

Servidor web/dades

Actualització a Debian 9.13 "stretch" - Agost de 2022

Debian 9.13 es va publicar el 18 de juliol de 2020. Debian 9.0 es va publicar inicialment el 17 de juny de 2017.

Aquesta pàgina conté la descripció detallada del procés d'actualització.

Les instruccions i recomanacions per instal·lar Debian 9 "stretch" estan disponibles a:

- [Debian stretch -- Installation Guide](#)
- [Debian GNU/Linux Installation Guide](#). Installation instructions for the Debian GNU/Linux 9 system (codename "stretch"), for the 64-bit PC ("amd64") architecture.
- [Installing Debian 9.13](#)
- [Release Notes for Debian 9 \(stretch\), 64-bit PC-](#)

i les instruccions i recomanacions per actualitzar Debian 8 "jessie" a Debian 9 "stretch" estan disponibles a:

- [Chapter 4. Upgrades from Debian 8 \(jessie\)](#)

Eliminació de programari sense us: Libreoffice

Desinstal·lo el programa Libreoffice i allibero 357 MB d'espai de disc:

```
Package 'libreoffice-wiki-publisher' is not installed, so not removed
The following packages will be REMOVED:
  libreoffice libreoffice-avmedia-backend-gstreamer libreoffice-base
  libreoffice-base-core libreoffice-base-drivers libreoffice-calc libreoffice-
  common libreoffice-core
  libreoffice-draw libreoffice-evolution libreoffice-gnome libreoffice-gtk
  libreoffice-help-en-us libreoffice-impress libreoffice-java-common
  libreoffice-math
  libreoffice-report-builder-bin libreoffice-sdbc-firebird libreoffice-sdbc-
  hsqldb libreoffice-style-galaxy libreoffice-style-tango libreoffice-writer
  mythes-en-us python3-uno
  unoconv
0 upgraded, 0 newly installed, 25 to remove and 0 not upgraded.
After this operation, 357 MB disk space will be freed.
Do you want to continue? [Y/n]
(Reading database ... 203613 files and directories currently installed.)
Removing libreoffice (1:4.3.3-2+deb8u13) ...
...
Processing triggers for gnome-icon-theme (3.12.0-1) ...
Processing triggers for shared-mime-info (1.3-1) ...
```

Amb la comanda `sudo apt-get autoremove` elimino els paquets que ja no són necessaris i aconseguixo alliberar 40 MB addicionals d'espai de disc:

```
# apt-get autoremove
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
  coinor-libcbc3 coinor-libcgl1 coinor-libclp1 coinor-libcoinmp1 coinor-
libcoinutils3 coinor-libosil firebird2.5-common firebird2.5-common-doc
firebird2.5-server-common
  libabw-0.1-1 libcdr-0.1-1 libclucene-contribs1 libclucene-core1
libcmis-0.4-4 libe-book-0.1-1 libeot0 libetonyek-0.1-1 libexttextcat-2.0-0
libfbclient2 libfbembed2.5
  libfreehand-0.1-1 libgltf-0.0-0 libhsqldb1.8.0-java liblangtag-common
liblangtag1 libmspub-0.1-1 libmwaw-0.3-3 libodfgen-0.1-1 liborcus-0.8-0
libvisio-0.1-1 libwps-0.3-3
0 upgraded, 0 newly installed, 31 to remove and 0 not upgraded.
After this operation, 40.4 MB disk space will be freed.
Do you want to continue? [Y/n]
(Reading database ... 199414 files and directories currently installed.)
Removing coinor-libcoinmp1:amd64 (1.7.6+dfsg1-1) ...
Removing coinor-libcbc3 (2.8.12-1) ...
...
Processing triggers for libc-bin (2.19-18+deb8u10) ...
Processing triggers for man-db (2.7.0.2-5) ...
```

Eliminació de programari sense us: PostgreSQL

Actualment no fem ús del gestor de base de dades PostgreSQL, de forma que la desinstal·lo.

Primer comprovo quines bases de dades hi ha definides per si calgués fer una còpia de seguretat,

```
$ psql -l

                                List of databases
   Name          |  Owner   | Encoding | Collate  |  Ctype   |
Access privileges
-----+-----+-----+-----+-----+
 postgres        | postgres | UTF8     | en_US.UTF-8 | en_US.UTF-8 |
 sermnadmin-db   | sermnadmin | UTF8     | en_US.UTF-8 | en_US.UTF-8 |
 template0       | postgres | UTF8     | en_US.UTF-8 | en_US.UTF-8 |
=c/postgres      |          |          |             |             |
 postgres=CTc/postgres
 template1       | postgres | UTF8     | en_US.UTF-8 | en_US.UTF-8 |
 postgres=CTc/postgres+
```

```
=c/postgres
(4 rows)
```

Només la bd "sermnadmin-db" podria contenir informació, de forma que em connecto i comprovo que no conté res,

```
$ psql -d sermnadmin-db
psql (9.4.26)
Type "help" for help.
sermnadmin-db=> \dt
No relations found.
sermnadmin-db=> \conninfo
You are connected to database "sermnadmin-db" as user "sermnadmin" via
socket in "/var/run/postgresql" at port "5432".
sermnadmin-db=> \dS+

                                List of relations
 Schema | Name | Type | Owner | Size
-----+-----+-----+-----+-----
 pg_catalog | pg_aggregate | table | postgres | 48 kB
 pg_catalog | pg_am | table | postgres | 40 kB
 ...
 pg_catalog | pg_user_mappings | view | postgres | 0 bytes
 pg_catalog | pg_views | view | postgres | 0 bytes
(99 rows)

sermnadmin-db=> \q
```

Així doncs, PostgreSQL es pot desinstal·lar i amb això guanyem 38 MB d'espai de disc.

```
# apt-get remove postgresql*
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'libghc-haskellldb-hdbc-postgresql-dev' for regex
'postgresql*'
Note, selecting 'postgresql-9.4-asnloid' for regex 'postgresql*'
...
Package 'postgresql-client' is not installed, so not removed
Package 'postgresql-server-dev-all' is not installed, so not removed
Package 'pure-ftpd-postgresql' is not installed, so not removed
The following packages will be REMOVED:
 autopostgresqlbackup postgresql postgresql-9.4 postgresql-client-9.4
 postgresql-client-common postgresql-common postgresql-contrib postgresql-
 contrib-9.4 postgresql-doc postgresql-doc-9.4
```

```
0 upgraded, 0 newly installed, 10 to remove and 0 not upgraded.
After this operation, 37.8 MB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 199161 files and directories currently installed.)
Removing autopostgresqlbackup (1.0-5) ...
Removing postgresql (9.4+165+deb8u4) ...
Removing postgresql-contrib (9.4+165+deb8u4) ...
Removing postgresql-contrib-9.4 (9.4.26-0+deb8u1) ...
...
Processing 1 removed doc-base file...
Registering documents with dwww...
Registering documents with scrollkeeper...
```

Comprovació de l'espai de disc disponible

Comprovo l'espai de disc disponible i veig que la partició root està al 33% i té 1,2 GB disponibles, i que la partició “/usr” està al 23% i té 14 GB disponibles.

```
# df -hl
Filesystem      Size  Used Avail Use% Mounted on
udev            10M    0   10M   0% /dev
tmpfs           1.6G  106M   1.5G   7% /run
/dev/sda1       1.9G  561M   1.2G  33% /
/dev/sda5       19G   4.0G   14G   23% /usr
tmpfs           3.9G   156K   3.9G   1% /dev/shm
tmpfs           5.0M    0   5.0M   0% /run/lock
tmpfs           3.9G    0   3.9G   0% /sys/fs/cgroup
/dev/sda8       9.1G   4.4G   4.2G  52% /tmp
/dev/sda6       184G  164G   11G  95% /var
/dev/sdb1       459G  366G   70G  84% /var/lib/pydio/data
/dev/sda9       237G  206G   19G  92% /home
tmpfs           787M    0   787M   0% /run/user/1001
tmpfs           787M   16K   787M   1% /run/user/1000
```

Còpies de seguretat

Guardo a `/home/sermnadmin/Documents/Upgrade-from-Debian8-to-Debian9` una còpia de seguretat de les següents carpetes i fitxers:

- `/etc` → `etc`
- `/var/lib/dpkg` → `var-lib-dpkg`
- `/var/lib/apt/extended_states` → `var-lib-apt-extended_states`

```
$ cd Documents/
$ mkdir -p Upgrade-Debian8-to-Debian9/backups
$ cd Upgrade-Debian8-to-Debian9/backups
$ sudo rsync -Hvax /etc .
```

```
[sudo] password for sermnadmin:
sending incremental file list
etc/
etc/.cifs_adminpass_a250auto
etc/.cifs_adminpass_a250robot
...
etc/xml/xml-core.xml.old
etc/xml/resolver/
etc/xml/resolver/CatalogManager.properties

sent 7,986,443 bytes  received 38,206 bytes  2,292,756.86 bytes/sec
total size is 7,813,176  speedup is 0.97

$ sudo rsync -Hvax /var/lib/dpkg ./var-lib-dpkg
sending incremental file list
dpkg/
...
dpkg/triggers/
dpkg/triggers/File
rsync: send_files failed to open "/var/lib/dpkg/triggers/Lock": Permission
denied (13)
dpkg/triggers/Unincorp
dpkg/triggers/aspell-autobuildhash
...
dpkg/triggers/update-default-wordlist
dpkg/triggers/update-initramfs
dpkg/updates/

sent 52,389,705 bytes  received 174,661 bytes  2,841,317.08 bytes/sec
total size is 51,668,529  speedup is 0.98
rsync error: some files/attrs were not transferred (see previous errors)
(code 23) at main.c(1183) [sender=3.1.1]

$ cp /var/lib/apt/extended_states ./var-lib-apt-extended_states

$ cd ..
$ dpkg --get-selections "*" > ./dpkg--get-selections.txt
```

apt-get update

Modifico els fitxers a `/etc/apto/sources.d` i substitueixo *jessie* per *stretch* per tal d'emprar els magatzems de la versió 9.

Llavors executo la comanda “apt-get update” i em surt el següent error,

```
W: There is no public key available for the following key IDs:
112695A0E562B32A
```

```
W: There is no public key available for the following key IDs:
648ACFD622F3D138
W: GPG error: http://ftp.es.debian.org stretch-backports InRelease: The
following signatures couldn't be verified because the public key is not
available: NO_PUBKEY 648ACFD622F3D138 NO_PUBKEY 0E98404D386FA1D9
W: There is no public key available for the following key IDs:
648ACFD622F3D138
NO_PUBKEY 0E98404D386FA1D9
```

Després d'intentar importar les claus sense èxit, trobo la solució a [gpg: keyserver receive failed: Server indicated a failure](#) on posa que,

```
Behind a firewall you should use the port 80 instead of the default port
11371 :

sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv
9A2FD067A2E3EF7B
```

Ho provo i aconsegueixo importar les claus,

```
$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv
648ACFD622F3D138
Executing: gpg --ignore-time-conflict --no-options --no-default-keyring --
homedir /tmp/tmp.YBbvYkFvZu --no-auto-check-trustdb --trust-model always --
keyring /etc/apt/trusted.gpg --primary-keyring /etc/apt/truste
d.gpg --keyring /etc/apt/trusted.gpg.d/deb-multimedia-keyring.gpg --keyring
/etc/apt/trusted.gpg.d/debian-archive-jessie-automatic.gpg --keyring
/etc/apt/trusted.gpg.d/debian-archive-jessie-security-automatic.gp
g --keyring /etc/apt/trusted.gpg.d/debian-archive-jessie-stable.gpg --
keyring /etc/apt/trusted.gpg.d/debian-archive-stretch-automatic.gpg --
keyring /etc/apt/trusted.gpg.d/debian-archive-stretch-security-automati
c.gpg --keyring /etc/apt/trusted.gpg.d/debian-archive-stretch-stable.gpg --
keyring /etc/apt/trusted.gpg.d/debian-archive-wheezy-automatic.gpg --keyring
/etc/apt/trusted.gpg.d/debian-archive-wheezy-stable.gpg --k
eyring /etc/apt/trusted.gpg.d/pkg-mozilla-archive-keyring.gpg --keyring
/etc/apt/trusted.gpg.d/x2go-archive-X2Go-Packages-Automatic-Signing-Key.gpg
--keyring /etc/apt/trusted.gpg.d/x2go-archive-debian-ubuntu-sig
ning-key.gpg --keyring /etc/apt/trusted.gpg.d/x2go-archive-git-admin.gpg --
keyring /etc/apt/trusted.gpg.d/x2go-archive-ncryer.gpg --keyserver
hkp://keyserver.ubuntu.com:80 --recv 648ACFD622F3D138
gpg: requesting key 22F3D138 from hkp server keyserver.ubuntu.com
gpg: key 3CBBABEE: public key "Debian Archive Automatic Signing Key
(10/buster) <ftpmaster@debian.org>" imported
gpg: Total number processed: 1
gpg:             imported: 1 (RSA: 1)

$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv
0E98404D386FA1D9
...
```

```
gpg: requesting key 386FA1D9 from hkp server keyserver.ubuntu.com
gpg: key 8DD47936: public key "Debian Archive Automatic Signing Key
(11/bullseye) <ftpmaster@debian.org>" imported
gpg: Total number processed: 1
gpg:             imported: 1 (RSA: 1)

$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv
112695A0E562B32A
...
gpg: requesting key E562B32A from hkp server keyserver.ubuntu.com
gpg: key CAA96DFA: public key "Debian Security Archive Automatic Signing Key
(10/buster) <ftpmaster@debian.org>" imported
gpg: Total number processed: 1
gpg:             imported: 1 (RSA: 1)
```

Torno a executar la comanda ``apt-get update`` i aquest cop finalitza sense missatges d'error,

```
$ sudo apt-get update
Hit http://security.debian.org stretch/updates InRelease
Ign http://ftp.es.debian.org stretch InRelease
Hit http://ftp.es.debian.org stretch-updates InRelease
Get:1 http://ftp.es.debian.org stretch-backports InRelease [99.9 kB]
...
Get:15 http://ftp.es.debian.org stretch-backports/contrib amd64 Packages
[10.9 kB]
Get:16 http://ftp.es.debian.org stretch-backports/non-free amd64 Packages
[33.2 kB]
Fetched 1,884 kB in 4s (416 kB/s)
Reading package lists... Done
```

apt-get upgrade

Llavors executo primer la comanda `apt-get upgrade` per fer una actualització mínima abans de fer la gran actualització de Debian amb la comanda `apt-get dist-upgrade`.

Primer faig una simulació,

```
$ apt-get -s upgrade
NOTE: This is only a simulation!
       apt-get needs root privileges for real execution.
       Keep also in mind that locking is deactivated,
       so don't depend on the relevance to the real current situation!
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... The following packages were automatically installed
and are no longer required:
  docutils-common docutils-doc libegl1-mesa-drivers libelfg0 libmono-
corlib4.0-cil libopengl1-mesa libqt4-dbus libqt4-xml libqtcore4 libqtdbus4
libqtgui4 python-dbus-dev python-docutils python-pygments
```

```
python-roman qdbus qt-at-spi qtchooser qtcore4-l10n
Use 'apt-get autoremove' to remove them.
Done
The following packages have been kept back:
  adwaita-icon-theme apache2 apache2-bin apache2-data apache2-utils
  apachetop
  ...
  xserver-xorg-video-vmware xwayland yelp zeitgeist-core zenity zenity-
  common
The following packages will be upgraded:
  accountsservice acl acpi acpi-support-base acpid adduser aisleriot alsa-
  utils
  ...
  xorg-docs-core xserver-common xterm xz-utils yelp-xsl zip zlib1g
1068 upgraded, 0 newly installed, 0 to remove and 681 not upgraded.
Inst base-files [8+deb8u11] (9.9+deb9u13 Debian:9.13/oldoldstable [amd64])
Conf base-files (9.9+deb9u13 Debian:9.13/oldoldstable [amd64])
...
Conf uptimed (1:0.4.0+git20150923.6b22106-1.1 Debian:9.13/oldoldstable
[amd64])
Conf yelp-xsl (3.20.1-2 Debian:9.13/oldoldstable [all])
```

i llavors executo la comanda,

```
$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... The following packages were automatically installed
and are no longer required:
  docutils-common docutils-doc libegl1-mesa-drivers libelfg0 libmono-
  corlib4.0-cil libopenvg1-mesa libqt4-dbus libqt4-xml libqtcore4 libqtdbus4
  libqtgui4 python-dbus-dev python-docutils python-pygments
  python-roman qdbus qt-at-spi qtchooser qtcore4-l10n
Use 'apt-get autoremove' to remove them.
Done
The following packages have been kept back:
  adwaita-icon-theme apache2 apache2-bin
  ...
  xserver-xorg-video-vmware xwayland yelp zeitgeist-core zenity zenity-
  common
The following packages will be upgraded:
  accountsservice acl acpi acpi-support-base
  ...
  xserver-common xterm xz-utils yelp-xsl zip zlib1g
1068 upgraded, 0 newly installed, 0 to remove and 681 not upgraded.
Need to get 392 MB of archives.
After this operation, 71.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

```
Get:1 http://security.debian.org/ stretch/updates/main libbsd0 amd64
0.8.3-1+deb9u1 [82.9 kB]
Get:2 http://security.debian.org/ stretch/updates/main tar amd64
1.29b-1.1+deb9u1 [760 kB]
Get:3 http://ftp.es.debian.org/debian/ stretch/main base-files amd64
9.9+deb9u13 [67.6 kB]
...
Get:1067 http://ftp.es.debian.org/debian/ stretch/main uptimed amd64
1:0.4.0+git20150923.6b22106-1.1 [45.0 kB]
Get:1068 http://ftp.es.debian.org/debian/ stretch/main yelp-xsl all 3.20.1-2
[474 kB]
Fetched 392 MB in 2min 41s (2,433 kB/s)
Reading changelogs... Done
apt-listchanges: Mailing root: apt-listchanges: news for sermnserver
Extracting templates from packages: 100%
Preconfiguring packages ...
(Reading database ... 197306 files and directories currently installed.)
Preparing to unpack .../base-files_9.9+deb9u13_amd64.deb ...
Unpacking base-files (9.9+deb9u13) over (8+deb8u11) ...
...
aspell-autobuildhash: processing: en [en_US-w_accents-only].
aspell-autobuildhash: processing: en [en_US-wo_accents-only].
Processing triggers for ca-certificates (20200601~deb9u2) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...

done.
done.
```

Comprovo i actualitzo els nous fitxers de configuració:

-  nanorc
-  bootlogd
-  stop-bootlogd
-  stop-bootlogd-single
-  sysstat
-  apt.conf.d/50-unattended-upgrades
-  init.d/unattended-upgrades

apt-get dist-upgrade

Finalment executo la comanda ``apt-get dist-upgrade`` per actualitzar la resta de paquets i completar la instal·lació de 9.13 “stretch”.

Primer faig una simulació:

```
...
```

i després executo la comanda:

...

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