

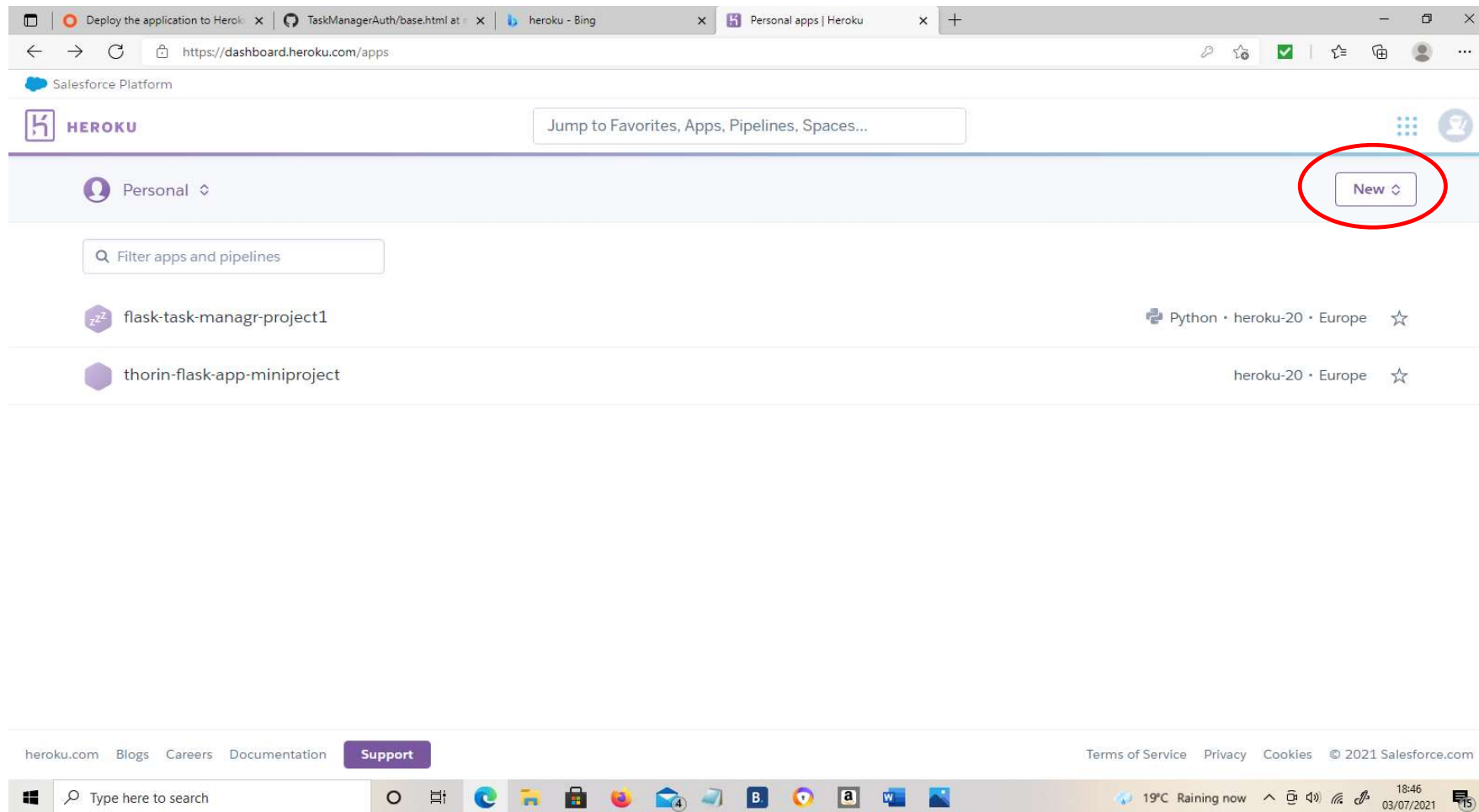
Deployment to Heroku

Deploying to Heroku

There are four steps to deploying to Heroku:-

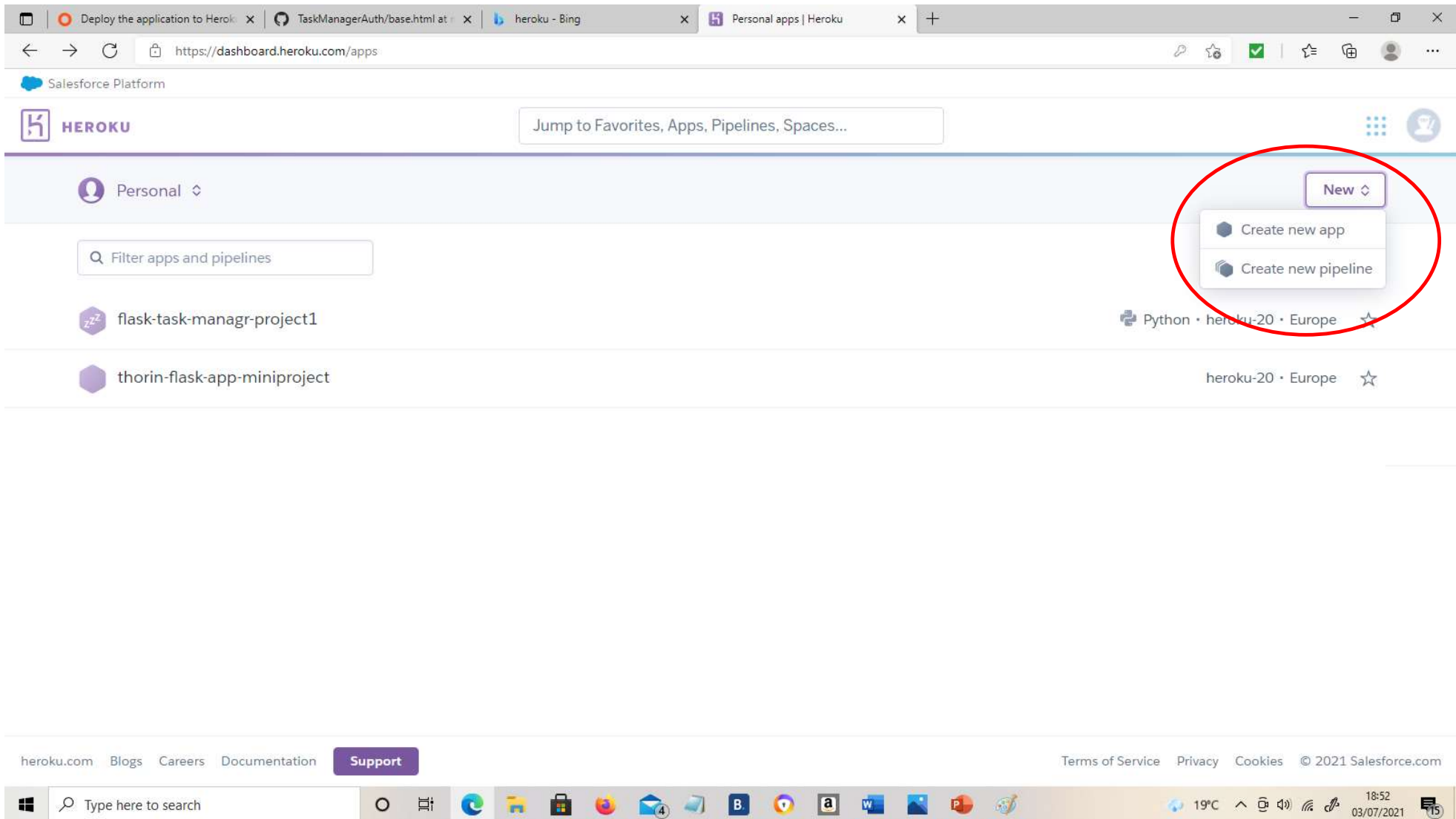
1. Create a Heroku app
2. Link local Git repository with Heroku **or** set up Automatic deployment
3. Create a requirements.txt file which will install dependencies for the project, this tells Heroku that it uses Python.
4. Create the Procfile. A Procfile is a Heroku-specific type of file that tells Heroku how to run the project.

Step 1. Deploying to Heroku – Creating the Heroku app



Login to Heroku, click on 'New'.

Step 1. After clicking 'New', click 'Create new app'.



Step 1. Name the app, choose region, then Create App.

Names must be unique and use all lowercase letters, dashes instead of spaces.

Deploy the application to Heroku x TaskManagerAuth/base.html at x heroku - Bing x Create New App | Heroku x +

https://dashboard.heroku.com/new-app

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Create New App

App name

app-name

Choose a region

United States

Add to pipeline...

Create app

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Type here to search

19°C 18:56 03/07/2021

Step 2a. Deployment to Heroku using CLI (Heroku Toolbelt)

At the command line in project (Gitpod)

`'npm install -g Heroku'`

Node Package Manager NPM -g means 'install Heroku globally'

`'heroku login -i'`

Next, login to Heroku

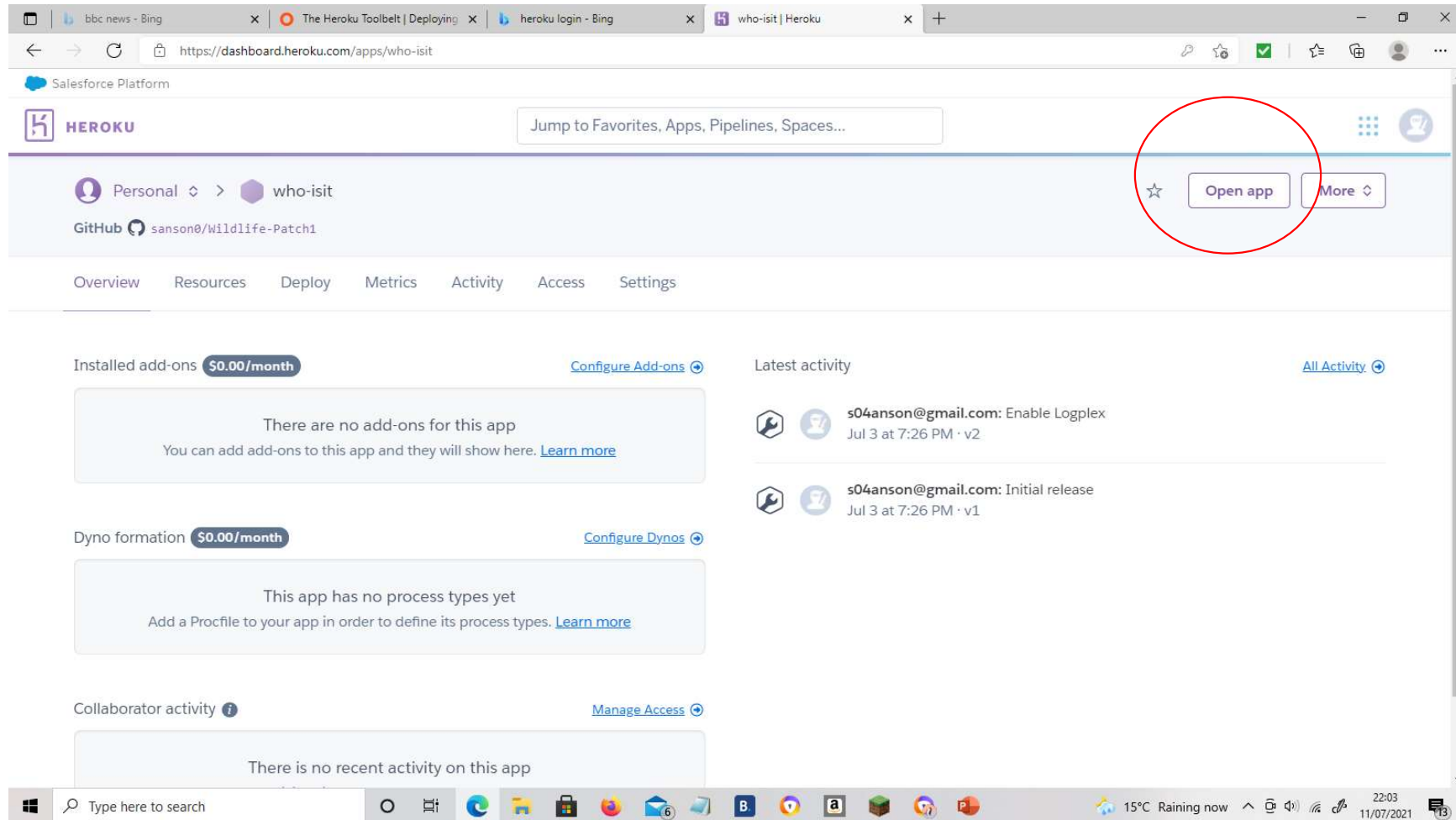
`'Heroku apps'`

lists all the apps a user has created

Live site has an address similar to <https://Name-of-project.herokuapp.com/>

Control –click on the address to launch site or 'Open app' in the Heroku site.
This is the default Heroku app at the moment but with user's project name.

Step 2a. Deployment to Heroku App can be opened using 'Open app'



Step 2a. Connect Git remote to Heroku

- At the command line type 'git status' to check on project files status
- Workspace linked to Github repository? If not type 'git init'
- Add files to staging area 'git add -A'
- Then 'git commit -m "Deployment to Heroku"'

Step 2a. Connect Git remote to Heroku

The screenshot shows the Heroku dashboard for the 'wildlife-patch' app. The 'App Information' section displays the following details:

Field	Value
App Name	wildlife-patch
Region	Europe
Stack	heroku-20
Framework	Python
Slug size	54.0 MiB of 500 MiB
GitHub repo	sanon0/Wildlife-Patch1
Heroku git URL	https://git.heroku.com/wildlife-patch.git

The 'Heroku git URL' is circled in red in the original image. The browser's address bar shows the URL `https://dashboard.heroku.com/apps/wildlife-patch/settings`. The Windows taskbar at the bottom shows the date and time as 11/07/2021, 22:13.

Copy git url circled in red

Step 2a. Connect Git remote to Heroku

To add another remote, type 'git remote add' then paste the Heroku Git URL next to the command, press return

When 'git remote -v' is typed press return, the Heroku Git URL and original Github URL are displayed.

To push code directly to Heroku, type 'git push -u Heroku master' press return

Currently an error displays "No default language could be detected for this app"

The next step (3) is required to tell Heroku that the language required is Python, this step is to create a requirements.txt file.

Step 2b. Automatic deployment Click on 'Connect to Github' under 'Deploy' menu

The screenshot shows the Heroku dashboard for the 'who-is-it' application. The 'Deploy' tab is selected in the top navigation bar. Under the 'Deploy' section, there are two main areas: 'Add this app to a pipeline' and 'Deployment method'. The 'Deployment method' section shows three options: 'Heroku Git' (Use Heroku CLI), 'GitHub' (Connect to GitHub), and 'Container Registry' (Use Heroku CLI). The 'GitHub' option is circled in red. Below the 'Deployment method' section, there is a section for 'Deploy using Heroku Git' which includes instructions on how to install the Heroku CLI.

heroku - Bing | who-is-it - Heroku-git | Heroku | mongodb - Bing | Data | Atlas: MongoDB Atlas | Deploy the application to Heroku | +

https://dashboard.heroku.com/apps/who-is-it/deploy/heroku-git

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

Personal > who-is-it

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.](#)

Choose a pipeline

Deployment method

Heroku Git Use Heroku CLI

GitHub Connect to GitHub

Container Registry Use Heroku CLI

Deploy using Heroku Git

Use git in the command line or a GUI tool to

Install the Heroku CLI

Download and install the [Heroku CLI](#).

Click on 'Github'

Step 2b. 'Connect to Github' on the Heroku site

The screenshot shows the Heroku dashboard for an application named 'who-is-it'. The browser tabs include 'heroku - Bing', 'who-is-it - GitHub | Heroku', 'mongodb - Bing', 'Data | Atlas: MongoDB Atlas', and 'Deploy the application to Heroku'. The URL is <https://dashboard.heroku.com/apps/who-is-it/deploy/github>.

The dashboard features a search bar at the top: "Jump to Favorites, Apps, Pipelines, Spaces...". Below it, there's a section titled "Add this app to a pipeline" with instructions: "Create a new pipeline or choose an existing one and add this app to a stage in it." It also mentions "Pipelines let you connect multiple apps together and **promote code** between them." and "Pipelines connected to GitHub can enable **review apps**, and create apps for new pull requests." There's a "Choose a pipeline" dropdown menu.

The "Deployment method" section shows three options: "Heroku Git Use Heroku CLI", "GitHub Connect to GitHub" (which is selected), and "Container Registry Use Heroku CLI".

The "Connect to GitHub" section has the text: "Connect this app to GitHub to enable code diffs and deploys." Below this is a "Search for a repository to connect to" section. It includes a dropdown menu showing "sanson0" and a text input field labeled "repo-name". A red circle highlights the "repo-name" input field and the "Search" button. Below the input field, there's a link: "Missing a GitHub organization? [Ensure Heroku Dashboard has team access.](#)".

The footer of the dashboard includes links for "heroku.com", "Blogs", "Careers", "Documentation", and a "Support" button. On the right, there are links for "Terms of Service", "Privacy", "Cookies", and a copyright notice "© 2021 Salesforce.com".

The Windows taskbar at the bottom shows the search bar "Type here to search" and various application icons. The system clock shows "19:31 03/07/2021".

Find repo name

Step 2b. 'Connect' after searching repository name

The screenshot shows the Heroku dashboard for an application named 'who-is-it'. The browser tabs include 'heroku - Bing', 'who-is-it - GitHub | Heroku', 'mongodb - Bing', 'Data | Atlas: MongoDB Atlas', and 'Deploy the application to Heroku...'. The URL is <https://dashboard.heroku.com/apps/who-is-it/deploy/github>.

The dashboard features a search bar at the top with the text 'Jump to Favorites, Apps, Pipelines, Spaces...'. Below this, there are two main sections:

- Add this app to a pipeline:** This section includes instructions on creating a new pipeline or adding the app to an existing one. It also mentions that pipelines connected to GitHub can enable **review apps** and create apps for new pull requests. A dropdown menu labeled 'Choose a pipeline' is present.
- Deployment method:** This section offers three options: 'Heroku Git' (Use Heroku CLI), 'GitHub' (Connect to GitHub), and 'Container Registry' (Use Heroku CLI).

The **Connect to GitHub** section is highlighted. It includes the text 'Connect this app to GitHub to enable code diffs and deploys.' and a search bar with the text 'Search for a repository to connect to'. The search bar contains the text 'sanon0' and a dropdown menu showing 'Wildlife-Patch1'. A 'Search' button is next to the search bar. Below the search bar, there is a link: 'Missing a GitHub organization? [Ensure Heroku Dashboard has team access.](#)'. At the bottom of this section, the repository name 'sanon0/Wildlife-Patch1' is displayed, and a 'Connect' button is circled in red.

When repo is found click 'Connect', don't click 'Automatic deployment' yet...

Step 2b. Automatic deployment – after clicking ‘Settings’

The screenshot shows the Heroku dashboard for the 'wildlife-patch' app. The 'Settings' tab is selected and circled in red. Below the navigation bar, the 'App Information' section displays various app details. At the bottom, the 'Config Vars' section is visible, with a 'Reveal Config Vars' button circled in red.

App Information

App Name	wildlife-patch
Region	Europe
Stack	heroku-20
Framework	Python
Slug size	54.0 MiB of 500 MiB
GitHub repo	sanson0/Wildlife-Patch1
Heroku git URL	https://git.heroku.com/wildlife-patch.git

Config Vars

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

[Reveal Config Vars](#)

Go into ‘Settings’ and click ‘Config Vars’









Step 2b. Automatic deployment – after clicking ‘Config Vars’

Config Vars

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

Config Vars

[Hide Config Vars](#)

IP	0.0.0.0	 
MONGO_DBNAME	garden_project	 
MONGO_URI	mongodb+srv:// : @cluster0.p	 
PORT	5000	 
SECRET_KEY		 
KEY	VALUE	

Step 2b. Automatic deployment – after clicking ‘Config Vars’

The screenshot shows the Heroku dashboard for the application 'wildlife-patch'. The 'Config Vars' section is active, displaying a list of configuration variables. The variables shown are:

Key	Value
IP	0.0.0.0
MONGO_DBNAME	garden_project
MONGO_URI	mongodb+srv:// : @ .p
PORT	5000
SECRET_KEY	

Annotations with red arrows point to specific parts of the MONGO_URI value:

- 'Username for MongoDB' points to the empty field before the colon.
- 'Password for MongoDB' points to the empty field after the colon.
- 'Cluster name for MongoDB' points to the empty field before the '@'.

A text label 'Your Flash secret key from Env.py file' points to the SECRET_KEY field.

The 'Buildpacks' section is partially visible at the bottom, showing a search bar and an 'Add buildpack' button.

Don't include quotes "". Then click 'Hide Vars' and go to deploy menu

2b. Automatic deployment – after clicking master branch, deploy branch but **WAIT** before clicking ‘Enable Automatic Deploys’. Steps 3 and 4 are required first.

The screenshot shows the Heroku dashboard for an application named 'who-is-it'. The 'Deploy to GitHub' settings are visible, showing the 'master' branch selected for deployment. The 'Enable Automatic Deploys' button is circled in red. Below, the 'Manual deploy' section shows the 'Deploy Branch' button also circled in red.

heroku - Bing | who-is-it - GitHub | Heroku | mongodb - Bing | Data | Atlas: MongoDB Atlas | Deploy the application to Heroku | +

https://dashboard.heroku.com/apps/who-is-it/deploy/github

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

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.

Enable 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

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Type here to search

17°C 22:08 03/07/2021

Step 3. Create requirements.txt file

Type `'pip3 freeze --local > requirements.txt'`

Output of freeze command goes to requirements.txt

This tells Heroku which applications and dependencies are required to run the app.

`'git add -A'` (Adds requirements.txt to staging area)

`'git commit - "Add requirements.txt"'`

`'git push --u heroku master'` (push code to Heroku)

This installs python and pip installed all the other requirements such as Flask, Jinja, Click, etc.

'Application error' shows as the Procfile needs to be created.

Step 4. Creating the Procfile

A Procfile is a Heroku-specific type of file that tells Heroku how to run the project

Type `'echo web:python app.py > Procfile'`

`'git add Procfile'`

`'git commit -m "Add Procfile"'`

`'git push'`

Deploy to Heroku

- Make sure that the Procfile and requirements.txt file are pushed to Github before automatic deployment button is clicked.

If deploying to Heroku using automatic deployment

Remove the Heroku remotes by typing

`'git remote rm Heroku'`

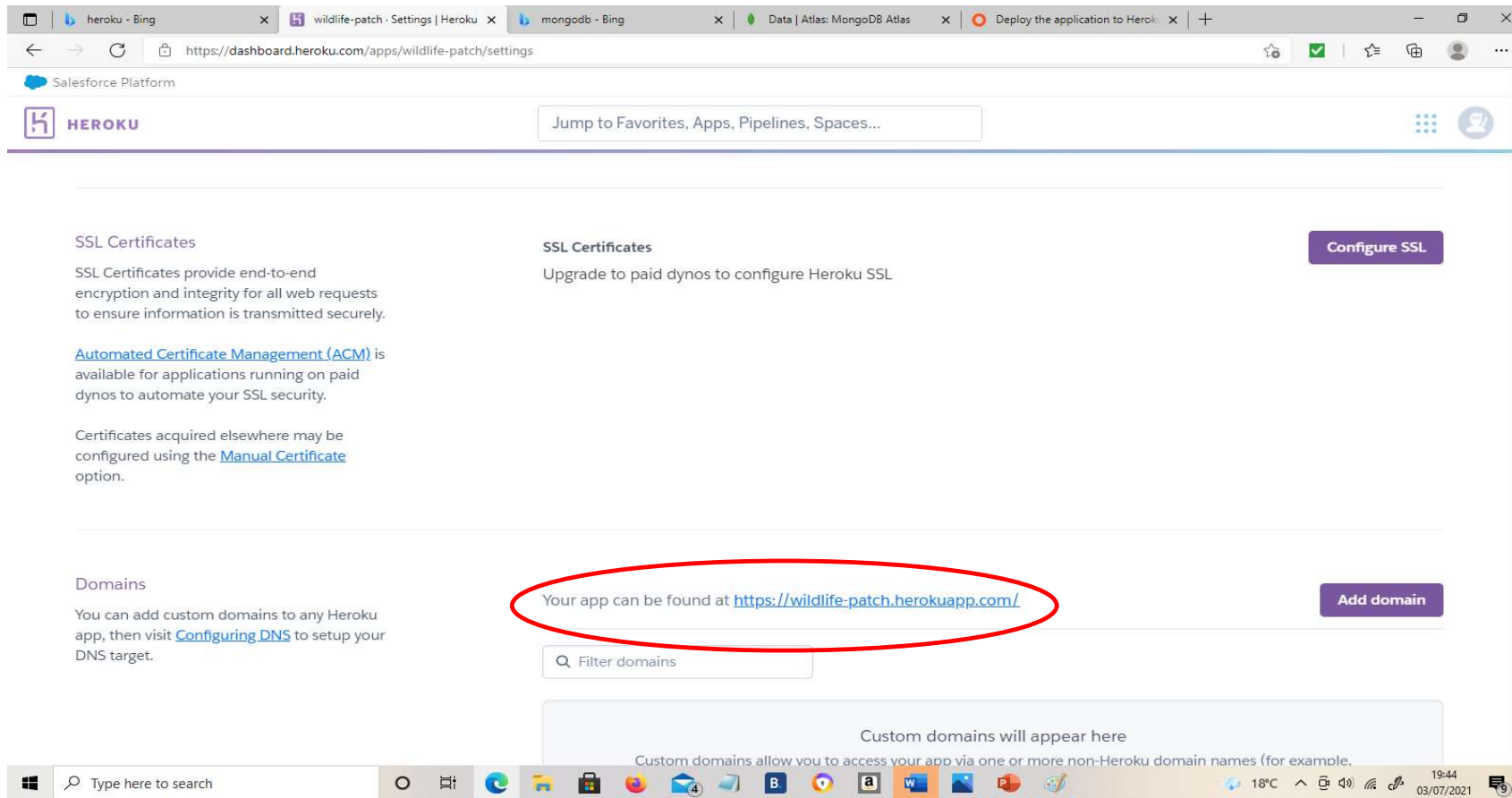
then only Github is connected to the app

Deploy to Heroku

The screenshot shows the Heroku dashboard for an application named 'wildlife-patch'. The browser tabs at the top include 'heroku - Bing', 'wildlife-patch | Heroku', 'mongodb - Bing', 'Data | Atlas: MongoDB Atlas', and 'Deploy the application to Heroku...'. The address bar shows 'https://dashboard.heroku.com/apps/wildlife-patch'. The Heroku logo is in the top left, and a search bar is in the top right. Below the header, the application name 'wildlife-patch' is displayed, along with a 'Personal' dropdown and a 'GitHub' link to 'sanson0/Wildlife-Patch1' with a 'master' branch button. There are 'Open app' and 'More' buttons. The main content area has tabs for 'Overview', 'Resources', 'Deploy', 'Metrics', 'Activity', 'Access', and 'Settings'. The 'Overview' tab is active. It shows 'Installed add-ons' with a '\$0.00/month' badge and a 'Configure Add-ons' link. A message states 'There are no add-ons for this app' with a 'Learn more' link. Below that, 'Dyno formation' is shown with a '\$0.00/month' badge and a 'Configure Dynos' link. It indicates 'This app is using free dynos' and shows a table with columns 'web', 'python', and 'app.py', with a status of 'ON'. At the bottom left, 'Collaborator activity' shows 's04anson@gmail.com' with a 'Manage Access' link and '20 deploys'. On the right, 'Latest activity' shows a list of events: 'Deployed' (df443a03) at 1:53 PM, 'Build succeeded' at 1:52 PM, 'Deployed' (ec9cf785) at 11:25 AM, 'Build succeeded' at 11:25 AM, and 'Deployed' (3cbf7ae2) on Jul 1 at 11:48 AM. Each event has a 'Compare diff' link. The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with temperature, time (19:41), and date (03/07/2021).

Your app is successfully deployed to Heroku

Deploy to Heroku



After the app is deployed, the url is highlighted by the red ellipse.

Automatic Deploy to Heroku

Once the app is deployed it is updated automatically whenever changes are made to the code.