



TERM 2

ASSESSABLE ACTIVITY

CFGS DAW

Important: this activity is assessable and computes for the final grade.

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1. ACTIVITY

This assessable activity has two parts:

1. In the first one you have to create a Docker image of a simple Node.js application that you can find in this GitLab repository:

https://gitlab.com/lionel_ceedcv/docker-heroku-node

2. Deploy that Docker image in Heroku so it is available online. To do so you can check these official documentations from the Heroku Dev Center:

- <https://devcenter.heroku.com/categories/command-line>
- <https://devcenter.heroku.com/articles/container-registry-and-runtime>
(Getting started).

You just need to do the same but with your app instead of that downloaded sample.

I'll give you some tips you must be aware of:

- Don't forget that Heroku container uses git repositories to build the image, so the app must be in a git folder and "committed".
- You need to make some arrangements for the app itself: Heroku manages port usage, so we can't use fixed ports as we already have been doing, so when assigning ports you may need to use an environment variable. You may need some research to solve this. For instance, in Lionel's appnode, you need to change app.js and use the "port" variable this way.

```
const port = process.env.PORT || 8000;  
// Add this line to the file  
// Now port isn't fixed as 8000, if process.env.PORT  
// specify a port it will be used.  
server.listen(port);
```

// don't forget to change 8000 to port at server.listen

Remember, you only have 5 apps in Heroku free, you can manage them from browser or with commands: "Heroku apps" will show your apps "Heroku destroy app name" remove the app "appname" so you can create a new one. "heroku git:remote -a appname" changes the app you are using when pushing a container.

You can find a lot of help and info at Heroku dev center, on the internet:

<https://devcenter.heroku.com/categories/reference>

You should write down a text document in English explaining, step-by-step with text and screenshots, how you solved both parts of this activity and tested it worked properly. Make sure to include the url of the Heroku website you deployed.

SUBMISSION Upload the document **in PDF format** to the "Second Term Assessable Activity" task on AULES. (.doc/.odt/... will not be accepted)

DUE DATE: 13th of February 23:59. Submissions after this date will not be evaluated.

REMEMBER: a grade of 4 points (over 10) will be necessary to do the exam.