

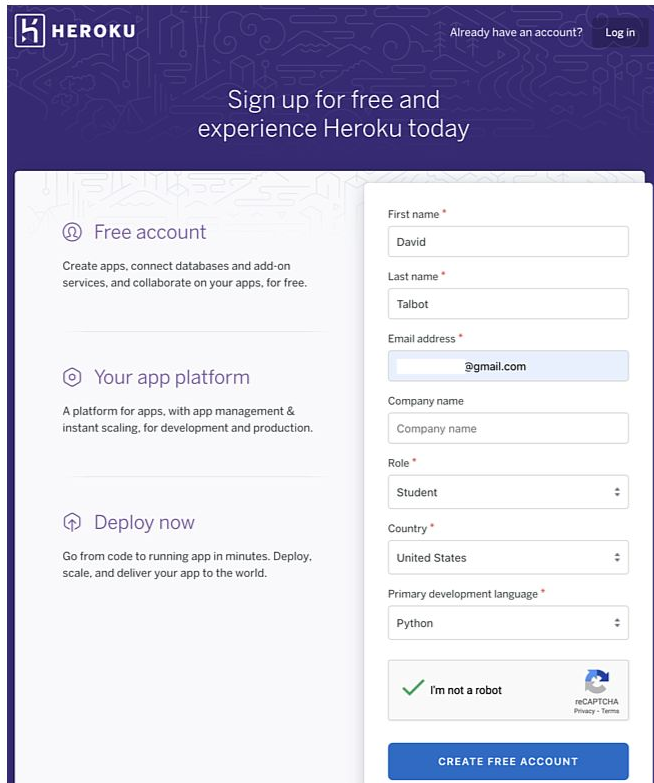
Database Provisioning

With Heroku (follow-along not required)

Cloud platform

Offers compute and storage resources to rent


Chooses "**convention over configuration**" – sensible default settings are provided, thus requiring less work to get started




HEROKU

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Sign up for free and experience Heroku today

 **Free account**

Create apps, connect databases and add-on services, and collaborate on your apps, for free.

 **Your app platform**

A platform for apps, with app management & instant scaling, for development and production.

 **Deploy now**

Go from code to running app in minutes. Deploy, scale, and deliver your app to the world.

First name *

Last name *


Email address *

Company name

Role *

Country *

Primary development language *

☒ I'm not a robot 

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CREATE FREE ACCOUNT



You don't have any apps yet

Every app and pipeline you create or become a collaborator on will appear here

Create new app

Looking for help getting started?

Get started by reading one of our language guides in the Dev Center

Choose a language guide... ▾



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



Create New App

App name

nucamp-pgdemo is available

Choose a region

United States

Add to pipeline...

Create app



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



Personal > nucamp-pgdemo



Open app

More >

Overview

Resources

Deploy

Metrics

Activity

Access

Settings

Dynos

This app has no process types yet

Add a Procfile to your app in order to define its process types. [Learn more](#)

Add-ons

Find more add-ons

🔍 Quickly add add-ons from Elements

There are no add-ons for this app

You can add add-ons to this app and they will show here. [Learn more](#)



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



Dynos

This app has no process types yet

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Add-ons

Find more add-ons

Q postgres



Draxlr for Postgres / MySQL



Heroku Postgres



Trevor.io for Postgres / MySQL

Estimated monthly cost

\$0.00



Heroku Postgres



nucamp-pgdemo

By choosing "Online Order Form", this will add **Heroku Postgres** on your personal **nucamp-pgdemo** application.

Plan name

Hobby Dev - Free

[View add-on details in Elements Marketplace](#)

By submitting this order form, you agree that the Add-on is governed by the applicable provider's terms of use, and the Heroku Services are governed by the [Salesforce Master Subscription Agreement](#), unless (except for free customers) you have entered into a written Master Subscription Agreement executed by SFDC for the Heroku Services as referenced in the Documentation.

Submit Order Form

Dynos


This app has no process types yet

Add a Procfile to your app in order to define its process types. [Learn more](#)

Add-ons [Find more add-ons](#)

The add-on `heroku-postgresql` has been installed. Check out the documentation in its [Dev Center](#) article to get started.

Q Quickly add add-ons from Elements

 Heroku Postgres ↗	Attached as DATABASE ↕	Hobby Dev	Free ↕
Estimated Monthly Cost			\$0.00


nucamp-pgdemo · Resources | H x

postgresql-clear-93032 | Heroku x


+



data.heroku.com/datastores/4aba3313-feed-4b47-a88e-738ab790e1e9#administration



🔍 ☆



Salesforce Platform


 DATA



 Datastores >  postgresql-clear-93032

SERVICE heroku-postgresql

PLAN hobby-dev

BILLING APP  nucamp-pgdemo

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...

heroku.com

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nucamp-pgdemo · Resources | Heroku

postgresql-clear-93032 | Heroku

data.heroku.com/datastores/4aba3313-feed-4b47-a88e-738ab790e1e9#administration

Salesforce Platform

DATA

Datastores > postgresql-clear-93032

SERVICE heroku-postgresql PLAN hobby-dev BILLING APP nucamp-pgdemo

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

ec2-34-233-187-36.compute-1.amazonaws.com

Database

danodpusl|hf0e

User

bmcmbqqfil|phv

Port

5432

Password

5ac34b66b6f1e1fb93096dbeb683000fb7f4f7b24886e51ef2295e116fc8a39a

URI

postgres://bmcmbqqfil|phv5ac34b66b6f1e1fb93096dbeb683000fb7f4f7b24886e51ef2295e116fc8a39a@ec2-34-233-187-36.compute-1.amazonaws.com5432danodpusl|hf0e

Heroku CLI

heroku pg:psql postgresql-clear-93032 --app nucamp-pgdemo



pgAdmin

Management Tools for PostgreSQL

Feature rich | Maximises PostgreSQL | Open Source

pgAdmin is an Open Source administration and management tool for the PostgreSQL database. It includes a graphical administration interface, an SQL query tool, a procedural code debugger and much more. The tool is designed to answer the needs of developers, DBAs and system administrators alike.

Quick Links



Add New Server



Configure pgAdmin

Getting Started



- Browser
- Servers (1)
 - nucamp
 - Databases (6)
 - Login/Group Roles
 - Tablespaces

Create - Server

General Connection SSL SSH Tunnel Advanced

Name

heroku

Server group

Servers

Background

X

Foreground

X

Connect now?

☒

Comments

Either Host name, Address or Service must be specified.

i ?

Cancel

Reset

Save

Dependents

Source

for the PostgreSQL database. It includes a
al code debugger and much more. The tool is
administrators alike.

Configure pgAdmin

- Browser
- Servers (1)
 - nucamp
 - Databases (6)
 - Login/Group Roles
 - Tablespaces

Create - Server

General Connection SSL SSH Tunnel Advanced

Host name/address

ec2-34-233-187-36.compute-1.amazonaws.com

Port

5432

Maintenance database

danodpusijhf0e

Username

bmcmbqqfiiijphv

Password

.....

Save password?

☒

Role

Service

?

Cancel


Reset


Save

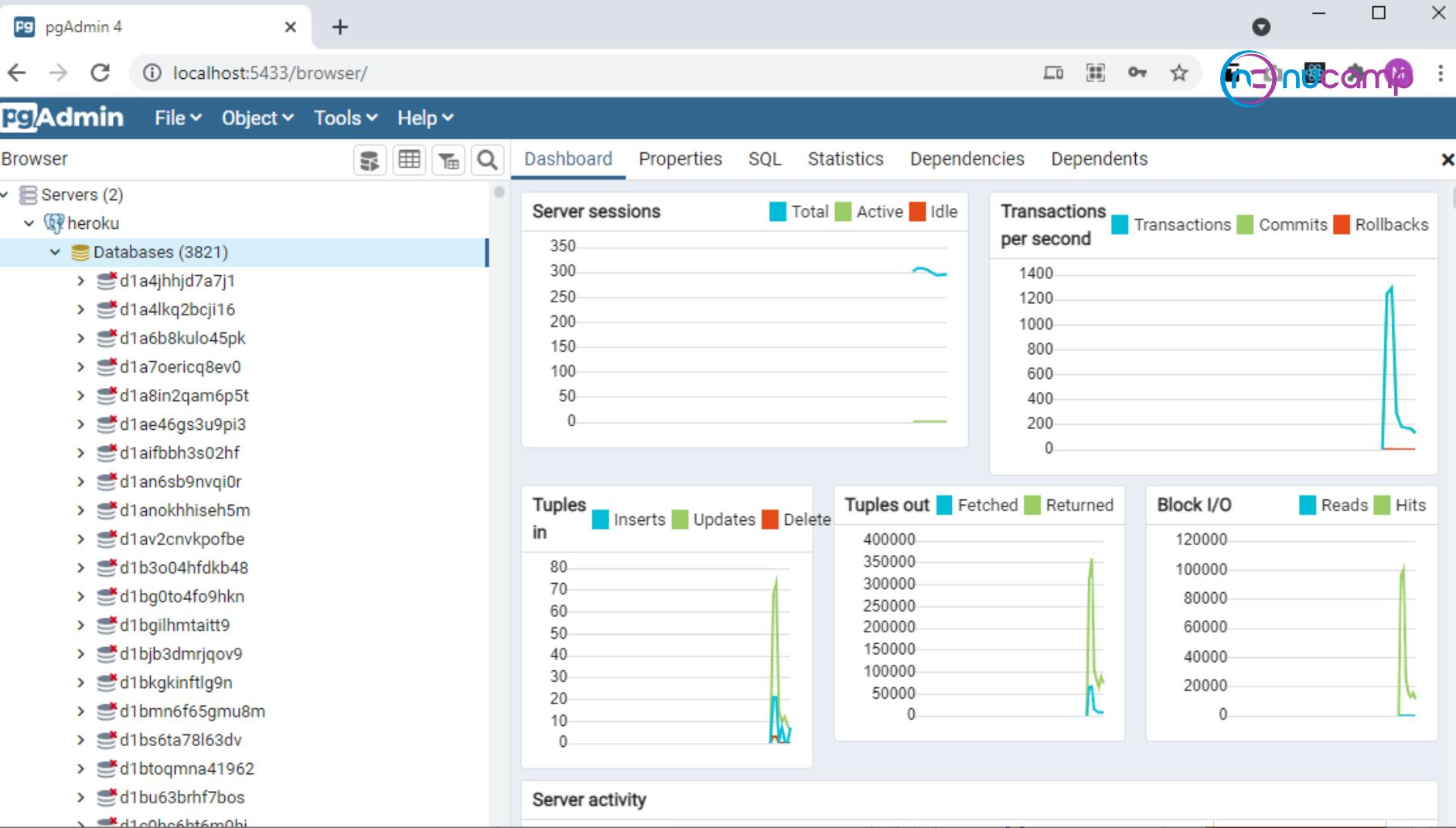
Dependents

Source

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Configure pgAdmin





pgAdmin 4

localhost:5433/browser/

pgAdmin

FileObjectToolsHelp

Browser

danodpusijhf0e

Casts

Catalogs

Event Triggers

Extensions

Foreign Data Wrappers

Languages

Publications

Schemas

Subscriptions

danp4boa7b6k01

danpuv9rumijma

danrviju24r434

dansa3efk08qgc

danu4tdd7np9mm

dao3nb2jte8f9u

dao5m5q3eef8ri

dao7ed8qp60phn

daoc8gc683kljn

daodosj5hol7ip

daok5l500lckf9

daokejh924rk61

Query Tool

DashboardPropertiesSQLStatisticsDependenciesDependents

Database sessions

TotalActiveIdle

1

0

Transactions per second

TransactionsCommitsRollbacks

1

0

Tuples in

InsertsUpdatesDelete

1

0

Tuples out

FetchesReturned

1

0

Block I/O

ReadsHits

3

2

1

0

Server activity

pgAdmin 4

localhost:5433/browser/

pgAdmin File Object Tools Help

Browser

- danodpusijhf0e
 - Cast
 - Catalogs
 - Event Triggers
 - Extensions
 - Foreign Data Wrappers
 - Languages
 - Publications
 - Schemas
 - Subscriptions
- danp4boa7b6k01
- danpuv9rumijma
- danrviju24r434
- dansa3efk08qgc
- danu4tdd7np9mm
- dao3nb2jte8f9u
- dao5m5q3eef8ri
- dao7ed8qp60phn
- daoc8gc683kljn
- daodosj5hol7ip
- daok5l500lckf9
- daokeyh924rk61

Dashboard Properties SQL Statistics Dependencies Dependents danodpusijhf0e/bmc

Query Editor Query History Scratch Pad

```
1 CREATE TABLE songs (  
2     id SERIAL PRIMARY KEY,  
3     name TEXT NOT NULL,  
4     artist TEXT NOT NULL  
5 );
```

Data Output Explain Messages Notifications

CREATE TABLE

Query returned successfully in 308 msec.

✓ Query returned successfully in 308 msec.

pgAdmin 4

localhost:5433/browser/

pgAdmin File Object Tools Help

Browser

- danodpusijhf0e
 - Cast
 - Catalogs
 - Event Triggers
 - Extensions
 - Foreign Data Wrappers
 - Languages
 - Publications
 - Schemas
 - Subscriptions
- danp4boa7b6k01
- danpuv9rumijma
- danrviju24r434
- dansa3efk08qgc
- danu4td7np9mm
- dao3nb2jte8f9u
- dao5m5q3eef8ri
- dao7ed8qp60phn
- daoc8gc683kljn
- daodosj5hol7ip
- daok5l500lckf9
- daokejh924rk61

Dashboard Properties SQL Statistics Dependencies Dependents danodpusijhf0e/bmc

Query Editor Query History Scratch Pad

```
1 INSERT INTO songs (name, artist) VALUES
2 ('Something', 'The Beatles'),
3 ('Autumn Sweater', 'Yo La Tengo'),
4 ('Let's Stay Together', 'Al Green');
```

Data Output Explain Messages Notifications

INSERT 0 3

Query returned successfully in 244 msec.

✓ Query returned successfully in 244 msec.



Salesforce Platform

DATA

Databases > postgresql-clear-93032

SERVICE heroku-postgresql PLAN hobby-dev BILLING APP nucamp-pgdemo

Overview Durability Settings Dataclips

ADMINISTRATION

Database Credentials

Get credentials for manual connections to this database.

Cancel

Please note that **these credentials are not permanent**.

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Host	ec2-34-233-187-36.compute-1.amazonaws.com
Database	danodpusl hf0e
User	bmcmbqqfil phv
Port	5432
Password	5ac34b66b6f1e1fb93096dbeb683000fb7f4f7b24886e51ef2295e116fc8a39a
URI	postgres://bmcmbqqfil phv:5ac34b66b6f1e1fb93096dbeb683000fb7f4f7b24886e51ef2295e116fc8a39a@ec2-34-233-187-36.compute-1.amazonaws.com:5432/danodpusl hf0e
Heroku CLI	heroku pg:psql postgresql-clear-93032 --app nucamp-pgdemo

HEALTH

Available

PRIMARY Yes VERSION 13.4 CREATED 38 minutes ago MAINTENANCE Unsupported ROLLBACK Unsupported

UTILIZATION			
2 of 20	3 of 10,000	8.2 MB	1
CONNECTIONS	ROWS IN COMPLIANCE	DATA SIZE	TABLE

Continuous Protection & Postgres Rollbacks

Continuous Protection and Postgres Rollbacks are **Not Available** on Hobby databases

Upgrade to a Standard or Premium database to enable continuous and automated backups of your data. With Heroku Postgres Rollbacks, you're able to safely roll a database back to a specific point in time when things go awry.

[Learn More: Heroku Postgres Rollbacks](#)

Manual Backups & Data Exports

[Learn more](#) about creating exportable copies of your data to use for testing or development, or as additional backups, with pg:backups.

Create Manual Backup

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[Learn More: Heroku Postgres Rollbacks](#)

MANUAL BACKUPS & DATA EXPORTS

[Learn more](#) about data exports and backups.

Name	Size	Database	Created	Finished	Create Manual Backup
b001	N/A	DATABASE	a few seconds ago	a few seconds ago	<div>DownloadDelete</div>

- Overview
- Resources
- Deploy
- Metrics
- Activity
- Access
- Settings

Dynos

This app has no process types yet
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Add-ons [Find more add-ons](#)

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Quickly add add-ons from Elements



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account or a team you are a member of.
[Learn more](#)

Transfer app...

Maintenance Mode

☐ Maintenance mode is off

If you need to take your app offline you can turn on maintenance mode. [More info](#)

Delete App

Delete app...

Deleting your app and its add-ons is irreversible.

account or a team you are a member of.
[Learn more](#)

Maintenance Mode

If you need to take your app offline you can turn on maintenance mode. [More info](#)

Delete App

Deleting your app and its add-ons is irreversible.

Delete app...

Delete app

Deleting your app and its add-ons is irreversible. Enter your app's name (nucamp-pgdemo) below to confirm you want to permanently delete it:

nucamp-pgdemo

Cancel Delete app

Conclusion

Postgres can be provisioned on remote server

Other systems can connect with credentials

Sensible defaults save time up-front

Managed services provide convenience
e.g. Automated backups

More to come in the next course!