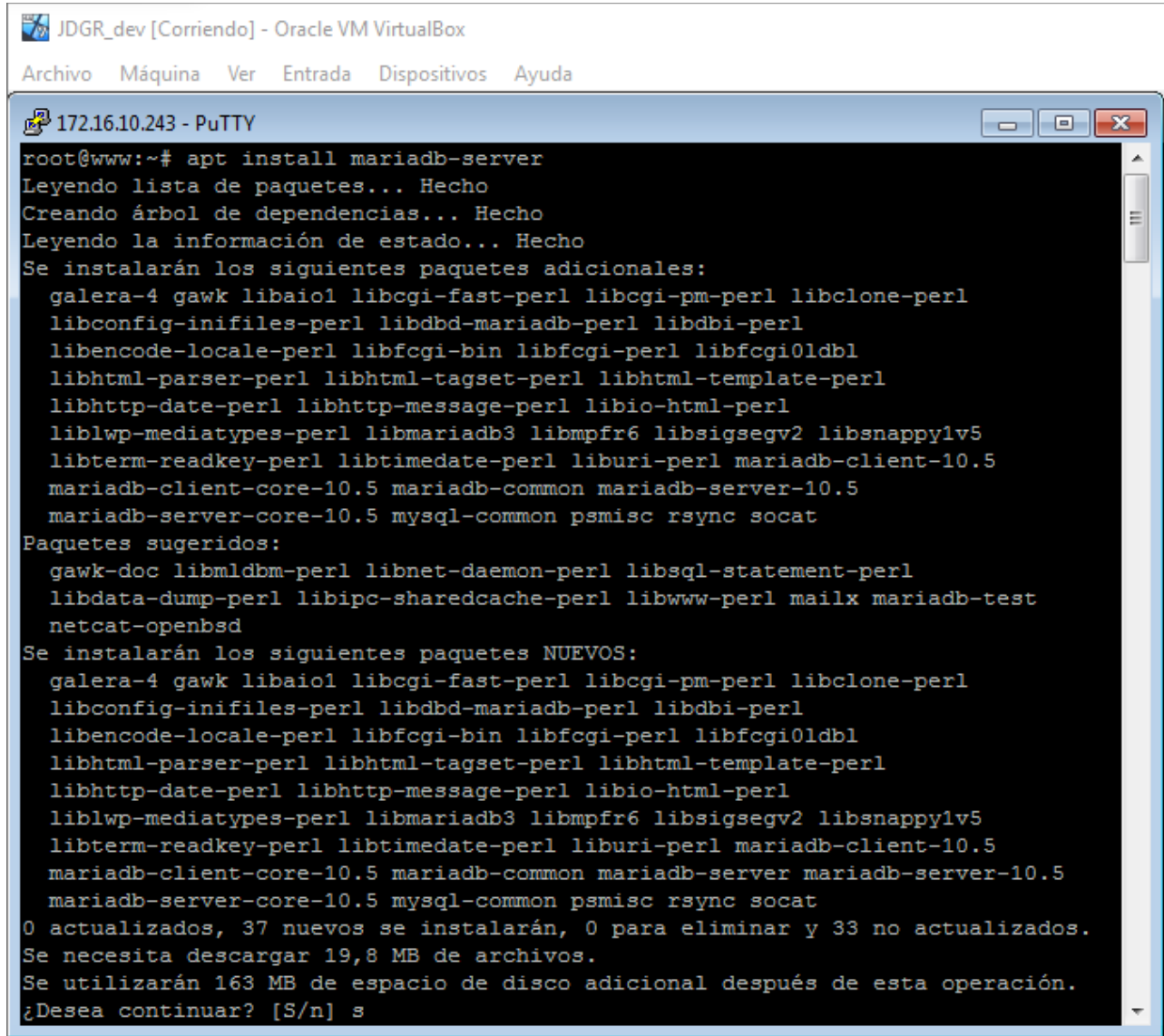


1.-



```
JDGR_dev [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

172.16.10.243 - PuTTY
root@www:~# apt install mariadb-server
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Se instalarán los siguientes paquetes adicionales:
 galera-4 gawk libaio1 libcgi-fast-perl libcgi-pm-perl libclone-perl
 libconfig-inifiles-perl libdbd-mariadb-perl libdbi-perl
 libencode-locale-perl libfcgi-bin libfcgi-perl libfcgi0ldbl
 libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl
 libhttp-date-perl libhttp-message-perl libio-html-perl
 liblwp-mediatypes-perl libmariadb3 libmpfr6 libsigsegv2 libsnappy1v5
 libterm-readkey-perl libtimedate-perl liburi-perl mariadb-client-10.5
 mariadb-client-core-10.5 mariadb-common mariadb-server-10.5
 mariadb-server-core-10.5 mysql-common psmisc rsync socat
Paquetes sugeridos:
 gawk-doc libmldbm-perl libnet-daemon-perl libsql-statement-perl
 libdata-dump-perl libipc-sharedcache-perl libwww-perl mailx mariadb-test
 netcat-openbsd
Se instalarán los siguientes paquetes NUEVOS:
 galera-4 gawk libaio1 libcgi-fast-perl libcgi-pm-perl libclone-perl
 libconfig-inifiles-perl libdbd-mariadb-perl libdbi-perl
 libencode-locale-perl libfcgi-bin libfcgi-perl libfcgi0ldbl
 libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl
 libhttp-date-perl libhttp-message-perl libio-html-perl
 liblwp-mediatypes-perl libmariadb3 libmpfr6 libsigsegv2 libsnappy1v5
 libterm-readkey-perl libtimedate-perl liburi-perl mariadb-client-10.5
 mariadb-client-core-10.5 mariadb-common mariadb-server mariadb-server-10.5
 mariadb-server-core-10.5 mysql-common psmisc rsync socat
0 actualizados, 37 nuevos se instalarán, 0 para eliminar y 33 no actualizados.
Se necesita descargar 19,8 MB de archivos.
Se utilizarán 163 MB de espacio de disco adicional después de esta operación.
¿Desea continuar? [S/n] s
```

2.-

JDGR\_dev [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

172.16.10.243 - PuTTY

```
root@www:~# mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
      SERVERS IN PRODUCTION USE!  PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
haven't set the root password yet, you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password or using the unix_socket ensures that nobody
can log into the MariaDB root user without the proper authorisation.

You already have your root account protected, so you can safely answer 'n'.

Switch to unix_socket authentication [Y/n] y
Enabled successfully!
Reloading privilege tables..
... Success!

You already have your root account protected, so you can safely answer 'n'.

Change the root password? [Y/n] n
... skipping.
```

3.-

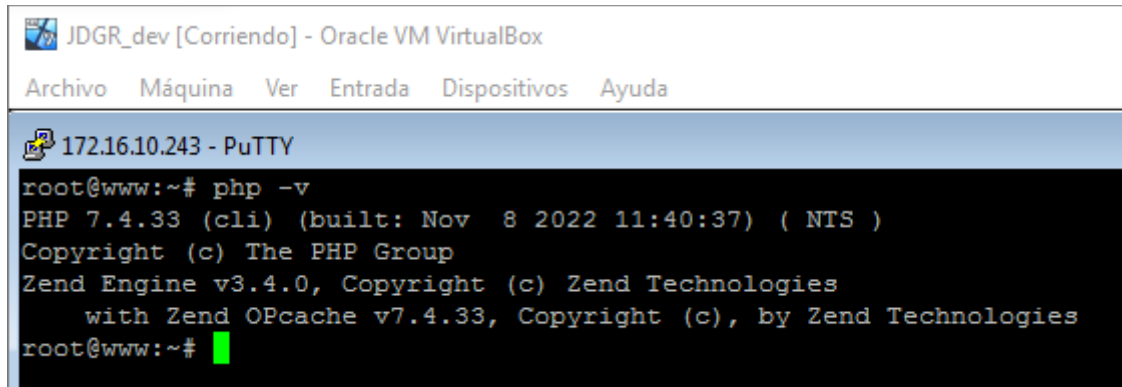
JDGR\_dev [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

172.16.10.243 - PuTTY

```
root@www:~# apt install php libapache2-mod-php php-mysql
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Se instalarán los siguientes paquetes adicionales:
  libapache2-mod-php7.4 libsodium23 php-common php7.4 php7.4-cli php7.4-common
  php7.4-json php7.4-mysql php7.4-opcache php7.4-readline
Paquetes sugeridos:
  php-pear
Se instalarán los siguientes paquetes NUEVOS:
  libapache2-mod-php libapache2-mod-php7.4 libsodium23 php php-common
  php-mysql php7.4 php7.4-cli php7.4-common php7.4-json php7.4-mysql
  php7.4-opcache php7.4-readline
0 actualizados, 13 nuevos se instalarán, 0 para eliminar y 33 no actualizados.
Se necesita descargar 4.424 kB de archivos.
Se utilizarán 18,9 MB de espacio de disco adicional después de esta operación.
¿Desea continuar? [S/n] s
Des:1 http://deb.debian.org/debian bullseye/main amd64 php-common all 2:76 [15,6
  kB]
Des:2 http://deb.debian.org/debian bullseye/main amd64 php7.4-common amd64 7.4.3
  3-1+deb11u1 [1.025 kB]
Des:3 http://deb.debian.org/debian bullseye/main amd64 php7.4-json amd64 7.4.33-
  1+deb11u1 [19,3 kB]
```

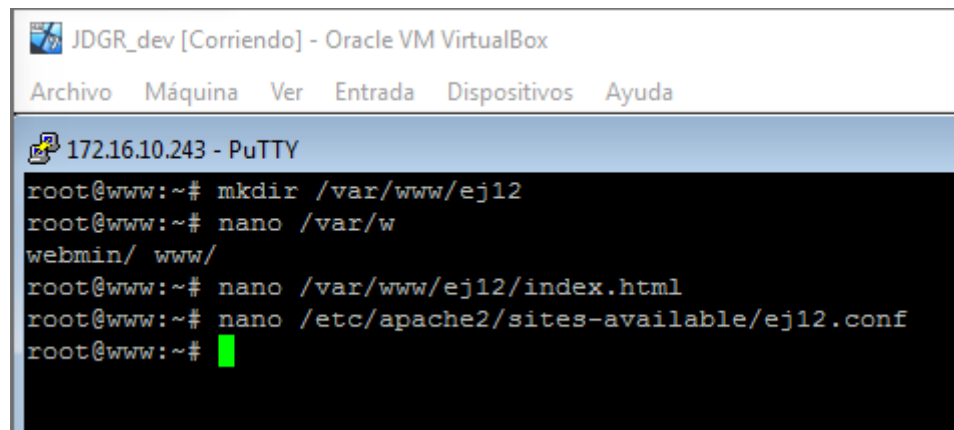
4.-



The screenshot shows a terminal window titled "JDGR\_dev [Corriendo] - Oracle VM VirtualBox". The menu bar includes "Archivo", "Máquina", "Ver", "Entrada", "Dispositivos", and "Ayuda". The terminal session is connected to 172.16.10.243 via PuTTY. The user runs the command `php -v`, which outputs the following information:

```
root@www:~# php -v
PHP 7.4.33 (cli) (built: Nov  8 2022 11:40:37) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
    with Zend OPcache v7.4.33, Copyright (c), by Zend Technologies
root@www:~#
```

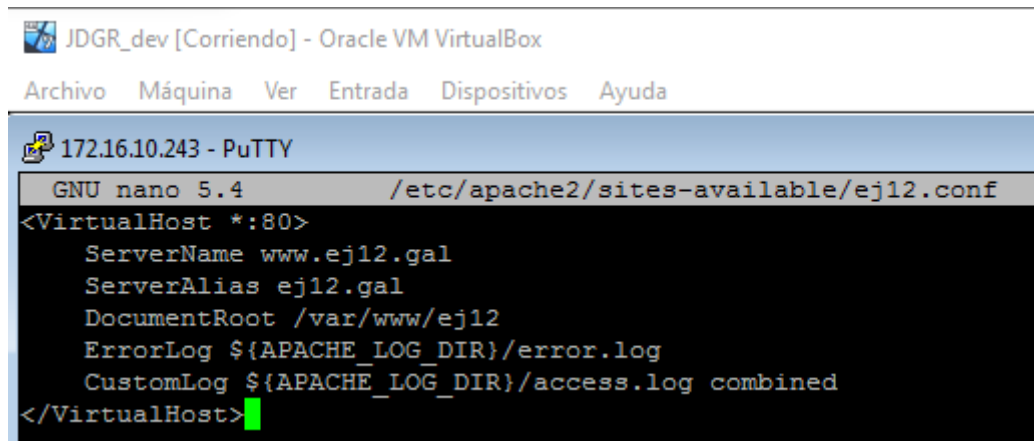
5.-



The screenshot shows a terminal window titled "JDGR\_dev [Corriendo] - Oracle VM VirtualBox". The menu bar includes "Archivo", "Máquina", "Ver", "Entrada", "Dispositivos", and "Ayuda". The terminal session is connected to 172.16.10.243 via PuTTY. The user runs the following commands:

```
root@www:~# mkdir /var/www/ej12
root@www:~# nano /var/w
webmin/ www/
root@www:~# nano /var/www/ej12/index.html
root@www:~# nano /etc/apache2/sites-available/ej12.conf
root@www:~#
```

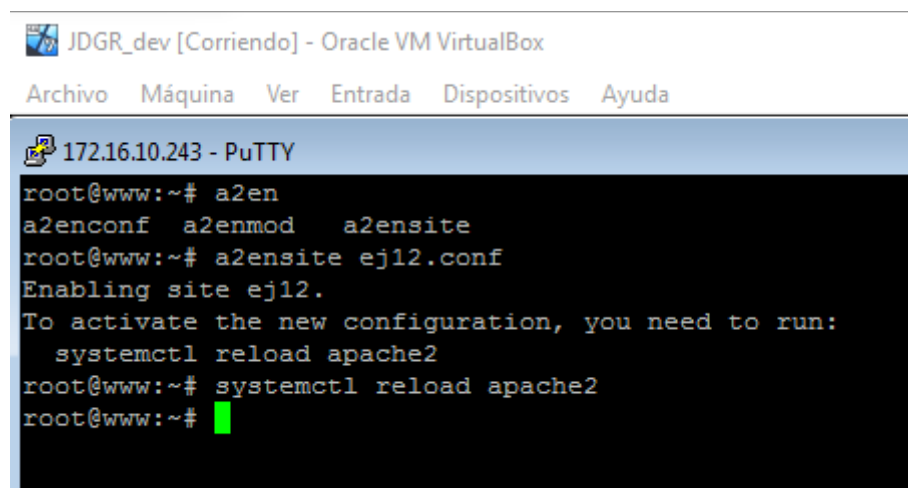
6.-



The screenshot shows a terminal window titled "JDGR\_dev [Corriendo] - Oracle VM VirtualBox". The menu bar includes "Archivo", "Máquina", "Ver", "Entrada", "Dispositivos", and "Ayuda". The terminal session is connected to 172.16.10.243 via PuTTY. The user is editing the file `/etc/apache2/sites-available/ej12.conf` using GNU nano 5.4. The configuration content is as follows:

```
GNU nano 5.4 /etc/apache2/sites-available/ej12.conf
<VirtualHost *:80>
    ServerName www.ej12.gal
    ServerAlias ej12.gal
    DocumentRoot /var/www/ej12
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

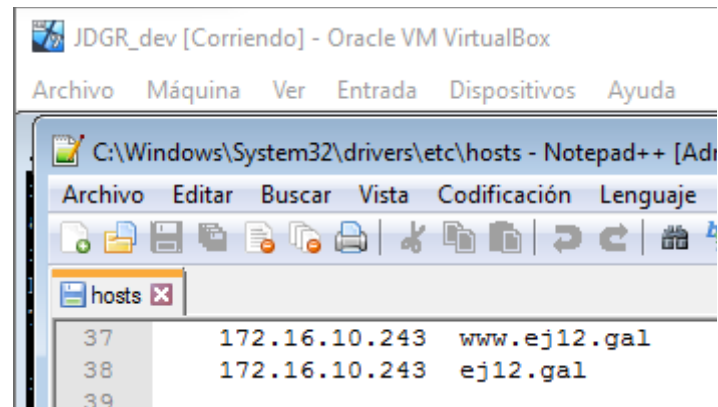
7.-



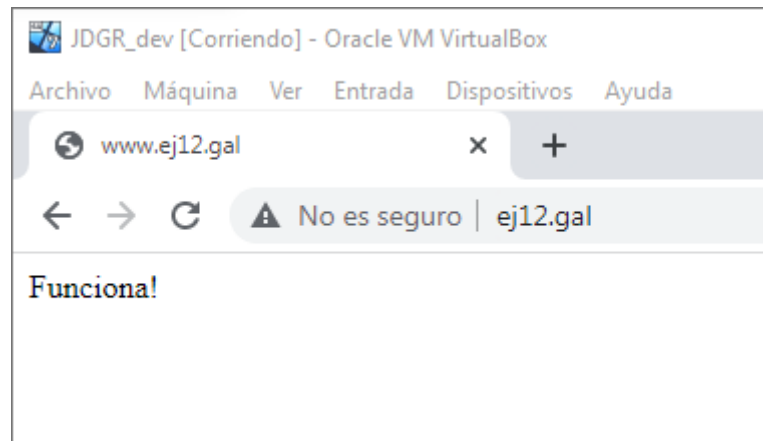
The screenshot shows a terminal window titled "JDGR\_dev [Corriendo] - Oracle VM VirtualBox". The menu bar includes "Archivo", "Máquina", "Ver", "Entrada", "Dispositivos", and "Ayuda". The terminal session is connected to 172.16.10.243 via PuTTY. The user runs the following commands:

```
root@www:~# a2en
a2enconf a2enmod a2ensite
root@www:~# a2ensite ej12.conf
Enabling site ej12.
To activate the new configuration, you need to run:
    systemctl reload apache2
root@www:~# systemctl reload apache2
root@www:~#
```

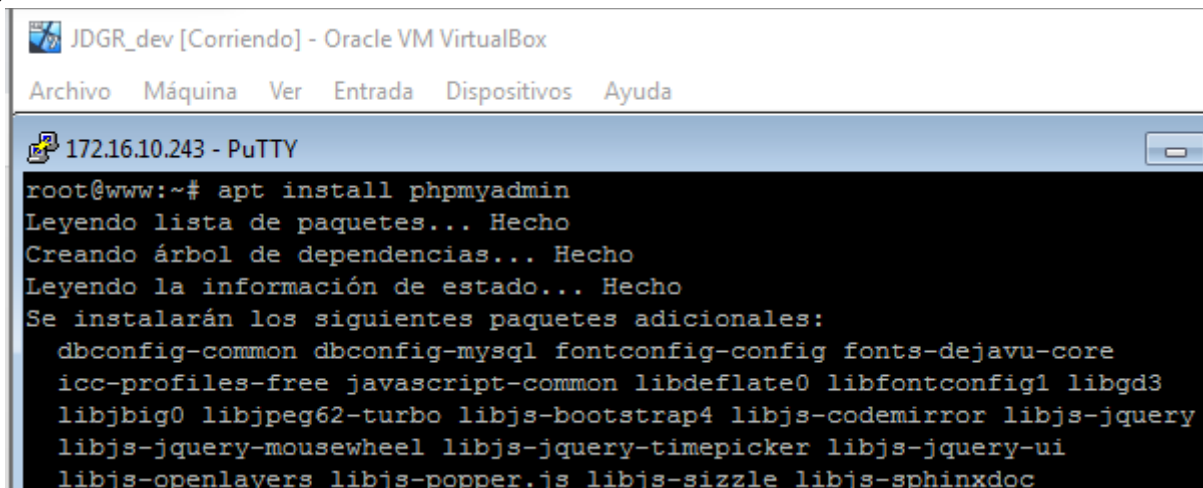
8.-



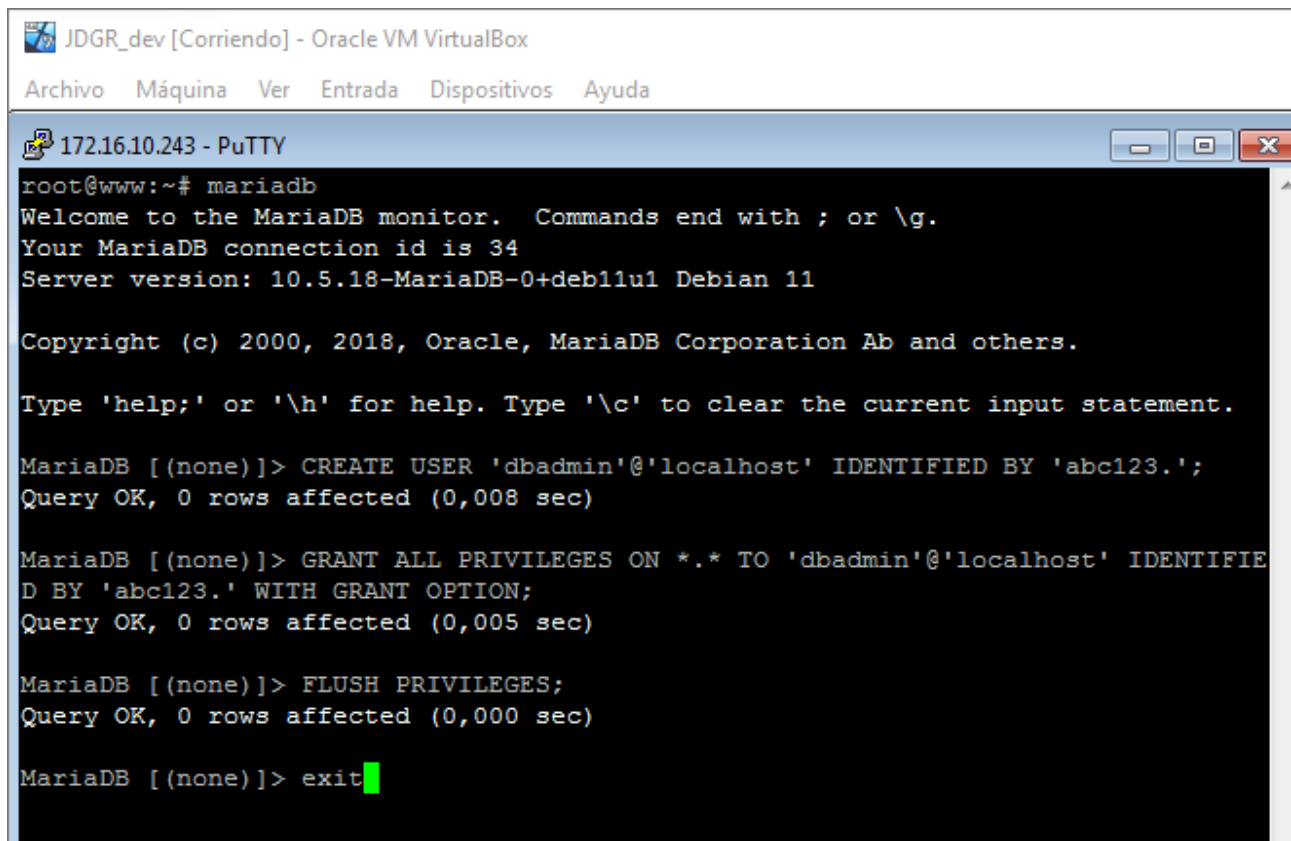
9.-



10.-



11.-



```
JDGR_dev [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

172.16.10.243 - PuTTY
root@www:~# mariadb
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 34
Server version: 10.5.18-MariaDB-0+deb11u1 Debian 11

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

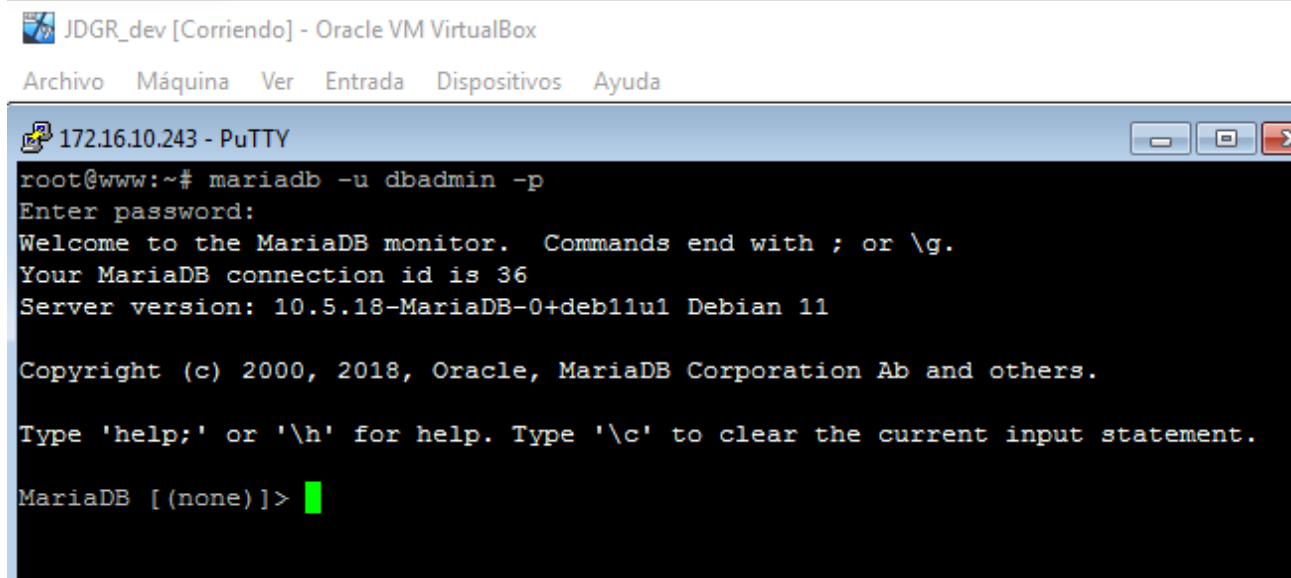
MariaDB [(none)]> CREATE USER 'dbadmin'@'localhost' IDENTIFIED BY 'abc123.';
Query OK, 0 rows affected (0,008 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON *.* TO 'dbadmin'@'localhost' IDENTIFIED BY 'abc123.' WITH GRANT OPTION;
Query OK, 0 rows affected (0,005 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0,000 sec)

MariaDB [(none)]> exit
```

12.-



```
JDGR_dev [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

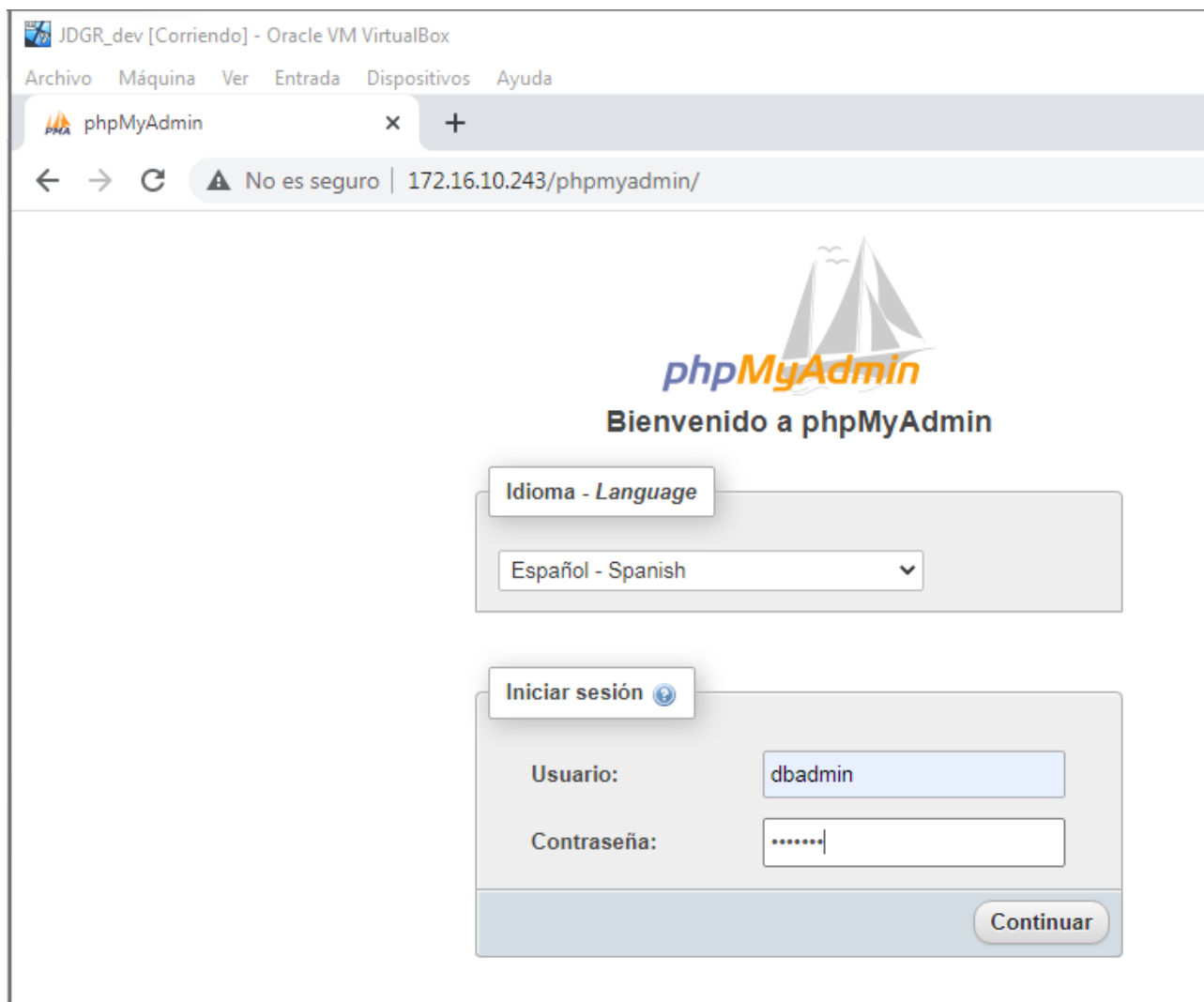
172.16.10.243 - PuTTY
root@www:~# mariadb -u dbadmin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 36
Server version: 10.5.18-MariaDB-0+deb11u1 Debian 11

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]>
```

13.-



14.-

