



INSTITUTO TECNOLÓGICO SUPERIOR DE JEREZ

6to Semestre



Ingeniería en Sistemas Computacionales

ADMINISTRACIÓN DE BASES DE DATOS

Actividad: Reporte de práctica “Instalación de BD en
Debian”

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INTRODUCCIÓN

En el presente documento, se planea dar a conocer algunas instrucciones que se realizaron para la instalación en el DEBIAN propio, de las bases de datos de ejemplo que tiene MySQL.

Así mismo, se muestran los comandos que fueron utilizados a través de capturas de pantalla.

Y finalmente, se da una conclusión personal.

OBJETIVO

*Instalar en el DEBIAN propio las bases de ejemplo que tiene MySQL.

PROCEDIMIENTO

1. Tomar captura de la pantalla y la descripción de los pasos realizados para la instalación de cada base de datos.

RESULTADOS

Para realizar el procedimiento, fue necesario lo siguiente:

```
OpenSSH SSH client
Microsoft Windows [Versión 10.0.18362.657]
(c) 2019 Microsoft Corporation. Todos los derechos reservados.

C:\Users\acer>ssh root@176.48.16.12
root@176.48.16.12'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: Wed Mar  4 14:31:56 2020 from 176.48.16.1
root@gulf:~# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 38
Server version: 5.5.62-0+deb8u1 (Debian)

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affiliates. Other names may be trademarks of their respective
owners.

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

root@localhost[(none)]>CREATE DATABASE world;
Query OK, 1 row affected (0.00 sec)
```

```

c:\ OpenSSH SSH client
root@localhost[(none)]>CREATE DATABASE world;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>
root@localhost[(none)]>CREATE DATABASE world_x;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>CREATE DATABASE sakila;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>CREATE DATABASE menagerie;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>CREATE DATABASE employees;
Query OK, 1 row affected (0.00 sec)

```

Ilustración 1. Creación de bases de datos

```

c:\ OpenSSH SSH client
root@localhost[(none)]>CREATE DATABASE employees;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>exit
Bye
root@gulf:~# mysql -p -u usuario world </root/world.sql
Enter password:
ERROR 1045 (28000): Access denied for user 'usuario'@'localhost' (using password: YES)
root@gulf:~# mysql -p -u root world </root/world.sql
Enter password:
root@gulf:~# mysql -p -u root world_x </root/world_x-db/world_x.sql
Enter password:
ERROR 1064 (42000) at line 36: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'json DEFAULT NULL,
PRIMARY KEY ('ID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4' at line 6
root@gulf:~# mysql -p -u root sakila </root/sakila-db/sakila-data.sql
Enter password:
ERROR 1146 (42S02) at line 45: Table 'sakila.actor' doesn't exist
root@gulf:~# mysql -p -u root sakila </root/sakila-db/sakila-schema.sql
Enter password:
root@gulf:~# mysql -p -u root sakila </root/sakila-db/sakila-data.sql
Enter password:

```

Ilustración 2. Creación de base de datos world y sakila

```

c:\ OpenSSH SSH client
root@gulf:~# mysql -p -u root employees </root/test_db-master/employees.sql
Enter password:
[INFO]
[CREATING DATABASE STRUCTURE]
[INFO]
[storage engine: InnoDB]
[INFO]
[LOADING departments]
[INFO]
[LOADING employees]
[INFO]
[LOADING dept_emp]
[INFO]
[LOADING dept_manager]
[INFO]
[LOADING titles]
[INFO]
[LOADING salaries]
[ERROR] at line 127: Failed to open file 'show_elapsed.sql', error: 2
root@gulf:~# mysql -p -u root employees </root/test_db-master/employees.sql
Enter password:
[INFO]
[CREATING DATABASE STRUCTURE]
[INFO]
[storage engine: InnoDB]
[INFO]
[LOADING departments]
[INFO]
[LOADING employees]
[INFO]

```

```
OpenSSH SSH client
root@gulf:~# mysql -p -u root employees </root/test_db-master/employees_partitioned.sql
Enter password:
INFO
CREATING DATABASE STRUCTURE
INFO
storage engine: InnoDB
INFO
LOADING departments
ERROR at line 163: Failed to open file 'load_departments.dump', error: 2
root@gulf:~# mysql -p -u root employees </root/test_db-master/employees_partitioned.sql
Enter password:
INFO
CREATING DATABASE STRUCTURE
INFO
storage engine: InnoDB
INFO
LOADING departments
INFO
LOADING employees
INFO
LOADING dept_emp
INFO
LOADING dept_manager
INFO
LOADING titles
INFO
LOADING salaries
data_load_time_diff
NULL
root@gulf:~#
```

```
OpenSSH SSH client
root@gulf:~# mysql -p -u root employees </root/test_db-master/employees_partitioned_5.1.sql
Enter password:
INFO
CREATING DATABASE STRUCTURE
INFO
storage engine: InnoDB
INFO
LOADING departments
INFO
LOADING employees
INFO
LOADING dept_emp
INFO
LOADING dept_manager
INFO
LOADING titles
INFO
LOADING salaries
data_load_time_diff
NULL
root@gulf:~#
```

```
OpenSSH SSH client
root@gulf:~# mysql -p -u root employees </root/test_db-master/objects.sql
Enter password:
root@gulf:~# mysql -p -u root employees </root/test_db-master/show_elapsed.sql
Enter password:
data_load_time_diff
NULL
root@gulf:~# mysql -p -u root employees </root/test_db-master/test_employees_md5.sql
Enter password:
INFO
ESTING INSTALLATION
able_name      expected_records      expected_crc
mployees      300024    4ec56ab5ba37218d187cf6ab09ce1aa1
epartments     9        d1af5e170d2d1591d776d5638d71fc5f
ept_manager    24       8720e2f0853ac9096b689c14664f847e
ept_emp        331603   ccf6fe516f990bdaa49713fc478701b7
itles         443308   bfa016c472df68e70a03facafalbc0a8
alaries        2844047   fd220654e95aea1b169624ffe3fca934
able_name      found_records      found_crc
mployees      300024    4ec56ab5ba37218d187cf6ab09ce1aa1
epartments     9        d1af5e170d2d1591d776d5638d71fc5f
ept_manager    24       8720e2f0853ac9096b689c14664f847e
ept_emp        331603   ccf6fe516f990bdaa49713fc478701b7
itles         443308   bfa016c472df68e70a03facafalbc0a8
alaries        2844047   fd220654e95aea1b169624ffe3fca934
able_name      records_match    crc_match
mployees      OK        ok
epartments     OK        ok
ept_manager    OK        ok
ept_emp        OK        ok
itles         OK        ok
```

```

OpenSSH SSH client
root@gulf:~# mysql -p -u root employees </root/test_db-master/test_employees_sha.sql
Enter password:
INFO
TESTING INSTALLATION
table_name      expected_records      expected_crc
employees       300024   4d4aa689914d8fd41db7e45c2168e7dcb9697359
departments     9        4b315afa0e35ca6649df897b958345bcb3d2b764
dept_manager    24       9687a7d6f93ca8847388a42a6d8d93982a841c6c
dept_emp        331603   d95ab9fe07df0865f592574b3b33b9c741d9fd1b
titles          443308   d12d5f746b88f07e69b9e36675b6067abb01b60e
salaries         2844047  b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f
table_name      found_records      found_crc
employees       300024   4d4aa689914d8fd41db7e45c2168e7dcb9697359
departments     9        4b315afa0e35ca6649df897b958345bcb3d2b764
dept_manager    24       9687a7d6f93ca8847388a42a6d8d93982a841c6c
dept_emp        331603   d95ab9fe07df0865f592574b3b33b9c741d9fd1b
titles          443308   d12d5f746b88f07e69b9e36675b6067abb01b60e
salaries         2844047  b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f
table_name      records_match    crc_match
employees       OK        ok
departments     OK        ok
dept_manager    OK        ok
dept_emp        OK        ok
titles          OK        ok
salaries         OK        ok
computation_time
00:00:17
summary result
CRC      OK

```

```

OpenSSH SSH client
root@gulf:~# mysql -p -u root menagerie </root/menagerie-db/cr_event_tbl.sql
Enter password:
root@gulf:~# mysql -p -u root menagerie </root/menagerie-db/cr_pet_tbl.sql
Enter password:
root@gulf:~# mysql -u root -p --local-infile menagerie
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
root@gulf:~# mysql -u root -p --local-infile menagerie
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 64
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.

root@localhost[menagerie]>LOAD DATA LOCAL INFILE '/root/menagerie-db/pet.txt' INTO TABLE peet;
ERROR 1146 (42S02): Table 'menagerie.peet' doesn't exist
root@localhost[menagerie]>LOAD DATA LOCAL INFILE '/root/menagerie-db/pet.txt' INTO TABLE pet;
Query OK, 8 rows affected (0.04 sec)
Records: 8 Deleted: 0 Skipped: 0 Warnings: 0

```

Ilustración 3. Creación de base de datos menagerie

```
OpenSSH SSH client
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
root@gulf:~# mysql -u root -p --local-infile menagerie
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 64
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.

root@localhost[menagerie]>LOAD DATA LOCAL INFILE '/root/menagerie-db/pet.txt' INTO TABLE peet;
ERROR 1146 (42S02): Table 'menagerie.peet' doesn't exist
root@localhost[menagerie]>LOAD DATA LOCAL INFILE '/root/menagerie-db/pet.txt' INTO TABLE pet;
Query OK, 8 rows affected (0.04 sec)
Records: 8 Deleted: 0 Skipped: 0 Warnings: 0

root@localhost[menagerie]>LOAD DATA LOCAL INFILE '/root/menagerie-db/event.txt' INTO TABLE event;
Query OK, 10 rows affected, 2 warnings (0.03 sec)
Records: 10 Deleted: 0 Skipped: 0 Warnings: 2

root@localhost[menagerie]>
```

1. Captura de pantalla de la conexión a cada BD desde MySQL, donde aparezca su conexión a través de su cliente SSH (por ejemplo, Putty).

```
C:\Users\acer>ssh root@176.48.16.12
root@176.48.16.12's password:

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individual files in /usr/share/doc/*copyright.

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permitted by applicable law.
Last login: Wed Mar  4 15:17:59 2020 from 176.48.16.1
root@gulf:~# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 65
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.
```

2. Además de una consulta de todas las bases de datos.

```
ca: OpenSSH SSH client

C:\Users\acer>ssh root@176.48.16.12
root@176.48.16.12'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: Wed Mar  4 15:17:59 2020 from 176.48.16.1
root@gulf:~# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 65
Server version: 5.5.62-0+deb8u1 (Debian)

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affiliates. Other names may be trademarks of their respective
owners.

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

root@localhost[(none)]>show databases;
+-----+
| Database      |
+-----+
| information_schema |
| employees      |
+-----+
```

```
ca: OpenSSH SSH client
nter password:
elcome to the MySQL monitor.  Commands end with ; or \g.
our MySQL connection id is 65
erver version: 5.5.62-0+deb8u1 (Debian)

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racle is a registered trademark of Oracle Corporation and/or its
ffiliates. Other names may be trademarks of their respective
wners.

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

oot@localhost[(none)]>show databases;
-----+
Database      |
-----+
information_schema |
employees      |
menagerie      |
mysql          |
performance_schema |
sakila         |
usuarios_sistema |
world          |
world_x        |
-----+
rows in set (0.00 sec)

oot@localhost[(none)]>
```

3. Una consulta de todas las tablas de las 5 bases de datos.

```
root@localhost[(none)]>use employees
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[employees]>show tables;
+-----+
| Tables_in_employees |
+-----+
| current_dept_emp
| departments
| dept_emp
| dept_emp_latest_date
| dept_manager
| employees
| salaries
| titles
| v_full_departments
| v_full_employees
+-----+
10 rows in set (0.00 sec)

root@localhost[employees]>
```

Ilustración 4. BD employees

```
root@localhost[employees]>use menagerie;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[menagerie]>show tables;
+-----+
| Tables_in_menagerie |
+-----+
| event
| pet
+-----+
2 rows in set (0.00 sec)

root@localhost[menagerie]>
```

Ilustración 5. BD menagerie

```
root@localhost[menagerie]>use world;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[world]>show tables;
+-----+
| Tables_in_world |
+-----+
| city
| country
| countrylanguage
+-----+
3 rows in set (0.00 sec)

root@localhost[world]>
```

Ilustración 6. BD world

```

[✓] OpenSSH SSH client
root@localhost[sakila]>show tables;
+-----+
| Tables_in_sakila |
+-----+
| actor
| actor_info
| address
| category
| city
| country
| customer
| customer_list
| film
| film_actor
| film_category
| film_list
| film_text
| inventory
| language
| nicer_but_slower_film_list
| payment
| rental
| sales_by_film_category
| sales_by_store
| staff
| staff_list
| store
+-----+
23 rows in set (0.00 sec)

root@localhost[sakila]>

```

Ilustración 7. Sakila

4. Una consulta de todos los registros de una tabla, para cada una de las BD.

```

[✓] OpenSSH SSH client
root@localhost[sakila]>select * from actor;
+-----+-----+-----+-----+
| actor_id | first_name | last_name | last_update |
+-----+-----+-----+-----+
| 1 | PENELOPE | GUINNESS | 2006-02-15 04:34:33 |
| 2 | NICK | WAHLBERG | 2006-02-15 04:34:33 |
| 3 | ED | CHASE | 2006-02-15 04:34:33 |
| 4 | JENNIFER | DAVIS | 2006-02-15 04:34:33 |
| 5 | JOHNNY | LOLLOBRIGIDA | 2006-02-15 04:34:33 |
| 6 | BETTE | NICHOLSON | 2006-02-15 04:34:33 |
| 7 | GRACE | MOSTEL | 2006-02-15 04:34:33 |
| 8 | MATTHEW | JOHANSSON | 2006-02-15 04:34:33 |
| 9 | JOE | SWANK | 2006-02-15 04:34:33 |
| 10 | CHRISTIAN | GABLE | 2006-02-15 04:34:33 |
| 11 | ZERO | CAGE | 2006-02-15 04:34:33 |
| 12 | KARL | BERRY | 2006-02-15 04:34:33 |
| 13 | UMA | WOOD | 2006-02-15 04:34:33 |
| 14 | VIVIEN | BERGEN | 2006-02-15 04:34:33 |
| 15 | CUBA | OLIVIER | 2006-02-15 04:34:33 |
| 16 | FRED | COSTNER | 2006-02-15 04:34:33 |
| 17 | HELEN | VOIGHT | 2006-02-15 04:34:33 |
| 18 | DAN | TORN | 2006-02-15 04:34:33 |
| 19 | BOB | FAWCETT | 2006-02-15 04:34:33 |
| 20 | LUCILLE | TRACY | 2006-02-15 04:34:33 |
| 21 | KIRSTEN | PALTROW | 2006-02-15 04:34:33 |
| 22 | ELVIS | MARX | 2006-02-15 04:34:33 |
| 23 | SANDRA | KILMER | 2006-02-15 04:34:33 |
| 24 | CAMERON | STREEP | 2006-02-15 04:34:33 |
| 25 | KEVIN | BLOOM | 2006-02-15 04:34:33 |
| 26 | RIP | CRAWFORD | 2006-02-15 04:34:33 |
| 27 | JULIA | MCQUEEN | 2006-02-15 04:34:33 |
+-----+

```

Ilustración 8. Sakila

OpenSSH-5.5p1 client					
498981	Senior Engineer	2002-01-31	9999-01-01		
499014	Senior Engineer	2002-05-21	9999-01-01		
499053	Senior Engineer	2002-07-24	9999-01-01		
499086	Senior Engineer	2002-02-12	9999-01-01		
499110	Senior Engineer	2002-02-21	9999-01-01		
499125	Senior Engineer	2002-02-02	9999-01-01		
499157	Engineer	2002-06-23	9999-01-01		
499161	Senior Staff	2002-02-02	9999-01-01		
499167	Senior Staff	2002-02-18	9999-01-01		
499202	Senior Engineer	2002-03-22	9999-01-01		
499261	Senior Engineer	2002-07-16	9999-01-01		
499273	Senior Staff	2002-03-28	9999-01-01		
499441	Senior Staff	2002-04-17	9999-01-01		
499453	Senior Staff	2002-02-20	9999-01-01		
499493	Senior Engineer	2002-01-31	9999-01-01		
499518	Senior Engineer	2002-04-12	9999-01-01		
499557	Senior Staff	2002-06-21	9999-01-01		
499559	Senior Engineer	2002-07-31	9999-01-01		
499561	Senior Staff	2002-02-12	9999-01-01		
499604	Senior Engineer	2002-04-14	9999-01-01		
499622	Senior Staff	2002-01-02	9999-01-01		
499654	Senior Engineer	2002-03-18	9999-01-01		
499701	Senior Staff	2002-04-23	9999-01-01		
499702	Senior Engineer	2002-02-14	9999-01-01		
499757	Senior Staff	2002-06-13	9999-01-01		
499834	Senior Staff	2002-05-12	9999-01-01		
499996	Senior Engineer	2002-05-13	9999-01-01		

Ilustración 9. Employees

OpenSSH-5.5p1 client					
oot@localhost[employees]>use menagerie;					
Reading table information for completion of table and column names					
You can turn off this feature to get a quicker startup with -A					
Database changed					
oot@localhost[menagerie]>show tables;					
+-----+					
Tables_in_menagerie					
+-----+					
event					
pet					
+-----+					
rows in set (0.00 sec)					
oot@localhost[menagerie]>select * from pet;					
+-----+-----+-----+-----+-----+-----+					
name owner species sex birth death					
+-----+-----+-----+-----+-----+-----+					
Fluffy	Harold	cat	f	1993-02-04	NULL
Claws	Gwen	cat	m	1994-03-17	NULL
Buffy	Harold	dog	f	1989-05-13	NULL
Fang	Benny	dog	m	1990-08-27	NULL
Bowser	Diane	dog	m	1979-08-31	1995-07-29
Chirpy	Gwen	bird	f	1998-09-11	NULL
Whistler	Gwen	bird	NULL	1997-12-09	NULL
Slim	Benny	snake	m	1996-04-29	NULL
+-----+-----+-----+-----+-----+-----+					
rows in set (0.00 sec)					
oot@localhost[menagerie]>					

Ilustración 10. Menagerie

OpenSSH-5.5p1 client					
4053	Gainesville	USA	Florida	92291	
4054	Fairfield	USA	California	92256	
4055	Arden-Arcade	USA	California	92040	
4056	San Mateo	USA	California	91799	
4057	Visalia	USA	California	91762	
4058	Boulder	USA	Colorado	91238	
4059	Cary	USA	North Carolina	91213	
4060	Santa Monica	USA	California	91084	
4061	Fall River	USA	Massachusetts	90555	
4062	Kenosha	USA	Wisconsin	89447	
4063	Elgin	USA	Illinois	89408	
4064	Odessa	USA	Texas	89293	
4065	Carson	USA	California	89089	
4066	Charleston	USA	South Carolina	89063	
4067	Charlotte Amalie	VIR	St Thomas	13000	
4068	Harare	ZWE	Harare	1410000	
4069	Bulawayo	ZWE	Bulawayo	621742	
4070	Chitungwiza	ZWE	Harare	274912	
4071	Mount Darwin	ZWE	Harare	164362	
4072	Mutare	ZWE	Manicaland	131367	
4073	Gweru	ZWE	Midlands	128037	
4074	Gaza	PSE	Gaza	353632	
4075	Khan Yunis	PSE	Khan Yunis	123175	
4076	Hebron	PSE	Hebron	119461	
4077	Jabaliya	PSE	North Gaza	113901	
4078	Nablus	PSE	Nablus	100231	
4079 Rafah	PSE	Rafah	92020		

Ilustración 11. World

CONCLUSIÓN

De manera general, se puede concluir que una vez que se investigó la manera en qué se instalan las bases en Debian, fue mucho más sencillo instalar las bases de datos, sin embargo, lo que me demoró un poco más fue las consultas, pero a la hora de capturarlas, no porque hayan sido complicadas.

Cabe mencionar, que al inicio se me complicó un poco el encontrar los comandos adecuados, sin embargo, la instalación se logró.

REFERENCIAS

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