
# In the case of SMTP, specify a domain, host, host:port, [host]:port,
# [address] or [address]:port; the form [host] turns off MX lookups.
# If you're connected via UUCP, see also the default transport
parameter.
#relayhost = $mydomain
#relayhost = [gateway.my.domain]
#relayhost = [mailserver.isp.tld]
#relayhost = uucphost
#relayhost = [an.ip.add.ress]
relay = neptuno.redes.dis.ulpqc.es
relayhost = [$relay]
# REJECTING UNKNOWN RELAY USERS
# The relay recipient maps parameter specifies optional lookup tables
# with all addresses in the domains that match $relay domains.
# If this parameter is defined, then the SMTP server will reject
# mail for unknown relay users. This feature is off by default.
```

```
# The right-hand side of the lookup tables is conveniently ignored.
# In the left-hand side, specify an @domain.tld wild-card, or specify
# a user@domain.tld address.
#relay recipient maps = hash:/etc/postfix/relay recipients
# INPUT RATE CONTROL
# The in flow delay configuration parameter implements mail input
# flow control. This feature is turned on by default, although it
# still needs further development (it's disabled on SCO UNIX due
# to an SCO bug).
# A Postfix process will pause for $in flow delay seconds before
# accepting a new message, when the message arrival rate exceeds the
# message delivery rate. With the default 100 SMTP server process
# limit, this limits the mail inflow to 100 messages a second more
# than the number of messages delivered per second.
# Specify 0 to disable the feature. Valid delays are 0..10.
#in flow delay = 1s
# ADDRESS REWRITING
# The ADDRESS REWRITING README document gives information about
# address masquerading or other forms of address rewriting including
# username->Firstname.Lastname mapping.
# ADDRESS REDIRECTION (VIRTUAL DOMAIN)
# The VIRTUAL README document gives information about the many forms
# of domain hosting that Postfix supports.
# "USER HAS MOVED" BOUNCE MESSAGES
# See the discussion in the ADDRESS REWRITING README document.
# TRANSPORT MAP
# See the discussion in the ADDRESS REWRITING README document.
# ALIAS DATABASE
# The alias maps parameter specifies the list of alias databases used
# by the local delivery agent. The default list is system dependent.
# On systems with NIS, the default is to search the local alias
# database, then the NIS alias database. See aliases(5) for syntax
# details.
# If you change the alias database, run "postalias /etc/aliases" (or
# wherever your system stores the mail alias file), or simply run
# "newaliases" to build the necessary DBM or DB file.
# It will take a minute or so before changes become visible. Use
# "postfix reload" to eliminate the delay.
#alias maps = dbm:/etc/aliases
alias maps = hash:/etc/aliases
```

```
#alias maps = hash:/etc/aliases, nis:mail.aliases
# The alias database parameter specifies the alias database(s) that
# are built with "newaliases" or "sendmail -bi". This is a separate
# configuration parameter, because alias maps (see above) may specify
# tables that are not necessarily all under control by Postfix.
#alias_database = dbm:/etc/aliases
#alias_database = dbm:/etc/mail/aliases
alias_database = $alias_maps
#alias database = hash:/etc/aliases, hash:/opt/majordomo/aliases
# ADDRESS EXTENSIONS (e.g., user+foo)
# The recipient delimiter parameter specifies the separator between
# user names and address extensions (user+foo). See canonical(5),
# local(8), relocated(5) and virtual(5) for the effects this has on
# aliases, canonical, virtual, relocated and .forward file lookups.
# Basically, the software tries user+foo and .forward+foo before
# trying user and .forward.
#recipient delimiter = +
# DELIVERY TO MAILBOX
# The home mailbox parameter specifies the optional pathname of a
# mailbox file relative to a user's home directory. The default
# mailbox file is /var/spool/mail/user or /var/mail/user. Specify
# "Maildir/" for qmail-style delivery (the / is required).
\#home mailbox = Mailbox
#home mailbox = Maildir/
# The mail spool directory parameter specifies the directory where
# UNIX-style mailboxes are kept. The default setting depends on the
# system type.
#mail_spool_directory = /var/mail
mail spool directory = /var/spool/mail
# The mailbox command parameter specifies the optional external
# command to use instead of mailbox delivery. The command is run as
# the recipient with proper HOME, SHELL and LOGNAME environment
settings.
# Exception: delivery for root is done as $default user.
# Other environment variables of interest: USER (recipient username),
# EXTENSION (address extension), DOMAIN (domain part of address),
# and LOCAL (the address localpart).
# Unlike other Postfix configuration parameters, the mailbox command
# parameter is not subjected to $parameter substitutions. This is to
# make it easier to specify shell syntax (see example below).
# Avoid shell meta characters because they will force Postfix to run
# an expensive shell process. Procmail alone is expensive enough.
# IF YOU USE THIS TO DELIVER MAIL SYSTEM-WIDE, YOU MUST SET UP AN
# ALIAS THAT FORWARDS MAIL FOR ROOT TO A REAL USER.
#mailbox command = /some/where/procmail
```

```
#mailbox command = /some/where/procmail -a "$EXTENSION"
# The mailbox transport specifies the optional transport in master.cf
# to use after processing aliases and .forward files. This parameter
# has precedence over the mailbox command, fallback transport and
# luser relay parameters.
# Specify a string of the form transport:nexthop, where transport is
# the name of a mail delivery transport defined in master.cf. The
# :nexthop part is optional. For more details see the sample transport
# configuration file.
# NOTE: if you use this feature for accounts not in the UNIX password
# file, then you must update the "local recipient maps" setting in
# the main.cf file, otherwise the SMTP server will reject mail for
# non-UNIX accounts with "User unknown in local recipient table".
#mailbox transport = lmtp:unix:/var/lib/imap/socket/lmtp
# If using the cyrus-imapd IMAP server deliver local mail to the IMAP
# server using LMTP (Local Mail Transport Protocol), this is prefered
# over the older cyrus deliver program by setting the
# mailbox transport as below:
# mailbox transport = lmtp:unix:/var/lib/imap/socket/lmtp
# The efficiency of LMTP delivery for cyrus-imapd can be enhanced via
# these settings.
# local_destination_recipient_limit = 300
# local destination concurrency limit = 5
# Of course you should adjust these settings as appropriate for the
# capacity of the hardware you are using. The recipient limit setting
\# can be used to take advantage of the single instance message store
# capability of Cyrus. The concurrency limit can be used to control
# how many simultaneous LMTP sessions will be permitted to the Cyrus
# message store.
# To use the old cyrus deliver program you have to set:
#mailbox transport = cyrus
# The fallback transport specifies the optional transport in master.cf
# to use for recipients that are not found in the UNIX passwd
database.
# This parameter has precedence over the luser relay parameter.
# Specify a string of the form transport:nexthop, where transport is
# the name of a mail delivery transport defined in master.cf. The
# :nexthop part is optional. For more details see the sample transport
# configuration file.
# NOTE: if you use this feature for accounts not in the UNIX password
# file, then you must update the "local recipient maps" setting in
# the main.cf file, otherwise the SMTP server will reject mail for
# non-UNIX accounts with "User unknown in local recipient table".
#fallback transport = lmtp:unix:/var/lib/imap/socket/lmtp
```

The luser relay parameter specifies an optional destination address

#fallback transport =

```
# for unknown recipients. By default, mail for
unknown@$mydestination,
# unknown@[$inet interfaces] or unknown@[$proxy interfaces] is
returned
# as undeliverable.
# The following expansions are done on luser relay: $user (recipient
# username), $shell (recipient shell), $home (recipient home
directory),
# $recipient (full recipient address), $extension (recipient address
# extension), $domain (recipient domain), $local (entire recipient
# localpart), $recipient_delimiter. Specify ${name?value} or
# ${name:value} to expand value only when $name does (does not) exist.
# luser relay works only for the default Postfix local delivery agent.
# NOTE: if you use this feature for accounts not in the UNIX password
# file, then you must specify "local recipient maps =" (i.e. empty) in
# the main.cf file, otherwise the SMTP server will reject mail for
# non-UNIX accounts with "User unknown in local recipient table".
#luser relay = $user@other.host
#luser relay = $local@other.host
#luser relay = admin+$local
# JUNK MAIL CONTROLS
# The controls listed here are only a very small subset. The file
# SMTPD ACCESS README provides an overview.
# The header checks parameter specifies an optional table with
patterns
# that each logical message header is matched against, including
# headers that span multiple physical lines.
\# By default, these patterns also apply to MIME headers and to the
# headers of attached messages. With older Postfix versions, MIME and
# attached message headers were treated as body text.
# For details, see "man header checks".
#header checks = regexp:/etc/postfix/header checks
# FAST ETRN SERVICE
# Postfix maintains per-destination logfiles with information about
# deferred mail, so that mail can be flushed quickly with the SMTP
# "ETRN domain.tld" command, or by executing "sendmail -qRdomain.tld".
# See the ETRN README document for a detailed description.
# The fast flush domains parameter controls what destinations are
# eliqible for this service. By default, they are all domains that
# this server is willing to relay mail to.
#fast flush domains = $relay domains
# SHOW SOFTWARE VERSION OR NOT
# The smtpd banner parameter specifies the text that follows the 220
# code in the SMTP server's greeting banner. Some people like to see
# the mail version advertised. By default, Postfix shows no version.
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# You MUST specify $myhostname at the start of the text. That is an
# RFC requirement. Postfix itself does not care.
#smtpd banner = $myhostname ESMTP $mail name
#smtpd banner = $myhostname ESMTP $mail name ($mail version)
# PARALLEL DELIVERY TO THE SAME DESTINATION
# How many parallel deliveries to the same user or domain? With local
# delivery, it does not make sense to do massively parallel delivery
# to the same user, because mailbox updates must happen sequentially,
# and expensive pipelines in .forward files can cause disasters when
# too many are run at the same time. With SMTP deliveries, 10
# simultaneous connections to the same domain could be sufficient to
# raise eyebrows.
# Each message delivery transport has its
XXX destination concurrency limit
# parameter. The default is $default destination concurrency limit
for
# most delivery transports. For the local delivery agent the default
is 2.
#local destination concurrency limit = 2
#default destination concurrency limit = 20
# DEBUGGING CONTROL
# The debug_peer_level parameter specifies the increment in verbose
# logging level when an SMTP client or server host name or address
# matches a pattern in the debug peer list parameter.
debug peer level = 2
# The debug peer list parameter specifies an optional list of domain
# or network patterns, /file/name patterns or type:name tables. When
# an SMTP client or server host name or address matches a pattern,
# increase the verbose logging level by the amount specified in the
# debug peer level parameter.
#debug_peer_list = 127.0.0.1
#debug peer list = some.domain
# The debugger command specifies the external command that is executed
# when a Postfix daemon program is run with the -D option.
\# Use "command .. \& sleep 5" so that the debugger can attach before
# the process marches on. If you use an X-based debugger, be sure to
# set up your XAUTHORITY environment variable before starting Postfix.
debugger command =
       PATH=/bin:/usr/bin:/usr/local/bin:/usr/X11R6/bin
       xxgdb $daemon directory/$process name $process id & sleep 5
# If you can't use X, use this to capture the call stack when a
# daemon crashes. The result is in a file in the configuration
# directory, and is named after the process name and the process ID.
# debugger command =
      PATH=/bin:/usr/bin:/usr/local/bin; export PATH; (echo cont;
```

```
echo where) | gdb $daemon directory/$process name $process id
2>&1
      >$config directory/$process name.$process id.log & sleep 5
# Another possibility is to run gdb under a detached screen session.
# To attach to the screen sesssion, su root and run "screen -r
# <id string>" where <id string> uniquely matches one of the detached
# sessions (from "screen -list").
# debugger command =
     PATH=/bin:/usr/bin:/sbin:/usr/sbin; export PATH; screen
      -dmS $process_name gdb $daemon_directory/$process_name
#
      $process id & sleep 1
# INSTALL-TIME CONFIGURATION INFORMATION
# The following parameters are used when installing a new Postfix
version.
# sendmail path: The full pathname of the Postfix sendmail command.
# This is the Sendmail-compatible mail posting interface.
sendmail path = /usr/sbin/sendmail.postfix
# newaliases path: The full pathname of the Postfix newaliases
# This is the Sendmail-compatible command to build alias databases.
newaliases path = /usr/bin/newaliases.postfix
# mailq path: The full pathname of the Postfix mailq command. This
# is the Sendmail-compatible mail queue listing command.
mailq path = /usr/bin/mailq.postfix
# setgid group: The group for mail submission and queue management
# commands. This must be a group name with a numerical group ID that
# is not shared with other accounts, not even with the Postfix
account.
setgid group = postdrop
# html directory: The location of the Postfix HTML documentation.
html directory = no
# manpage directory: The location of the Postfix on-line manual pages.
manpage directory = /usr/share/man
# sample directory: The location of the Postfix sample configuration
# This parameter is obsolete as of Postfix 2.1.
sample directory = /usr/share/doc/postfix-2.6.6/samples
# readme directory: The location of the Postfix README files.
readme directory = /usr/share/doc/postfix-2.6.6/README FILES
message size limit = 10485760
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mailbox_size_limit = 10485760