

HEROKU DEPLOY INSTRUCTION

- 1) Create new repository on GitHub and push **"ParkHangSeo"** source code into
- 2) Sign up a Heroku account: <https://signup.heroku.com>
- 3) Log in Heroku with your account and proceed to:
https://devcenter.heroku.com/login?back_to=%2Farticles%2Fgetting-started-with-nodejs

a) Set up:

Download Heroku CLI

Getting Started on Heroku with Node.js

The screenshot shows the 'Getting Started on Heroku with Node.js' page. On the left is a navigation menu with links: Introduction, Set up (highlighted with a red box), Prepare the app, Deploy the app, View logs, Define a Profile, Scale the app, Declare app dependencies, Run the app locally, Push local changes, Provision add-ons, Start a console, Define config vars, and Provision a database. The main content area is titled 'Set up' and explains that this step involves installing the Heroku Command Line Interface (CLI). It includes a button labeled 'Download the Heroku CLI for...' (highlighted with a red box) and instructions on how to use the CLI after installation. A terminal snippet shows the 'heroku login' command and prompts for email and password. At the bottom right, there is a 'Feedback' button.

Run CMD/ PowerShell as Administrator, log in Heroku and create an app with name as parameter

The screenshot shows a Windows PowerShell terminal window titled 'Administrator: Windows PowerShell'. The terminal output is as follows:
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Windows\system32> heroku login
Enter your Heroku credentials:
Email: derehe619@gmail.com
Password: *****
Logged in as derehe619@gmail.com
PS C:\Windows\system32> heroku create parkhangseo
Creating ... done
https://parkhangseo.herokuapp.com/ | https://git.heroku.com/parkhangseo.git
PS C:\Windows\system32>

b) Provision a database:

Proceed to <https://elements.heroku.com/addons/heroku-postgresql?app=parkhangseo>

The screenshot shows the Heroku Postgres add-on page. On the left, there is a table of pricing plans. On the right, there are configuration options. A red box highlights the 'Install Heroku Postgres' button. Below the button, a terminal snippet shows the command to create the add-on.

Plan	Price
Premium 3	\$750/mo
Standard 4	\$750/mo
Private 3	\$1000/mo
Premium 4	\$1200/mo
Standard 5	\$1400/mo
Private 4	\$1500/mo
Shield 4	\$1800/mo
Standard 6	\$2000/mo
Premium 5	\$2500/mo
Private 5	\$2800/mo
Shield 5	\$3400/mo
Standard 7	\$3500/mo
Premium 6	\$3500/mo
Private 6	\$3600/mo
Shield 6	\$4400/mo

Configuration options:

- Connection Limit: 20
- High Availability
- Rollback
- Rollback: 0 Seconds
- Encryption at Rest
- PostGIS: ☒
- PGBackups: ☒
- PGBackups Retained: 2 Backups
- Heroku Private Spaces
- Burstable Performance

Install Heroku Postgres

```
$ heroku addons:create heroku-postgresql:hobby-dev
```

To provision, copy the snippet into CLI or use the install button above.

The screenshot shows the Heroku Data page for the database 'postgresql-corrugated-15459'. The page includes a navigation bar with 'Overview', 'Durability', and 'Settings'. The 'Overview' tab is selected. The 'HEALTH' section shows the database is 'Available'. The 'UTILIZATION' section shows the database has 0 of 20 connections, 1,043 of 10,000 rows, 9.5 MB data size, and 21 tables.

Heroku Data

Datastores > postgresql-corrugated-15459

SERVICE heroku-postgresql PLAN hobby-dev BILLING APP parkhangseo

Overview Durability Settings

HEALTH

✓ Available

PRIMARY Yes VERSION 10.1 CREATED 12 hours ago MAINTENANCE Unsupported ROLLBACK Unsupported

UTILIZATION

0 of 20	1,043 of 10,000	9.5 MB	21
CONNECTIONS	ROWS IN COMPLIANCE	DATA SIZE	TABLES

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.16299.192]
(c) 2017 Microsoft Corporation. All rights reserved.

E:\Heroku Attendance\db>heroku login
Enter your Heroku credentials:
Email: derehe619@gmail.com
Password: *****
Logged in as derehe619@gmail.com

E:\Heroku Attendance\db>heroku pg:psql -a parkhangseo < q1dd-postgre.sql
--> Connecting to postgresql-horizontal-42894
SET
SET
SET
SET
SET
SET
SET
SET
DROP TABLE
CREATE TABLE
DROP TABLE
CREATE TABLE
DROP TABLE
CREATE TABLE
DROP TABLE
CREATE TABLE
DROP TABLE
CREATE TABLE
DROP TABLE
CREATE TABLE
```

4) Change your database credentials in 2 files

Heroku Data

Databases > postgresql-horizontal-42894

SERVICE heroku-postgresql PLAN hobby-dev BILLING APP parkhangseo

Overview

Durability

Settings

ADMINISTRATION

Database Credentials

Get credentials for manual connections to this database.

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

Host	ec2-54-235-240-126.compute-1.amazonaws.com
Database	d2ld0e16bobq4e
User	bcdxrwogfbrprg
Port	5432
Password	2851fcbcf1e6b90a9fcee938e5c8c7422e23d02876f4c61d61103f824b97428c
URI	postgres://bcdxrwogfbrprg:2851fcbcf1e6b90a9fcee938e5c8c7422e23d02876f4c61d61103f824b97428c@ec2-54-235-240-126.compute-1.amazonaws.com:5432/d2ld0e16bobq4e
Heroku CLI	heroku pg:psql postgresql-horizontal-42894 --app parkhangseo

Cancel

global (heroku).js

View

```
@@ -5,13 +5,15 @@ module.exports = {
  5      password: '',
  6      database: 'q1dd'
  7    },
  8    db_postgres: {
  9      host: 'ec2-54-247-166-129.eu-west-1.compute.amazonaws.com',
 10      user: 'jrfvgjdydwutqqq',
 11      password: '6896b2752d1eba4e8e6793b4aef3d7424b75ecc5354dcf299fb003ca00aff764',
 12    },
 13    + db_postgres: {
 14      + host: 'ec2-23-23-243-111.compute-1.amazonaws.com',
 15      + user: 'wuztsdvswws1wr1',
 16      + password: 'dd13b6d16c732825d570a3749aacd7f5064db330898a8559cf34b73c5837fe10',
 17      + port: '5432',
 18      + database: 'dfgju67jiw9q22'
 19    },
 20  },
 21  + //db_postgres: {
 22  + // host: 'localhost',
 23  + // user: 'postgres',
 24  + // password: ''
 25  + // },
 26}
```

global.js

View

```
@@ -8,9 +8,9 @@ module.exports = {
  8      database: 'q1dd'
  9    },
 10    db_postgres: {
 11      host: 'ec2-54-247-166-129.eu-west-1.compute.amazonaws.com',
 12      user: 'jrfvgjdydwutqqq',
 13      password: '6896b2752d1eba4e8e6793b4aef3d7424b75ecc5354dcf299fb003ca00aff764',
 14    },
 15    + db_postgres: {
 16      + host: 'ec2-23-23-243-111.compute-1.amazonaws.com',
 17      + user: 'wuztsdvswws1wr1',
 18      + password: 'dd13b6d16c732825d570a3749aacd7f5064db330898a8559cf34b73c5837fe10',
 19      + port: '5432',
 20      + database: 'dfgju67jiw9q22'
 21    },
 22  },
 23}
```

- 5) Change your host address corresponding to your app address

Basically, you will need to perform this commit on 10 files:


<https://github.com/SynneKDoG/ParkHangSeo/commit/9071e7d7e55882c22f2679a4850072f6e81555d3>

Launch.json - This is the first changed file and it used to be an effective debugger in VS Code. However, debugging by WebStorm is now recommended by specialists for greatest performance.


<https://www.jetbrains.com/webstorm/>

change host

🔗 master

 SynneKDoG committed 12 hours ago 1 parent 621c9c1 commit 9071e

Showing **10 changed files** with **21 additions** and **21 deletions**.

4  .vscode/launch.json

@@ -6,7 +6,7 @@	
6	6
7	7
8	8
9	-
9	+
10	10
11	11
12	12
@@ -16,7 +16,7 @@	
16	16
17	17
18	18
19	-
19	+
20	20
21	21
22	22

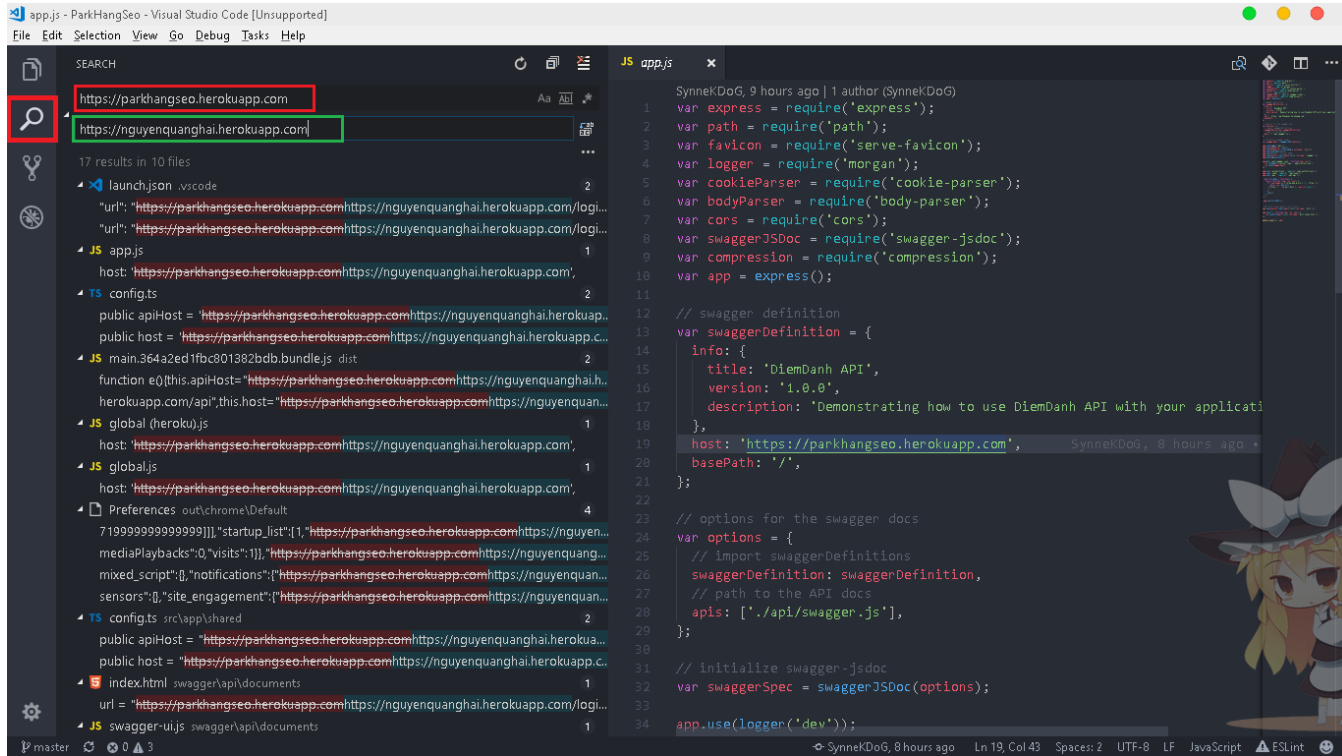
```
"type": "chrome",
"request": "attach",
"port": 9222,
"url": "https://hcmus-attendance.herokuapp.com/login",
"url": "https://parkhangseo.herokuapp.com/login",
"sourceMaps": true,
"trace": "verbose",
"webRoot": "${workspaceRoot}/src/app",

"type": "chrome",
"request": "launch",
"port": 9222,
"url": "https://hcmus-attendance.herokuapp.com/login",
"url": "https://parkhangseo.herokuapp.com/login",
"sourceMaps": true,
"trace": "verbose",
"webRoot": "${workspaceRoot}/src/app",
```

It's kind of complicated so we will perform this trick instead:

FIND ALL related to old host and **REPLACE ALL** with your new host

(**Careful:** type your host without **“/”** at the end, or you'll get **“Server Error”** when deploy and no fucking clue while debugging during 2 days)



The screenshot shows the Visual Studio Code interface. On the left, the SEARCH panel is open, displaying 17 results in 10 files. The search term is `https://parkhangseo.herokuapp.com`, which is highlighted in a red box. Below it, the replacement term `https://nguyenquanghai.herokuapp.com` is shown in a green box. The search results list files like `launch.json`, `app.js`, `config.ts`, `main.364a2ed1fbc801382bdb.bundle.js`, `global (heroku).js`, `global.js`, and `Preferences`. The `app.js` file is selected, and its content is visible in the editor on the right. The code is a Node.js Express application with Swagger documentation. The `host` property in the Swagger definition is highlighted in green, matching the replacement term in the search panel. The status bar at the bottom indicates the file is `app.js`, the editor is at line 19, column 43, and the file encoding is UTF-8.

Then, commit changes and push them to master branch.

- 6) You can modify your accounts in **...\\ParkHangSeo\\api\\seed.js** manually

An example to edit Admin:

<https://github.com/SynneKDoG/ParkHangSeo/commit/1a9284e378c60f0154436c1f3e228f0236b78419>



```
edit Admin
master

SynneKDoG committed 8 hours ago 1 parent 9071e7d commit 1a9284e378c60f0154436c1f3e228f0236b78419

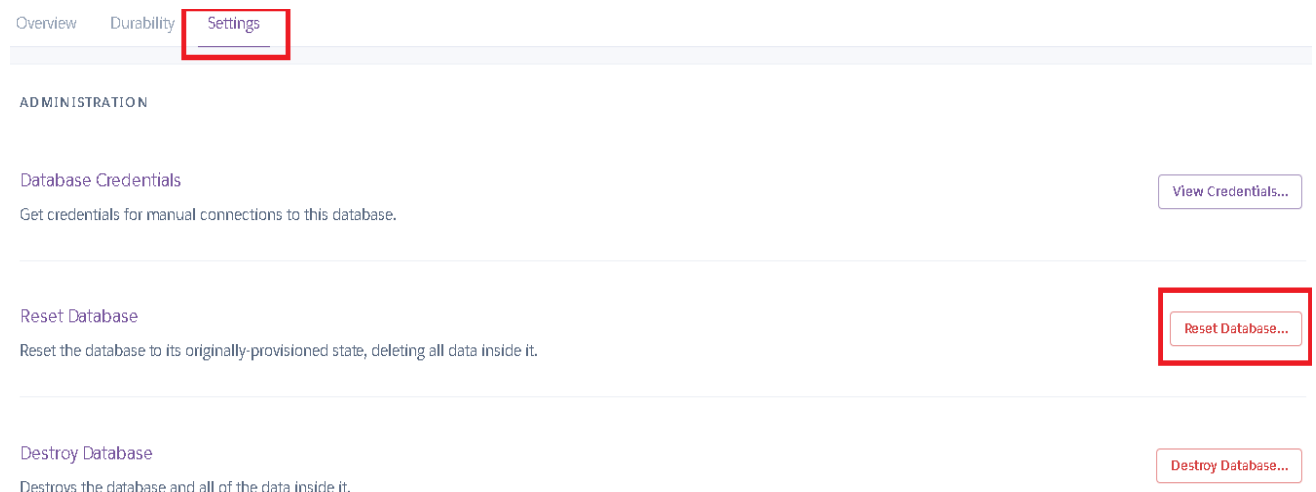
Showing 1 changed file with 2 additions and 2 deletions.

4 api/seed.js

@@ -319,7 +319,7 @@ var insert_users = [
319 319 ['Lê Anh', 'Thảo', 'lathao@fit.hcmus.edu.vn', '01228718705', bcrypt.hashSync('lathao', 10), 3], //168
320 320 ['Nguyễn Thị Minh', 'Phúc', 'ntmphuc@fit.hcmus.edu.vn', '01228718705', bcrypt.hashSync('ntmphuc', 10), 3], //169
321 321
322 - ['Super', 'Admin', 'admin@fit.hcmus.edu.vn', '01228718705', bcrypt.hashSync('admin', 10), 4], //170
322 + ['Park Hang', 'Seo', 'parkhangseo@fit.hcmus.edu.vn', '01228718705', bcrypt.hashSync('korea', 10), 4], //170
323 323
324 324 //['Huỳnh Hữu', 'Nghĩa', '1412572@student.hcmus.edu.vn', '01228718705', bcrypt.hashSync('1353019', 10), 1], //171
325 325 ];
@@ -1361,7 +1361,7 @@ var seeding_postgres = function(res) {
1361 1361 };
1362 1362
1363 1363 var insert_admin = [
1364 - ['Super', 'Admin', 'admin@fit.hcmus.edu.vn', '01228718705', bcrypt.hashSync('admin', 10), 4], //1
1364 + ['Park Hang', 'Seo', 'parkhangseo@fit.hcmus.edu.vn', '01228718705', bcrypt.hashSync('korea', 10), 4], //1
1365 1365 ];
1366 1366 var seeding_admin = function(res) {
1367 1367 pool_postgres.connect(function(error, connection, done) {
```

Then, commit changes and push them to master branch.

Each time you modify accounts in seed.js, you 'll need to reset your database, run your sql script into your Heroku database again (part b in step 3 but without installing another Postgres) and then perform step 9 to seed into database again !



Overview Durability **Settings**

ADMINISTRATION

Database Credentials [View Credentials...](#)

Get credentials for manual connections to this database.

Reset Database [Reset Database...](#)

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

Destroy Database [Destroy Database...](#)

Destroys the database and all of the data inside it.

7) Deploy source code into Heroku

cd into ParkHangSeo folder

Run these commands:

```
heroku git:remote -a parkhangseo  
git push Heroku master
```

```
C:\Windows\System32\cmd.exe  
E:\ParkHangSeo>heroku git:remote -a parkhangseo  
set git remote heroku to https://git.heroku.com/parkhangseo.git  
E:\ParkHangSeo>git push heroku master  
Counting objects: 2146, done.  
Delta compression using up to 4 threads.  
Compressing objects: 100% (1212/1212), done.  
Writing objects: 100% (2146/2146), 13.85 MiB | 201.00 KiB/s, done.  
Total 2146 (delta 503), reused 2146 (delta 503)  
remote: Compressing source files... done.  
remote: Building source:  
remote:  
remote: -----> Node.js app detected  
remote:  
remote: -----> Creating runtime environment  
remote:  
remote:       NPM_CONFIG_LOGLEVEL=error  
remote:       NPM_CONFIG_PRODUCTION=true  
remote:       NODE_VERBOSE=false  
remote:       NODE_ENV=production  
remote:       NODE_MODULES_CACHE=true  
remote:  
remote: -----> Installing binaries  
remote:       engines.node (package.json):  6.9.2  
remote:       engines.npm (package.json):   3.10.9  
remote:  
remote:       Resolving node version 6.9.2...  
remote:       Downloading and installing node 6.9.2...  
remote:       npm 3.10.9 already installed with node  
remote:  
remote: -----> Restoring cache  
remote:       Skipping cache restore (not-found)  
remote:  
remote: -----> Building dependencies  
remote:       Installing node modules (package.json + package-lock)
```


8) Connect your project on GitHub with Heroku and activate auto deploy

The screenshot shows the Heroku dashboard for the application 'parkhangseo'. The deployment method is set to 'GitHub', which is highlighted with a red box. Below this, the 'App connected to GitHub' section shows the app is connected to the repository 'SynneKDoG/ParkHangSeo', also highlighted with a red box. The 'Automatic deploys' section shows that automatic deploys from the 'master' branch are enabled, highlighted with a red box. A 'Disable Automatic Deploys' button is visible at the bottom of this section.

Deployment method

Heroku Git
Use Heroku CLI

GitHub
Connected

Dropbox
Connect to Dropbox

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to SynneKDoG/ParkHangSeo

- ✓ Releases in the [activity feed](#) link to GitHub to view commit diffs
- ✓ Automatically deploys from master

Automatic deploys

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

Automatic deploys from master are enabled

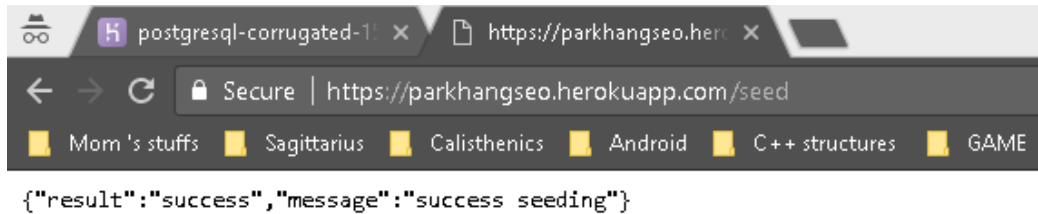
Every push to master will deploy a new version of this app. **Deploys happen automatically** always in a deployable state and any tests have passed before you push. [Learn more.](#)

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

Disable Automatic Deploys

- 9) Open browser and proceed to <https://parkhangseo.herokuapp.com/seed>

When you receive **“Result” : “Success”**, data will be imported into your PostgreSQL database on Heroku



- 10) Heroku supports GitHub branch deploy so that you can test your improvement before applying to master branch

Automatic deploys

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

✓ Automatic deploys from `master` are enabled

Every push to `master` will deploy a new version of this app. **Deploys happen automatically**: be sure that this branch in GitHub is always in a deployable state and any tests have passed before you push. [Learn more.](#)

☐ Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

Disable 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.](#)

`master`

Deploy Branch

Reference: <https://github.com/SynneKDoG/ParkHangSeo>

Need support, contact: <https://www.facebook.com/can.cao.tri>

Remember, we won't answer ridiculous questions -_-

^ GOOD LUCK ^