



Universidad Galileo

Carrera: Técnico universitario en desarrollo Full stack

Curso: AWS

Sede: Virtual

Introducción a la nube.

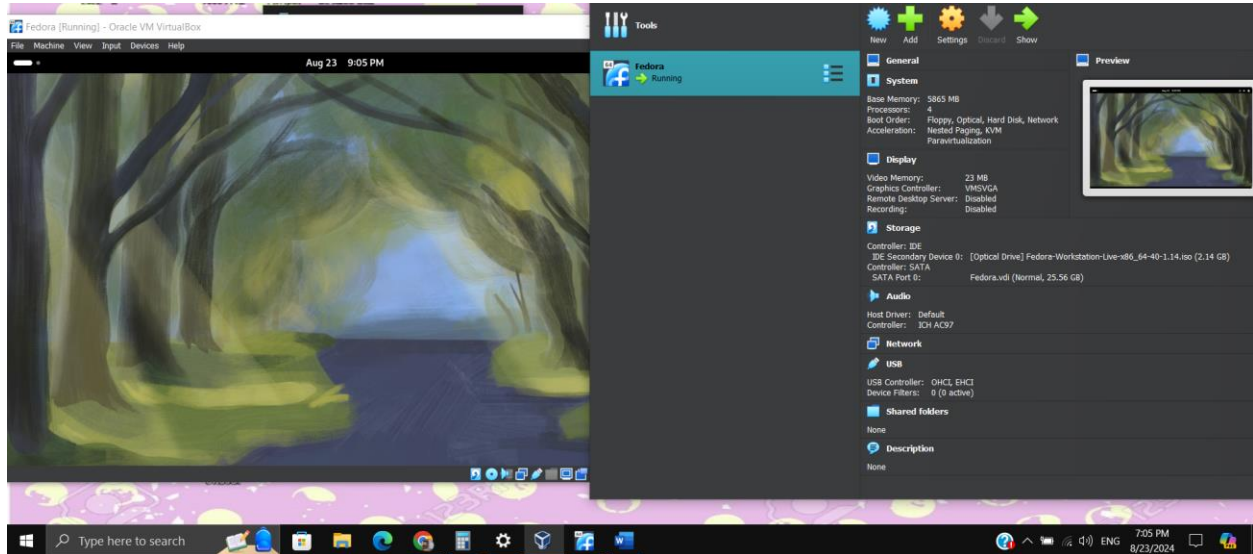
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Carné: 24011377

Sección: T

Fecha de entrega: 08-30-2024

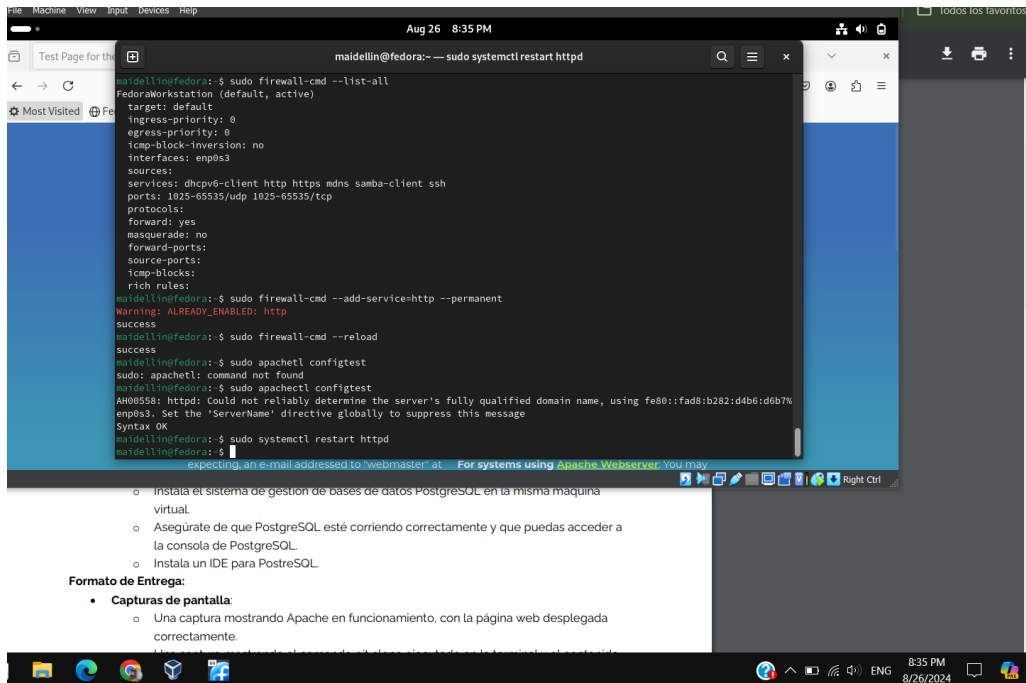
INSTALACION DE FEDORA EN UNA MAQUINA VIRTUAL



1. En este paso instalamos fedora en nuestra máquina virtual asegúrate de eliminar el disco una vez hayas instalado el sistema operativo, ya que si no lo haces estarás iniciando desde el disco el sistema operativo cada vez que la inicies.

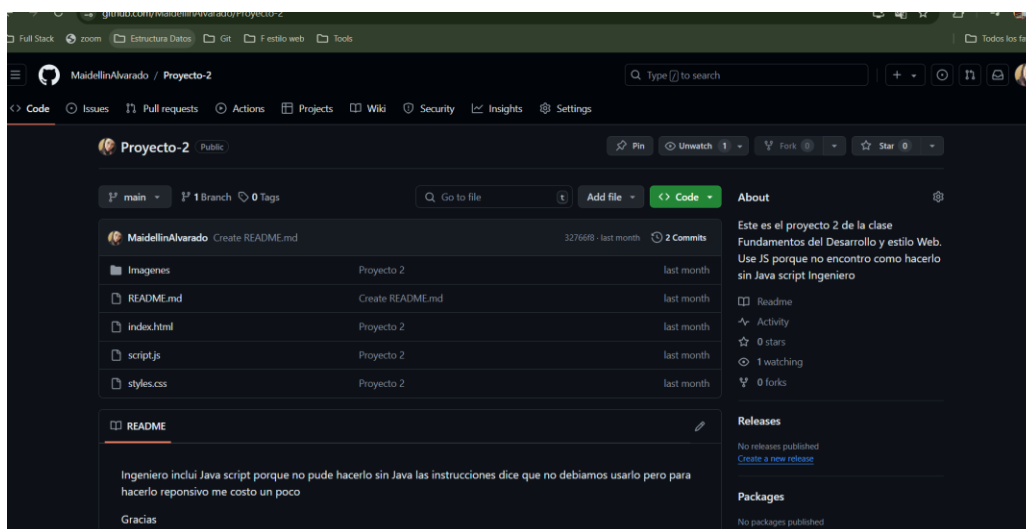
INSTALACION DE APACHE EN FEDORA

2. En este paso vemos que instalamos apache desde la terminal con el comando `sudo dnf install httpd` y asegúrate de aplicar las configuraciones necesarias para que se inicie automáticamente y para que el puerto 80 este activo que es puerto web.



En esta imagen vemos que apache esta funcionando correctamente con la pagina de bienvenida y que el puerto 80 esta habilitado también que el servidor no contiene errores.

AHORA CLONAREMOS EL PROYECTO 2 DE NUESTRO REPOSITORIO DE GIT



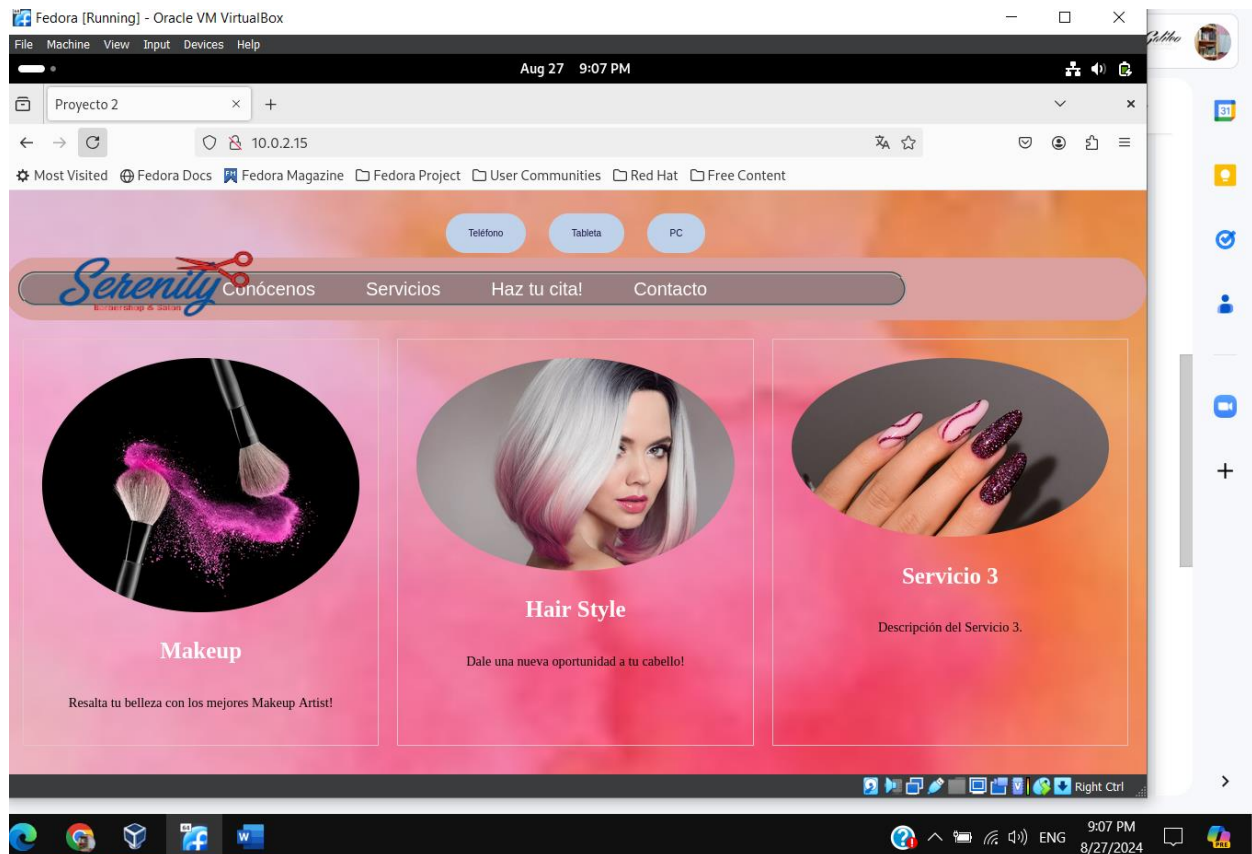
```
Aug 27 9:06 PM
maidellin@fedora:~
maidellin@fedora:~$ sudo cp -r /home/maidellin/Documents/Proyecto-2/* /var/www/html/
[sudo] password for maidellin:
maidellin@fedora:~$ sudo chown -R www-data:www-data /var/www/html/
[sudo] password for maidellin:
chown: invalid user: 'www-data:www-data'
maidellin@fedora:~$ sudo chown -R www-data:www-data /var/www/html/
chown: invalid user: 'www-data:www-data'
maidellin@fedora:~$ Port@l003
bash: Port@l003: command not found...
maidellin@fedora:~$ sudo chown -R 755 /var/www/html/
maidellin@fedora:~$ sudo vim /etc/apache2/sites-available/Proyecto-2.conf
sudo: vim: command not found
maidellin@fedora:~$ sudo vim /etc/apache2/sites-available/Proyecto-2.conf
sudo: vim: command not found
maidellin@fedora:~$ sudo nano /etc/apache2/sites-available/Proyecto-2.conf
maidellin@fedora:~$ sudo nano /etc/apache2/sites-available/miSitio.conf
maidellin@fedora:~$ ls /etc/apache2
ls: cannot access '/etc/apache2': No such file or directory
maidellin@fedora:~$ ls /etc/apache2
ls: cannot access '/etc/apache2': No such file or directory
maidellin@fedora:~$ sudo mkdir -p /etc/apache2/sites-available
[sudo] password for maidellin:
maidellin@fedora:~$ sudo nano /etc/apache2/sites-available/miPagina.conf
maidellin@fedora:~$ sudo a2ensite Proyecto-2.conf
[sudo] password for maidellin:
sudo: a2ensite: command not found
maidellin@fedora:~$ sudo a2ensite Proyecto-2.conf
sudo: a2ensite: command not found
maidellin@fedora:~$ httpd -v
Server version: Apache/2.4.62 (Fedora Linux)
Server built: Aug 1 2024 00:00:00
maidellin@fedora:~$ sudo apt install nano
```

FINALIZACION AL RESTAURAR EL APACHE

```
Package nano-7.2-7.fc40.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
maidellin@fedora:~$ sudo systemctl restart httpd
Unknown command verb 'restart', did you mean 'restart'?
maidellin@fedora:~$ sudo systemctl restart httpd
Failed to restart httpd.service: Unit httpd.service not found.
maidellin@fedora:~$ sudo systemctl restart httpd
maidellin@fedora:~$ ip confi
Object "confi" is unknown, try "ip help".
maidellin@fedora:~$ conf
bash: conf: command not found...
maidellin@fedora:~$ ip conf
Object "conf" is unknown, try "ip help".
maidellin@fedora:~$
maidellin@fedora:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:f3:0e:55 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 83807sec preferred_lft 83807sec
    inet6 fe80::fad8:b282:d4b6:d6b7/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
maidellin@fedora:~$
```

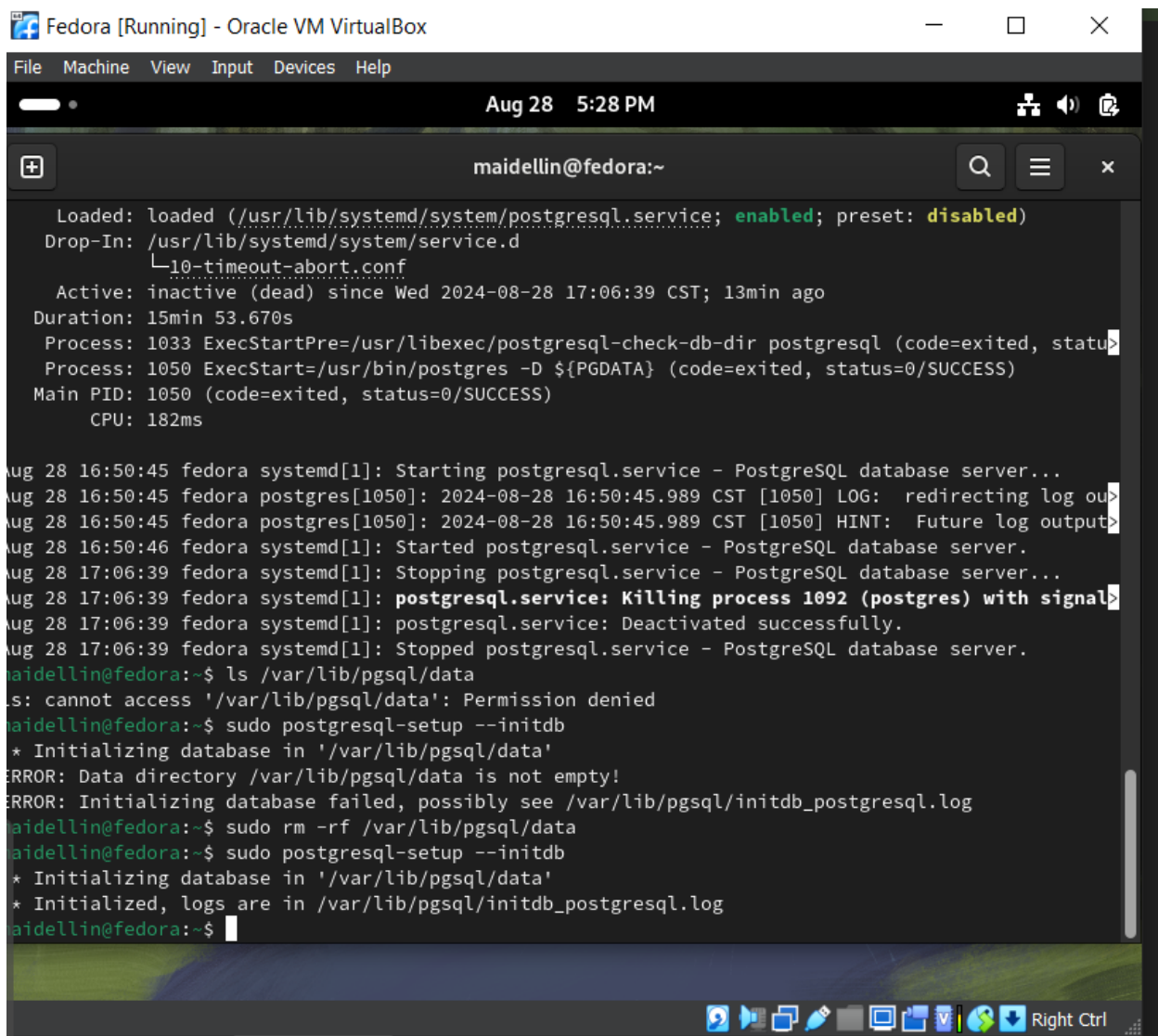
En En esta imagen reiniciamos apache para aplicar los cambios.

IP DE MI MAQUINA VIRTUAL Y TENGO LA PAGINA QUE ES MI PROYECTO 2



En este paso inicializamos nuestro proyecto 2 en nuestro local host con la Ip de la maquina virtual.

INSTALACION DE POSTGRESQL



The screenshot shows a terminal window within a Fedora VM. The terminal displays the status of the PostgreSQL service, which is currently inactive. It then shows the service being started, followed by a series of logs indicating the service's operation. The user attempts to initialize the database using 'sudo postgresql-setup --initdb', but it fails due to a non-empty data directory. The user then removes the data directory and successfully initializes the database.

```
Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Aug 28 5:28 PM
maidellin@fedora:~
Loaded: loaded (/usr/lib/systemd/system/postgresql.service; enabled; preset: disabled)
Drop-In: /usr/lib/systemd/system/service.d
└─10-timeout-abort.conf
Active: inactive (dead) since Wed 2024-08-28 17:06:39 CST; 13min ago
Duration: 15min 53.670s
Process: 1033 ExecStartPre=/usr/libexec/postgresql-check-db-dir postgresql (code=exited, status=0/SUCCESS)
Process: 1050 ExecStart=/usr/bin/postgres -D ${PGDATA} (code=exited, status=0/SUCCESS)
Main PID: 1050 (code=exited, status=0/SUCCESS)
CPU: 182ms

Aug 28 16:50:45 fedora systemd[1]: Starting postgresql.service - PostgreSQL database server...
Aug 28 16:50:45 fedora postgres[1050]: 2024-08-28 16:50:45.989 CST [1050] LOG: redirecting log output to stderr
Aug 28 16:50:45 fedora postgres[1050]: 2024-08-28 16:50:45.989 CST [1050] HINT: Future log output will be sent to stderr.
Aug 28 16:50:46 fedora systemd[1]: Started postgresql.service - PostgreSQL database server.
Aug 28 17:06:39 fedora systemd[1]: Stopping postgresql.service - PostgreSQL database server...
Aug 28 17:06:39 fedora systemd[1]: postgresql.service: Killing process 1092 (postgres) with signal SIGTERM
Aug 28 17:06:39 fedora systemd[1]: postgresql.service: Deactivated successfully.
Aug 28 17:06:39 fedora systemd[1]: Stopped postgresql.service - PostgreSQL database server.

maidellin@fedora:~$ ls /var/lib/pgsql/data
ls: cannot access '/var/lib/pgsql/data': Permission denied

maidellin@fedora:~$ sudo postgresql-setup --initdb
* Initializing database in '/var/lib/pgsql/data'
ERROR: Data directory /var/lib/pgsql/data is not empty!
ERROR: Initializing database failed, possibly see /var/lib/pgsql/initdb_postgresql.log

maidellin@fedora:~$ sudo rm -rf /var/lib/pgsql/data
maidellin@fedora:~$ sudo postgresql-setup --initdb
* Initializing database in '/var/lib/pgsql/data'
* Initialized, logs are in /var/lib/pgsql/initdb_postgresql.log

maidellin@fedora:~$
```

ASEGURARNDQ QUE FUNCIONE CORRECTAMENTE Y QUE ESTE INICIALIZADO

```
CPU: 182ms
Aug 28 16:50:45 fedora systemd[1]: Starting postgresql.service - PostgreSQL database server...
Aug 28 16:50:45 fedora postgres[1050]: 2024-08-28 16:50:45.989 CST [1050] LOG: redirecting log ou>
Aug 28 16:50:45 fedora postgres[1050]: 2024-08-28 16:50:45.989 CST [1050] HINT: Future log output>
Aug 28 16:50:46 fedora systemd[1]: Started postgresql.service - PostgreSQL database server.
Aug 28 17:06:39 fedora systemd[1]: Stopping postgresql.service - PostgreSQL database server...
Aug 28 17:06:39 fedora systemd[1]: postgresql.service: Killing process 1092 (postgres) with signal>
Aug 28 17:06:39 fedora systemd[1]: postgresql.service: Deactivated successfully.
Aug 28 17:06:39 fedora systemd[1]: Stopped postgresql.service - PostgreSQL database server.
maidellin@fedora:~$ sudo systemctl start postgresql
maidellin@fedora:~$ sudo systemctl enable postgresql
maidellin@fedora:~$
```

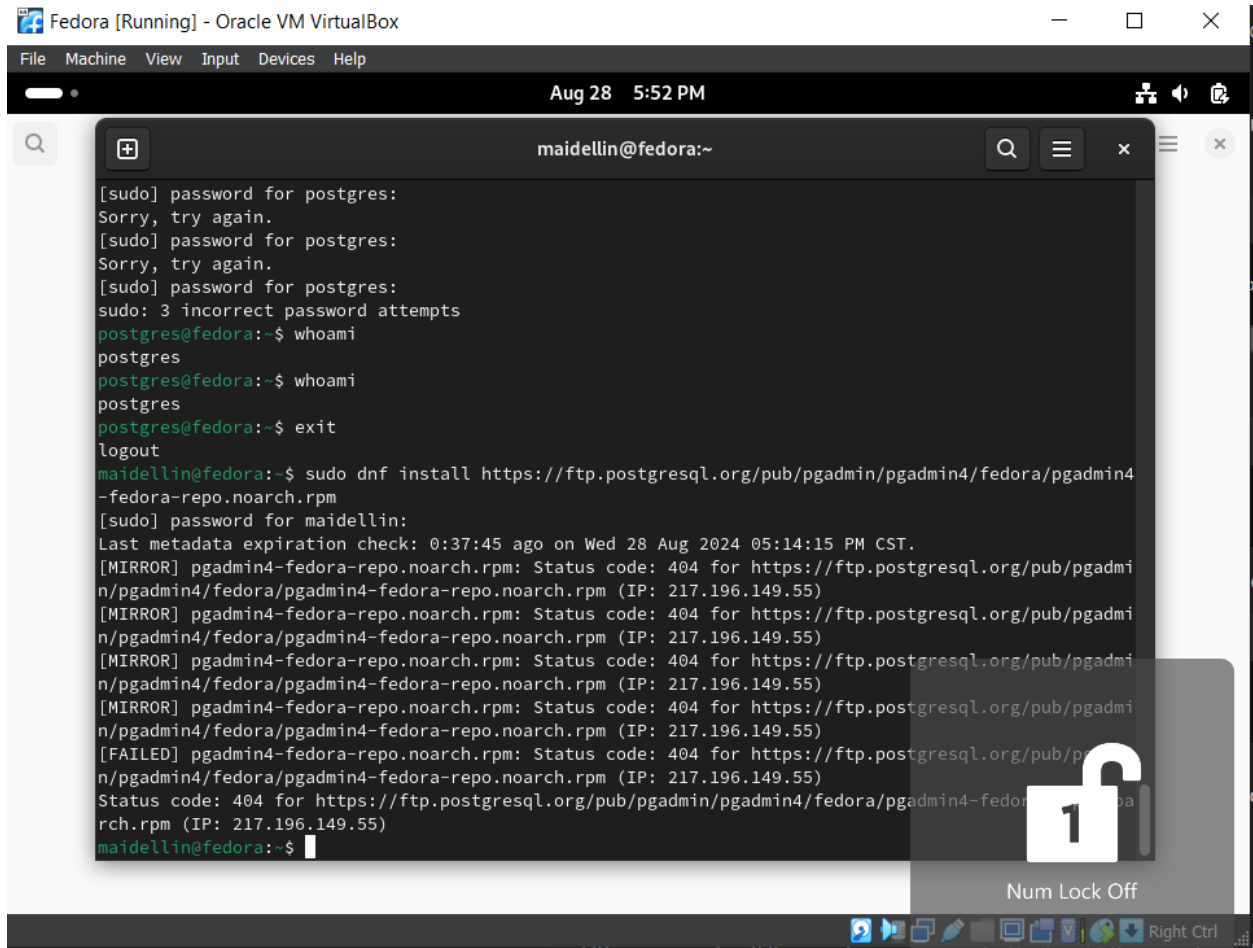
ENTRANDO AL CONSOLA POSTGRESQL

```
Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Aug 28 5:32 PM
postgres@fedora:~
Loaded: loaded (/usr/lib/systemd/system/postgresql.service; enabled; preset: disabled)
Drop-In: /usr/lib/systemd/system/service.d
└─10-timeout-abort.conf
Active: inactive (dead) since Wed 2024-08-28 17:06:39 CST; 22min ago
Duration: 15min 53.670s
Process: 1033 ExecStartPre=/usr/libexec/postgresql-check-db-dir postgresql (code=exited, statu>
Process: 1050 ExecStart=/usr/bin/postgres -D ${PGDATA} (code=exited, status=0/SUCCESS)
Main PID: 1050 (code=exited, status=0/SUCCESS)
CPU: 182ms
Aug 28 16:50:45 fedora systemd[1]: Starting postgresql.service - PostgreSQL database server...
Aug 28 16:50:45 fedora postgres[1050]: 2024-08-28 16:50:45.989 CST [1050] LOG: redirecting log ou>
Aug 28 16:50:45 fedora postgres[1050]: 2024-08-28 16:50:45.989 CST [1050] HINT: Future log output>
Aug 28 16:50:46 fedora systemd[1]: Started postgresql.service - PostgreSQL database server.
Aug 28 17:06:39 fedora systemd[1]: Stopping postgresql.service - PostgreSQL database server...
Aug 28 17:06:39 fedora systemd[1]: postgresql.service: Killing process 1092 (postgres) with signal>
Aug 28 17:06:39 fedora systemd[1]: postgresql.service: Deactivated successfully.
Aug 28 17:06:39 fedora systemd[1]: Stopped postgresql.service - PostgreSQL database server.
maidellin@fedora:~$ sudo systemctl start postgresql
maidellin@fedora:~$ sudo systemctl enable postgresql
maidellin@fedora:~$ sudo -i -u postgres
sudo: unknown user -postgres
sudo: error initializing audit plugin sudoers_audit
maidellin@fedora:~$ sudo -i -u postgres
postgres@fedora:~$ psql
psql (16.3)
Type "help" for help.

postgres=#
```

Acceder a la consola de PostgreSQL es esencial para la administración y gestión de bases de datos en PostgreSQL.

INSTALACION DE IDE



```
Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Aug 28 5:52 PM

maidellin@fedora:~
[sudo] password for postgres:
Sorry, try again.
[sudo] password for postgres:
Sorry, try again.
[sudo] password for postgres:
sudo: 3 incorrect password attempts
postgres@fedora:~$ whoami
postgres
postgres@fedora:~$ whoami
postgres
postgres@fedora:~$ exit
logout
maidellin@fedora:~$ sudo dnf install https://ftp.postgresql.org/pub/pgadmin/pgadmin4/fedora/pgadmin4-fedora-repo.noarch.rpm
[sudo] password for maidellin:
Last metadata expiration check: 0:37:45 ago on Wed 28 Aug 2024 05:14:15 PM CST.
[MIRROR] pgadmin4-fedora-repo.noarch.rpm: Status code: 404 for https://ftp.postgresql.org/pub/pgadmin4/fedora/pgadmin4-fedora-repo.noarch.rpm (IP: 217.196.149.55)
[MIRROR] pgadmin4-fedora-repo.noarch.rpm: Status code: 404 for https://ftp.postgresql.org/pub/pgadmin4/fedora/pgadmin4-fedora-repo.noarch.rpm (IP: 217.196.149.55)
[MIRROR] pgadmin4-fedora-repo.noarch.rpm: Status code: 404 for https://ftp.postgresql.org/pub/pgadmin4/fedora/pgadmin4-fedora-repo.noarch.rpm (IP: 217.196.149.55)
[MIRROR] pgadmin4-fedora-repo.noarch.rpm: Status code: 404 for https://ftp.postgresql.org/pub/pgadmin4/fedora/pgadmin4-fedora-repo.noarch.rpm (IP: 217.196.149.55)
[FAILED] pgadmin4-fedora-repo.noarch.rpm: Status code: 404 for https://ftp.postgresql.org/pub/pgadmin4/fedora/pgadmin4-fedora-repo.noarch.rpm (IP: 217.196.149.55)
Status code: 404 for https://ftp.postgresql.org/pub/pgadmin/pgadmin4/fedora/pgadmin4-fedora-repo.noarch.rpm (IP: 217.196.149.55)
maidellin@fedora:~$
```

IDEs para PostgreSQL

Pg Admin es uno de los IDEs más populares para PostgreSQL. Ofrece una interfaz web y de escritorio que permite gestionar bases de datos, ejecutar consultas, y realizar tareas administrativas.