Actividad UD11- Introducción a Bases de datos

Realiza la instalación de todo el stack tecnológico necesario para el desarrollo de tu sistema de base de datos. NO queremos trabajar en localhost sino que vamos a configurar un SO virtual con todas las herramientas necesarias.

Para ello has de instalar y configurar lo siguiente:

1. VirtualBox (preferible versión 6.1)

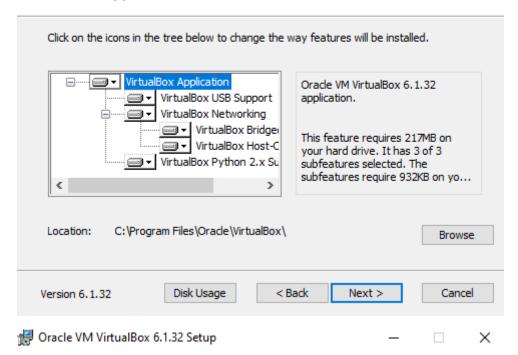
Entro a la página oficial de VirtualBox y descargo el instalador, y posteriormente lo instalo:



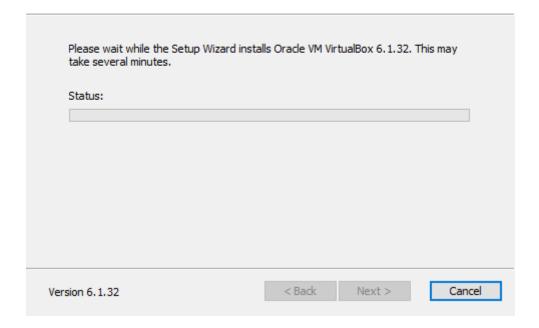


Custom Setup

Select the way you want features to be installed.



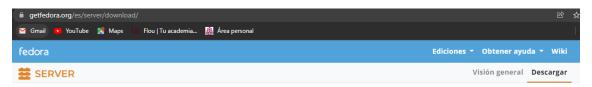
Oracle VM VirtualBox 6.1.32





2. Sistema operativo Fedora Server 33.

Descargo la ISO de su página oficial y posteriormente creo una maquina VirtualBox con esta ISO:



Descargue Fedora 35 Server.



Crear máquina virtual

Nombre y sistema operativo

Seleccione un nombre descriptivo y una carpeta destino para la nueva máquina virtual y seleccione el tipo de sistema operativo que tiene intención de instalar en ella. El nombre que seleccione será usado por VirtualBox para identificar esta máquina.

Nombre:	Fedora Server	
Carpeta de máquina:	lesktop\Fernando\DesarrolloFullStack\MaquinasVirtualb	ox v
Tipo:	Linux ▼	
Versión:	Fedora (32-bit) ▼	

Modo experto	Next	Cancelar	
		?	×

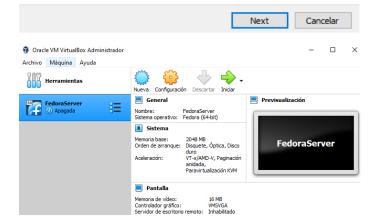
← Crear máquina virtual

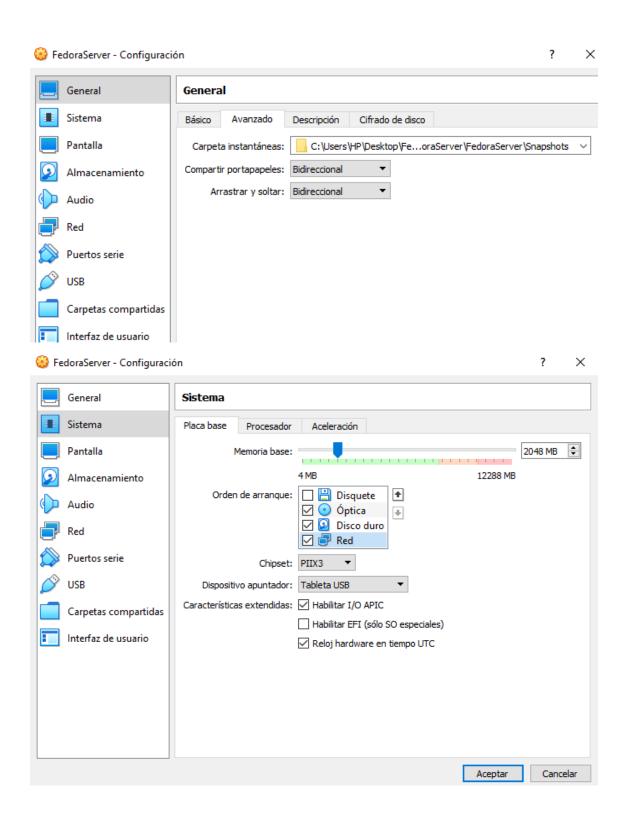
Tamaño de memoria

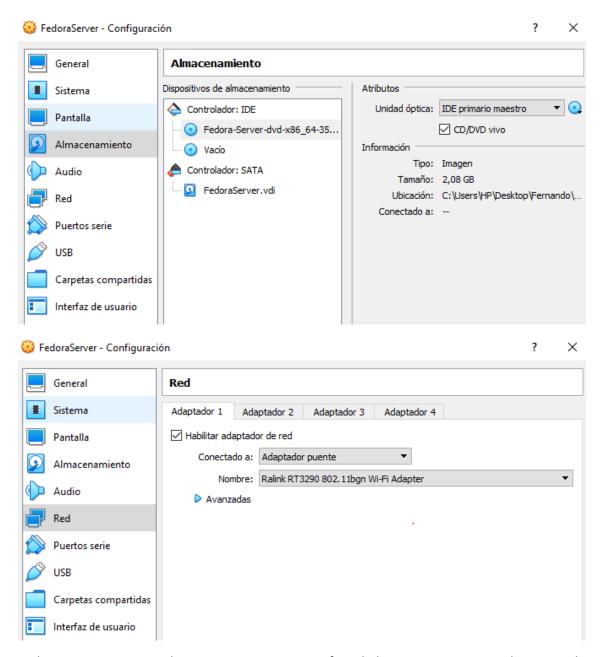
Seleccione la cantidad de memoria (RAM) en megabytes a ser reservada para la máquina virtual.

El tamaño de memoria recomendado es 1024 MB.

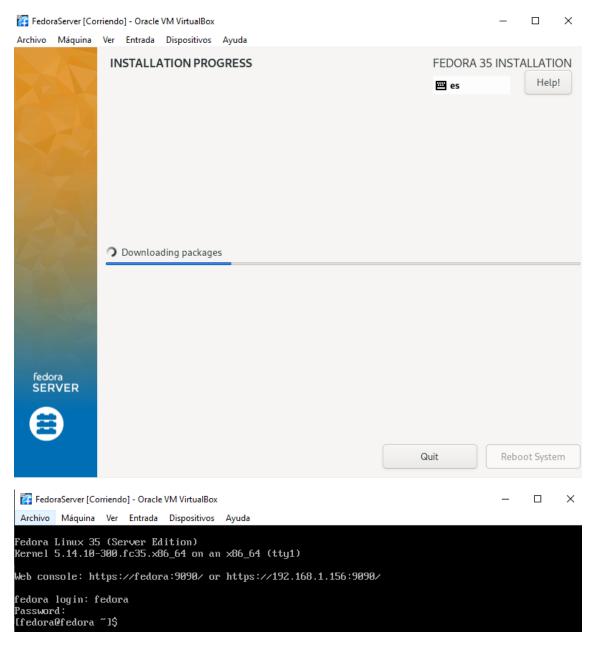








En los anteriores pasos a la siguiente captura especifico el idioma que quiero instalar junto a la distribución de teclado y también creo un usuario administrador y añado una contraseña para el usuario Root.



3. Mysql 8.

En las siguientes capturas muestro la instalación de mysql server para fedora server 35:

Importo repositorio a fedora:

```
[fedora@fedora ~]$ sudo dnf install -y https://dev.mysql.com/get/mysql80-community-release-
fc35-2s.noarch.rpm
Instalo mysql:
```

[fedora@fedora ~]\$ sudo dnf install -y community-mysql-server

Inicio el servicio:

[fedora@fedora ~]\$ sudo systemctl start mysqld

Compruebo que mysql este iniciado:

Activo el servicio automático:

[fedora@fedora ~]\$ sudo systemctl enable mysqld Created symlink /etc/systemd/system/multi-user.target.wants/mysqld.service → /usr/lib/syste md/system/mysqld.service.

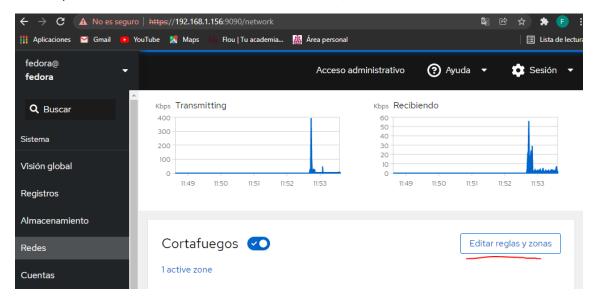
Abro el puerto de comunicaciones:

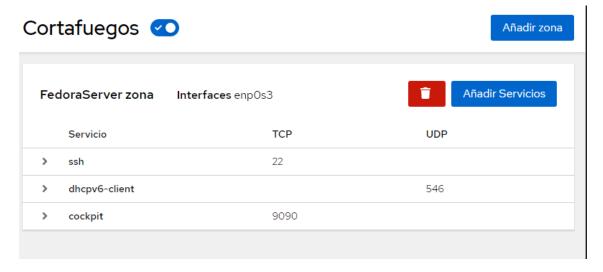
[fedora@fedora ~]\$ firewall-cmd --permanent --zone=public --add-service=mysql success

Reinicio el Firewall:

[fedora@fedora ~]\$ systemctl restart firewalld.service

Abro el puerto 3306 en firewall en 192.168.1.156:9090/network:





Añadir servicios a la FedoraServer zona

Servicios				
Filtrar servicios	3306			
galera TCP: 3306, 456	7, 4568, 4444			
✓ mysql TCP: 3306				
Añadir Servicios	Cancelar			

Obtengo el password generado:

```
[root@fedora fedora]# grep 'A temporary password is generated for root@localhost' /
var/log/mysqld.log
2022-01-31T11:51:35.567262Z 6 [Note] [MY-010454] [Server] A temporary password is g
enerated for root@localhost: ye)hx-/uf5hU
```

Reasigno los permisos de acceso:

```
[root@fedora fedora]# su _
[root@fedora ~]# /usr/bin/mysql_secure_installation
```

```
Securing the MySQL server deployment.
Enter password for user root:
New password:
Re-enter new password:
The 'validate_password' component is installed on the server.
The subsequent steps will run with the existing configuration
of the component.
Using existing password for root.
Estimated strength of the password: 100
Change the password for root ? ((Press y|Y for Yes, any other key for No) : y
New password:
Re-enter new password:
Estimated strength of the password: 100
Do you wish to continue with the password provided?(Press y|Y for Yes, any other ke
y for No) : y
By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL without having to have
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.
Remove anonymous users? (Press y|Y for Yes, any other key for No) : n
... skipping.
Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.
Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n
... skipping.
By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.
```

[root@fedora ~]# /usr/bin/mysql_secure_installation

```
Remove test database and access to it? (Press y|Y for Yes, any other key for No) :

... skipping.
Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.

All done!
[root@fedora ~]#
```

Inicio la sesión root en mysql:

```
[root@fedora ~]# mysql -h localhost -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.0.28 MySQL Community Server - GPL
Copyright (c) 2000, 2022, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> ■
```

Creo el usuario remote:

```
mysql> create user 'remote'@'%' identified with mysql_native_password by 'Fedora_22';
Query OK, 0 rows affected (0.02 sec)
```

Doy privilegios al usuario remote:

```
mysql> grant all privileges on *.* to 'remote'@'%';
Query OK, 0 rows affected (0.08 sec)
mysql> flush privileges;
Query OK, 0 rows affected (0.13 sec)
```

4. MysqlWorkbench.

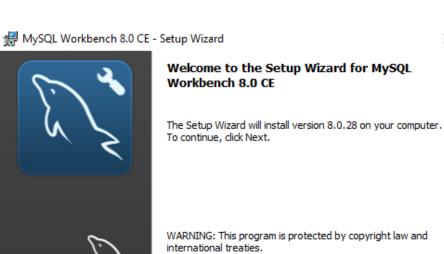
Instalo MysqlWorkbench en la máquina local:

Windows (x86, 64-bit), MSI Installer

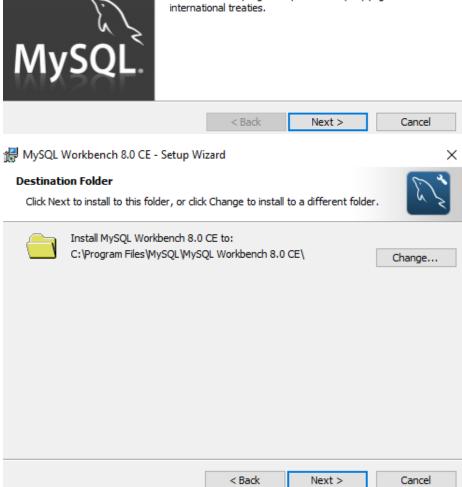
8.0.28 42.7M Download

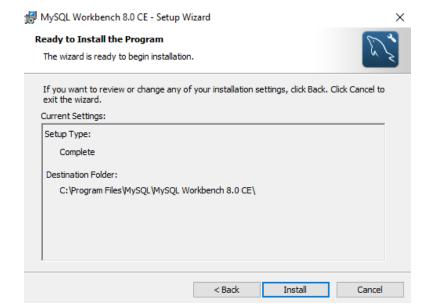
(mysql-workbench-community-8.0.28-winx64.msi)

MD5: c3db3ca9810964283b0821bcf021be59 | Signature



 \times





Welcome to MySQL Workbench

MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.

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