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# Getting Started on Heroku with Python

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#### Introduction

This tutorial will have you deploying a Python app (a simple Django app) in minutes.

Hang on for a few more minutes to learn how it all works, so you can make the most out of Heroku.

The tutorial assumes that you have:

- a free Heroku account (https://signup.heroku.com/signup/dc).
- Python version 3.7 installed locally see the installation guides for OS X (http://docs.python-guide.org/en/latest/starting/install3/osx/), Windows (http://docs.python-guide.org/en/latest/starting/install3/inux/).
- Postgres installed (https://devcenter.heroku.com/articles/heroku-postgresql#local-setup) locally, if running the app locally.

# Set up



The Heroku CLI requires Git, the popular version control system. If you don't already have Git installed, complete the following before proceeding:

- $\bullet \quad \text{Git installation (https://git-scm.com/book/en/v2/Getting-Started-Installing-Git)}\\$
- First-time Git setup (https://git-scm.com/book/en/v2/Getting-Started-First-Time-Git-Setup)

In this step you'll install the Heroku Command Line Interface (CLI). You use the CLI to manage and scale your applications, provision add-ons, view your application logs, and run your application locally.

Download and run the installer for your platform:



Download the installer (https://cli-assets.heroku.com/heroku.pkg)

Also available via Homebrew

\$ brew install heroku/brew/heroku



Download the appropriate installer for your Windows installation

64-bit installer (https://cli-assets.heroku.com/heroku-x64

32-bit installer (https://cli-assets.heroku.com/heroku-x86

# ♦ Ubuntu 16+

Run the following from your terminal:

```
$ sudo snap install heroku --classic
```

Snap is available on other Linux OS's as well (https://snapcraft.io)

Once installed, you can use the heroku command from your command shell,

Use the heroku login command to log in to the Heroku CLI:

```
$ heroku login
heroku: Press any key to open up the browser to login or q to exit
> Warning: If browser does not open, visit
> https://cli-auth.heroku.com/auth/browser/***
heroku: Waiting for login...
Logging in... done
Logged in as me@example.com
```

This command opens your web browser to the Heroku login page. If your browser is already logged in to Heroku, simply click the Log in button displayed on the page.

This authentication is required for both the heroku and git commands to work correctly.



If you're behind a firewall that requires use of a proxy to connect with external HTTP/HTTPS services, you can set the HTTP PROXY or HTTPS PROXY environment variables (https://devcenter.heroku.com/articles/using-the-cli#using-an-http-proxy), in your local development environment before running the heroku command.

# Prepare the app

In this step, you will prepare a simple application that can be deployed.

To clone the sample application so that you have a local version of the code that you can then deploy to Heroku, execute the following commands in your local command shell or terminal:

```
$ git clone https://github.com/heroku/python-getting-started.git
$ cd python-getting-started
```

You now have a functioning git repository that contains a simple application, a runtime.txt specifying Python 3.7.3, and a requirements.txt, which is used by Python's dependency manager, Pip.

# Deploy the app

In this step you will deploy the app to Heroku.

Create an app on Heroku, which prepares Heroku to receive your source code:

```
$ heroku create
Creating app... done, ● serene-caverns-82714
https://serene-caverns-82714.herokuapp.com/ | https://git.heroku.com/serene-caverns-82714.git
```

When you create an app, a git remote (called heroku ) is also created and associated with your local git repository.

Heroku generates a random name (in this case serene-caverns-82714) for your app, or you can pass a parameter to specify your own app name.

Now deploy your code:

```
$ ait push heroku master
Counting objects: 407, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (182/182), done
Writing objects: 100% (407/407), 68.65 KiB | 68.65 MiB/s, done.
Total 407 (delta 199), reused 407 (delta 199)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: ----> Python app detected
                   Using supported version of Python 3.7 (python-3.7.3)
remote:
remote: ----> Installing python-3.7.3
remote: ----> Installing pip
remote: ----> Installing SQLite3
remote: ----> Installing requirements with pip
                    Collecting django (from -r /tmp/build_394859b69f6aeb1b63e599ce5b6c69bd/requirements.txt (line 1))
remote:
                      Downloading https://files.pythonhosted.org/packages/32/ab/22530cc1b2114e6067eece94a333d6c749fd1c56a009f0721e51c181ea53/Django-
remote:
remote:
                    Collecting gunicorn (from -r /tmp/build_394859b69f6aeb1b63e599ce5b6c69bd/requirements.txt (line 2))
                   Downloading https://files.pythonhosted.org/packages/8c/da/b8dd8deb741bff556db53902d4706774c8e1e67265f69528c14c003644e6/gunicor Collecting django-heroku (from -r /tmp/build_394859b69f6aeb1b63e599ce5b6c69bd/requirements.txt (line 3))
remote:
remote:
                      Downloading https://files.pythonhosted.org/packages/59/af/5475a876c5addd5a3494db47d9f7be93cc14d3a7603542b194572791b6c6/django
remote:
                   Collecting pytz (from django->-r /tmp/build_394859b69f6aeb1b63e599ce5b6c69bd/requirements.txt (line 1))

Downloading https://files.pythonhosted.org/packages/30/4e/27c34b62430286c6d59177a0842ed90dc789ce5d1ed740887653b898779a/pytz-20

Collecting psycopg2 (from django-heroku->-r /tmp/build_394859b69f6aeb1b63e599ce5b6c69bd/requirements.txt (line 3))
remote:
remote:
remote:
remote:
                   Downloading https://files.pythonhosted.org/packages/37/88/40748331bf75d068a07bbea7dc658faceb0ce2e9fffdde550e76d5475e59/psycopc
Collecting dj-database-url>=0.5.0 (from django-heroku->-r /tmp/build_394859b69f6aeb1b63e599ce5b6c69bd/requirements.txt (line 3))
remote:
                      Downloading https://files.pythonhosted.org/packages/d4/a6/4b8578c1848690d0c307c7c0596af2077536c9ef2a04d42b00fabaa7e49d/dj_datc
remote:
                   Collecting whitenoise (from django-heroku->-r/tmp/build_394859b69f6aeb1b63e599ce5b6c69bd/requirements.txt (line 3))

Downloading https://files.pythonhosted.org/packages/07/2e/c77e71cb448f1a507bc2dfec1d5c24e35d14a737837bea6cdfd6d1ff66bd/whitenc
Installing collected packages: pytz, django, gunicorn, psycopg2, dj-database-url, whitenoise, django-heroku
remote:
remote:
remote:
remote:
                    Successfully installed dj-database-url-0.5.0 django-2.1.2 django-heroku-0.3.1 gunicorn-19.9.0 psycopg2-2.7.5 pytz-2018.5 whitenc
remote:
remote: ---
               --> $ python manage.py collectstatic --noinput
                   120 static files copied to '/tmp/build_394859b69f6aeb1b63e599ce5b6c69bd/staticfiles', 376 post-processed.
remote:
remote:
remote: ----> Discovering process types
                    Procfile declares types -> web
remote:
remote:
remote: ----> Compressing...
                    Done: 57.1M
remote:
remote: ----> Launching..
                    Released v5
remote:
                    https://serene-caverns-82714.herokuapp.com/ deployed to Heroku
remote:
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/serene-caverns-82714.git
  * [new branch]
                          revert-to-requirements -> master
```

The application is now deployed. Ensure that at least one instance of the app is running:

```
$ heroku ps:scale web=1
```

Now visit the app at the URL generated by its app name. As a handy shortcut, you can open the website as follows:

```
$ heroku open
```

### View logs

Heroku treats logs as streams of time-ordered events aggregated from the output streams of all your app and Heroku components, providing a single channel for all of the events.

View information about your running app using one of the logging commands (https://devcenter.heroku.com/articles/logging), heroku logs --tail:

```
$ heroku logs --tail
2018-10-12T19:13:57.748721+00:00 heroku[web.1]: Starting process with command `gunicorn gettingstarted.wsgi`
2018-10-12T19:13:59.308299+00:00 app[web.1]: [2018-10-12 19:13:59 +0000] [4] [INFO] Starting gunicorn 19.9.0
2018-10-12T19:13:59.308880+00:00 app[web.1]: [2018-10-12 19:13:59 +0000] [4] [INFO] Using worker: sync
2018-10-12T19:13:59.308777+00:00 app[web.1]: [2018-10-12 19:13:59 +0000] [4] [INFO] Listening at: http://0.0.0.0:3142 (4)
2018-10-12T19:13:59.313176+00:00 app[web.1]: [2018-10-12 19:13:59 +0000] [10] [INFO] Booting worker with pid: 10
2018-10-12T19:13:59.331441+00:00 app[web.1]: [2018-10-12 19:13:59 +0000] [11] [INFO] Booting worker with pid: 11
2018-10-12T19:13:59.864677+00:00 heroku[web.1]: State changed from starting to up
2018-10-12T19:14:03.000000+00:00 app[api]: Build succeeded
2018-10-12T19:19:00.370216+00:00 heroku[router]: at=info method=GET path="/" host=serene-caverns-82714.herokuapp.com request_id=308ae087-635f-4
```

Visit your application in the browser again, and you'll see another log message generated.

Press Control+C to stop streaming the logs.

# **Define a Procfile**

Use a Procfile (https://devcenter.heroku.com/articles/procfile), a text file in the root directory of your application, to explicitly declare what command should be executed to start your app.

The Procfile in the example app you deployed looks like this:

```
web: gunicorn gettingstarted.wsgi --log-file -
```

This declares a single process type, web, and the command needed to run it. The name web is important here. It declares that this process type will be attached to the HTTP routing (https://devcenter.heroku.com/articles/http-routing) stack of Heroku, and receive web traffic when deployed.

Procfiles can contain additional process types. For example, you might declare one for a background worker process that processes items off of a queue.

The sample app has an additional Procfile for local development on Microsoft Windows, located in the file Procfile.windows. Later tutorial steps will use this instead: it starts a different web server, one that is compatible with Windows.

```
web: python manage.py runserver 0.0.0.0:5000
```

## Scale the app

Right now, your app is running on a single web dyno (https://devcenter.heroku.com/articles/dynos). Think of a dyno as a lightweight container that runs the command specified in the Proofile

You can check how many dynos are running using the ps command:

```
$ heroku ps
Free dyno hours quota remaining this month: 999h 6m (99%)
Free dyno usage for this app: 0h 0m (0%)
For more information on dyno sleeping and how to upgrade, see:
https://devcenter.heroku.com/articles/dyno-sleeping

=== web (Free): gunicorn gettingstarted.wsgi (1)
web.1: up 2018/10/12 14:26:45 -0500 (~ 33s ago)
```

By default, your app is deployed on a free dyno. Free dynos will sleep after a half hour of inactivity (if they don't receive any traffic). This causes a delay of a few seconds for the first request upon waking. Subsequent requests will perform normally. Free dynos also consume from a monthly, account-level quota of free dyno hours (https://devcenter.heroku.com/articles/free-dyno-hours) - as long as the quota is not exhausted, all free apps can continue to run.

To avoid dyno sleeping, you can upgrade to a hobby or professional dyno type as described in the Dyno Types (https://devcenter.heroku.com/articles/dyno-types) article. For example, if you migrate your app to a professional dyno, you can easily scale it by running a command telling Heroku to execute a specific number of dynos, each running your web process type.

Scaling an application on Heroku is equivalent to changing the number of dynos that are running. Scale the number of web dynos to zero:

```
$ heroku ps:scale web=0
```

Access the app again by hitting refresh on the web tab, or heroku open to open it in a web tab. You will get an error message because you no longer have any web dynos available to serve requests.

Scale it up again:

```
$ heroku ps:scale web=1
```

For abuse prevention, scaling a non-free application to more than one dyno requires account verification (https://devcenter.heroku.com/articles/account-verification).

### **Declare app dependencies**

Heroku recognizes an app as a Python app by looking for key files. Including a requirements.txt in the root directory is one way for Heroku to recognize your Python app.

The demo app you deployed already has a  $\ensuremath{\texttt{requirements.txt}}$  , and it looks something like this:

```
django
gunicorn
django-heroku
```

The requirements.txt file lists the app dependencies together. When an app is deployed, Heroku reads this file and installs the appropriate Python dependencies using the pip install -r command.

To do this locally, you can run the following command:

```
$ pip install -r requirements.txt
```

Note: Postgres must be properly installed (https://devcenter.heroku.com/articles/heroku-postgresql#local-setup) in order for this step to work properly.

Note: if you're running Linux, the libpq-dev system package (or equivalent for your distribution) must also be installed.

Installing the dependencies also caused several other dependencies to be installed. You can see them by using pip's feature list:

```
$ pip list
Package Version
-----
dj-database-url 0.5.0
Django 2.1.2
django-heroku 0.3.1
gunicorn 19.9.0
pip 10.0.1
psycopg2 2.7.5
```

Once dependencies are installed, you will be ready to run your app locally.

### Run the app locally

2018.5

39.0.1

pytz

setuptools

whitenoise

The app is almost ready to start locally. Django uses local assets, so first, you'll need to run collectstatic:

```
$ python manage.py collectstatic
```

Respond with "yes".

Now start your application locally using heroku local, which was installed as part of the Heroku CLI.

If you're on Microsoft Windows system, run this:

```
$ heroku local web -f Procfile.windows
```

If you're on a Unix system, just use the default Procfile by running:

```
$ heroku local web
```

Your local web server will then start up:

```
[OKAY] Loaded ENV .env File as KEY=VALUE Format
2:28:11 PM web.1 | [2018-10-12 14:28:11 -0500] [18712] [INFO] Starting gunicorn 19.9.0
2:28:11 PM web.1 | [2018-10-12 14:28:11 -0500] [18712] [INFO] Listening at: http://0.0.0.0:5000 (18712)
2:28:11 PM web.1 | [2018-10-12 14:28:11 -0500] [18712] [INFO] Using worker: sync
2:28:11 PM web.1 | [2018-10-12 14:28:11 -0500] [18715] [INFO] Booting worker with pid: 18715
```

Just like Heroku, heroku local examines the Procfile to determine what to run.

Open http://localhost:5000 (http://localhost:5000) with your web browser. You should see your app running locally.

To stop the app from running locally, go back to your terminal window and press Ctrl + C to exit.

# **Push local changes**

In this step you'll learn how to propagate a local change to the application through to Heroku. As an example, you'll modify the application to add an additional dependency and the code to use it.

Install requests locally:

```
$ pip install requests
```

And then add it to your requirements.txt file:

```
django
gunicorn
django-heroku
requests
```

Modify hello/views.py so that it imports the requests module at the start:

```
import requests
```

Now modify the index method to make use of the module. Try replacing the current index method with the following code:

```
def index(request):
    r = requests.get('http://httpbin.org/status/418')
    print(r.text)
    return HttpResponse('' + r.text + '')
```

Now test locally:

```
$ heroku local
```

Visit your application at http://localhost:5000 (http://localhost:5000). You should now see the output of fetching http://httpbin.org/status/418, which is a lovely teapot:

Now deploy. Almost every deploy to Heroku follows this same pattern. First, add the modified files to the local git repository:

```
$ git add .
```

Now commit the changes to the repository:

```
$ git commit -m "Demo"
```

Now deploy, just as you did previously:

```
$ git push heroku master
```

Finally, check that everything is working:

#### **Provision add-ons**

Add-ons are third-party cloud services that provide out-of-the-box additional services for your application, from persistence through logging to monitoring and more.

By default, Heroku stores 1500 lines of logs from your application. However, it makes the full log stream available as a service - and several add-on providers have written logging services that provide things such as log persistence, search, and email and SMS alerts.

In this step you will provision one of these logging add-ons, Papertrail.

Provision the papertrail (https://devcenter.heroku.com/articles/papertrail) logging add-on:

```
$ heroku addons:create papertrail
Adding papertrail on sharp-rain-871... done, v4 (free)
Welcome to Papertrail. Questions and ideas are welcome (support@papertrailapp.com). Happy logging!
Use `heroku addons:docs papertrail` to view documentation.
```

To help with abuse prevention, provisioning an add-on requires account verification (https://devcenter.heroku.com/articles/account-verification). If your account has not been verified, you will be directed to visit the verification site (https://heroku.com/verify).

The add-on is now deployed and configured for your application. You can list add-ons for your app like so:

```
$ heroku addons
```

To see this particular add-on in action, visit your application's Heroku URL a few times. Each visit will generate more log messages, which should now get routed to the papertrail add-on. Visit the papertrail console to see the log messages:

```
$ heroku addons:open papertrail
```

Your browser will open up a Papertrail web console, showing the latest log events. The interface lets you search and set up alerts:

```
State changed from down to starting
May 13 14:43:05
                           ishere heroku/web.1: Starting process with command `node web.js`
May 13 14:43:07
                        mwashere app/web.1: Listening on 26766
mwashere heroku/web.1: State changed from starting to up
mwashere heroku/router: at=info method=GET path=/ host=jonwashere.herokuapp.com
     13 14:43:08
May
May 13 14:43:09 🖥
   request_id=f6ac74f1-68bf-4cb3-b363-3aa54e5b420f fwd="94.174.204.242" dyno=web.1 connect=2ms service=12ms
   status=200 bytes=191
May 13 14:43:09 jonwashere app/web.1: 10.236.149.233 - - [Tue, 13 May 2014 21:43:08 GMT] "GET / HTTP/1.1" 200 13 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_2) AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/34.0.1847.131 Safari/537.36"
                                        ku/router: at=info method=GET path=/favicon.ico host=jonwashere.herokuapp.com
 May 13 14:43:29
     equest_id=51f36ddf-9b81-4f54-ae5f-f17573d30e4a fwd="94.174.204.242" dyno=web.1 connect=0ms service=
   status=404 bytes=193
```

#### Start a console

You can run a command, typically scripts and applications that are part of your app, in a one-off dyno (https://devcenter.heroku.com/articles/one-off-dynos) using the heroku run command. It can also be used to launch a REPL process attached to your local terminal for experimenting in your app's environment:

```
$ heroku run python manage.py shell
Python 3.7.3
[GCC 7.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
(InteractiveConsole)
>>>
```

If you receive an error, Error connecting to process, then you may need to configure your firewall (https://devcenter.heroku.com/articles/one-off-dynos#timeout-awaiting-process).

The Python shell is running in the context of your app and all its dependencies. From here you can import some of your application files. For example, you will be be able to run the following:

To get a real feel for how dynos work, you can create another one-off dyno and run the bash command, which opens up a shell on that dyno. You can then execute commands there. Each dyno has its own ephemeral filespace, populated with your app and its dependencies - once the command completes (in this case, bash), the dyno is removed.

```
$ heroku run bash
Running `bash` attached to terminal... up, run.3052
~ $ ls
gettingstarted hello manage.py Procfile README.md requirements.txt runtime.txt staticfiles
~ $ exit
exit
```

Don't forget to type exit to exit the shell and terminate the dyno.

## **Define config vars**

Heroku lets you externalise configuration - storing data such as encryption keys or external resource addresses in config vars (https://devcenter.heroku.com/articles/configvars).

At runtime, config vars are exposed as environment variables to the application.

Edit hello/views.py . At the beginning, add a line to import the os module:

```
import os
```

Now modify the index method so that it repeats an action depending on the value of the TIMES environment variable:

```
def index(request):
   times = int(os.environ.get('TIMES',3))
   return HttpResponse('Hello! ' * times)
```

heroku local will automatically set up the environment based on the contents of the .env file in your local directory. In the top-level directory of your project there is already a .env file that has the following contents:

```
TIMES=2
```

If you run the app with heroku local, you'll see two "Hello!"s.

To set the config var on Heroku, execute the following:

```
$ heroku config:set TIMES=2
```

View the config vars that are set using heroku config:

```
$ heroku config
== sharp-rain-871 Config Vars
PAPERTRAIL_API_TOKEN: erdKhPeeeehIcdfY7ne
TIMES: 2
```

Deploy your changed application to Heroku to see this in action.

#### Provision a database

The add-on marketplace (https://elements.heroku.com/addons/categories/data-stores) has a large number of data stores, from Redis and MongoDB providers, to Postgres and MySQL. In this step you will learn about the free Heroku Postgres add-on that was automatically provisioned when your app was deployed.

A database is an add-on, and so you can find out a little more about the database provisioned for your app using the addons command in the CLI:

```
$ heroku addons
Add-on
Plan
Price State
heroku-postgresql (postgresql-horizontal-27446) hobby-dev free created
as DATABASE
...
```

Listing the config vars for your app will display the URL that your app is using to connect to the database, DATABASE\_URL:

```
$ heroku config === serene-caverns-82714 Config Vars DATABASE_URL: postgres://qayojflkqzwdlk:c9b49b89f95625e0c1ed225aed3871a888ab41ca53d6d16078fe5f6416f8a402@ec2-23-23-80-20.compute-1.amazonaws.cc
```

Heroku also provides a pg command that shows a lot more:

```
$ heroku pg
=== DATABASE_URL
Plan:
                       Hobby-dev
Status:
                       Available
                       0/20
Connections:
PG Version:
                       10.5
Created:
                       2018-10-12 19:13 UTC
Data Size:
                       7.6 MB
Tables:
Rows:
                       0/10000 (In compliance) - refreshing
Fork/Follow:
                       Unsupported
Rollback:
                       Unsupported
Continuous Protection: Off
Add-on:
                       postgresql-horizontal-27446
```

This indicates I have a hobby database (free), running Postgres 10.5, with no data.

The example app you deployed already has database functionality, which you should be able to reach by visiting your app's URL and appending /db . For example, if your app was deployed to https://wonderful-app-287.herokuapp.com/ then visit https://wonderful-app-287.herokuapp.com/db .

Accessing it will yield an error though, because while the database is configured, the tables have not been created. Run the standard Django manage.py migrate to create the tables

```
$ heroku run python manage.py migrate
Running `python manage.py migrate` attached to terminal... up, run.1059
Synchronizing apps without migrations:
   Creating tables...
   Creating table hello_greeting
   Running deferred SQL...
   Installing custom SQL...
Running migrations:
   Rendering model states... DONE
   Applying contenttypes.0001_initial... OK
...
```

If you see a message that says, "You just installed Django's auth system, which means you don't have any superusers defined. Would you like to create one now?", type no .

Now access the /db route again and you'll see a simple page update every time you access it:

```
Page View Report

April 19, 2017, 8:50 a.m.

April 19, 2017, 8:52 a.m.
```

The code to access the database is straightforward, and makes use of a simple Django model called Greetings that you can find in hello/models.py.

Whenever you visit the /db route of your app, the following method in the hello/views.py file is invoked which creates a new Greeting and then renders all the existing Greetings:

```
def db(request):
    greeting = Greeting()
    greeting.save()

    greetings = Greeting.objects.all()

    return render(request, 'db.html', {'greetings': greetings})
```

Assuming that you have Postgres installed locally (https://devcenter.heroku.com/articles/heroku-postgresql#local-setup), use the heroku pg:psql command to connect to the remote database and see all the rows:

```
$ heroku pg:psql
--> Connecting to postgresql-horizontal-27446
psql (10.5)
SSL connection (protocol: TLSv1.2, cipher: ECDHE-RSA-AES256-GCM-SHA384, bits: 256, compression: off)
Type "help" for help.
serene-caverns-82714::DATABASE=>
```

Read more about Heroku PostgreSQL (https://devcenter.heroku.com/articles/heroku-postgresql).

A similar technique can be used to install MongoDB or Redis add-ons (https://elements.heroku.com/addons/categories/data-stores).

### **Next steps**

You now know how to deploy an app, change its configuration, view logs, scale, and attach add-ons.

Here's some recommended reading. The first, an article, will give you a firmer understanding of the basics. The second is a pointer to the main Python category here on Dev Center:

- Read How Heroku Works (https://devcenter.heroku.com/articles/how-heroku-works) for a technical overview of the concepts you'll encounter while writing, configuring, deploying and running applications.
- Read Deploying Python and Django Apps on Heroku (https://devcenter.heroku.com/articles/deploying-python) to understand how to take an existing Python or Django app and deploy it to Heroku.
- Visit the Python category (https://devcenter.heroku.com/categories/python-support) to learn more about developing and deploying Python applications.