

## NAME

postfix – Postfix control program

## SYNOPSIS

**postfix** [-Dv] [-c *config\_dir*] *command*

## DESCRIPTION

This command is reserved for the superuser. To submit mail, use the Postfix **sendmail**(1) command.

The **postfix**(1) command controls the operation of the Postfix mail system: start or stop the **master**(8) daemon, do a health check, and other maintenance.

By default, the **postfix**(1) command sets up a standardized environment and runs the **postfix-script** shell script to do the actual work.

However, when support for multiple Postfix instances is configured, **postfix**(1) executes the command specified with the **multi\_instance\_wrapper** configuration parameter. This command will execute the *command* for each applicable Postfix instance.

The following commands are implemented:

**check** Warn about bad directory/file ownership or permissions, and create missing directories.

**start** Start the Postfix mail system. This also runs the configuration check described above.

**stop** Stop the Postfix mail system in an orderly fashion. If possible, running processes are allowed to terminate at their earliest convenience.

Note: in order to refresh the Postfix mail system after a configuration change, do not use the **start** and **stop** commands in succession. Use the **reload** command instead.

**abort** Stop the Postfix mail system abruptly. Running processes are signaled to stop immediately.

**flush** Force delivery: attempt to deliver every message in the deferred mail queue. Normally, attempts to deliver delayed mail happen at regular intervals, the interval doubling after each failed attempt.

Warning: flushing undeliverable mail frequently will result in poor delivery performance of all other mail.

**reload** Re-read configuration files. Running processes terminate at their earliest convenience.

**status** Indicate if the Postfix mail system is currently running.

**set-permissions** [*name=value ...*]

Set the ownership and permissions of Postfix related files and directories, as specified in the **postfix-files** file.

Specify *name=value* to override and update specific main.cf configuration parameters. Use this, for example, to change the **mail\_owner** or **setgid\_group** setting for an already installed Postfix system.

This feature is available in Postfix 2.1 and later. With Postfix 2.0 and earlier, use "**\$config\_directory/post-install set-permissions**".

**upgrade-configuration** [*name=value ...*]

Update the **main.cf** and **master.cf** files with information that Postfix needs in order to run: add or update services, and add or update configuration parameter settings.

Specify *name=value* to override and update specific main.cf configuration parameters.

This feature is available in Postfix 2.1 and later. With Postfix 2.0 and earlier, use

**"\$confi g\_directory/post-install upgrade-confi guration".**

The following options are implemented:

**-c** *confi g\_dir*

Read the **main.cf** and **master.cf** confi guration fi les in the named directory instead of the default confi guration directory. Use this to distinguish between multiple Postfi x instances on the same host.

With Postfi x 2.6 and later, this option forces the postfi x(1) command to operate on the specifi ed Postfi x instance only. This behavior is inherited by postfi x(1) commands that run as a descendant of the current process.

**-D** (with **postfi x start** only)

Run each Postfi x daemon under control of a debugger as specifi ed via the **debugger\_command** confi guration parameter.

**-v** Enable verbose logging for debugging purposes. Multiple **-v** options make the software increasingly verbose.

## ENVIRONMENT

The **postfi x(1)** command exports the following environment variables before executing the **postfi x-script** fi le:

### MAIL\_CONFIG

This is set when the **-c** command-line option is present.

With Postfi x 2.6 and later, this environment variable forces the postfi x(1) command to operate on the specifi ed Postfi x instance only. This behavior is inherited by postfi x(1) commands that run as a descendant of the current process.

### MAIL\_VERBOSE

This is set when the **-v** command-line option is present.

### MAIL\_DEBUG

This is set when the **-D** command-line option is present.

## CONFIGURATION PARAMETERS

The following **main.cf** confi guration parameters are exported as environment variables with the same names:

### **confi g\_directory** (see '**postconf -d**' output)

The default location of the Postfi x main.cf and master.cf confi guration fi les.

### **command\_directory** (see '**postconf -d**' output)

The location of all postfi x administrative commands.

### **daemon\_directory** (see '**postconf -d**' output)

The directory with Postfi x support programs and daemon programs.

### **html\_directory** (see '**postconf -d**' output)

The location of Postfi x HTML fi les that describe how to build, confi gure or operate a specifi c Postfi x subsystem or feature.

### **mail\_owner** (**postfi x**)

The UNIX system account that owns the Postfi x queue and most Postfi x daemon processes.

### **mailq\_path** (see '**postconf -d**' output)

Sendmail compatibility feature that specifi es where the Postfi x **mailq(1)** command is installed.

### **manpage\_directory** (see '**postconf -d**' output)

Where the Postfi x manual pages are installed.

**newaliases\_path (see 'postconf -d' output)**

Sendmail compatibility feature that specifies the location of the **newaliases(1)** command.

**queue\_directory (see 'postconf -d' output)**

The location of the Postfix top-level queue directory.

**readme\_directory (see 'postconf -d' output)**

The location of Postfix README files that describe how to build, configure or operate a specific Postfix subsystem or feature.

**sendmail\_path (see 'postconf -d' output)**

A Sendmail compatibility feature that specifies the location of the Postfix **sendmail(1)** command.

**setgid\_group (postdrop)**

The group ownership of set-gid Postfix commands and of group-writable Postfix directories.

Available in Postfix version 2.5 and later:

**data\_directory (see 'postconf -d' output)**

The directory with Postfix-writable data files (for example: caches, pseudo-random numbers).

Available in Postfix version 3.0 and later:

**meta\_directory (see 'postconf -d' output)**

The location of non-executable files that are shared among multiple Postfix instances, such as postfix-files, dynamicmaps.cf, and the multi-instance template files main.cf.proto and master.cf.proto.

**shlib\_directory (see 'postconf -d' output)**

The location of Postfix dynamically-linked libraries (libpostfix-\*.so), and the default location of Postfix database plugins (postfix-\*.so) that have a relative pathname in the dynamicmaps.cf file.

Other configuration parameters:

**import\_environment (see 'postconf -d' output)**

The list of environment parameters that a Postfix process will import from a non-Postfix parent process.

**syslog\_facility (mail)**

The syslog facility of Postfix logging.

**syslog\_name (see 'postconf -d' output)**

The mail system name that is prepended to the process name in syslog records, so that "smtpd" becomes, for example, "postfix/smtpd".

Available in Postfix version 2.6 and later:

**multi\_instance\_directories (empty)**

An optional list of non-default Postfix configuration directories; these directories belong to additional Postfix instances that share the Postfix executable files and documentation with the default Postfix instance, and that are started, stopped, etc., together with the default Postfix instance.

**multi\_instance\_wrapper (empty)**

The pathname of a multi-instance manager command that the **postfix x(1)** command invokes when the multi\_instance\_directories parameter value is non-empty.

**multi\_instance\_group (empty)**

The optional instance group name of this Postfix instance.

**multi\_instance\_name (empty)**

The optional instance name of this Postfix instance.

**multi\_instance\_enable (no)**

Allow this Postfix instance to be started, stopped, etc., by a multi-instance manager.

## FILES

Prior to Postfix version 2.6, all of the following files were in **\$confdir**. Some files are now in **\$sysconfdir** so that they can be shared among multiple instances that run the same Postfix version.

Use the command "**postconf confdir**" or "**postconf sysconfdir**" to expand the names into their actual values.

**\$confdir/main.cf**, Postfix configuration parameters  
**\$confdir/master.cf**, Postfix daemon processes  
**\$sysconfdir/postfix-files**, file/directory permissions  
**\$sysconfdir/postfix-script**, administrative commands  
**\$sysconfdir/post-install**, post-installation configuration  
**\$sysconfdir/dynamicmaps.cf**, plug-in database clients

## SEE ALSO

Commands:

**postalias(1)**, create/update/query alias database  
**postcat(1)**, examine Postfix queue file  
**postconf(1)**, Postfix configuration utility  
**postfix(1)**, Postfix control program  
**postkick(1)**, trigger Postfix daemon  
**postlock(1)**, Postfix-compatible locking  
**postlog(1)**, Postfix-compatible logging  
**postmap(1)**, Postfix lookup table manager  
**postmulti(1)**, Postfix multi-instance manager  
**postqueue(1)**, Postfix mail queue control  
**postsuper(1)**, Postfix housekeeping  
**mailq(1)**, Sendmail compatibility interface  
**newaliases(1)**, Sendmail compatibility interface  
**sendmail(1)**, Sendmail compatibility interface

Postfix configuration:

**bounce(5)**, Postfix bounce message templates  
**master(5)**, Postfix master.cf file syntax  
**postconf(5)**, Postfix main.cf file syntax  
**postfix-wrapper(5)**, Postfix multi-instance API

Table-driven mechanisms:

**access(5)**, Postfix SMTP access control table  
**aliases(5)**, Postfix alias database  
**canonical(5)**, Postfix input address rewriting  
**generic(5)**, Postfix output address rewriting  
**header\_checks(5)**, **body\_checks(5)**, Postfix content inspection  
**relocated(5)**, Users that have moved  
**transport(5)**, Postfix routing table  
**virtual(5)**, Postfix virtual aliasing

Table lookup mechanisms:

**cidr\_table(5)**, Associate CIDR pattern with value  
**ldap\_table(5)**, Postfix LDAP client  
**lmdb\_table(5)**, Postfix LMDB database driver  
**memcache\_table(5)**, Postfix memcache client  
**mysql\_table(5)**, Postfix MySQL client  
**nisplus\_table(5)**, Postfix NIS+ client  
**pcre\_table(5)**, Associate PCRE pattern with value

pgsql\_table(5), Postfix x PostgreSQL client  
regexp\_table(5), Associate POSIX regexp pattern with value  
socketmap\_table(5), Postfix x socketmap client  
sqlite\_table(5), Postfix x SQLite database driver  
tcp\_table(5), Postfix x client-server table lookup

#### Daemon processes:

anvil(8), Postfix x connection/rate limiting  
bounce(8), defer(8), trace(8), Delivery status reports  
cleanup(8), canonicalize and enqueue message  
discard(8), Postfix x discard delivery agent  
dnsblog(8), DNS black/whitelist logger  
error(8), Postfix x error delivery agent  
flush(8), Postfix x fast ETRN service  
local(8), Postfix x local delivery agent  
master(8), Postfix x master daemon  
oqmgr(8), old Postfix x queue manager  
pickup(8), Postfix x local mail pickup  
pipe(8), deliver mail to non-Postfix x command  
postscreen(8), Postfix x zombie blocker  
proxymap(8), Postfix x lookup table proxy server  
qmgr(8), Postfix x queue manager  
qmqpd(8), Postfix x QMQP server  
scache(8), Postfix x connection cache manager  
showq(8), list Postfix x mail queue  
smtp(8), lmtpl(8), Postfix x SMTP+LMTP client  
smtpd(8), Postfix x SMTP server  
spawn(8), run non-Postfix x server  
tlsmgr(8), Postfix x TLS cache and randomness manager  
tlsproxy(8), Postfix x TLS proxy server  
trivial-rewrite(8), Postfix x address rewriting  
verify(8), Postfix x address verification  
virtual(8), Postfix x virtual delivery agent

#### Other:

syslogd(8), system logging

## README FILES

Use "**postconf readme\_directory**" or "**postconf html\_directory**" to locate this information.

OVERVIEW, overview of Postfix commands and processes

BASIC\_CONFIGURATION\_README, Postfix x basic configuration

ADDRESS\_REWRITING\_README, Postfix x address rewriting

SMTPD\_ACCESS\_README, SMTP relay/access control

CONTENT\_INSPECTION\_README, Postfix x content inspection

QSHAPE\_README, Postfix x queue analysis

## LICENSE

The Secure Mailer license must be distributed with this software.

## AUTHOR(S)

Wietse Venema

IBM T.J. Watson Research

P.O. Box 704

Yorktown Heights, NY 10598, USA

TLS support by:

Lutz Jaenicke  
Brandenburg University of Technology  
Cottbus, Germany

Victor Duhovni  
Morgan Stanley

SASL support originally by:  
Till Franke  
SuSE Rhein/Main AG  
65760 Eschborn, Germany

LMTP support originally by:  
Philip A. Prindeville  
Mirapoint, Inc.  
USA.

Amos Gouaux  
University of Texas at Dallas  
P.O. Box 830688, MC34  
Richardson, TX 75083, USA

IPv6 support originally by:  
Mark Huizer, Eindhoven University, The Netherlands  
Jun-ichiro 'itojun' Hagino, KAME project, Japan  
The Linux PLD project  
Dean Strik, Eindhoven University, The Netherlands