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Configuración:

Instalar postgresql:

Configuración remota:

```
root@user:/home/user# nano /etc/postgresql/16/main/postgresql.conf
```

```
# - Connection Settings -
listen_addresses = '*'  # what IP address(es) to listen on;
# comma-separated list of addresses;
```

root@user:/home/user# nano /etc/postgresql/16/main/pg_hba.conf

```
# IPv4 local connections:
host all all scram-sha-256
```

root@user:/home/user# systemctl restart postgresql

Extracción del script de la base de datos:

```
root@user:/home/user# su - postgres
postgres@user:~$ wget http://10.90.29.126:8080/isos/demo-medium-en.zip
```

```
postgres@user:~$ ls
16  demo-medium-en.zip
postgres@user:~$ unzip demo-medium-en.zip
Archive: demo-medium-en.zip
  inflating: demo-medium-en-20170815.sql
postgres@user:~$ ls
16  demo-medium-en-20170815.sql demo-medium-en.zip
```

Correr el script:

```
postgres@user:~$ psql -f demo-medium-en-20170815.sql
```

pgAdmin 4:

Host name/address	10.90.28.173
Port	5432
Maintenance database	postgres
Username	postgres
Kerberos authentication?	
Role	
Service	

Configuración API:

```
root@user:/home/user# sudo apt install python3 python3-pip
```

Creación de entorno aislado:

```
root@user:/home/user# python3 -m venv myenv
root@user:/home/user# source myenv/bin/activate
```

Instalación de las herramientas:

```
root@user:/home/user# sudo apt install python3 python3-pip
```

(myenv) root@user:/home/user# sudo apt-get install libpq-dev python3-dev

(myenv) root@user:/home/user# python -m pip install --upgrade pip

(myenv) root@user:/home/user# pip install psycopg2

(myenv) root@user:/home/user# pip install Flask

Creación de archivo:

(myenv) root@user:/home/user# nano app.py

Configuración del archivo:

```
# Call external libraries
import psycopg2
import locale
from flask import Flask, jsonify, abort, make_response, request
# Create default flask application
locale.setlocale(locale.LC_ALL, "es")
app = Flask(__name__)
# Function to execute data modification sentence
def execute(auxsql):
    data = None
    try:
        conex = psycopg2.connect(host='10.90.28.173',
                                user='postgres',
        cur = conex.cursor()
        cur.execute(auxsql)
        # Retrieve data if exists
        data = cur.fetchall()
        # close cursor
        cur.close()
    except (Exception, psycopg2.DatabaseError) as error:
        print(error)
    finally:
        if conex is not None:
            conex.close()
    return data
@app.errorhandler(400)
def bad_request(error):
    return make_response(jsonify({'error': 'Bad request....!'}), 400)
```

```
@app.errorhandler(401)
def unauthorized(error):
    return make_response(jsonify({'error': 'Unauthorized....!'}), 401)
    return make_response(jsonify({'error': 'Forbidden....!'}), 403)
    return make_response(jsonify({'error': 'Not found....!'}), 404)
@app.route('/aircraft', methods=['GET'])
        salida = {
        for cod, modelo, rango in resu:
            salida["data"].append({
                "model": modelo,
        abort(404)
    return jsonify({'data': salida}), 200
if __name__ == '__main__':
    app.run(host='10.90.28.173', port=5001, debug=True)
```

Ejecutar archivo:

```
(myenv) root@user:/home/user# python app.py
```

Apis:

1:

2:

3: