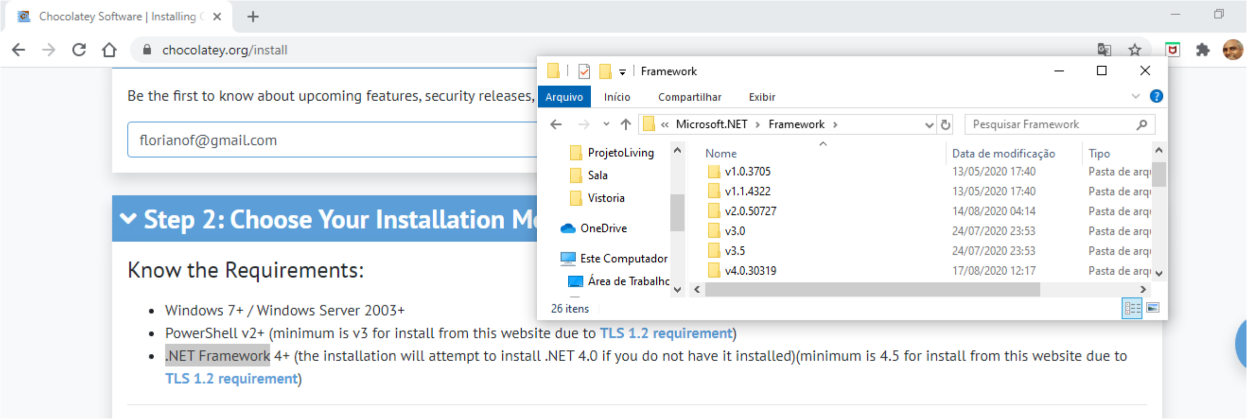
Starting with Deno

Tela com os passos para criar uma aplicação Hello World com Deno e publicá-la no Heroku.

Passo 1



Be the first to know about upcoming features, security releases,

florianof@gmail.com

Framework

« Microsoft.NET › Framework ›

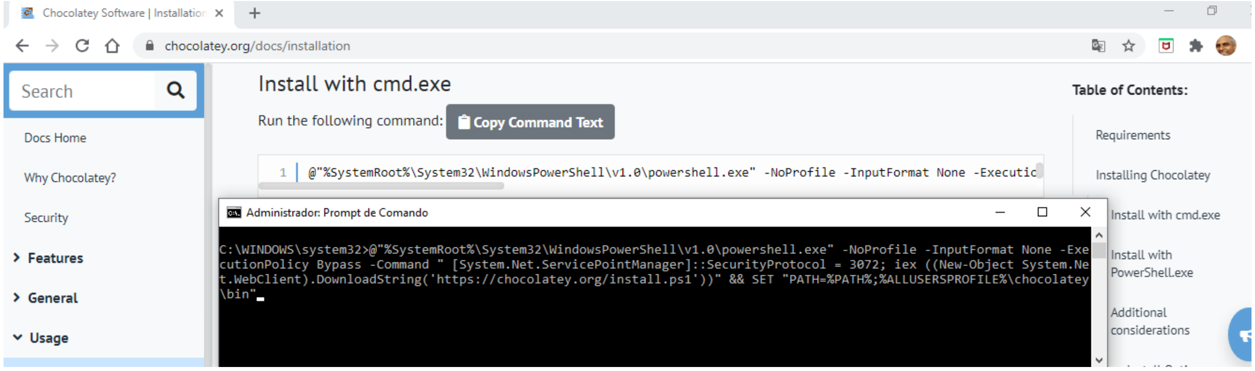
Nome	Data de modificação	Tipo
v1.0.3705	13/05/2020 17:40	Pasta de arq
v1.1.4322	13/05/2020 17:40	Pasta de arq
v2.0.50727	14/08/2020 04:14	Pasta de arq
v3.0	24/07/2020 23:53	Pasta de arq
v3.5	24/07/2020 23:53	Pasta de arq
v4.0.30319	17/08/2020 12:17	Pasta de arq

Step 2: Choose Your Installation M

Know the Requirements:

- Windows 7+ / Windows Server 2003+
- PowerShell v2+ (minimum is v3 for install from this website due to TLS 1.2 requirement)
- .NET Framework 4+ (the installation will attempt to install .NET 4.0 if you do not have it installed)(minimum is 4.5 for install from this website due to TLS 1.2 requirement)

Passo 2


Chocolatey Software | Installation
chocolatey.org/docs/installation
Search
Docs Home
Why Chocolatey?
Security
Features
General
Usage
Copy Command Text
Table of Contents:
Requirements
Installing Chocolatey
Install with cmd.exe
Install with PowerShell.exe
Additional considerations
Administrador: Prompt de Comando

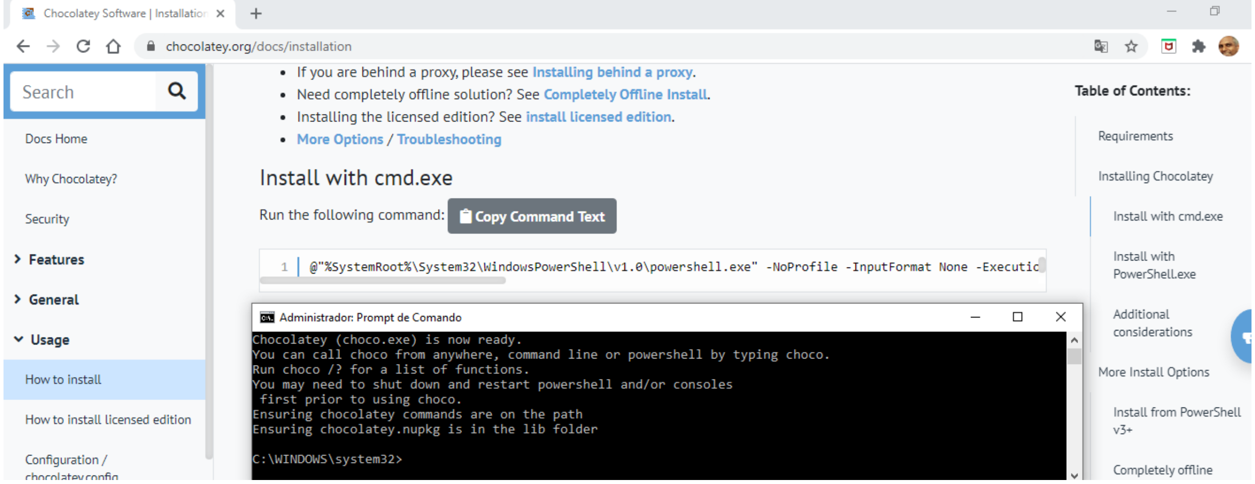
Install with cmd.exe

Run the following command:

```
@"%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -NoProfile -InputFormat None -Executic
```

```
C:\WINDOWS\system32>@"%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -NoProfile -InputFormat None -Exe
cutionPolicy Bypass -Command " [System.Net.ServicePointManager]::SecurityProtocol = 3072; iex ((New-Object System.Ne
t.WebClient).DownloadString('https://chocolatey.org/install.ps1'))" && SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey
\bin"
```

Passo 3


Chocolatey Software | Installation
chocolatey.org/docs/installation
Search
Docs Home
Why Chocolatey?
Security
Features
General
Usage
How to install
How to install licensed edition
Configuration / chocolatey.config
Table of Contents:
Requirements
Installing Chocolatey
Install with cmd.exe
Install with PowerShell.exe
Additional considerations
More Install Options
Install from PowerShell v3+
Completely offline
Copy Command Text
Administrador: Prompt de Comando

- If you are behind a proxy, please see Installing behind a proxy.
- Need completely offline solution? See Completely Offline Install.
- Installing the licensed edition? See install licensed edition.
- More Options / Troubleshooting

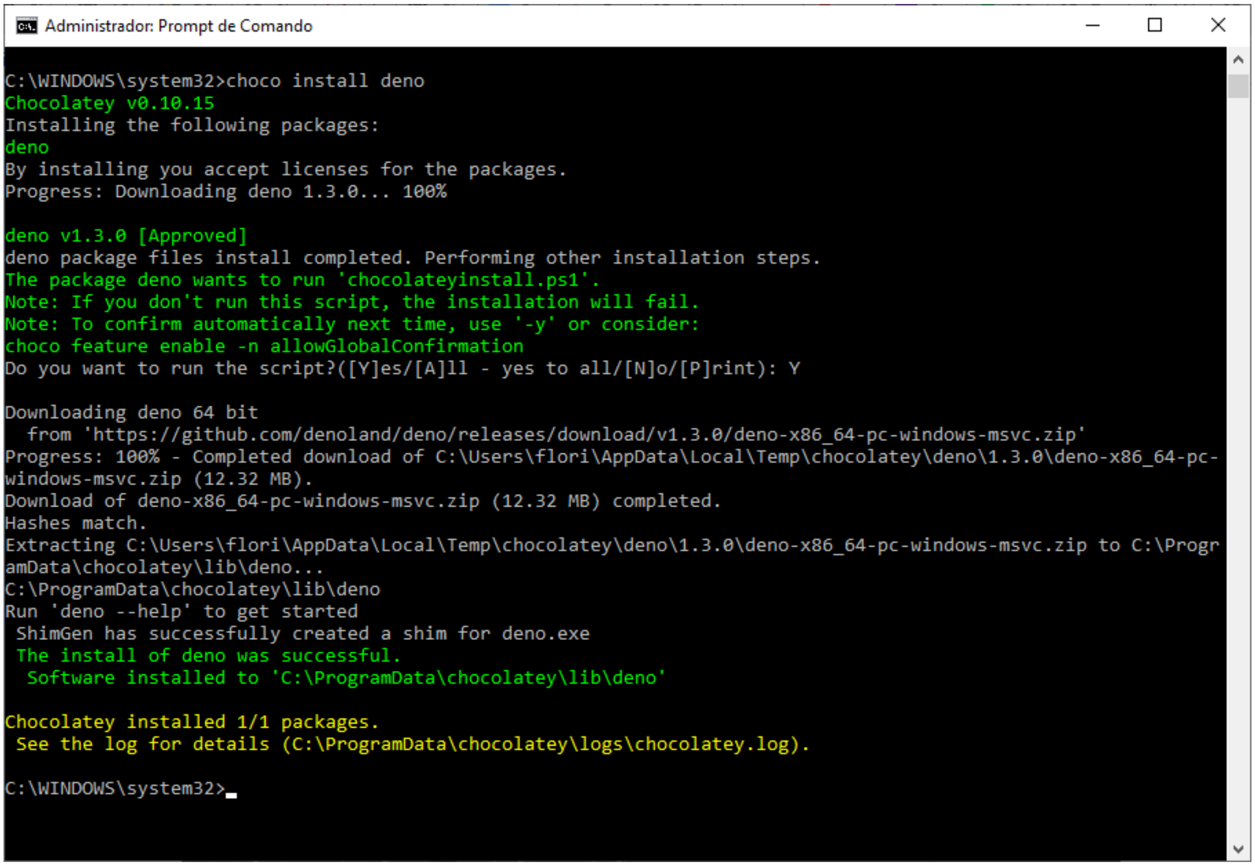
Install with cmd.exe

Run the following command:

```
@"%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -NoProfile -InputFormat None -Executic
```

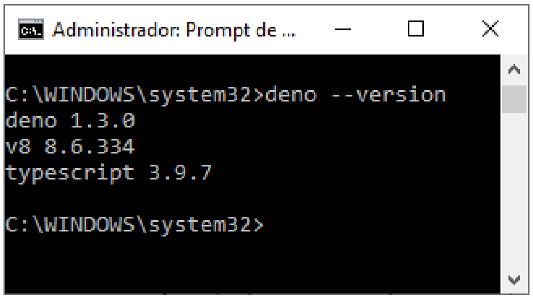
```
Chocolatey (choco.exe) is now ready.
You can call choco from anywhere, command line or powershell by typing choco.
Run choco /? for a list of functions.
You may need to shut down and restart powershell and/or consoles
 first prior to using choco.
Ensuring chocolatey commands are on the path
Ensuring chocolatey.nupkg is in the lib folder

C:\WINDOWS\system32>
```

Passo 4



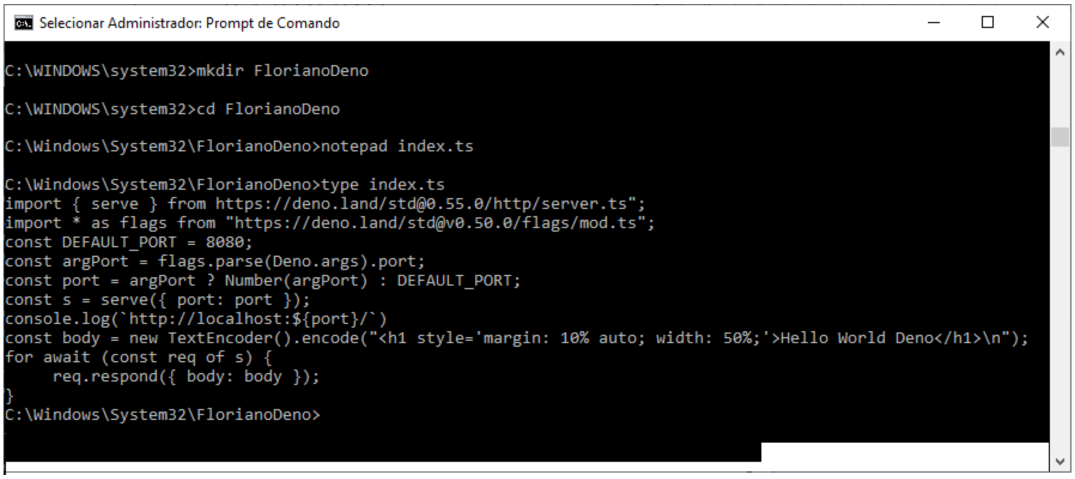
```
C:\WINDOWS\system32>choco install deno
Chocolatey v0.10.15
Installing the following packages:
deno
By installing you accept licenses for the packages.
Progress: Downloading deno 1.3.0... 100%

deno v1.3.0 [Approved]
deno package files install completed. Performing other installation steps.
The package deno wants to run 'chocolateyinstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): Y

Downloading deno 64 bit
  from 'https://github.com/denoland/deno/releases/download/v1.3.0/deno-x86_64-pc-windows-msvc.zip'
Progress: 100% - Completed download of C:\Users\flori\AppData\Local\Temp\chocolatey\deno\1.3.0\deno-x86_64-pc-
windows-msvc.zip (12.32 MB).
Download of deno-x86_64-pc-windows-msvc.zip (12.32 MB) completed.
Hashes match.
Extracting C:\Users\flori\AppData\Local\Temp\chocolatey\deno\1.3.0\deno-x86_64-pc-windows-msvc.zip to C:\Progr
amData\chocolatey\lib\deno...
C:\ProgramData\chocolatey\lib\deno
Run 'deno --help' to get started
 ShimGen has successfully created a shim for deno.exe
 The install of deno was successful.
  Software installed to 'C:\ProgramData\chocolatey\lib\deno'

Chocolatey installed 1/1 packages.
 See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

C:\WINDOWS\system32>_
```

Passo 5



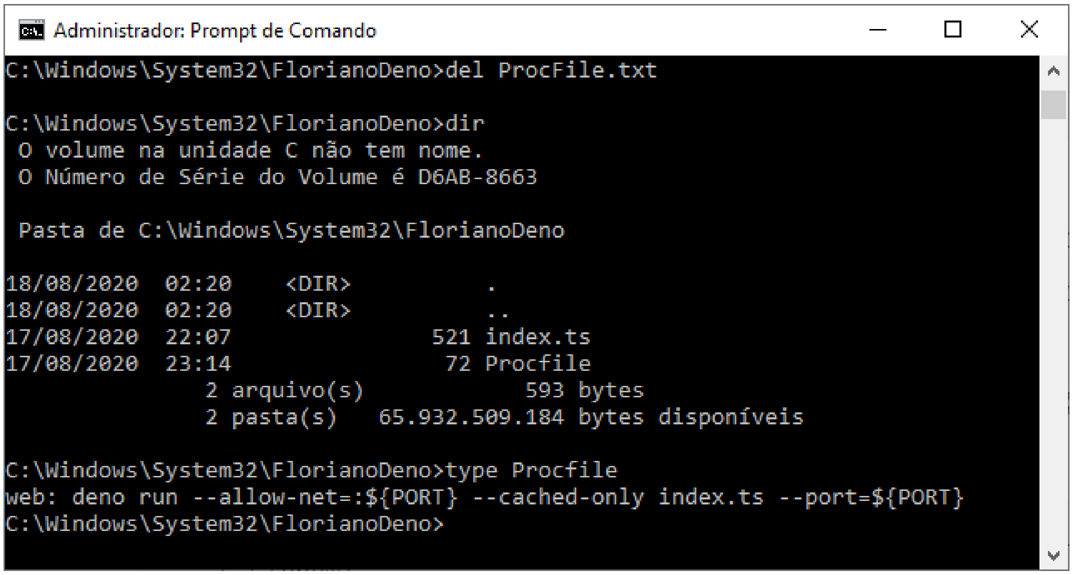
```
C:\WINDOWS\system32>deno --version
deno 1.3.0
v8 8.6.334
typescript 3.9.7

C:\WINDOWS\system32>
```

Passo 6



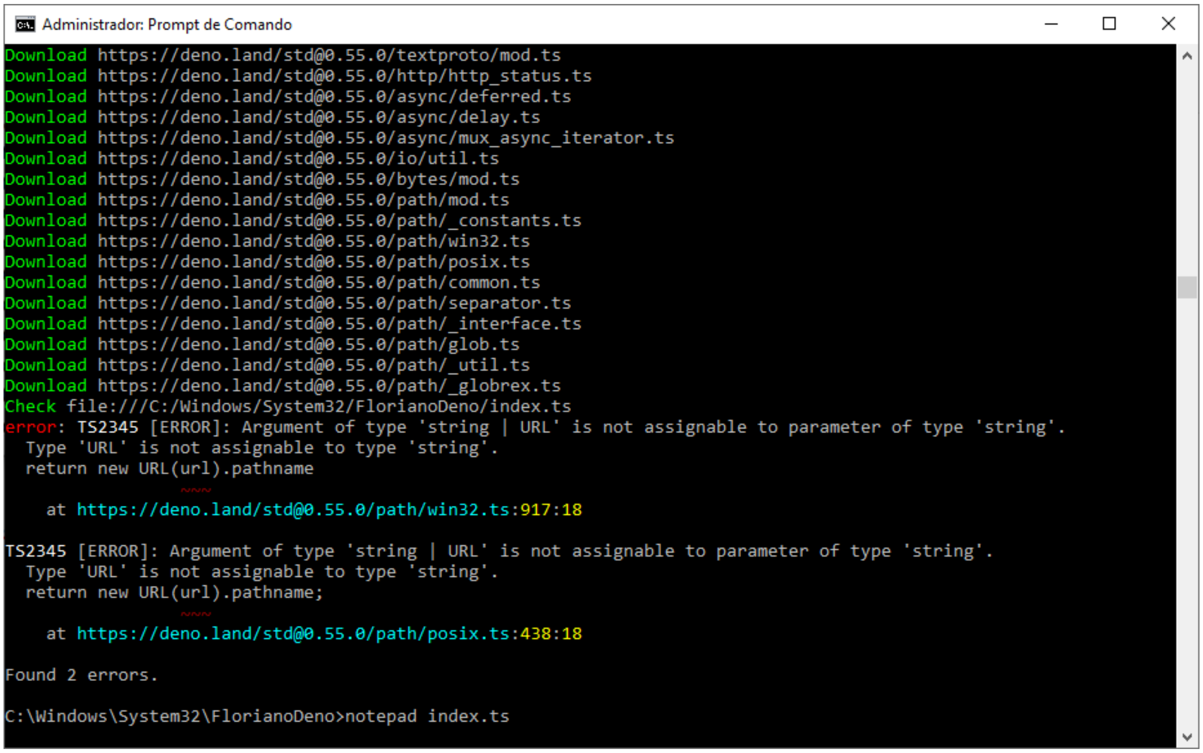
```
C:\WINDOWS\system32>mkdir FlorianoDeno

C:\WINDOWS\system32>cd FlorianoDeno

C:\Windows\System32\FlorianoDeno>notepad index.ts

C:\Windows\System32\FlorianoDeno>type index.ts
import { serve } from https://deno.land/std@0.55.0/http/server.ts";
import * as flags from "https://deno.land/std@v0.50.0/flags/mod.ts";
const DEFAULT_PORT = 8080;
const argPort = flags.parse(Deno.args).port;
const port = argPort ? Number(argPort) : DEFAULT_PORT;
const s = serve({ port: port });
console.log(`http://localhost:${port}/`)
const body = new TextEncoder().encode("<h1 style='margin: 10% auto; width: 50%;'>Hello World Deno</h1>\n");
for await (const req of s) {
     req.respond({ body: body });
}
C:\Windows\System32\FlorianoDeno>
```

Passo 7



```
C:\Windows\System32\FlorianoDeno>del ProcFile.txt

C:\Windows\System32\FlorianoDeno>dir
 O volume na unidade C não tem nome.
 O Número de Série do Volume é D6AB-8663

 Pasta de C:\Windows\System32\FlorianoDeno

18/08/2020  02:20    <DIR>          .
18/08/2020  02:20    <DIR>          ..
17/08/2020  22:07               521 index.ts
17/08/2020  23:14                72 Procfile
               2 arquivo(s)            593 bytes
               2 pasta(s)   65.932.509.184 bytes disponíveis

C:\Windows\System32\FlorianoDeno>type Procfile
web: deno run --allow-net=:${PORT} --cached-only index.ts --port=${PORT}
C:\Windows\System32\FlorianoDeno>
```

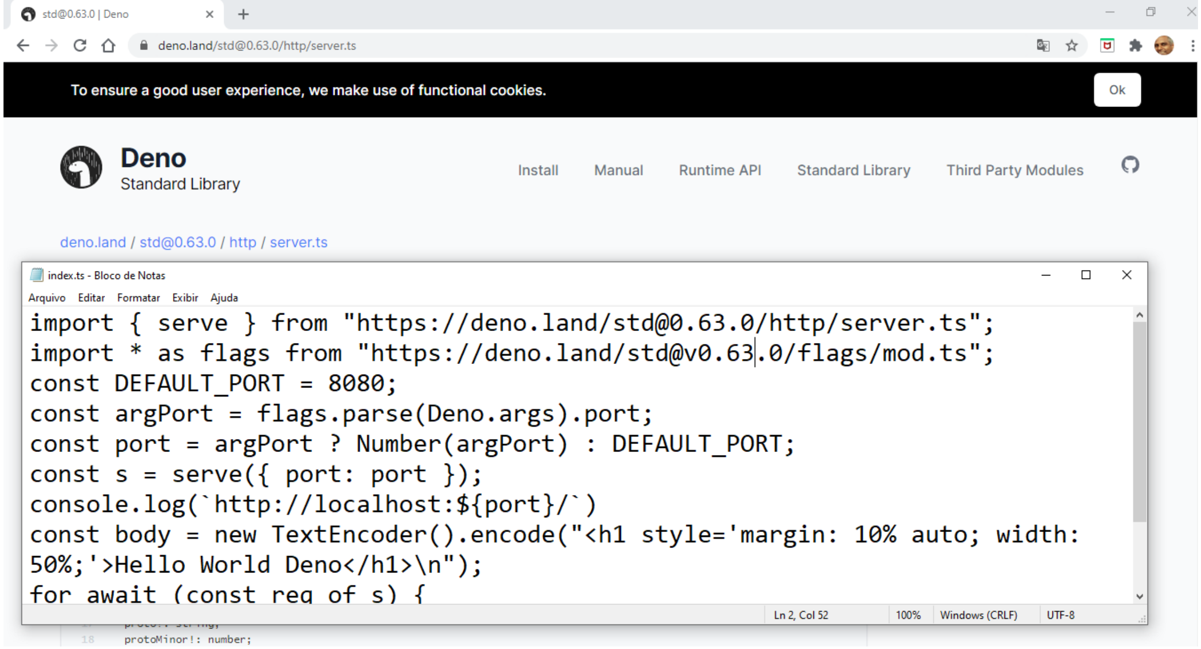
Passo 8



Administrador: Prompt de Comando

```
Download https://deno.land/std@0.55.0/textproto/mod.ts
Download https://deno.land/std@0.55.0/http/http_status.ts
Download https://deno.land/std@0.55.0/async/deferred.ts
Download https://deno.land/std@0.55.0/async/delay.ts
Download https://deno.land/std@0.55.0/async/mux_async_iterator.ts
Download https://deno.land/std@0.55.0/io/util.ts
Download https://deno.land/std@0.55.0/bytes/mod.ts
Download https://deno.land/std@0.55.0/path/mod.ts
Download https://deno.land/std@0.55.0/path/_constants.ts
Download https://deno.land/std@0.55.0/path/win32.ts
Download https://deno.land/std@0.55.0/path/posix.ts
Download https://deno.land/std@0.55.0/path/common.ts
Download https://deno.land/std@0.55.0/path/separator.ts
Download https://deno.land/std@0.55.0/path/_interface.ts
Download https://deno.land/std@0.55.0/path/glob.ts
Download https://deno.land/std@0.55.0/path/_util.ts
Download https://deno.land/std@0.55.0/path/_globrex.ts
Check file:///C:/Windows/System32/FlorianoDeno/index.ts
error: TS2345 [ERROR]: Argument of type 'string | URL' is not assignable to parameter of type 'string'.
  Type 'URL' is not assignable to type 'string'.
  return new URL(url).pathname
                 ~~~
    at https://deno.land/std@0.55.0/path/win32.ts:917:18

TS2345 [ERROR]: Argument of type 'string | URL' is not assignable to parameter of type 'string'.
  Type 'URL' is not assignable to type 'string'.
  return new URL(url).pathname;
                 ~~~
    at https://deno.land/std@0.55.0/path/posix.ts:438:18

Found 2 errors.

C:\Windows\System32\FlorianoDeno>notepad index.ts
```

Passo 9 (Para resolver o problema dos erros, atualizar a versão)

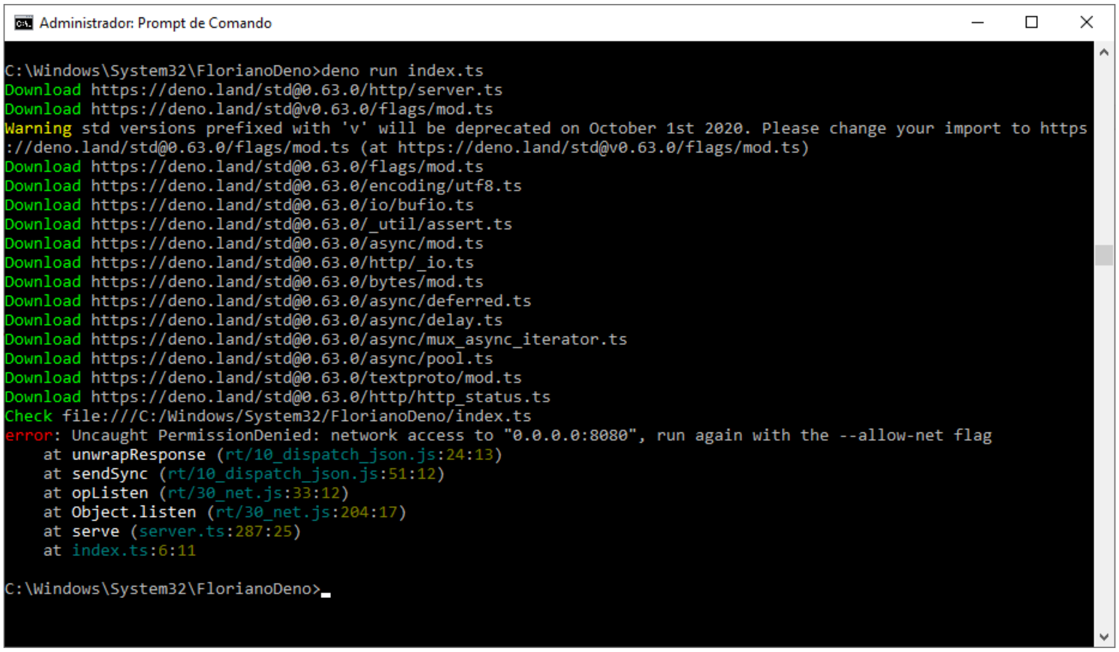


std@0.63.0 | Deno
deno.land/std@0.63.0/http/server.ts
To ensure a good user experience, we make use of functional cookies.
Ok
Deno
Standard Library
Install
Manual
Runtime API
Standard Library
Third Party Modules
deno.land / std@0.63.0 / http / server.ts
index.ts - Bloco de Notas
Arquivo
Editar
Formatar
Exibir
Ajuda
Ln 2, Col 52
100%
Windows (CRLF)
UTF-8

```
import { serve } from "https://deno.land/std@0.63.0/http/server.ts";
import * as flags from "https://deno.land/std@v0.63.0/flags/mod.ts";
const DEFAULT_PORT = 8080;
const argPort = flags.parse(Deno.args).port;
const port = argPort ? Number(argPort) : DEFAULT_PORT;
const s = serve({ port: port });
console.log(`http://localhost:${port}/`)
const body = new TextEncoder().encode("<h1 style='margin: 10% auto; width: 50%;'>Hello World Deno</h1>\n");
for await (const req of s) {
```

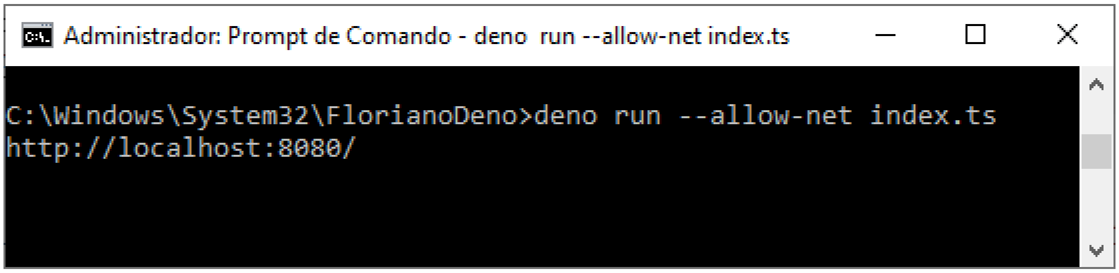
```
protoMinor!: number;
```

Passo 10



```
C:\Windows\System32\FlorianoDeno>deno run index.ts
Download https://deno.land/std@0.63.0/http/server.ts
Download https://deno.land/std@v0.63.0/flags/mod.ts
Warning std versions prefixed with 'v' will be deprecated on October 1st 2020. Please change your import to https
://deno.land/std@0.63.0/flags/mod.ts (at https://deno.land/std@v0.63.0/flags/mod.ts)
Download https://deno.land/std@0.63.0/flags/mod.ts
Download https://deno.land/std@0.63.0/encoding/utf8.ts
Download https://deno.land/std@0.63.0/io/bufio.ts
Download https://deno.land/std@0.63.0/_util/assert.ts
Download https://deno.land/std@0.63.0/async/mod.ts
Download https://deno.land/std@0.63.0/http/_io.ts
Download https://deno.land/std@0.63.0/bytes/mod.ts
Download https://deno.land/std@0.63.0/async/deferred.ts
Download https://deno.land/std@0.63.0/async/delay.ts
Download https://deno.land/std@0.63.0/async/mux_async_iterator.ts
Download https://deno.land/std@0.63.0/async/pool.ts
Download https://deno.land/std@0.63.0/textproto/mod.ts
Download https://deno.land/std@0.63.0/http/http_status.ts
Check file:///C:/Windows/System32/FlorianoDeno/index.ts
error: Uncaught PermissionDenied: network access to "0.0.0.0:8080", run again with the --allow-net flag
    at unwrapResponse (rt/10_dispatch_json.js:24:13)
    at sendSync (rt/10_dispatch_json.js:51:12)
    at opListen (rt/30_net.js:33:12)
    at Object.listen (rt/30_net.js:204:17)
    at serve (server.ts:287:25)
    at index.ts:6:11

C:\Windows\System32\FlorianoDeno>_
```

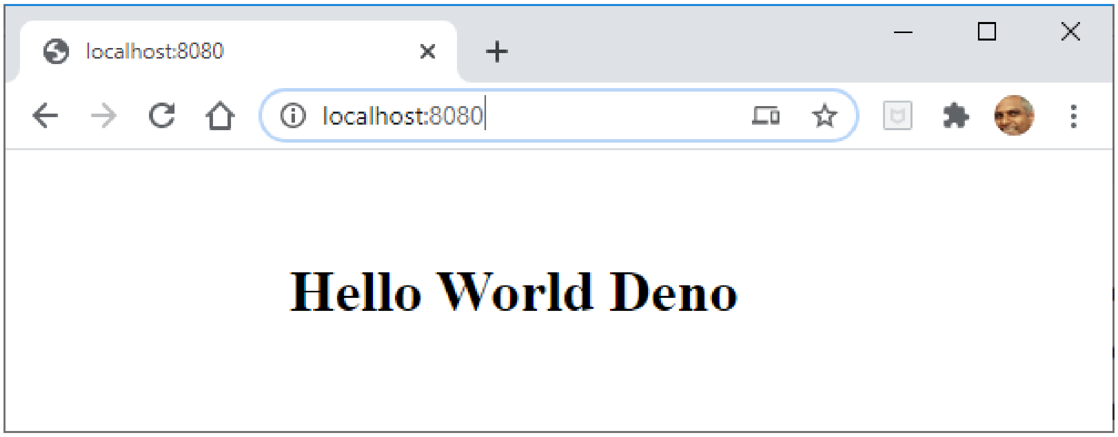
Passo 11



Administrador: Prompt de Comando - deno run --allow-net index.ts

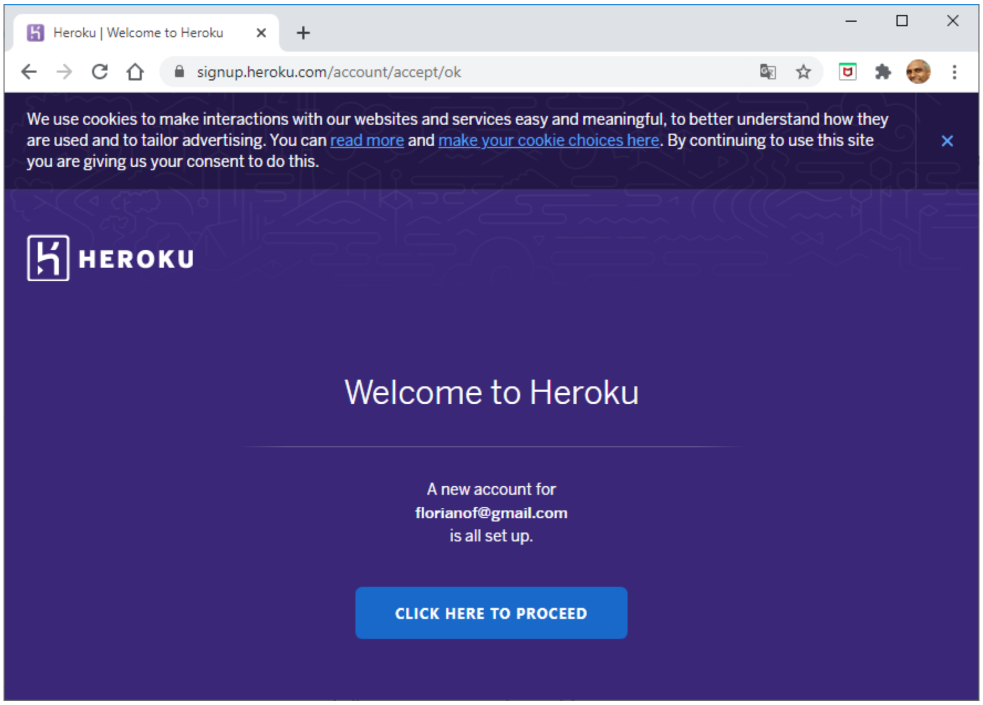
```
C:\Windows\System32\FlorianoDeno>deno run --allow-net index.ts
http://localhost:8080/
```

Passo 12



Hello World Deno

Passo 13


Heroku | Welcome to Heroku
signup.heroku.com/account/accept/ok
HEROKU

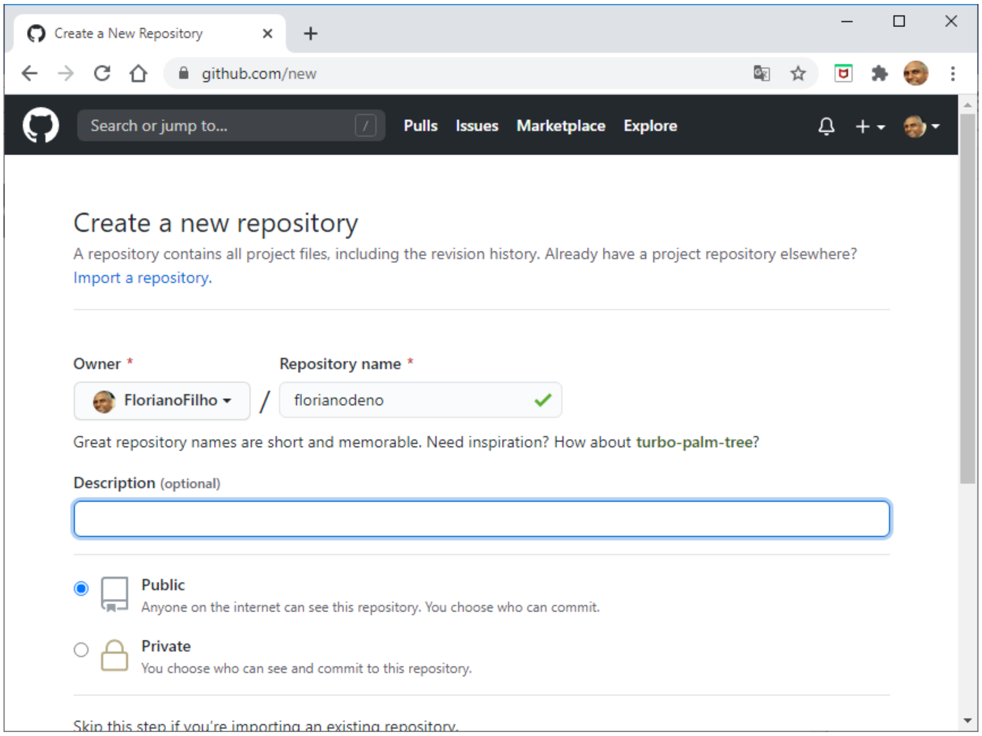
We use cookies to make interactions with our websites and services easy and meaningful, to better understand how they are used and to tailor advertising. You can read more and make your cookie choices here. By continuing to use this site you are giving us your consent to do this.

Welcome to Heroku

A new account for
florianof@gmail.com
is all set up.

CLICK HERE TO PROCEED

Passo 14



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Owner * FlorianoFilho / Repository name * florianodeno ✓

Great repository names are short and memorable. Need inspiration? How about turbo-palm-tree?

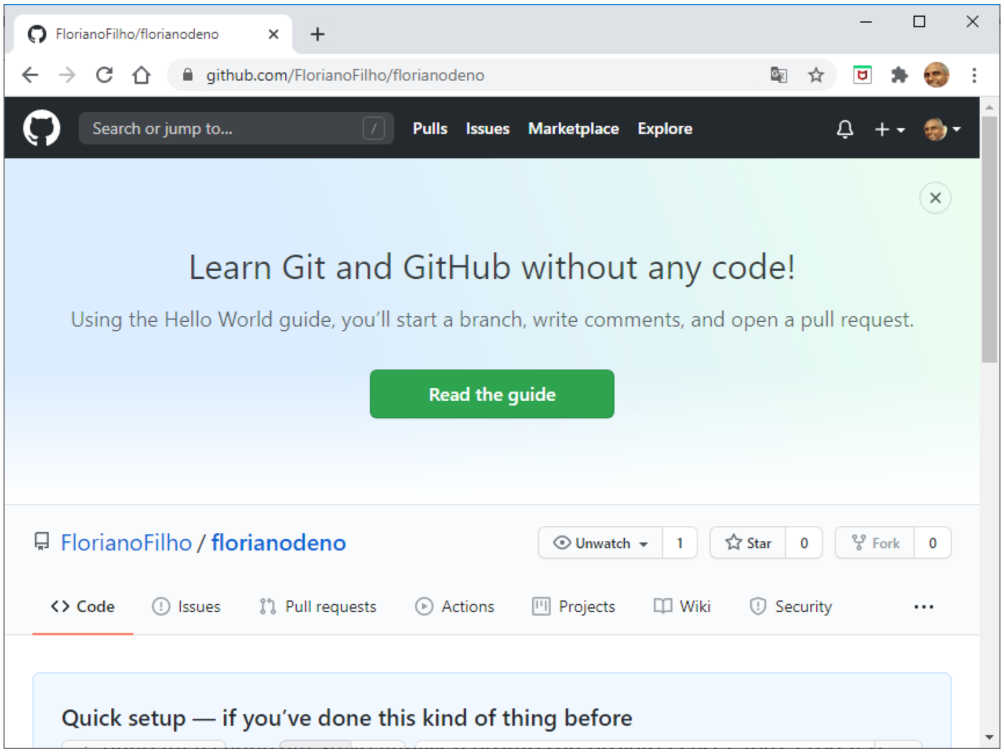
Description (optional)

● Public
Anyone on the internet can see this repository. You choose who can commit.

○ Private
You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

Passo 15



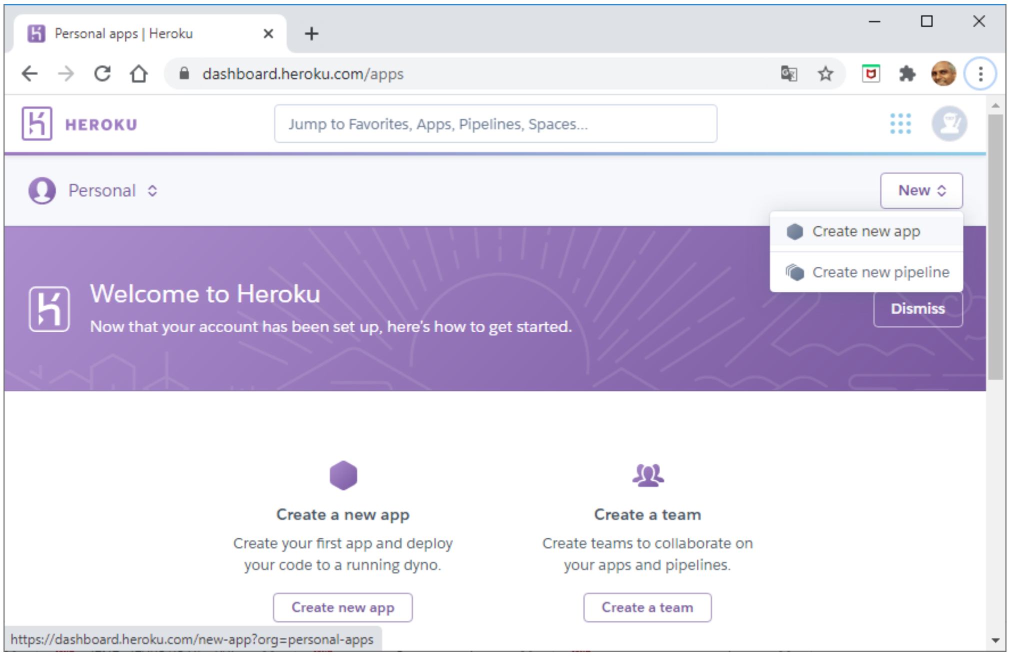
Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.

FlorianoFilho / florianodeno

Quick setup — if you've done this kind of thing before

Passo 16


Personal apps | Heroku
dashboard.heroku.com/apps
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...
Personal
New
Create new app
Create new pipeline
Dismiss
Create new app
Create a team
https://dashboard.heroku.com/new-app?org=personal-apps

Welcome to Heroku

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

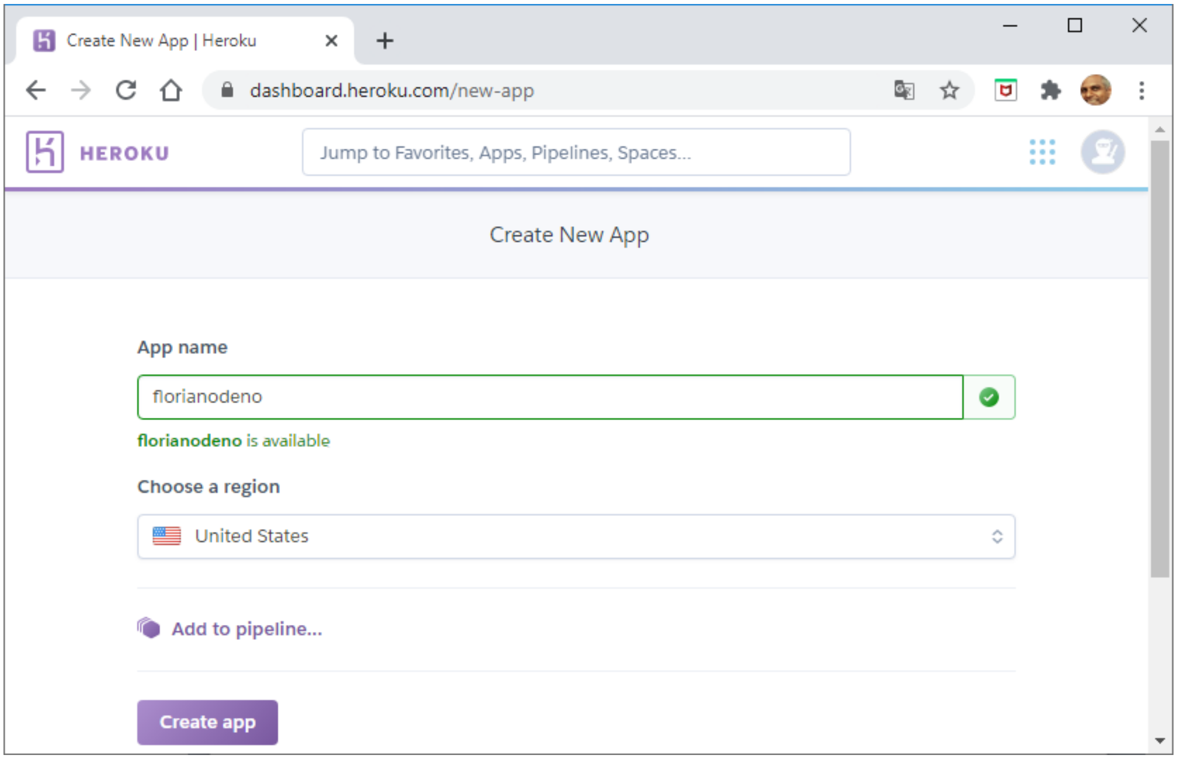
Create a new app

Create your first app and deploy your code to a running dyno.

Create a team

Create teams to collaborate on your apps and pipelines.

Passo 17



Create New App | Heroku
dashboard.heroku.com/new-app
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...

Create New App

App name

florianodeno

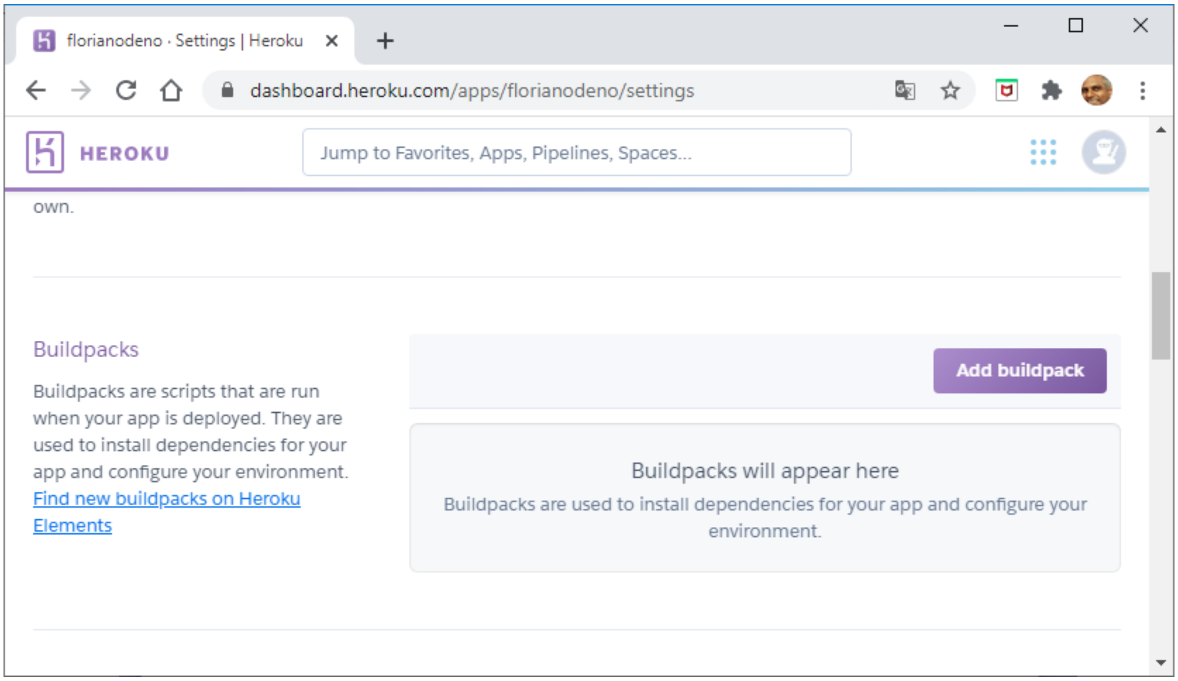
florianodeno is available

Choose a region

United States

Add to pipeline...
Create app

Passo 18



florianodeno · Settings | Heroku
dashboard.heroku.com/apps/florianodeno/settings
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...

own.

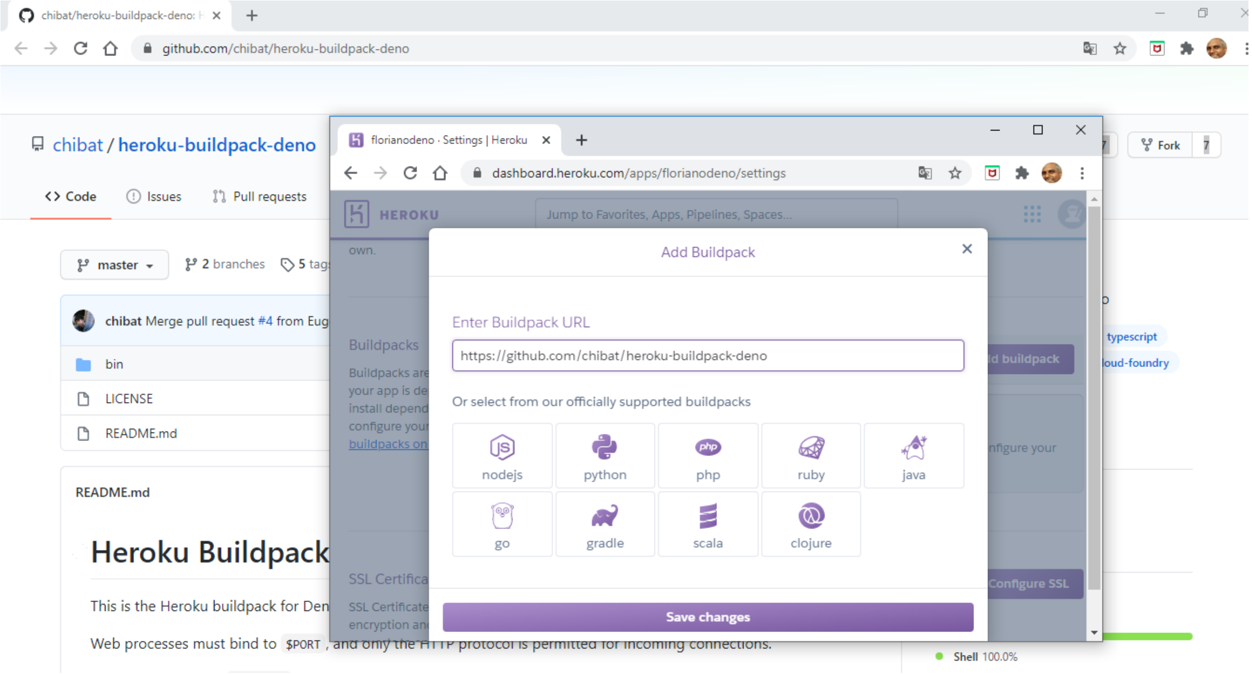
Buildpacks

Buildpacks are scripts that are run when your app is deployed. They are used to install dependencies for your app and configure your environment. Find new buildpacks on Heroku Elements

Buildpacks will appear here

Buildpacks are used to install dependencies for your app and configure your environment.

Passo 19


chibat/heroku-buildpack-deno
github.com/chibat/heroku-buildpack-deno
chibat / heroku-buildpack-deno
Code
Issues
Pull requests
master
2 branches
5 tag
chibat Merge pull request #4 from Eug
bin
LICENSE
README.md
Fork
typescript
loud-foundry
Shell 100.0%
florianodeno · Settings | Heroku
dashboard.heroku.com/apps/florianodeno/settings
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...
Buildpacks
SSL Certifica
dd buildpack
Configure SSL
nodejs
python
php
ruby
java
go
gradle
scala
clojure
Save changes

README.md

Heroku Buildpack

This is the Heroku buildpack for Den

Web processes must bind to `$PORT` , and only the HTTP protocol is permitted for incoming connections.

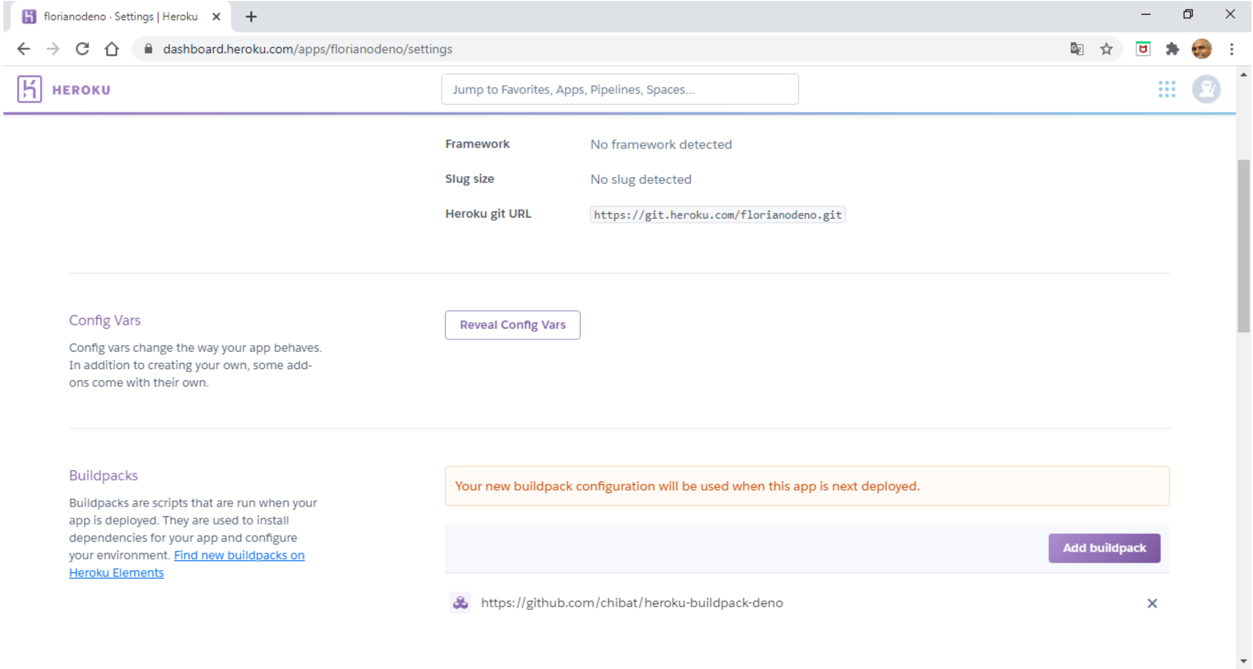
Add Buildpack

Enter Buildpack URL

https://github.com/chibat/heroku-buildpack-deno

Or select from our officially supported buildpacks

Passo 20


florianodeno · Settings | Heroku
dashboard.heroku.com/apps/florianodeno/settings
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...
Reveal Config Vars
Add buildpack

Framework No framework detected

Slug size No slug detected

Heroku git URL `https://git.heroku.com/florianodeno.git`

Config Vars

Config vars change the way your app behaves. In addition to creating your own, some add-ons come with their own.

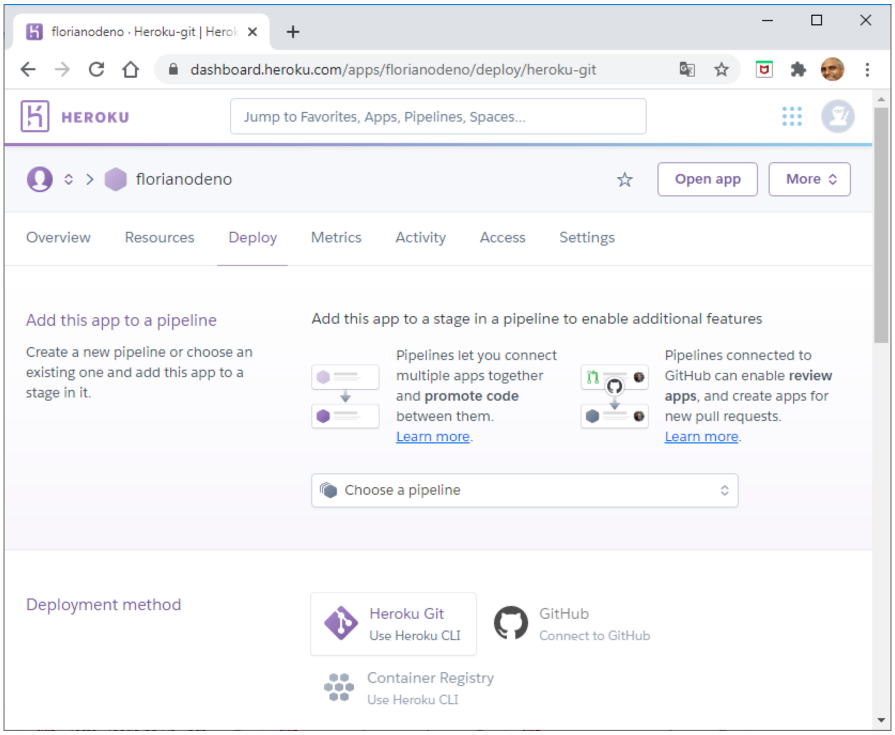
Buildpacks

Buildpacks are scripts that are run when your app is deployed. They are used to install dependencies for your app and configure your environment. Find new buildpacks on Heroku Elements

Your new buildpack configuration will be used when this app is next deployed.

https://github.com/chibat/heroku-buildpack-deno

Passo 21


florianodeno · Heroku-git | Herol
dashboard.heroku.com/apps/florianodeno/deploy/heroku-git
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...
florianodeno
Open app
More
Overview
Resources
Deploy
Metrics
Activity
Access
Settings

Add this app to a pipeline

Create a new pipeline or choose an existing one and add this app to a stage in it.

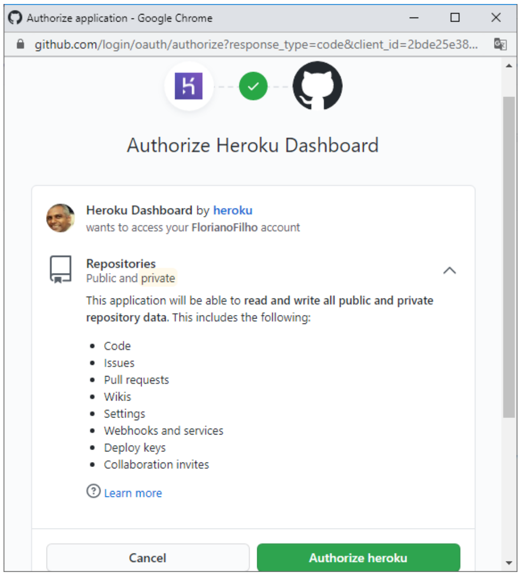
Add this app to a stage in a pipeline to enable additional features

Pipelines let you connect multiple apps together and **promote code** between them. Learn more.

Pipelines connected to GitHub can enable **review apps**, and create apps for new pull requests. Learn more.

Deployment method

Passo 22


Authorize application - Google Chrome
github.com/login/oauth/authorize?response_type=code&client_id=2bde25e38...

Authorize Heroku Dashboard

Heroku Dashboard by heroku
wants to access your **FlorianoFilho** account

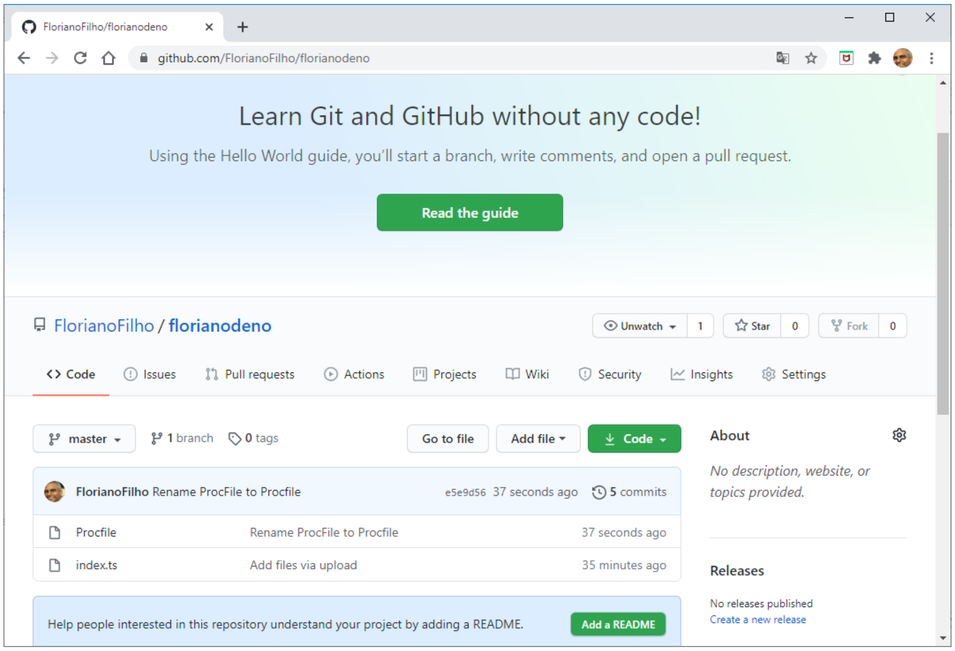
Repositories
Public and private

This application will be able to **read and write all public and private repository data**. This includes the following:

- Code
- Issues
- Pull requests
- Wikis
- Settings
- Webhooks and services
- Deploy keys
- Collaboration invites

Learn more
Cancel
Authorize heroku

Passo 23



FlorianoFilho/florianodeno
github.com/FlorianoFilho/florianodeno

Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.

FlorianoFilho Rename ProcFile to Procfile e5e9d56 37 seconds ago 5 commits

Procfile	Rename ProcFile to Procfile	37 seconds ago
index.ts	Add files via upload	35 minutes ago

Help people interested in this repository understand your project by adding a README.

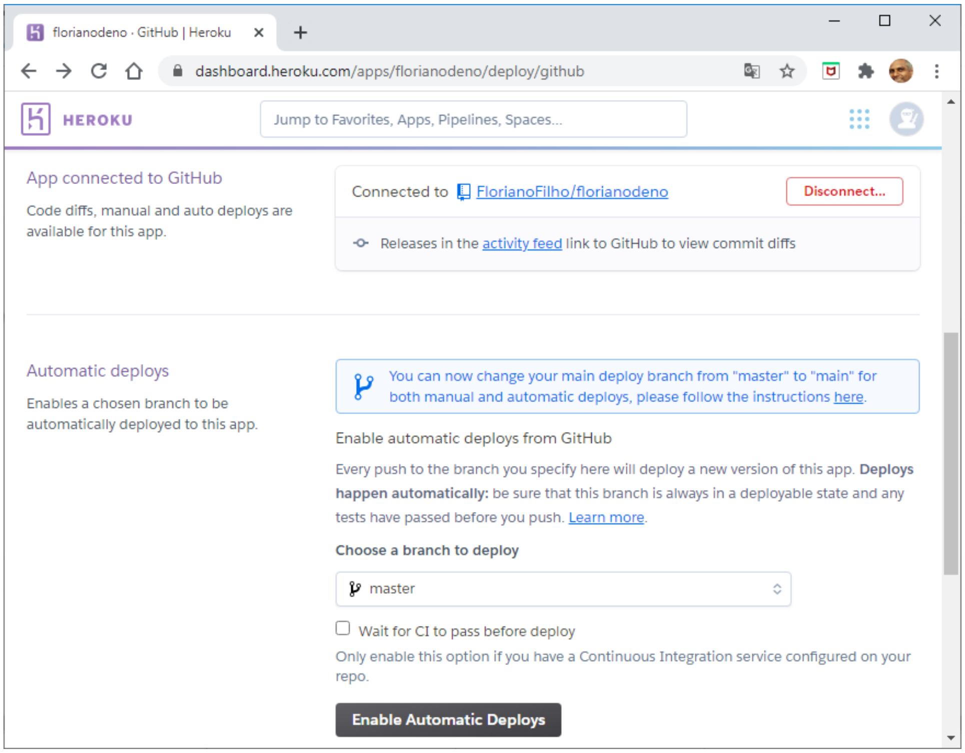
About

No description, website, or topics provided.

Releases

No releases published
Create a new release

Passo 24



florianodeno · GitHub | Heroku
dashboard.heroku.com/apps/florianodeno/deploy/github
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...

App connected to GitHub

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

Connected to FlorianoFilho/florianodeno

Releases in the activity feed link to GitHub to view commit diffs

Automatic deploys

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

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions here.

Enable automatic deploys from GitHub

Every push to the branch you specify here will deploy a new version of this app. **Deploys happen automatically:** be sure that this branch is always in a deployable state and any tests have passed before you push. Learn more.

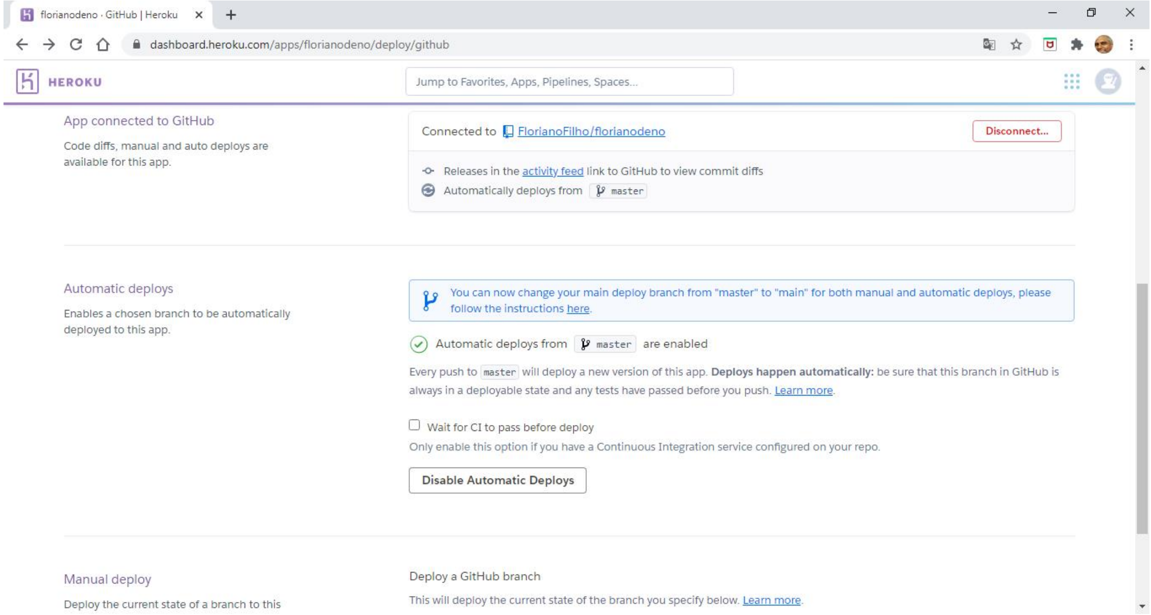
Choose a branch to deploy

master

□ Wait for CI to pass before deploy

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

Passo 25



florianodeno · GitHub | Heroku

dashboard.heroku.com/apps/florianodeno/deploy/github

App connected to GitHub

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

Connected to FlorianoFilho/florianodeno

Disconnect...

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.

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions here.

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

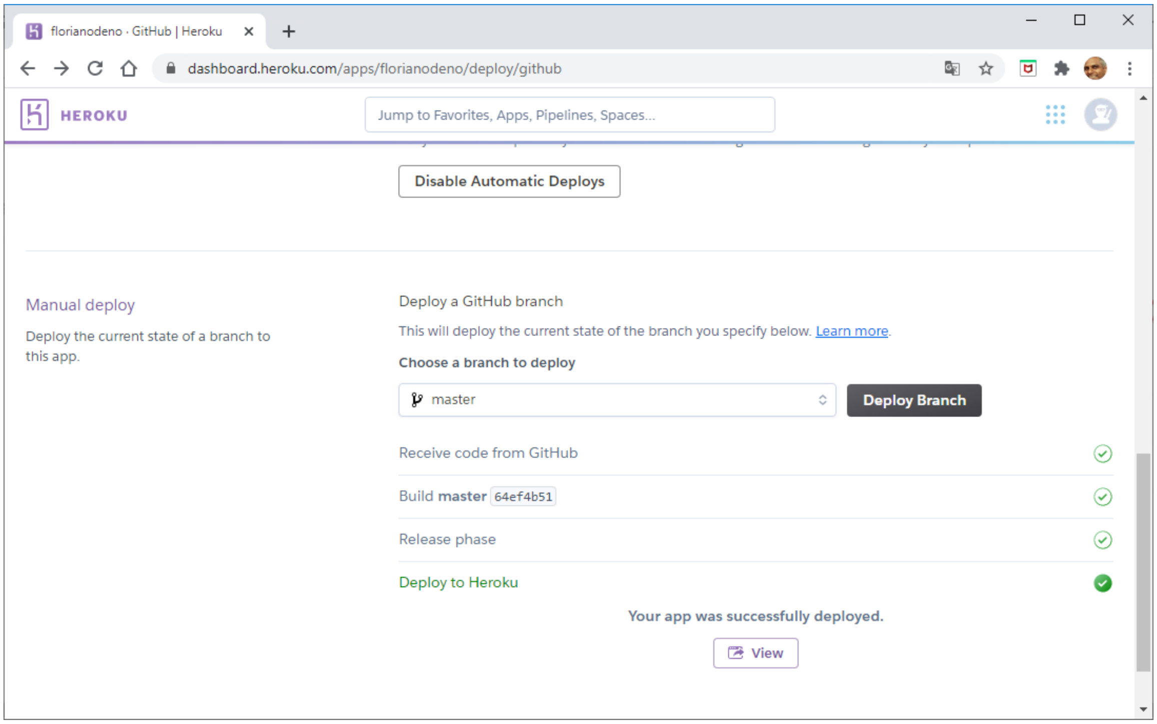
Manual deploy

Deploy the current state of a branch to this

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. Learn more.

Passo 26



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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.

Choose a branch to deploy

master

Deploy Branch

Receive code from GitHub ✓

Build **master** 64ef4b51 ✓

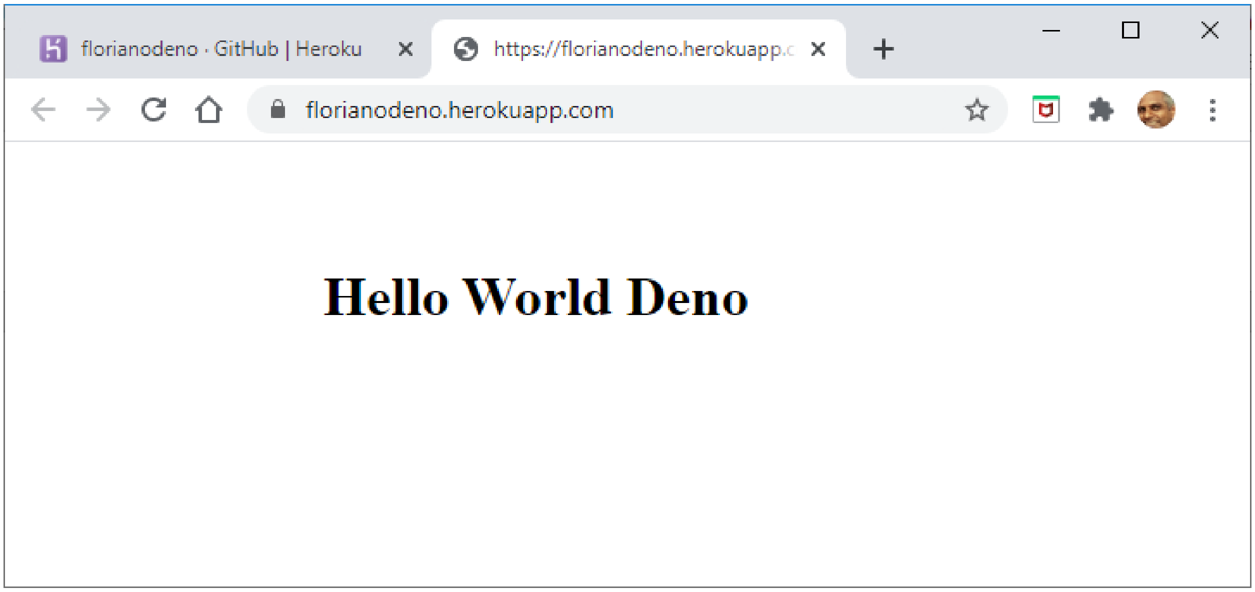
Release phase ✓

Deploy to Heroku ✓

Your app was successfully deployed.

View

Passo 27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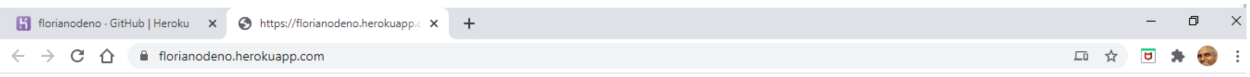
Hello World Deno

Passo 28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Leandro Vilas Boas, obrigado! Floriano.

Passo 29 (Acessar o link abaixo):

https://florianodeno.herokuapp.com/

Referência

BOAS, Leandro Vilas. Criando Hello World com Deno e publicando no Heroku. Disponível em: <https://medium.com/@leandrovboas/criando-hello-word-com-deno-e-publicando-no-heroku-7d1f49912b52> Acesso em: 17 out. 2020.