

Instituto Tecnológico Superior de Jerez.



Jerez de García Salinas a 14 de Febrero del 2020.

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INGENIERÍA EN SISTEMAS COMPUTACIONALES.

Administración de Bases de Datos.

6to. Semestre.

Reporte de Practica (Instalación de MySQL y Apache Derby).

ISC. Salvador Acevedo Sandoval.

Objetivo.

El presente reporte se realiza con la finalidad de demostrar y/o mostrar el procedimiento o los pasos necesarios para instalar MySQL y Apache Derby en un servidor Debian 8, así como también, mostrar los resultados obtenidos.

Procedimiento.

Instalación de MySQL en Debian 8.

- Iniciamos nuestro servidor con nuestro usuario y contraseña.



```
OpenSSH SSH client
Microsoft Windows [Versión 10.0.18363.657]
(c) 2019 Microsoft Corporation. Todos los derechos reservados.

C:\Users\casas-PC>ssh root@176.48.16.9
root@176.48.16.9's password:

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Feb 14 10:04:19 2020 from 176.48.23.7
root@delta:~#
```

- Ejecutamos el comando “apt-get update” que se encarga de actualizar los repositorios de donde descarga programas y obtiene actualizaciones.

```

root@delta:~# apt-get update
Get:1 http://security.debian.org jessie/updates InRelease [44.9 kB]
Ign http://ftp.debian.org jessie InRelease
Hit http://ftp.debian.org jessie-updates InRelease
Hit http://ftp.debian.org jessie Release.gpg
Hit http://ftp.debian.org jessie-updates/main amd64 Packages
Get:2 http://security.debian.org jessie/updates/main amd64 Packages [748 kB]
Hit http://ftp.debian.org jessie-updates/contrib amd64 Packages
Hit http://ftp.debian.org jessie-updates/non-free amd64 Packages
Hit http://ftp.debian.org jessie-updates/contrib Translation-en
Hit http://security.debian.org jessie/updates/contrib amd64 Packages
Hit http://security.debian.org jessie/updates/non-free amd64 Packages
Hit http://security.debian.org jessie/updates/contrib Translation-en
Hit http://security.debian.org jessie/updates/main Translation-en
Hit http://security.debian.org jessie/updates/non-free Translation-en
Hit http://ftp.debian.org jessie-updates/main Translation-en
Hit http://ftp.debian.org jessie-updates/non-free Translation-en
Hit http://ftp.debian.org jessie Release
Hit http://ftp.debian.org jessie/main amd64 Packages
Hit http://ftp.debian.org jessie/contrib amd64 Packages
Hit http://ftp.debian.org jessie/non-free amd64 Packages
Hit http://ftp.debian.org jessie/contrib Translation-en
Hit http://ftp.debian.org jessie/main Translation-en
Hit http://ftp.debian.org jessie/non-free Translation-en
Fetched 793 kB in 3s (202 kB/s)
Reading package lists... Done
root@delta:~#

```

- Una vez terminada la actualización de los repositorios ejecutamos el siguiente comando “apt-get install mysql” que se encarga de descargar e instalar los paquetes necesarios de MySQL.

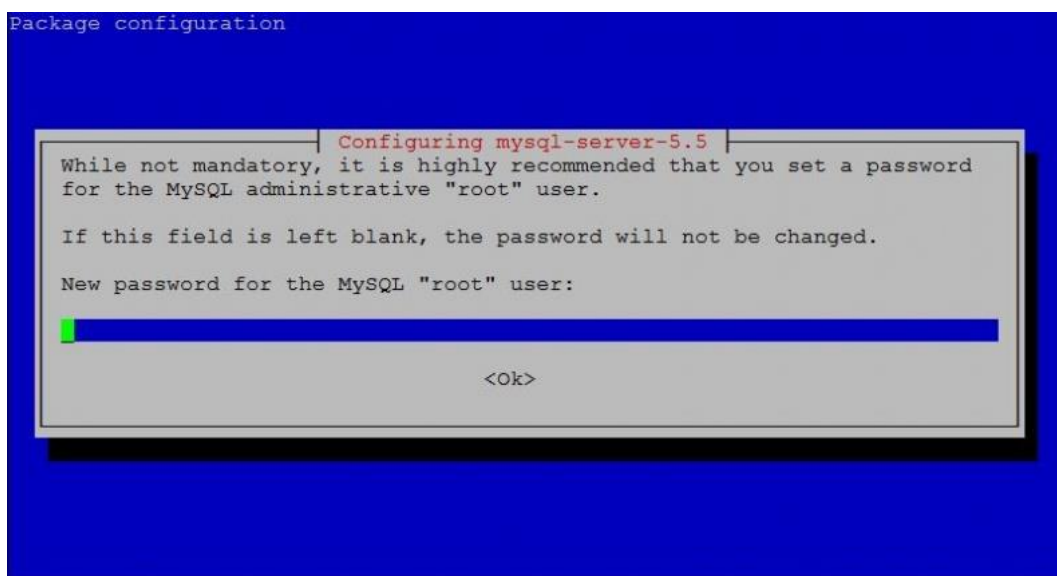
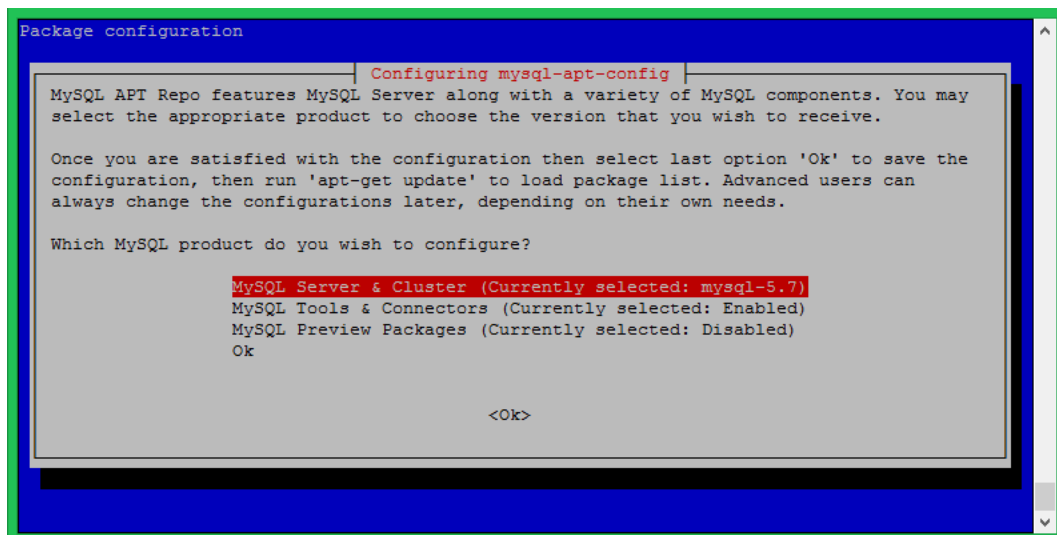
En este caso, como ya está instalado no hace gran cosa, pero en este proceso debería descargarse e instalarse y posteriormente, configurar un nombre de usuario y contraseña para iniciar MySQL.

```

root@delta:~# apt-get install mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package mysql
root@delta:~#

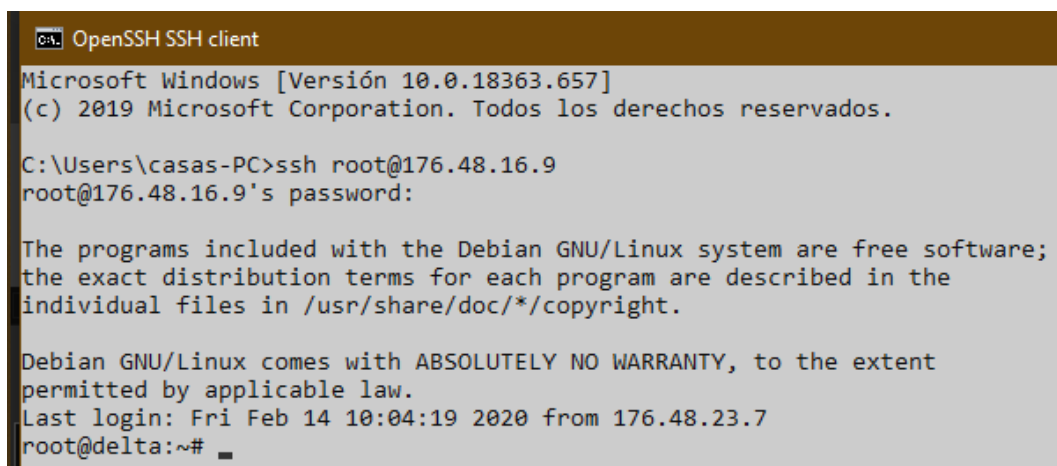
```

Algunas de las ventanas que deberían aparecer son:



Instalación de Apache Derby en Debian 8.

1. Iniciamos nuestro servidor con nuestro usuario y contraseña.



2. Ejecutamos el comando “apt-get update” que se encarga de actualizar los repositorios de donde descarga programas y obtiene actualizaciones.

```
root@delta:~# apt-get update
Get:1 http://security.debian.org jessie/updates InRelease [44.9 kB]
Ign http://ftp.debian.org jessie InRelease
Hit http://ftp.debian.org jessie-updates InRelease
Hit http://ftp.debian.org jessie Release.gpg
Hit http://ftp.debian.org jessie-updates/main amd64 Packages
Get:2 http://security.debian.org jessie/updates/main amd64 Packages [748 kB]
Hit http://ftp.debian.org jessie-updates/contrib amd64 Packages
Hit http://ftp.debian.org jessie-updates/non-free amd64 Packages
Hit http://ftp.debian.org jessie-updates/contrib Translation-en
Hit http://security.debian.org jessie/updates/contrib amd64 Packages
Hit http://security.debian.org jessie/updates/non-free amd64 Packages
Hit http://security.debian.org jessie/updates/contrib Translation-en
Hit http://security.debian.org jessie/updates/main Translation-en
Hit http://security.debian.org jessie/updates/non-free Translation-en
Hit http://ftp.debian.org jessie-updates/main Translation-en
Hit http://ftp.debian.org jessie-updates/non-free Translation-en
Hit http://ftp.debian.org jessie Release
Hit http://ftp.debian.org jessie/main amd64 Packages
Hit http://ftp.debian.org jessie/contrib amd64 Packages
Hit http://ftp.debian.org jessie/non-free amd64 Packages
Hit http://ftp.debian.org jessie/contrib Translation-en
Hit http://ftp.debian.org jessie/main Translation-en
Hit http://ftp.debian.org jessie/non-free Translation-en
Fetched 793 kB in 3s (202 kB/s)
Reading package lists... Done
root@delta:~#
```

3. Para probar la conexión de Apache Derby requeriremos de JVM (Máquina Virtual de Java), por ello deberemos tener ambos instalados, entonces, una vez terminada la actualización de los repositorios ejecutamos el siguiente comando “apt-get install default-jdk”.

```
root@delta:~# apt-get install default-jdk
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  ca-certificates-java default-jre default-jre-headless hicolor-icon-theme java-common libasound2 libasound2-data libasound2-plugins libatk-wrapper-java
  libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libcairo2 libdatrie1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libdrm2 libelf1 libflac8 libgdk-pixbuf2.0-0
  libgdk-pixbuf2.0-common libgif4 libgl1-mesa-dri libgl1-mesa-glx libglapi-mesa libgraphite2-3 libgtk2.0-0 libgtk2.0-bin libgtk2.0-common libharfbuzz0b libice-dev
  libice6 libjasper1 libjbig0 libjpeg2-turbo liblcms2-2 liblvm3.5 libnspr4 libnss3 libogg0 libpango-1.0-0 libpangocairo-1.0-0 libpangoft2-1.0-0 libpciaccess0
  libpccsclite1 libpixman-1-0 libpthread-stubs0-dev libpulse0 libscpt1 libsm-dev libsm6 libsndfile1 libthai-data libthai0 libtiff5 libtnc-dxt0 libvorbis0a
  libvorbisenc2 libx11-6 libx11-data libx11-dev libx11-doc libx11-xcb1 libxau-dev libxau6 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-render0
  libxcb-shm0 libxcb-sync1 libxcb1 libxcbl-dev libxcomposite1 libxcursor1 libxdamage1 libxdmcp-dev libxdmcp6 libxext6 libxfixes3 libxi6 libxinerama1 libxrandr2
  libxrender1 libxshmfence1 libxt-dev libxt6 libxtst6 libxxf86vm1 lksctp-tools openjdk-7-jdk openjdk-7-jre openjdk-7-jre-headless shared-mime-info tzdata-java
  x11-common x11proto-core-dev x11proto-input-dev x11proto-kb-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  equivo libasound2-plugins alsa-utils librsync2-common gvfs libice-doc libjasper-runtime liblcms2-utils pciutils pscd pulseaudio libsm-doc libxcb-doc libxt-doc
  openjdk-7-demo openjdk-7-source visualvm icedtea-7-plugin icedtea-7-jre-jamvm libnss-mdns sun-java6-fonts fonts-ipafont-gothic fonts-ipafont-mincho
  fonts-wqy-microhei fonts-wqy-zenhei fonts-indic
The following NEW packages will be installed:
  ca-certificates-java default-jdk default-jre default-jre-headless hicolor-icon-theme java-common libasound2 libasound2-data libasound2-plugins libatk-wrapper-java
  libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libcairo2 libdatrie1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libdrm2 libelf1 libflac8 libgdk-pixbuf2.0-0
  libgdk-pixbuf2.0-common libgif4 libgl1-mesa-dri libgl1-mesa-glx libglapi-mesa libgraphite2-3 libgtk2.0-0 libgtk2.0-bin libgtk2.0-common libharfbuzz0b libice-dev
  libice6 libjasper1 libjbig0 libjpeg2-turbo liblcms2-2 liblvm3.5 libnspr4 libnss3 libogg0 libpango-1.0-0 libpangocairo-1.0-0 libpangoft2-1.0-0 libpciaccess0
  libpccsclite1 libpixman-1-0 libpthread-stubs0-dev libpulse0 libscpt1 libsm-dev libsm6 libsndfile1 libthai-data libthai0 libtiff5 libtnc-dxt0 libvorbis0a
  libvorbisenc2 libx11-6 libx11-data libx11-dev libx11-doc libx11-xcb1 libxau-dev libxau6 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-render0
  libxcb-shm0 libxcb-sync1 libxcb1 libxcbl-dev libxcomposite1 libxcursor1 libxdamage1 libxdmcp-dev libxdmcp6 libxext6 libxfixes3 libxi6 libxinerama1 libxrandr2
  libxrender1 libxshmfence1 libxt-dev libxt6 libxtst6 libxxf86vm1 lksctp-tools openjdk-7-jdk openjdk-7-jre openjdk-7-jre-headless shared-mime-info tzdata-java
  x11-common x11proto-core-dev x11proto-input-dev x11proto-kb-dev xorg-sgml-doctools xtrans-dev
0 upgraded, 104 newly installed, 0 to remove and 1 not upgraded.
Need to get 89.3 MB of archives.
After this operation, 208 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

4. Nos preguntara si deseamos continuar, decimos que sí y comenzara la descarga e instalación del JDK.


```
OpenSSH SSH client
Do you want to continue? [Y/n] y
Get:1 http://security.debian.org/ jessie/updates/main libpixmap-1-0 amd64 0.32.6-3+deb8u1 [506 kB]
Get:2 http://ftp.debian.org/debian/ jessie/main libasound2-data all 1.0.28-1 [64.8 kB]
Get:3 http://security.debian.org/ jessie/updates/main libxdmcp6 amd64 1:1.1.1-1+deb8u1 [24.7 kB]
Get:4 http://security.debian.org/ jessie/updates/main libx11-data all 2:1.6.2-3+deb8u2 [126 kB]
Get:5 http://security.debian.org/ jessie/updates/main libx11-6 amd64 2:1.6.2-3+deb8u2 [729 kB]
Get:6 http://security.debian.org/ jessie/updates/main libjpeg62-turbo amd64 1:1.3.1-12+deb8u2 [117 kB]
Get:7 http://security.debian.org/ jessie/updates/main libjasper1 amd64 1.900-1-debian1-2.4+deb8u6 [135 kB]
Get:8 http://ftp.debian.org/debian/ jessie/main libasound2 amd64 1.0.28-1 [374 kB]
Get:9 http://security.debian.org/ jessie/updates/main libtiff5 amd64 4.0.3-12.3+deb8u10 [223 kB]
Get:10 http://security.debian.org/ jessie/updates/main libgdk-pixbuf2.0-common all 2.31.1-2+deb8u9 [295 kB]
Get:11 http://security.debian.org/ jessie/updates/main libgdk-pixbuf2.0-0 amd64 2.31.1-2+deb8u9 [168 kB]
Get:12 http://security.debian.org/ jessie/updates/main libharfbuzz0b amd64 0.9.35-2+deb8u1 [486 kB]
Get:13 http://security.debian.org/ jessie/updates/main libxcursor1 amd64 1:1.1.14-1+deb8u2 [35.1 kB]
Get:14 http://security.debian.org/ jessie/updates/main libelf1 amd64 0.159-4.2+deb8u1 [160 kB]
Get:15 http://security.debian.org/ jessie/updates/main libgl1-mesa-dri amd64 10.3.2-1+deb8u2 [3384 kB]
Get:16 http://ftp.debian.org/debian/ jessie/main libasynccs0 amd64 0.8-5 [12.5 kB]
Get:17 http://security.debian.org/ jessie/updates/main libglapi-mesa amd64 10.3.2-1+deb8u2 [53.9 kB]
Get:18 http://security.debian.org/ jessie/updates/main libx11-xcb1 amd64 2:1.6.2-3+deb8u2 [163 kB]
Get:19 http://security.debian.org/ jessie/updates/main libgl1-mesa-glx amd64 10.3.2-1+deb8u2 [181 kB]
Get:20 http://ftp.debian.org/debian/ jessie/main libatk1.0-data all 2.14.0-1 [181 kB]
Get:21 http://security.debian.org/ jessie/updates/main libice6 amd64 2:1.0.9-1+deb8u1 [58.8 kB]
Get:22 http://security.debian.org/ jessie/updates/main liblcms2-2 amd64 2.6-3+deb8u2 [142 kB]
Get:23 http://security.debian.org/ jessie/updates/main libnss3 amd64 2:3.26-1+deb8u10 [1175 kB]
Get:24 http://ftp.debian.org/debian/ jessie/main libatk1.0-0 amd64 2.14.0-1 [92.0 kB]
Get:25 http://security.debian.org/ jessie/updates/main libvorbis0a amd64 1.3.4-2+deb8u3 [92.8 kB]
Get:26 http://security.debian.org/ jessie/updates/main libvorbisenc2 amd64 1.3.4-2+deb8u3 [78.3 kB]
Get:27 http://security.debian.org/ jessie/updates/main libsndfile1 amd64 1.0.25-9.1+deb8u4 [216 kB]
Get:28 http://security.debian.org/ jessie/updates/main tzdata-java all 2019c-0+deb8u1 [81.6 kB]
Get:29 http://security.debian.org/ jessie/updates/main openjdk-7-jre-headless amd64 7u241-2.6.20-1~deb8u1 [40.2 MB]
Get:30 http://ftp.debian.org/debian/ jessie/main libxau6 amd64 1:1.0.8-1 [20.7 kB]
Get:31 http://ftp.debian.org/debian/ jessie/main libxcb1 amd64 1.10-3+b1 [44.4 kB]
Get:32 http://ftp.debian.org/debian/ jessie/main libxcb-render0 amd64 1.10-3+b1 [17.5 kB]
Get:33 http://ftp.debian.org/debian/ jessie/main libxcb-shm0 amd64 1.10-3+b1 [11.5 kB]
Get:34 http://ftp.debian.org/debian/ jessie/main libxext6 amd64 2:1.3.3-1 [52.7 kB]
Get:35 http://ftp.debian.org/debian/ jessie/main libxrender1 amd64 1:0.9.8-1+b1 [31.4 kB]
Get:36 http://ftp.debian.org/debian/ jessie/main libcairo2 amd64 1.14.0-2.1+deb8u2 [742 kB]
Get:37 http://ftp.debian.org/debian/ jessie/main libjbig0 amd64 2.1-3.1 [30.7 kB]
Get:38 http://security.debian.org/ jessie/updates/main libgtk2.0-common all 2.24.25-3+deb8u2 [3137 kB]
Get:39 http://security.debian.org/ jessie/updates/main openjdk-7-jre amd64 7u241-2.6.20-1~deb8u1 [177 kB]
Get:40 http://security.debian.org/ jessie/updates/main openjdk-7-jdk amd64 7u241-2.6.20-1~deb8u1 [16.0 MB]
Get:41 http://security.debian.org/ jessie/updates/main libice-dev amd64 2:1.0.9-1+deb8u1 [66.2 kB]
Get:42 http://security.debian.org/ jessie/updates/main libxdmcp-dev amd64 1:1.1.1-1+deb8u1 [40.0 kB]
Get:43 http://security.debian.org/ jessie/updates/main libx11-dev amd64 2:1.6.2-3+deb8u2 [800 kB]
Get:44 http://security.debian.org/ jessie/updates/main libx11-doc all 2:1.6.2-3+deb8u2 [2716 kB]
```

5. Despues de muchos procesos de descarga, instalacion y confuguracion retomamos el control sobre Debian.

```
Seleccionar OpenSSH SSH client
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/jre/bin/servertool to provide /usr/bin/servertool (servertool) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/jre/bin/tnameserv to provide /usr/bin/tnameserv (tnameserv) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/jre/bin/jexec to provide /usr/bin/jexec (jexec) in auto mode
Setting up openjdk-7-jre:amd64 (7u241-2.6.20-1~deb8u1) ...
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/jre/bin/policytool to provide /usr/bin/policytool (policytool) in auto mode
Setting up default-jre (2:1.7-52) ...
Setting up openjdk-7-jdk:amd64 (7u241-2.6.20-1~deb8u1) ...
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/ldlj to provide /usr/bin/ldlj (ldlj) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/wsimport to provide /usr/bin/wsimport (wsimport) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/rmic to provide /usr/bin/rmic (rmic) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jinfo to provide /usr/bin/jinfo (jinfo) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jsadebugd to provide /usr/bin/jsadebugd (jsadebugd) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/native2ascii to provide /usr/bin/native2ascii (native2ascii) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jstat to provide /usr/bin/jstat (jstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/javadoc to provide /usr/bin/javadoc (javadoc) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/javah to provide /usr/bin/javah (javah) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jps to provide /usr/bin/jps (jps) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jstack to provide /usr/bin/jstack (jstack) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jrunscript to provide /usr/bin/jrunscript (jrunscript) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/javac to provide /usr/bin/javac (javac) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/javap to provide /usr/bin/javap (javap) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jconsole to provide /usr/bin/jconsole (jconsole) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jar to provide /usr/bin/jar (jar) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/extcheck to provide /usr/bin/extcheck (extcheck) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/schemagen to provide /usr/bin/schemagen (schemagen) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/xjc to provide /usr/bin/xjc (xjc) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jmap to provide /usr/bin/jmap (jmap) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/appletviewer to provide /usr/bin/appletviewer (appletviewer) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jstatd to provide /usr/bin/jstatd (jstatd) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jhat to provide /usr/bin/jhat (jhat) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jdb to provide /usr/bin/jdb (jdb) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/serialver to provide /usr/bin/serialver (serialver) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/wsgen to provide /usr/bin/wsgen (wsgen) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jcnd to provide /usr/bin/jcnd (jcnd) in auto mode
update-alternatives: using /usr/lib/jvm/java-7-openjdk-amd64/bin/jarsigner to provide /usr/bin/jarsigner (jarsigner) in auto mode
Setting up default-jdk (2:1.7-52) ...
Processing triggers for libc-bin (2.19-18+deb8u10) ...
Processing triggers for systemd (215-17+deb8u13) ...
Processing triggers for ca-certificates (20141019+deb8u4) ...
Updating certificates in /etc/ssl/certs... 0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d....
done.
done.
root@delta:~#
```

6. Para instalar Apache Derby ejecutamos “wget <http://tux.rainside.sk/apache/db/derby/db-derby-10.13.1.1/db-derby-10.13.1.1-bin.zip>”

```
C:\Windows\system32\cmd.exe
root@delta:~# wget http://tux.rainside.sk/apache/db/derby/db-derby-10.13.1.1/db-derby-10.13.1.1-bin.zip
converted 'http://tux.rainside.sk/apache/db/derby/db-derby-10.13.1.1/db-derby-10.13.1.1-bin.zip' (ANSI_X3.4-1968) -> 'http://tux.rainside.sk/apache/db/derby/db-derby-10.13.1.1/db-derby-10.13.1.1-bin.zip' (UTF-8)
--2020-02-14 11:19:22-- http://tux.rainside.sk/apache/db/derby/db-derby-10.13.1.1/db-derby-10.13.1.1-bin.zip
Resolving tux.rainside.sk (tux.rainside.sk)... 212.89.225.155
Connecting to tux.rainside.sk (tux.rainside.sk)[212.89.225.155]:80... connected.
HTTP request sent, awaiting response... 404 Not Found
2020-02-14 11:19:22 ERROR 404: Not Found.

root@delta:~# apt-get install oracle-java9-installer
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package oracle-java9-installer
root@delta:~# java -version
java version "1.7.0_241"
OpenJDK Runtime Environment (IcedTea 2.6.20) (7u241-b01-deb0u1)
OpenJDK 64-Bit Server VM (build 24.241-b01, mixed mode)
root@delta:~# apt-get install oracle-java8-installer
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package oracle-java8-installer
root@delta:~# apt-get install derby
E: Invalid operation derby
root@delta:~# apt-get install apache_derby
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package apache_derby
root@delta:~# Connection reset by 176.48.16.9 port 22

C:\Users\casas-PC>
```

Sobra mencionar que no funciona, así que probé con otros comandos, pero no hubo resultados favorables.

7. En base a otro tutorial, debemos instalar el JDK 8, para ello hay que realizar los siguientes comandos:

- su -
- echo "deb http://ppa.launchpad.net/webupd8team/java/ubuntu xenial main" | tee /etc/apt/sources.list.d/webupd8team-java.list
- echo "deb-src http://ppa.launchpad.net/webupd8team/java/ubuntu xenial main" | tee -a /etc/apt/sources.list.d/webupd8team-java.list
- apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys EEA14886
- apt-get update
- apt-get install oracle-java8-installer
- exit

```
OpenSSH SSH client
root@delta:~# su -
root@delta:~# echo "deb http://ppa.launchpad.net/webupd8team/java/ubuntu xenial main" | tee /etc/apt/sources.list.d/webupd8team-java.list
deb http://ppa.launchpad.net/webupd8team/java/ubuntu xenial main
root@delta:~# echo "deb-src http://ppa.launchpad.net/webupd8team/java/ubuntu xenial main" | tee -a /etc/apt/sources.list.d/webupd8team-java.list
deb-src http://ppa.launchpad.net/webupd8team/java/ubuntu xenial main
root@delta:~# apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys EEA14886
Executing gpg --ignore-time-conflict --no-options --no-default-keyring --homedir /tmp/tmp.VfMA9CQH5D --no-auto-check-trustdb --trust-model always --keyring /etc/apt/trusted.gpg --keyring /etc/apt/trusted.gpg.d/debian-archive-jessie-automatic.gpg --keyring /etc/apt/trusted.gpg.d/debian-archive-jessie-security-automatic.gpg --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-automatic.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 --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys EEA14886
gpg: requesting key EEA14886 from hkp server keyserver.ubuntu.com
gpg: key EEA14886: public key "Totally Legit Signing Key <mallory@example.org>" imported
gpg: Total number processed: 1
gpg:      imported: 1 (RSA: 1)
root@delta:~# apt-get update
Get:1 http://ppa.launchpad.net/xenial InRelease [17.6 kB]
Ign http://ftp.debian.org/jessie InRelease
Hit http://security.debian.org/jessie/updates InRelease
Ign http://ppa.launchpad.net/xenial InRelease
Hit http://ftp.debian.org/jessie InRelease
Hit http://security.debian.org/jessie/updates/main amd64 Packages
Hit http://ftp.debian.org/jessie Release.gpg
Hit http://security.debian.org/jessie/updates/contrib amd64 Packages
Hit http://security.debian.org/jessie/updates/non-free amd64 Packages
Hit http://ftp.debian.org/jessie/updates/main amd64 Packages
Hit http://security.debian.org/jessie/updates/contrib Translation-en
Hit http://security.debian.org/jessie/updates/main Translation-en
Hit http://security.debian.org/jessie/updates/non-free Translation-en
Hit http://ftp.debian.org/jessie/updates/contrib amd64 Packages
Hit http://ftp.debian.org/jessie/updates/non-free amd64 Packages
Hit http://ftp.debian.org/jessie/updates/contrib Translation-en
Hit http://ftp.debian.org/jessie/updates/main Translation-en
Hit http://ftp.debian.org/jessie/updates/non-free Translation-en
Get:2 http://ppa.launchpad.net/xenial/main Sources [32 B]
Hit http://ftp.debian.org/jessie Release
Hit http://ftp.debian.org/jessie/main amd64 Packages
Get:3 http://ppa.launchpad.net/xenial/main amd64 Packages [32 B]
Hit http://ftp.debian.org/jessie/contrib amd64 Packages
Get:4 http://ppa.launchpad.net/xenial/main Translation-en [32 B]
Hit http://ftp.debian.org/jessie/non-free amd64 Packages
Hit http://ftp.debian.org/jessie/contrib Translation-en
Hit http://ftp.debian.org/jessie/main Translation-en
Hit http://ftp.debian.org/jessie/non-free Translation-en
```

```
OpenSSH SSH client
Fetchd 17.7 kB in 3s (4836 B/s)
Reading package lists... Done
W: GPG error: http://ppa.launchpad.net xenial InRelease: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY C2518248EEA14886
root@delta:~# apt-get install oracle-java8-installer
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package oracle-java8-installer
root@delta:~#
```

Y nuevamente no funciona, volví a probar con varios comandos, pero no logre nada.

Resultados.

Instalación de MySQL en Debian.

- Probamos que todo se haya realizado correctamente iniciando MySQL con el usuario y contraseña creado.

```
root@delta:~# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 43
Server version: 5.5.62-0+deb8u1 (Debian)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

Instalación de Apache Derby en Debian 8.

Bueno, creo que en las imágenes antes mostradas se pueden dar cuenta de que ninguno de los comandos funciona, entonces, la instalación de Apache Derby fue un total fracaso



Conclusión.

Durante la instalación de MySQL no se presentó ningún problema, de hecho, todo funciono perfectamente a la primera, por ende, yo creí que en el caso de Apache Derby seria, relativamente, igual de sencillo, pero oh sorpresa, desde un comienzo no funcionaban los comandos.

Primero me pedía instalar el JDK para que Derby pudiera funcionar, probé algunos comandos y no funcionaron.

Cuando por fin pude encontrar un comando que instalara una versión estándar del JDK y me disponía a instalar Derby, los comandos tampoco funcionaban, estuve buscando varias formas de hacerlo, pero no logre nada.

Busque tutoriales de cómo hacerlo, pero la mayoría de ellos eran en un entorno gráfico, y en uno en el que la instalación se realizaba desde la terminal instalaba una versión llamada “Apache2” (no sé si sea exactamente el mismo, busque, pero no encontré nada).

Al final, casi todos los comandos que probaba con la esperanza de que alguno funcionara me indicaban el error “Unable to locate package ...”, lo que literalmente se traduce como “No se puede encontrar el paquete ...”.

Tal vez diría que fue por que no indague lo suficiente, pero estuve investigando y tratando con varios comandos por aproximadamente 4 o 5 horas, incluso le pregunte a otras personas que ya tenían mas conocimientos sobre el tema y me facilitaban comandos que ya había probado y no funcionaban.

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