Create a GitHub repository before or wait until giving the application a name during the Heroku create process. After the GitHub repository is created run the following command from Git-Bash.

git clone https://github.com/chrisg4github/Project-GW.git

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku login

Enter your Heroku credentials:

Email: chrisguthrie1600@comcast.net

Password: \*\*\*\*\*\*\*\*\*\*\*\*

Logged in as chrisguthrie1600@comcast.net

C:\cd Users\Chrisg\BootCampClasswork\Project-GW>

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku create

Creating app... done, nameless-sea-62811

https://nameless-sea-62811.herokuapp.com/ | https://git.heroku.com/nameless-sea-

62811.git

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku rename Project-GW

Renaming nameless-sea-62811 to Project-GW... !

! Name must start with a letter and can only contain lowercase letters,

! numbers, and dashes.

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku rename project-gw

Renaming nameless-sea-62811 to project-gw... done

https://project-gw.herokuapp.com/ | https://git.heroku.com/project-gw.git

Git remote heroku updated

! Don't forget to update git remotes for all other local checkouts of the

! app.

C:\Users\Chrisg\BootCampClasswork\Project-GW>git remote -v

heroku https://git.heroku.com/project-gw.git (fetch)

heroku https://git.heroku.com/project-gw.git (push)

origin https://github.com/chrisg4github/Project-GW.git (fetch)

origin https://github.com/chrisg4github/Project-GW.git (push)

# Create the postgres database hobby-dev is a free database level – this is an extremely size limited (in terms of record count and bytes) database.

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku addons:create heroku-postgresql:hobby-dev

Creating heroku-postgresql:hobby-dev on project-gw... free

Database has been created and is available

! This database is empty. If upgrading, you can transfer

! data from another database with pg:copy

Created postgresql-animated-62565 as DATABASE\_URL

Use heroku addons:docs heroku-postgresql to view documentation

# List any heroku addons you have set up

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku addons

Add-on Plan Price State

--------------------------------------------- --------- ----- -------

heroku-postgresql (postgresql-animated-62565) hobby-dev free created

+- as DATABASE

The table above shows add-ons and the attachments to the current app (project-gw

) or other apps.

# List information about the database set up

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku pg:info

=== DATABASE\_URL

Plan: Hobby-dev

Status: Available

Connections: 0/20

PG Version: 9.6.5

Created: 2017-11-14 18:52 UTC

Data Size: 7.1 MB

Tables: 0

Rows: 0/10000 (In compliance)

Fork/Follow: Unsupported

Rollback: Unsupported

Continuous Protection: Off

Add-on: postgresql-animated-62565

# Check the contents of the DATABASE\_URL

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku config

=== project-gw Config Vars

DATABASE\_URL: postgres://zveqkcpjroxbce:44a0357267af92609c0117ccd9c262d8746e69c5

980140d843cdfef853069cb8@ec2-50-17-253-3.compute-1.amazonaws.com:5432/d7b3o1itpode38

Exit heroku.

Log into the local database:

# Local verification of the database gw\_db (hawaii tables)

Chrisg@Chrisg-PC MINGW64 ~/bootcampclasswork/Project-GW (master)

$ psql -d gw\_db -U postgres

Password for user postgres:

psql (9.6.4)

WARNING: Console code page (437) differs from Windows code page (1252)

8-bit characters might not work correctly. See psql reference

page "Notes for Windows users" for details.

Type "help" for help.

gw\_db=# \dt

List of relations

Schema | Name | Type | Owner

--------+---------+-------+----------

public | station | table | postgres

public | weather | table | postgres

(2 rows)

gw\_db=# \q (to quit psql)

**Push local postgres to heroku postgres:**

**# Log into heroku to push the local database to heroku database**

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku login

Enter your Heroku credentials:

Email: chrisguthrie1600@comcast.net

Password: \*\*\*\*\*\*\*\*\*\*\*\*

Logged in as chrisguthrie1600@comcast.net

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku pg:push gw\_db DATABASE\_URL --app project-gw

heroku-cli: Pushing gw\_db ---> postgresql-animated-62565

'env' is not recognized as an internal or external command,

operable program or batch file.

**Command to push database to heroku with user id and password:**

PGUSER=postgres PGPASSWORD='password' heroku pg:push gw\_db DATABASE\_URL --app project-gw

**# View heroku postgres log**

heroku logs -p postgres -t

**# Output of pg:push attempts:**

$ heroku pg:push gw\_db DATABASE\_URL --app project-gw

heroku-cli: Pushing gw\_db ---> postgresql-animated-62565

pg\_restore: [archiver] input file is too short (read 0, expected 5)

$ PGUSER=postgres PGPASSWORD='password' heroku pg:push gw\_db DATABASE\_URL --app project-gw

heroku-cli: Pushing gw\_db ---> postgresql-animated-62565

pg\_dump: [archiver (db)] connection to database "gw\_db" failed: FATAL: password authentication failed for user "postgres"

pg\_restore: [archiver] input file is too short (read 0, expected 5)

**PostgreSQL dump and restore commands:**

**Examples of pg\_dump commands:**

PGPASSWORD=mypassword pg\_dump -Fc --no-acl --no-owner -U postgres gw\_db > gw\_db11142017.dump

pg\_dump -Fc --no-owner -U postgres gw\_db > gw\_db\_11142017.dump

pg\_dump -Fc gw\_db > gw\_db\_11142017.dump

**Examples of pg\_restore:**

pg\_restore --verbose --clean --no-acl --no-owner -U postgres -d gw\_db gw\_db\_1142017.dump

heroku pg:backups:restore 'https://s3.amazonaws.com/me/items/3H0q/mydb.dump' DATABASE\_URL

pg\_restore -U <username> -d <dbname> -1 <filename>.dump

PGPASSWORD=<PASS> pg\_restore --verbose --clean --no-acl --no-owner -h <HOSTNAME> -U <USER> -d <DATABASE> -p <PORT> <FILEPATH>

Ticket #530343 - Not able to move my local postgres database to Heroku.

<https://help.heroku.com/tickets/530343?n=1>

**Heroku Support said to use the pg\_backup:restore process:**

heroku pg:backups:restore 'https://s3-us-west-1.amazonaws.com/chrisg-aws-bucket/gw\_db\_11142017.dump' DATABASE\_URL

chrisg-aws-bucket - my AWS S3 bucket gw\_db\_11142017.dump

S3 Link: https://s3-us-west-1.amazonaws.com/chrisg-aws-bucket/gw\_db\_11142017.dump

Chrisg@Chrisg-PC MINGW64 ~/bootcampclasswork/Project-GW (master)

$ heroku pg:backups:restore 'https://s3-us-west-1.amazonaws.com/chrisg-aws-bucket/gw\_db\_11142017.dump' DATABASE\_URL

! WARNING: Destructive Action

! This command will affect the app project-gw

! To proceed, type project-gw or re-run this command with --confirm

! project-gw

> project-gw

Starting restore of https://s3-us-west-1.amazonaws.com/chrisg-aws-bucket/gw\_db\_11142017.dump to postgresql-animated-62565... done

Use Ctrl-C at any time to stop monitoring progress; the backup will continue restoring.

Use heroku pg:backups to check progress.

Stop a running restore with heroku pg:backups:cancel.

Restoring... done

Tested the above restore and I was able to query the tables in Heroku pg:psql.

**Delete data from heroku postgres (too many rows for hobby-dev level):**

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku login

Enter your Heroku credentials:

Email: chrisguthrie1600@comcast.net

Password: \*\*\*\*\*\*\*\*\*\*\*\*

Logged in as chrisguthrie1600@comcast.net

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku pg:psql

--> Connecting to postgresql-animated-62565

psql (9.6.4, server 9.6.5)

SSL connection (protocol: TLSv1.2, cipher: ECDHE-RSA-AES256-GCM-SHA384, bits: 25

6, compression: off)

Type "help" for help.

project-gw::DATABASE=> \dt

List of relations

Schema | Name | Type | Owner

--------+---------+-------+----------------

public | station | table | zveqkcpjroxbce

public | weather | table | zveqkcpjroxbce

(2 rows)

project-gw::DATABASE=> select count(\*) from weather;

count

-------

18103

(1 row)

project-gw::DATABASE=> select count(\*) from weather where wdate < '2014-01-01';

count

-------

10190

(1 row)

project-gw::DATABASE=> delete from weather where wdate < '2014-01-01';

DELETE 10190

project-gw::DATABASE=> commit;

WARNING: there is no transaction in progress

COMMIT

project-gw::DATABASE=> select count(\*) from weather;

count

-------

7913

(1 row)

project-gw::DATABASE=> \q

**Get the heroku postgres credentials using the command:**

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku pg:credentials:url

Connection information for default credential.

**Connection info string:**

"dbname=d7b3o1itpode38 host=ec2-50-17-253-3.compute-1.amazonaws.com port=5432

user=zveqkcpjroxbce password=44a0357267af92609c0117ccd9c262d8746e69c5980140d843

cdfef853069cb8 sslmode=require"

**Connection URL *aka* DATABASE\_URL:**

postgres://zveqkcpjroxbce:44a0357267af92609c0117ccd9c262d8746e69c5980140d843c

dfef853069cb8@ec2-50-17-253-3.compute-1.amazonaws.com:5432/d7b3o1itpode38

**# Pushing code to GitHub first and then to the Heroku repo:**

To deploy your app to Heroku, you typically use the git add, commit, push commands

to push the code from your local repository’s master branch to your heroku remote.

$ git add .

$ git commit -m "Move new files to GitHub"

$ git push -u origin master

**Then push the files to Heroku master:**

$ git push heroku master

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**# Error message clean up by uninstalling and then reinstalling Heroku CLI**

C:\Users\Chrisg\BootCampClasswork\Project-GW>heroku login

! Error parsing plugin

! C:\Users\Chrisg\AppData\Local\heroku\client\node\_modules\heroku-pg

! Unexpected token ;

! Error parsing plugin

! C:\Users\Chrisg\AppData\Local\heroku\client\node\_modules\heroku-pipelines

! Error parsing

! C:\Users\Chrisg\AppData\Local\heroku\client\node\_modules\heroku-pipelines\

package.json:

! Unexpected token m in JSON at position 1

Enter your Heroku credentials:

Email:

**Heroku Weather Visualization or D3 app:**

https://project-gw.herokuapp.com/

**Test URLs for the Hawaii API test application:**

https://project-gw.herokuapp.com/api/v1.0/stations

https://project-gw.herokuapp.com/api/v1.0/precipitation