

1. نشر المشروع (Deployment)

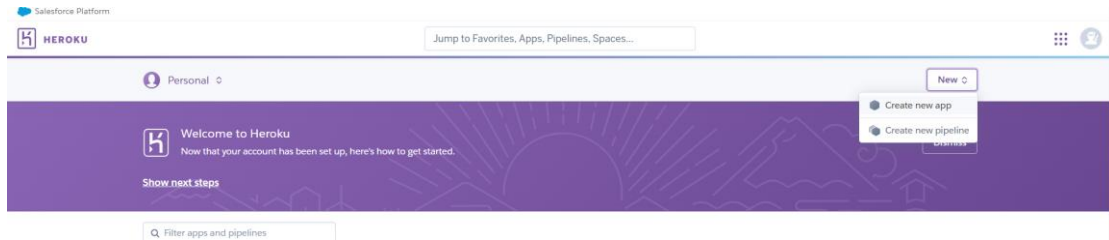
بعد أن تعرفنا على كيفية بناء خادم باستخدام Spring Boot بشكل كامل ستكون خطواتنا الأخيرة هو نشر هذا الخادم على أحد مزودين الخدمة ومن أشهر الأمثلة Heroku والذي سنتعرف كيف يمكننا استخدامه من خلال الخطوات التالية

1.1 : أولا : تجهيز المشروع على Heroku

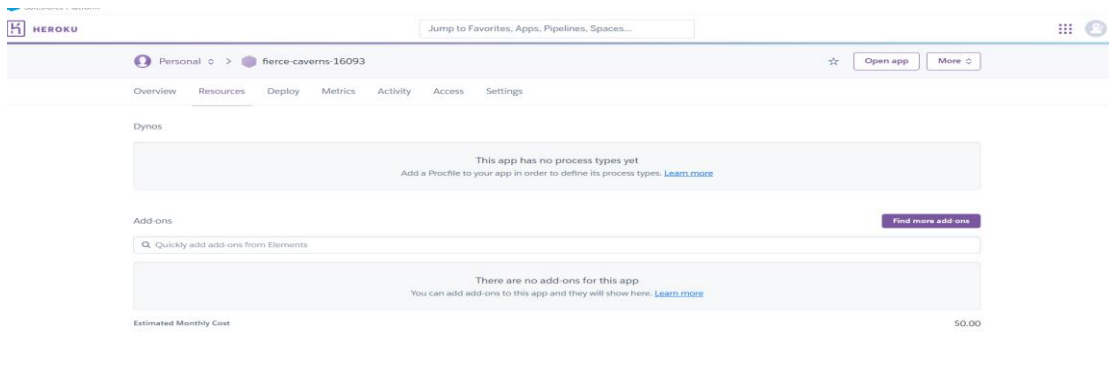
- إنشاء حساب على [Heroku](https://heroku.com)
- تحميل وتنصيب Heroku CLI من Heroku CLI لـ Windows (64-bit)

1.2 : ثانيا : إنشاء المشروع باستخدام Heroku

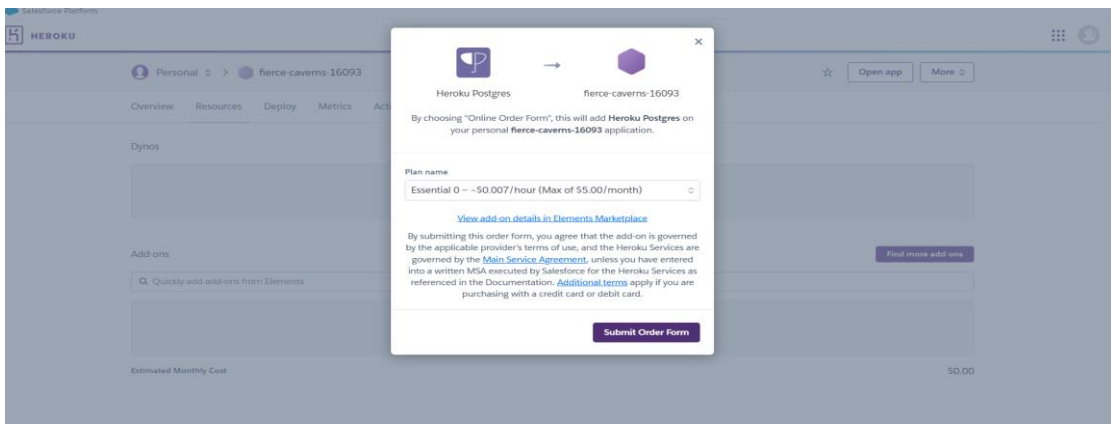
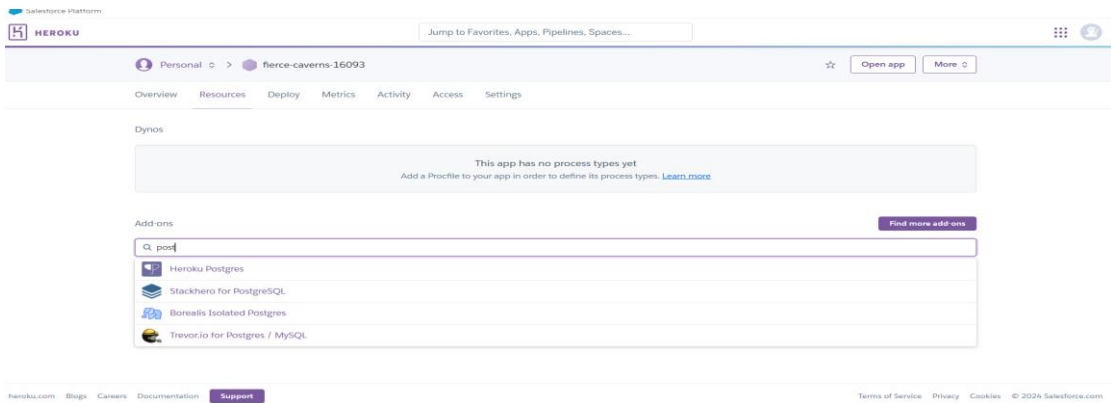
- إنشاء مشروع جديد بالضغط على `new > create new app`



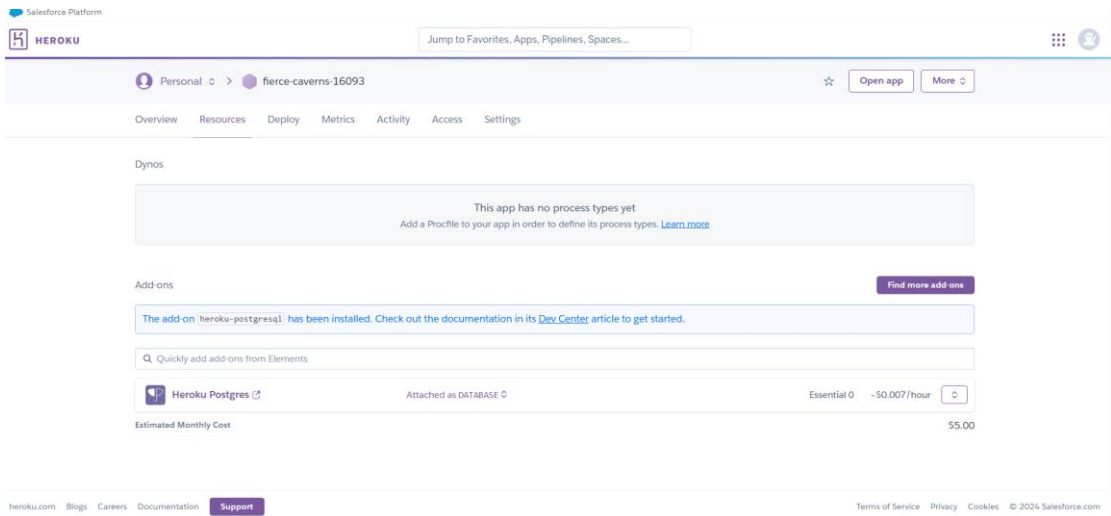
- بعد إنشاء المشروع اذهب الى Resources لإنشاء database




• البحث عن Heroku postgres







• Database created




- للحصول على معلومات database
- اضغط على database وسيتم نقلك الى هذه الصفحة

 DATA






 Databases >  postgresql-symmetrical-21850

SERVICE heroku-postgresql PLAN essential-0 BILLING APP  fierce-caverns-16093

Overview Durability Settings Dataclips

HEALTH

 Available


PRIMARY Yes VERSION 16.2 CREATED 6 minutes ago MAINTENANCE Unsupported  ROLLBACK Unsupported 


UTILIZATION


0 of 20

7.7 MB of 1 GB

0 of 4,000

CONNECTIONS  IN COMPLIANCE


DATA SIZE  IN COMPLIANCE



TABLES  IN COMPLIANCE



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
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- اذهب الى settings

 DATA



 Databases >  postgresql-symmetrical-21850

SERVICE heroku-postgresql PLAN essential-0 BILLING APP  fierce-caverns-16093

Overview Durability Settings Dataclips

ADMINISTRATION

Database Credentials

Get credentials for manual connections to this database.

[View Credentials...](#)

Reset Database

Reset the database to its originally provisioned state, deleting all data inside it.

[Reset Database...](#)

Destroy Database

Destroys the database and all of the data inside it.

[Destroy Database...](#)

SERVICE heroku-postgresql PLAN essential-0 BILLING APP fierce-caverns-16093

Overview Durability Settings Dataclips

ADMINISTRATION

Database Credentials

Get credentials for manual connections to this database. Cancel

Please note that **these credentials are not permanent**.
Heroku rotates credentials periodically and updates applications where this database is attached.

Host	caij57unh724n3.cluster-czrs8kj4isg7.us-east-1.rds.amazonaws.com
Database	ddj6ltn9j3f66v
User	ufi5pp9nugpe3c
Port	5432
Password	p18cac509a4d93e79b545e9066cdd65d726d7ce4aab4c566ed028c9e1cfc229fa
URI	postgres://ufi5pp9nugpe3c:p18cac509a4d93e79b545e9066cdd65d726d7ce4aab4c566ed028c9e1cfc229fa@caij57unh724n3.cluster-czrs8kj4isg7.us-east-1.rds.amazonaws.com:5432/postgres
Heroku CLI	heroku pg:psql postgresql-symmetrical-21850 --app fierce-caverns-16093

- انسخ معلومات database في application properties
- اضافة dependency في ملف pom.xml

```
<dependency>
<groupId>org.postgresql</groupId>
<artifactId>postgresql</artifactId>
<!-- version>42.6.0</version> <!-- or latest version>
</dependency>
```

1.3: ثالثا : رفع المشروع باستخدام Heroku

- لرفع المشروع توجد طريقتين :
- 1. رفع المشروع عن طريق GitHub :
- ربط المشروع في GitHub الخاص بك و repo-name

HEROKU Jump to Favorites, Apps, Pipelines, Spaces...

Personal > spr-dep ☆ Open app More

Overview Resources Deploy Metrics Activity Access Settings

Add this app to a pipeline
Create a new pipeline or choose an existing one and add this app to a stage in it.

Add this app to a stage in a pipeline to enable additional features

Pipelines let you connect multiple apps together and promote code between them. [Learn more](#)

Pipelines connected to GitHub can enable review apps, and create apps for new pull requests. [Learn more](#)

Choose a pipeline

Deployment method

Heroku Git Use Heroku CLI

GitHub Connect to GitHub

Container Registry Use Heroku CLI

Connect to GitHub
Connect this app to GitHub to enable code diffs and deploys.

Search for a repository to connect to

Search

Missing a GitHub organization? [Ensure Heroku Dashboard has team access](#)

- بعد عملية الربط رفع المشروع عن طريق Deploy branch

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

Automatic deploys
Enables a chosen branch to be automatically deployed to this app.

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions [here](#).

Enable automatic deploys from GitHub
Every push to the branch you specify here will deploy a new version of this app. **Deploys happen automatically**; be sure that this branch is always in a deployable state and any tests have passed before you push. [Learn more](#).

Choose a branch to deploy

main

☐ Wait for CI to pass before deploy
Only enable this option if you have a Continuous Integration service configured on your repo.

Enable Automatic Deploys

Manual deploy
Deploy the current state of a branch to this app.

Deploy a GitHub branch
This will deploy the current state of the branch you specify below. [Learn more](#).

Choose a branch to deploy

main

Deploy Branch

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2. رفع المشروع عن طريق Git :

- استخدم الأوامر التالية :

- heroku login
- cd my-project/
- git init
- heroku git:remote -a your app on Heroku
- git add .
- git commit -am "make it better"
- git push heroku master