

Lesson 05 Demo 08 Deploying a Node.js App

Objective: To deploy a Node.js app

Tools required: Node Package Manager, Visual Studio Code, Chrome Browser, and GitHub

Prerequisites: Basic Linux Commands, NPM commands, git commands, and Heroku account

Steps to be followed:

1. Create a Node.js app on a local machine

2. Push the code into the GitHub remote repository

3. Deploy the app to Heroku

Step 1: Create a Node.js app on a local machine

1.1 Open the terminal and inside the project directory execute the following command to initialize a Node.js project and generate the package.json file:
npm init -y



1.2 Open the project directory with VS Code and create a new file named server.js

```
EXPLORER

NODEPROJEC

Nodedeploy

Package_json

Js server.js

Nodestricted Mode is intended for safe code browsing. Trust this folder to enable all features. Manage Learn More

EXPLORER

Nodedeploy Js server.js

Nodedeploy

Nodedeploy

Server.js
```

1.3 Write the basic server code in the **server.js** file: const http = require('http'); const SERVER PORT = process.env.PORT ?? 3000; const SERVER HOSTNAME = "127.0.0.1"; const server = http.createServer(); server.on("request", (req, res) => { res.set header("Content-Type", "application/json") res.end(JSON.stringify({ "platform": process.platform, "date": new Date(), "message": "Hellos" **}))**; }) server.listen(SERVER_PORT, SERVER_HOSTNAME, () => { console.log('Server is up and listening on port \${SERVER PORT}'); **}**)



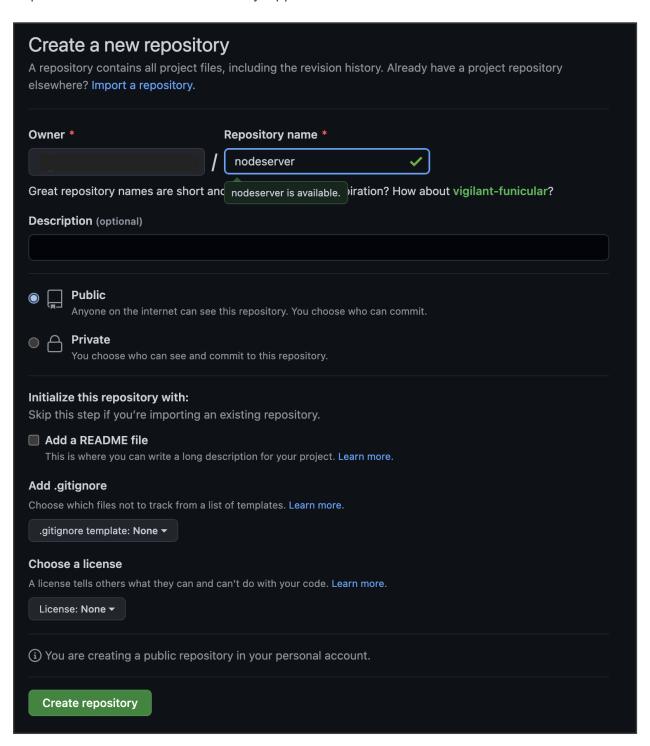
1.4 Save the file and execute the **node server.js** command on the terminal to run the server on a local machine for final testing before deployment

1.5 Open the Chrome browser and navigate to http://localhost:3000/ to view the output



Step 2: Push the code into the GitHub remote repository

2.1 Go to https://github.com/ on the system browser and create a new remote repository to push the source code of the Node.js app





2.2 In the command prompt, run the below commands in this sequence:

git init
git remote add origin <remote-url>
git add .
git commit -m "Initial Commit"
git push origin master

```
nodedeploy % git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all hint: of your new repositories, which will suppress this warning, call:
             git config --global init.defaultBranch <name>
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and hint: 'development'. The just-created branch can be renamed via this command:
 hint:
 Initialized empty Git repository in /Users/
nodedeploy % git remote add origin https://i

nodedeploy % git add .

nodedeploy % git commit -m "Initial Commit"

2 files changed, 31 insertions(+)

create mode 100644 package.json

create mode 100644 server.js

Enumerating ob:
                                                                                         /Desktop/nodeDemoProject/nodedeploy/.git/
                                                          nodedeploy % git remote add origin https://github.com/
                                                                                                                                                                                          /nodeserver.
Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 10 threads

Compressing objects: 100% (4/4), done.

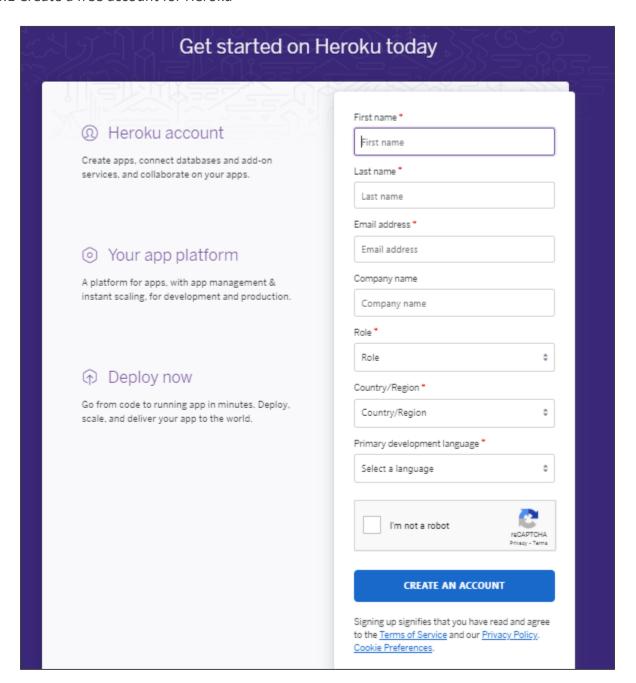
Writing objects: 100% (4/4), 741 bytes | 741.00 KiB/s, done.

Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
 To https://github.com/
                                                                       /nodeserver.git
  * [new branch]
                                   master -> master
                                                        nodedeploy %
```



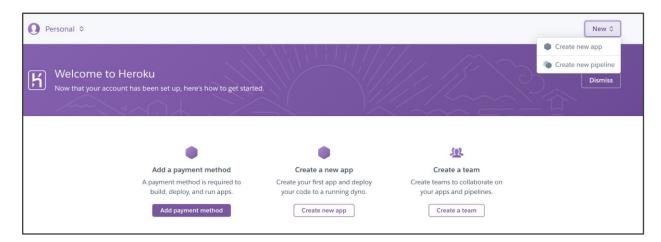
Step 3: Deploy the app to Heroku

3.1 Create a free account for Heroku





3.2 Login using the credential, click **New** on the top right corner, and select **Create new app**



3.3 Provide a name for the Node.js app and click on **Create**, then link the GitHub account to deploy the application

By following these steps, you have successfully deployed a Node.js app.