

What is HEROKU?

Heroku is a container-based cloud Platform as a Service (PaaS). Developers use Heroku to *deploy*, *manage*, and *scale modern apps*. It is *elegant*, *flexible*, and *easy to use*, offering developers the simplest path to getting their apps to market.

Steps to deploy an app on HEROKU:

1. *Create* an app
2. *Initialize* a git repository
3. *Create* Heroku app
4. Git *commit* files and Git *push*

App is ready! ☺



1. Create an app



The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows a project named "DTL Project" containing "env", "static", and "templates" folders. Inside "templates" is an "index.html" file. The "app.py" file is selected.
- Code Editor:** Displays the content of "app.py":

```
1 from re import template
2 from flask import Flask, render_template
3
4 app = Flask(__name__)
5
6 @app.route("/")
7 def hello_world():
8     return render_template('index.html')
9     # return "<p>Main Page</p>"
10
11 @app.route("/profile")
12 def profile():
13     return 'Profile page'
14     You, 3 hours ago • first commit
15 if __name__ == "__main__":
16     app.run(debug=True, port=8000)
```

- Status Bar:** Shows file statistics: "You, 3 hours ago" (author), "Ln 14, Col 1", "Spaces: 4", "UTF-8", "CRLF", "Python", "Prettier".

2. Initialize a git repository



File Edit Selection View Go Run Terminal Help

requirements.txt - DLT Project - Visual Studio Code

TERMINAL DEBUG CONSOLE

Windows PowerShell
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Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\Anuj\Desktop\DLT Project> & "c:/Users/Anuj/Desktop/DTL Project/env/Scripts/Activate.ps1"
(env) PS C:\Users\Anuj\Desktop\DLT Project> pip freeze > requirements.txt
(env) PS C:\Users\Anuj\Desktop\DTL Project> git init
Reinitialized existing Git repository in C:/Users/Anuj/Desktop/DTL Project/.git/
(env) PS C:\Users\Anuj\Desktop\DTL Project> heroku login
heroku: Press any key to open up the browser to login or q to exit:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/06fea14-cbd4-465a-a7f7-defde965c572?requestor=SFMyNTY.g2gDbQAAA4xMTcuOTk
uMjU1LjI0NW4GAIhF0yZ_AWIAAVGA.Gd4i90hmeBfSigH6EfKYt-tee5t05UvH1Et1QtCK1SA
    Error: spawn cmd ENOENT
    Code: ENOENT
    »  Warning: Cannot open browser.
Logging in... done
Logged in as anujmohite001@gmail.com
(env) PS C:\Users\Anuj\Desktop\DTL Project> heroku git:remote -flask dtl-project-142103002
    »  Error: Couldn't find that app.
    »
    »  Error ID: not_found
(env) PS C:\Users\Anuj\Desktop\DTL Project> heroku git:remote -a dtl-project-142103002
set git remote heroku to https://git.heroku.com/dtl-project-142103002.git
(env) PS C:\Users\Anuj\Desktop\DTL Project> pip install gunicorn
Collecting gunicorn
  Using cached gunicorn-20.1.0-py3-none-any.whl (79 kB)
Requirement already satisfied: setuptools>=3.0 in c:/users/anuj/desktop/dtl project/env/lib/site-packages (from gunicorn) (60.5.0)
Installing collected packages: gunicorn
Successfully installed gunicorn-20.1.0
WARNING: You are using pip version 21.3.1; however, version 22.0.3 is available.
You should consider upgrading via the 'C:/Users/Anuj/Desktop/DTL Project/env/Scripts/python.exe -m pip install --upgrade pip' command.
(env) PS C:\Users\Anuj\Desktop\DTL Project> pip freeze > requirements.txt
(env) PS C:\Users\Anuj\Desktop\DTL Project> pip install flask
Collecting flask
  Downloading Flask-2.0.3-py3-none-any.whl (95 kB)
```

You, an hour ago Ln 10, Col 1 (2 selected) Spaces: 4 UTF-16 LE CRLF pip requirements ⚡ Prettier ⌂ ⌂

3. Create heroku app

A screenshot of a web browser displaying the Heroku dashboard at dashboard.heroku.com/apps. The browser's address bar shows the URL. The dashboard has a purple header with the Heroku logo and navigation links for Apps, Gmail, Dashboard, Mail - ANUJ RAJES..., WhatsApp, My College | Signup, and CSI COEP Sem 3 Re... A Salesforce Platform icon is also present. The main content area features a purple background with white text and icons. It displays a 'Welcome to Heroku' message, a 'Show next steps' button, and a search bar labeled 'Filter apps and pipelines'. Below this, there is a card for an app named 'dtl-project-142103002' with a Python icon, 'heroku-20' stack, and 'United States' location. The bottom of the page includes standard footer links for heroku.com, Blogs, Careers, Documentation, Support, Terms of Service, Privacy, Cookies, and a copyright notice for © 2022 Salesforce.com.

Personal apps | Heroku

dashboard.heroku.com/apps

Apps Gmail Dashboard Mail - ANUJ RAJES... WhatsApp My College | Signup CSI COEP Sem 3 Re... Salesforce Platform

HEROKU

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

Personal

New

Welcome to Heroku

Now that your account has been set up, here's how to get started.

Show next steps

Dismiss

Filter apps and pipelines

dtl-project-142103002

Python • heroku-20 • United States

heroku.com Blogs Careers Documentation Support Terms of Service Privacy Cookies © 2022 Salesforce.com

4. Git commit files and push

The screenshot shows a Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Terminal Tab:** TERMINAL (selected).
- Output:** Profile - DTL Project - Visual Studio Code
- Explorer:** Shows the project structure:
 - OPEN EDITORS: app.py, requirements.txt, Profile, index.html temp...
 - DTL PROJECT: env, static, templates (index.html), app.py, Profile, requirements.txt
- Terminal Content:** A log of commands and their output:

```
Installing collected packages: html
Successfully installed html-1.13
WARNING: You are using pip version 21.3.1; however, version 22.0.3 is available.
Installing collected packages: html
Successfully installed html-1.13
WARNING: You are using pip version 2
1.3.1; however, version 22.0.3 is available.
\env\Scripts\python.exe -m pip install --upgrade pip' command.
(env) PS C:\Users\Anuj\Desktop\DTL Project> pip freeze > requirements.txt
(env) PS C:\Users\Anuj\Desktop\DTL Project> git add .
(env) PS C:\Users\Anuj\Desktop\DTL Project> git commit -m "first commit"
[master b315320] first commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 rewrite requirements.txt (96%)
(env) PS C:\Users\Anuj\Desktop\DTL Project> git push heroku master
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 12 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (13/13), 3.40 KiB | 3.40 MiB/s, done.
Total 13 (delta 2), reused 9 (delta 0), pack-reused 0
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Building on the Heroku-20 stack
remote: -----> Determining which buildpack to use for this app
remote: -----> Python app detected
remote: -----> No Python version was specified. Using the buildpack default: python-3.9.10
remote:       To use a different version, see: https://devcenter.heroku.com/articles/python-runtimes
remote: -----> Installing python-3.9.10
remote: -----> Installing pip 21.3.1, setuptools 57.5.0 and wheel 0.37.0
remote: -----> Installing SQLite3
remote: -----> Installing requirements with pip
remote:       Collecting click==8.0.4
remote:         Downloading click-8.0.4-py3-none-any.whl (97 kB)
remote:       Collecting colorama==0.4.4
remote:         Downloading colorama-0.4.4-py2.py3-none-any.whl (16 kB)
remote:       Collecting Flask==2.0.3
```
- Right Panel:** Shows tabs for powershell, Code, and powershell.
- Bottom Status Bar:** You, an hour ago, Ln 1, Col 22, Spaces: 4, UTF-8, CRLF, Plain Text, Prettier, icons for file operations.

App is deployed

Profile - DTL Project - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

remote: Downloading MarkupSafe-2.1.0-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (25 kB)
remote: Collecting Werkzeug==2.0.3
remote: Downloading Werkzeug-2.0.3-py3-none-any.whl (289 kB)
remote: Building wheels for collected packages: html
remote: Building wheel for html (setup.py): started
remote: Building wheel for html (setup.py): finished with status 'done'
remote: Created wheel for html: filename=html-1.13-py3-none-any.whl size=8776 sha256=5f10a076d49f9abcde6c018cec7a058077ee84461935
e4bc68118c8f223d7b8e
remote: Stored in directory: /tmp/pip-ephem-wheel-cache-2egi3gaw/wheels/17/bf/0d/ae5617e6c109264855025d23e2faf3db905d35c40a1672e6
fa
inja2-3.0.3 MarkupSafe-2.1.0 Werkzeug-2.0.3 click-8.0.4 colorama-0.4.4 gunicorn-20.1.0 html-1.13 itsdangerous-2.1.0
remote: ----> Discovering process types
remote: Procfile declares types -> web
remote:
remote: ----> Compressing...
remote: Done: 57.3M
remote: ----> Launching...
remote: Released v3
remote: https://dtl-project-142103002.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/dtl-project-142103002.git * [new branch] master -> master
(env) PS C:\Users\Anuj\Desktop\DTL Project>

< > OUTLINE

You, an hour ago Ln 1, Col 22 Spaces: 4 UTF-8 CRLF Plain Text Prettier ⌂

URL: <https://dtl-project-142103002.herokuapp.com/>

A screenshot of a web browser window titled "dtl project". The address bar shows the URL "dtl-project-142103002.herokuapp.com". The page content is a plain white page with black text, displaying the following information:

DTL Project
Heroku: Cloud Application Platform
MIS: 142103002
Anuj R Mohite
College of Engineering,Pune
Department of Computer and IT.

print("Thank_you!")