

Deployment Steps

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1. Setup Postgres DB Service

- a. Login into [Render Dashboard](#) . Select **PostgreSQL** from **New** drop down menu.

Render

DashboardBlueprintsEnv Groups

+ New

My Workspace

Introducing workspaces: Your account is now a Hobby workspace. There are no changes to your billing or services. [Learn more](#)

Overview

Search services

Projects

Get organized with Projects

An easier way to organize your resources and collaborate with team members.

Create your first project

Learn more

New

Project

Static Site

Web Service

Private Service

Background Worker

Cron Job

PostgreSQL

Redis

Blueprint

Ungrouped Services

Active (4)Suspended (2)All (6)

Service name	Status	Type	Runtime	Region	Last deployed
climatechic-project	Deployed	Web Service	Python 3	Frankfurt	3 hours ago
Climate-Chic-DB	Available	PostgreSQL	PostgreSQL 16	Frankfurt	5 hours ago

- b. Specify
- i. Name of PostgreSQL instance - **“Climate-Chic-DB”**
 - ii. Database – **climatechicdb**
 - iii. User – **vn1**
 - iv. Select nearest region – **Frankfurt**(EU Central)
 - v. Make sure Postgres version is **16**
 - vi. Select Instance Type as **Free**
 - vii. Click on **“Create Database”** button

New PostgreSQL

[View docs](#)

Name
A unique name for your PostgreSQL instance.

Database Optional
The PostgreSQL `dbname`

User Optional

Region
Your services in the same [region](#) can communicate over a [private network](#). You currently have services running in Frankfurt.

PostgreSQL Version

Datadog API Key Optional
The API key to use for sending metrics to Datadog. Setting this will enable Datadog monitoring.

POSTGRESQL

Climate-Chic-DB

Basic-256mb

[View docs](#)

Connect

Info
Apps
Metrics
Recovery
Logs

Customize your PostgreSQL plan

Select compute and storage to fit your use case.

Plan Options

Instance Type

Set your database's RAM and CPU. You can change your instance type later.

New

You can now set your database's storage separately from its instance type.

Basic

Reliability and performance for hobby projects. Starting at \$6 / month plus storage.

Memory and CPU

Basic-256mb 256 MB (RAM)
\$6 / month 0.1 CPU

Basic-1gb 1 GB (RAM)
\$19 / month 0.5 CPU

- c. PostgreSQL service will start in some time. Click on **Connect** drop down menu and from **Internal** tab copy **Internal Database URL**

Render

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My Workspace

POSTGRES

Climate-Chic-DB

Basic-256mb

View docs

Connect

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Logs

Info

General

Name

A unique name for your database.

Climate-Chic-DB

Edit

Internal

External

Internal Database URL


All of your services on Render can [communicate internally](#) on the same private network.

postgresql://vn1:CzqKSBfhob9JNXa5GEr89H...

2. Setup Django Web Service

1. **Requirement.txt** in github repo (<https://github.com/Irenetitor/climatechic-project/blob/main/requirements.txt>) mentions package dependencies needed by render.com and build.sh (<https://github.com/Irenetitor/climatechic-project/blob/main/build.sh>) script mentions build commands before starting server

[climatechic-project / requirements.txt](#)


 Irenetitor Adding usage of postgres db and config

CodeBlame

23 lines (23 loc) · 415 Bytes

```
1 asgiref==3.8.1
2 certifi==2024.8.30
3 charset-normalizer==3.4.0
4 click==8.1.7
5 colorama==0.4.6
6 crispy-bootstrap5==2024.10
7 dj-database-url==2.2.0
8 Django==5.1.1
9 django-crispy-forms==2.3
10 gunicorn==23.0.0
11 h11==0.14.0
12 idna==3.10
13 packaging==24.1
14 pillow==10.4.0
15 psycopg2-binary==2.9.9
16 python-decouple==3.8
17 requests==2.32.3
18 sqlparse==0.5.1
19 typing_extensions==4.12.2
20 tzdata==2024.2
21 urllib3==2.2.3
22 uvicorn==0.31.1
23 whitenoise==6.7.0
```

[climatechic-project / build.sh](#)


 Irenetitor Updated build script

CodeBlame

15 lines (11 loc) · 310 Bytes

```
1 #!/usr/bin/env bash
2 # Exit on error
3 set -o errexit
4
5 pip install -r requirements.txt
6
7 # Convert static asset files
8 python manage.py collectstatic --no-input
9
10 # Apply any outstanding database migrations
11 python manage.py makemigrations
12 python manage.py migrate
13
14 # Load initial data
15 python manage.py fetch_products
```

- a. In Render.com, after login into dashboard select **Web service** from **New** drop down menu.

 **Render**

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+ Create new project

Project

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PostgreSQL



Redis

Blueprint


Invite your team

Ungrouped Services

Active (4)Suspended (2)All (6)

<input type="checkbox"/>	Service name	Status	Type	Runtime	Region	Last deployed ↑	
<input type="checkbox"/>	 climatechic...	✓ Deployed	Web Service	Python 3	Frankfurt	3 hours ago	...
<input type="checkbox"/>	 Climate-Ch...	✓ Available	PostgreSQL	PostgreSQL 16	Frankfurt	5 hours ago	...

b. Select option – Build and deploy from git repository and click next

 **Render**

Dashboard

Blueprints

Env Groups

Docs

Community

Help

New +

irene.martin.campo@ig...

Create a new Web Service

Connect a Git repository, or use an existing image.

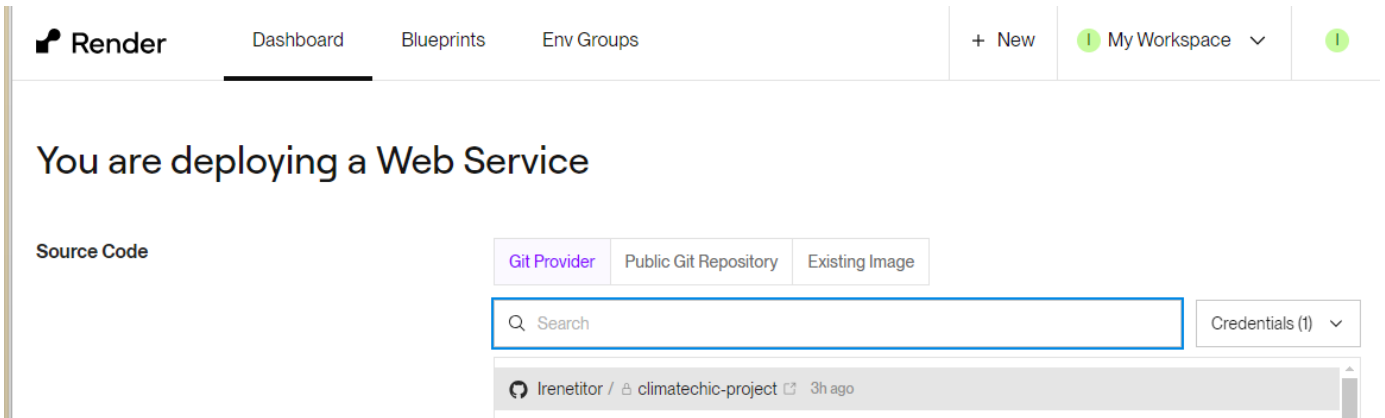
How would you like to deploy your web service?

☒ Build and deploy from a Git repository
Connect a GitHub or GitLab repository.

☐ Deploy an existing image from a registry ADVANCED
Pull a public image from any registry or a private image from Docker Hub, GitHub, or GitLab.

Next

c. **Connect** with gitrepo <https://github.com/Irenetitor/climatechic-project>



The screenshot shows the Render dashboard with the following elements:

- Navigation bar: Render logo, Dashboard (active), Blueprints, Env Groups, + New, My Workspace (dropdown), and a green status indicator.
- Section: You are deploying a Web Service
- Source Code tab: Includes tabs for Git Provider, Public Git Repository, and Existing Image.
- Search bar: A search input field with a magnifying glass icon and the text "Search".
- Credentials (1) dropdown: A dropdown menu showing one credential.
- Repository list: A list of repositories, with "Irenetitor / climatechic-project" highlighted and a "3h ago" timestamp.

d. Specify

- i. Name for web service instance – **climatechic-project**
- ii. Select nearest region – **Frankfurt(EU Central)**
- iii. Branch for repo as **main**
- iv. Keep Runtime as **Python 3**
- v. Build command as **\$./build.sh**
- vi. Start command as **\$ gunicorn climatechic.asgi:application -k uvicorn.workers.UvicornWorker**
- vii. Select Instance Type as **Starter**
- viii. **IMPORTANT – Mention Environment variable DATABASE_URL as copied Internal Database URL for deployed PostgreSQL service before while setup of PostgreSQL database.**

Set Environment Variables:

```
SECRET_KEY=<Secret Keys>
WEATHER_API_KEY=<Secret API Keys>
PRODUCT_API_KEY=<Secret product API Keys>
DEBUG=True
ALLOWED_HOSTS=127.0.0.1, climatechic-project.onrender.com
DATABASE_URL=<Copied Internal DB url>
EMAIL_HOST_USER=<Admin account gmail email id>
EMAIL_HOST_PASSWORD = <Gmail App password>
```

Events

Logs

Disks

Environment

Shell

Previews

Jobs

Metrics

Scaling

Settings

Pick an Instance Type

For hobby projects

Free 512 MB (RAM)
\$0 / month 0.1 CPU

For professional use

For more power and to get the most out of Render, we recommend using one of our paid instance types. All paid instances support:

- Zero Downtime
- SSH Access
- Scaling
- One-off jobs
- Support for persistent disks

Starter 512 MB (RAM)
\$7 / month 0.5 CPU**Standard** 2 GB (RAM)
\$25 / month 1 CPU**Pro** 4 GB (RAM)
\$85 / month 2 CPU**Pro Plus** 8 GB (RAM)
\$175 / month 4 CPU**Pro Max** 16 GB (RAM)
\$225 / month 4 CPU**Pro Ultra** 32 GB (RAM)
\$450 / month 8 CPUNeed a [custom instance type](#)? We support up to 512 GB RAM and 64 CPUs.

Cancel

Save Changes

Events

Logs

Disks

Environment

Shell

Previews

Jobs

Metrics

Scaling

Settings

Environment

Environment Variables

Set environment-specific config and secrets (such as API keys), then read those values from your code. [Learn more.](#)

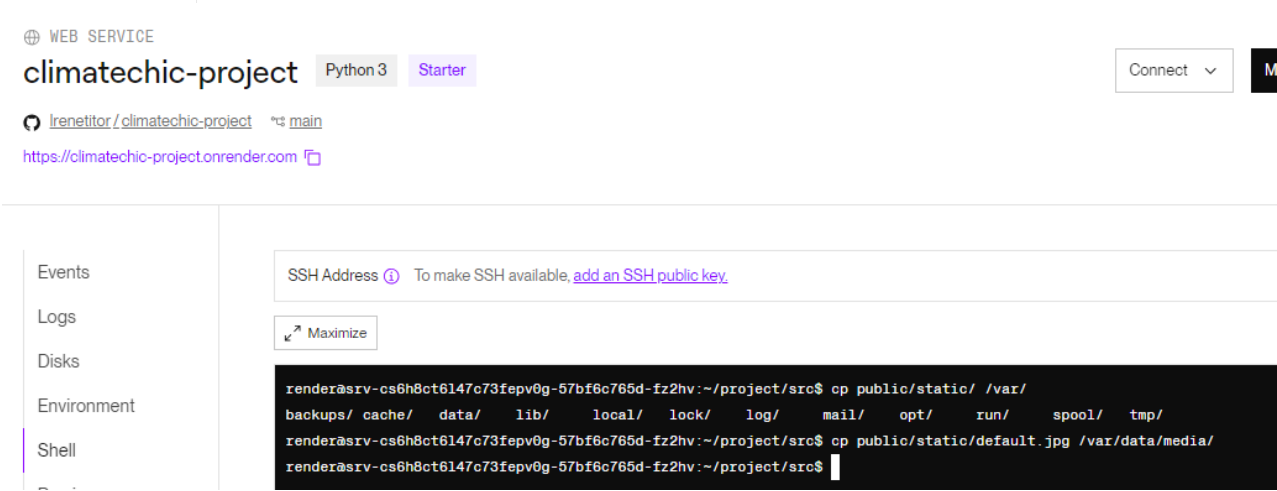
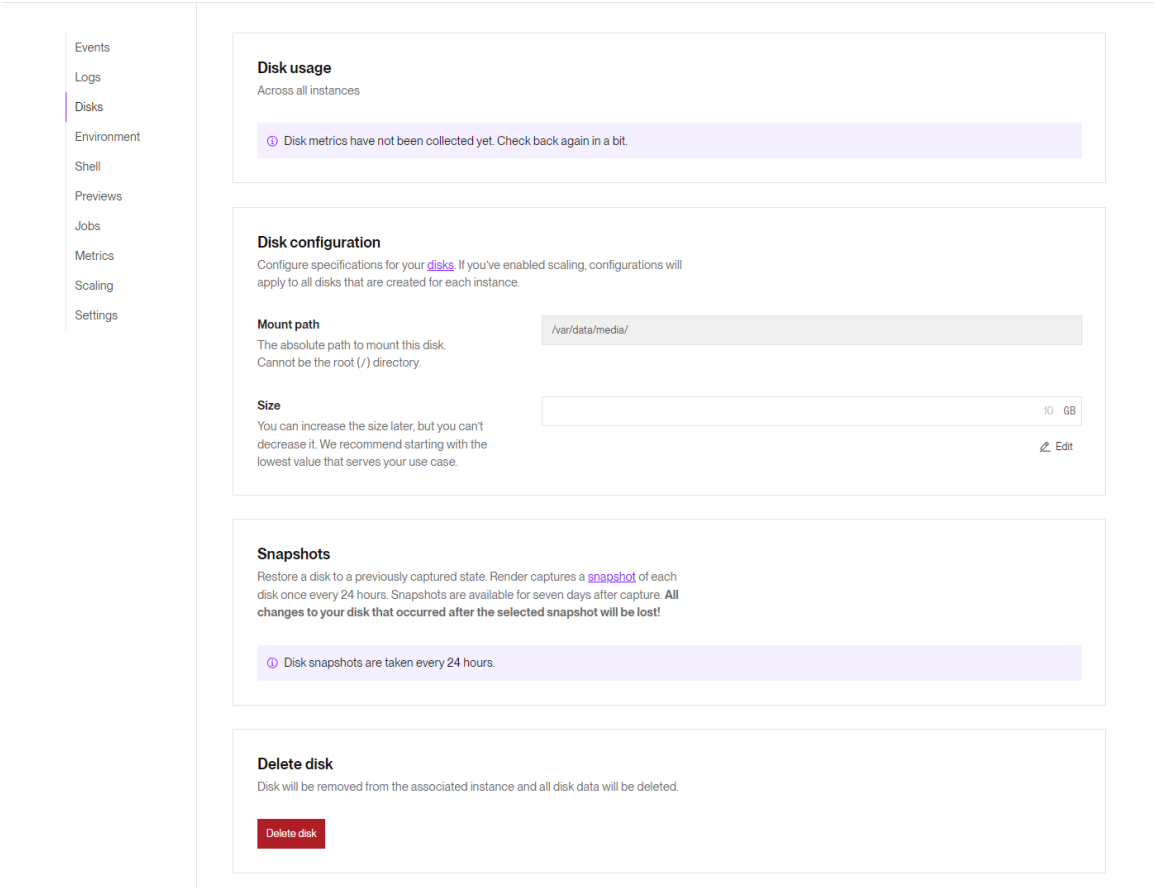
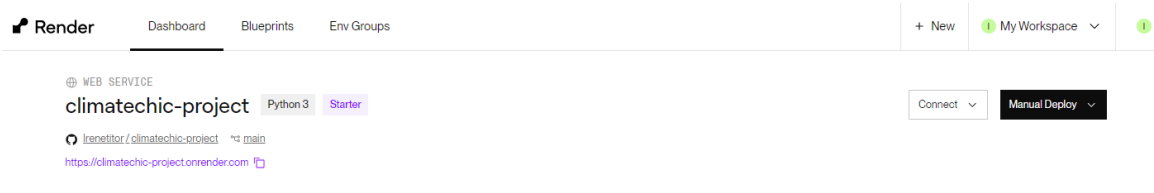
↶ Create environment group

Key	Value
ALLOWED_HOSTS 🔒
DATABASE_URL 🔒
DEBUG 🔒
EMAIL_HOST_PASSWORD 🔒
EMAIL_HOST_USER 🔒
PRODUCT_API_KEY 🔒
SECRET_KEY 🔒
WEATHER_API_KEY 🔒

e. Click on **Create Web Service** button

3.Add disk for mount for media files in Render.

- a. Add disk for mount for media files in Render. Go to disk option in webservice. Set mount path as /var/data/media/ and choose size then submit.
- b. Also copy default.jpg from /public/static to /var/data/media



c.