**How to deploy a web server to heroku**

**(Adam How, p2026677)**

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Step 1: Sign up for a free account on Heroku. After signing up, Log into Heroku.

Step 2: Ensure that you have Git installed in your system, if not install it here: <https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>

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Step 3: Install Heroku CLI into your system

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Step 4: Run the login command and login to Heroku CLI when the browser popup appears

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Next, go back to your Heroku browser and create a new app.

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Now, name your app and choose a deploy region before creating the app.

When creating a web server, you will have to create separate applications for the front end and back end components individually, so you should have at least two apps created for your web server.

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Step 5: Create a new github repo to store your codes to be uploaded into Heroku. Do this for both the front end and back end again. You can put them in separate branches under the same repository.

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Step 6: Go back to your Heroku application and under deploy, select GitHub as the deployment method, connect to your GitHub account if necessary

Type in your repo name and click on search. Click connect on the desired repo.

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Step 7: Scroll down for deployment settings.

You can opt for Automatic or Manual Deployments depending on your purposes.

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Remember to do this again when linking to any other Heroku apps using your github.

Step 8: Head over to backend dashboard and select the Resources Tab

Click on Find More Add-Ons.Graphical user interface, text, application, email

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Step 9: Under the Data Stores section, scroll down and click on ClearDB MySQL

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You should see this Add-On information page. Click on Install ClearDB MySQL.Graphical user interface, application, Teams

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Step 10: Type in the name of your Heroku App and click on the desired App, then click Submit Order Form

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(You will need a credit/debit card to be linked to your card for this transaction to pass. However, since we are using only Free features, there should be no charges made to your account)

Step 11: Go back to the Heroku App Dashboard and check the Resources Tab. You should now see ClearDB as a new Add On.

Application

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To get your ClearDB credentials, go to the Settings tab and scroll down to Config Vars.

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Step 12: Click on Reveal Config Vars and copy the entire string.

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**Understanding the link:**

mysql://b7a6c1ee0950ab:3ee893d6@us-cdbr-east-

*^ username* *^password* *^database URL*

04.cleardb.com/heroku\_1c89f72eef4896a?reconnect=true

Step 13: Head over to MySQL Workbench and add a new connection. Fill up the respective field and click on Test Connection.

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Step 14: Replace your backend code’s database connection details with ClearDB’s hostname, username, password and database name:

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Congratulations! You have deployed to Heroku!