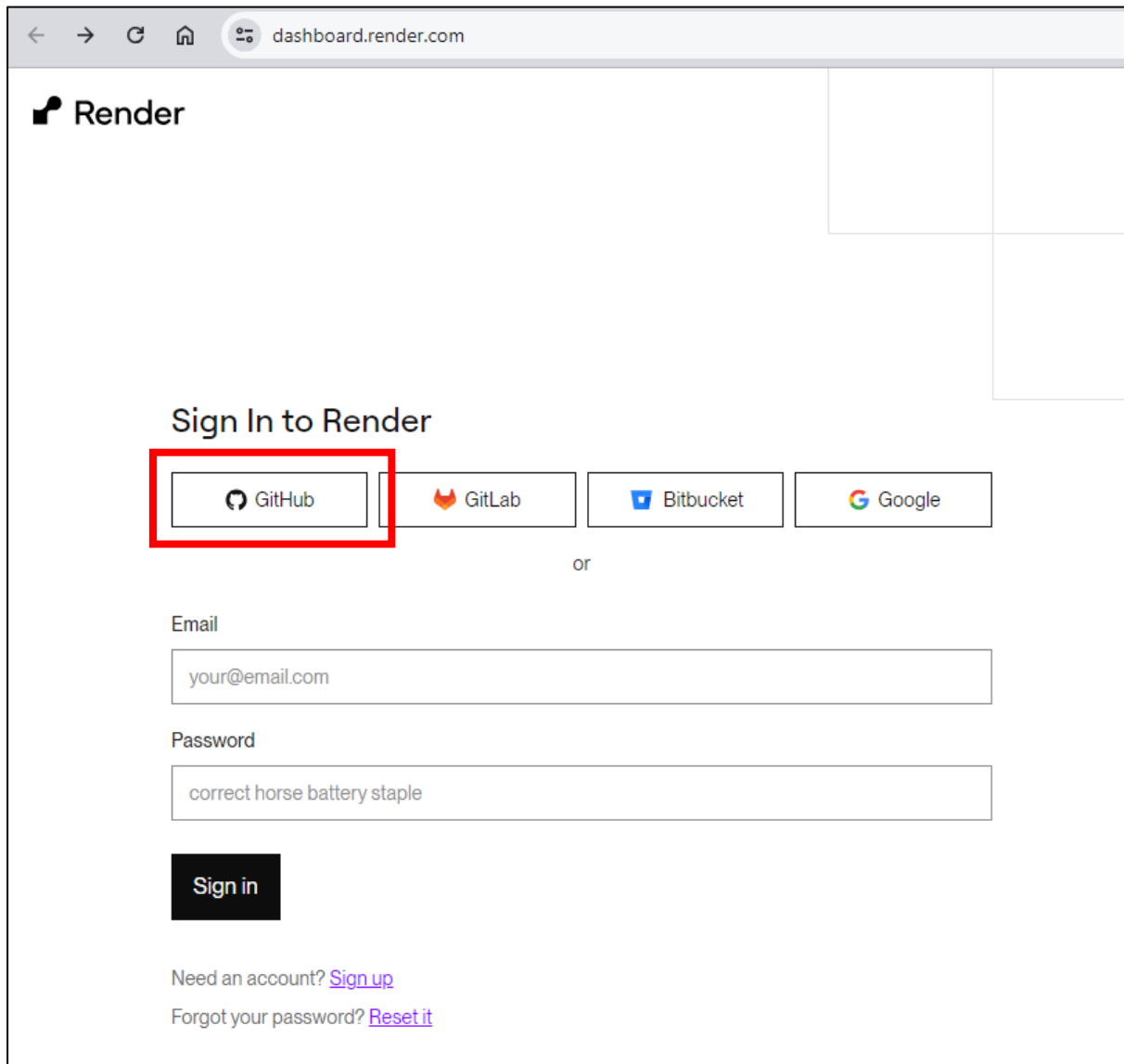


Guide to hosting a NodeJS app on Render

Step 1: Sign Up on Render

Visit Render: Go to the Render website (<https://dashboard.render.com/>).

Connect to GitHub Account: Connect to Render using GitHub Account.



The screenshot shows the Render dashboard sign-in page. The browser address bar displays `dashboard.render.com`. The Render logo is in the top left. The main heading is "Sign In to Render". Below it, there are four buttons for social login: GitHub, GitLab, Bitbucket, and Google. The GitHub button is highlighted with a red rectangular box. Below these buttons is the word "or". Underneath, there are two input fields: "Email" with the placeholder text "your@email.com" and "Password" with the placeholder text "correct horse battery staple". A black "Sign in" button is positioned below the password field. At the bottom, there are two links: "Need an account? [Sign up](#)" and "Forgot your password? [Reset it](#)".

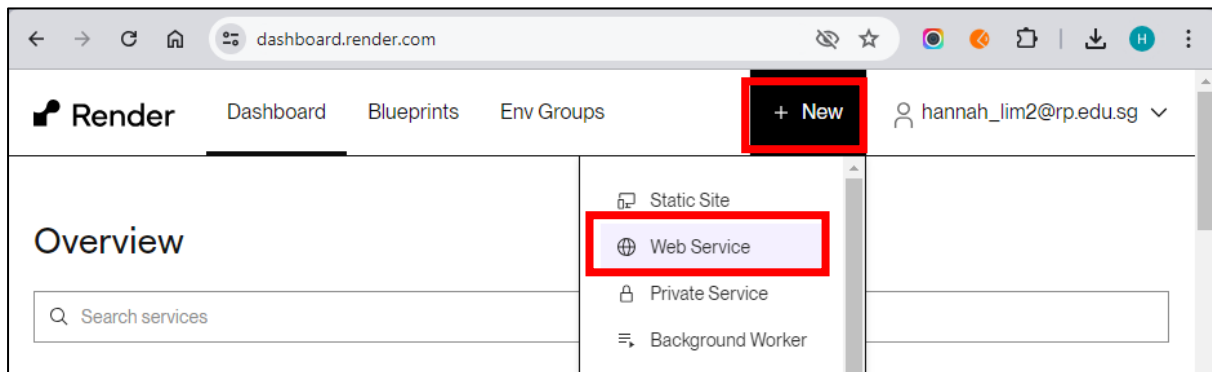
Step 2: Connect Your Repository

Create a New Web Service:

After logging in, go to the Render dashboard.

Click on the "New" button in the top-right corner.

Select "Web Service" from the dropdown menu.



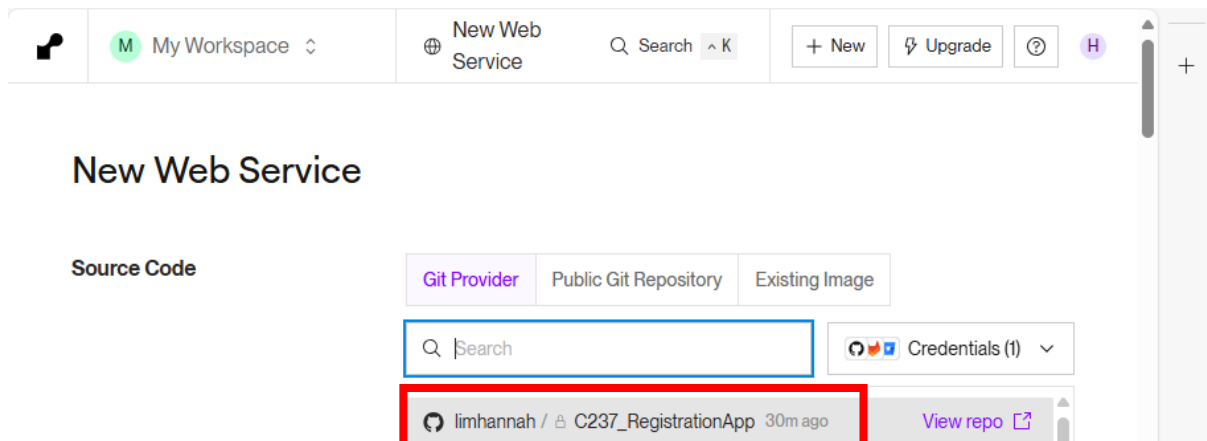
Authorize Render:

Connect Render to your GitHub account.

Authorize Render to access your repositories.

Select Repository:

Choose the repository containing your Node.js application.

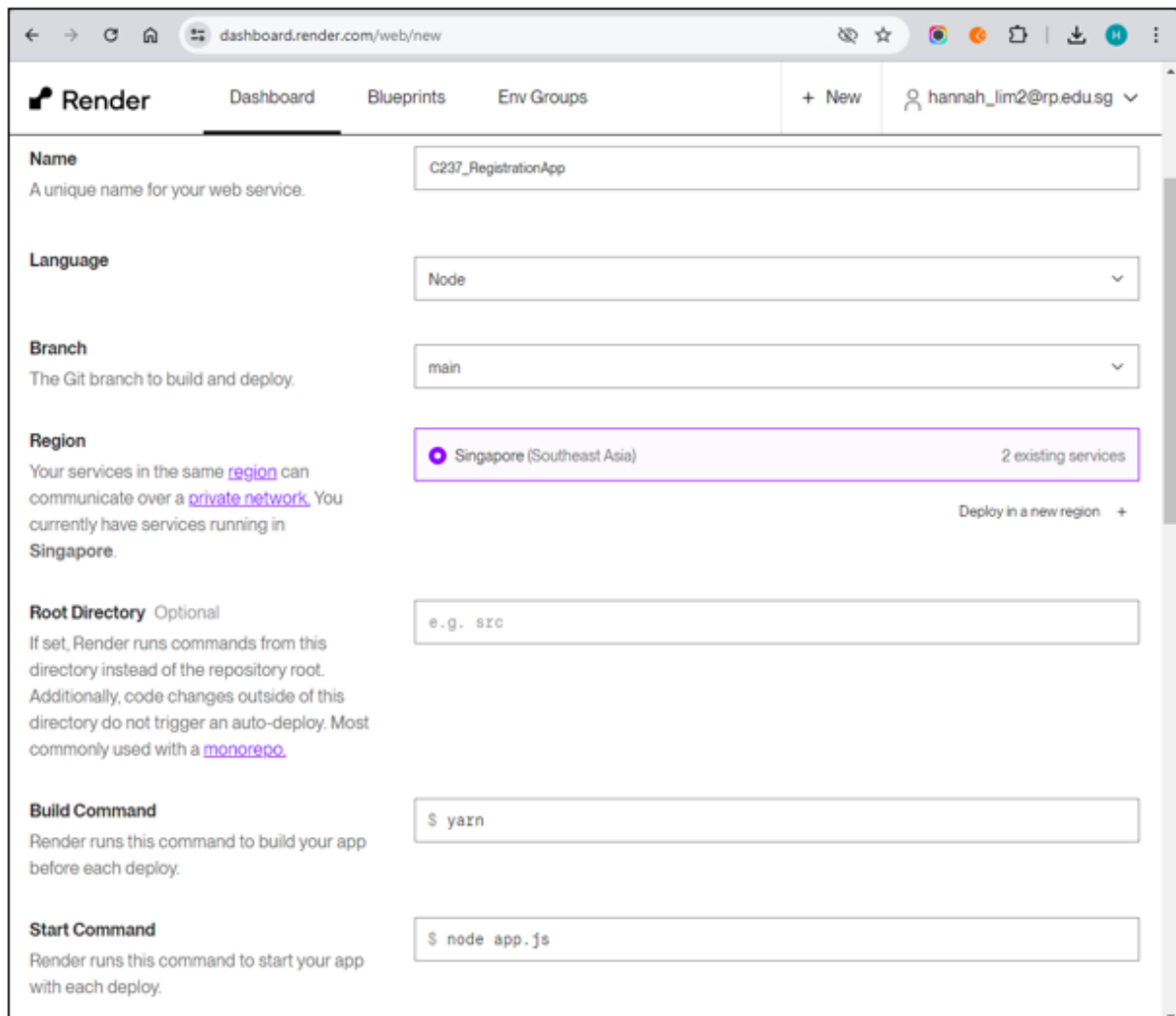


Step 3: Configure the Web Service

Settings for Web Service:

Name: Enter a **unique name** for your service. This will be the name which shows on the url.

Refer to the screenshot below for the other settings.

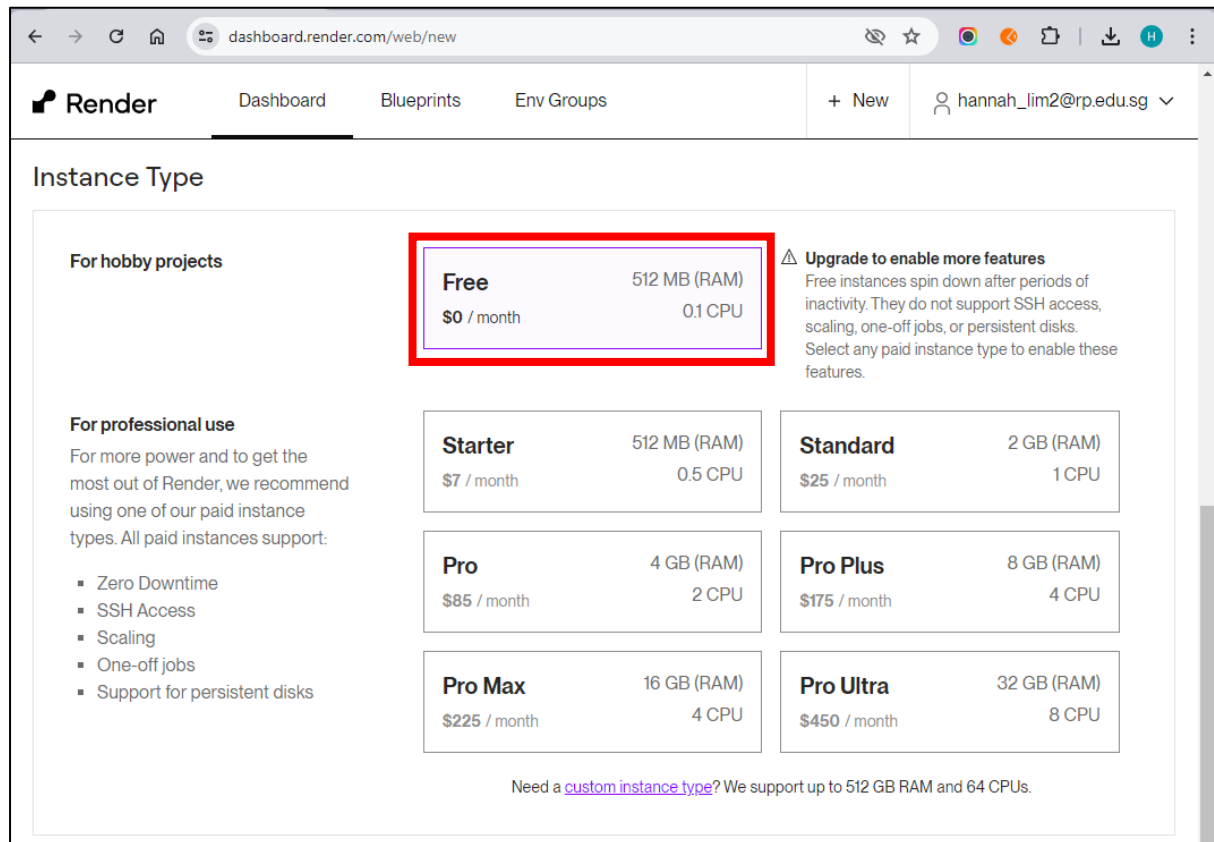


The screenshot shows the 'Render' dashboard at the URL 'dashboard.render.com/web/new'. The user is logged in as 'hannah_lim2@rp.edu.sg'. The 'Name' field is set to 'C237_RegistrationApp'. The 'Language' is set to 'Node'. The 'Branch' is set to 'main'. The 'Region' is set to 'Singapore (Southeast Asia)' with a note '2 existing services' and a link to 'Deploy in a new region'. The 'Root Directory' is optional and set to 'e.g. src'. The 'Build Command' is '\$ yarn' and the 'Start Command' is '\$ node app.js'.

Setting	Value
Name	C237_RegistrationApp
Language	Node
Branch	main
Region	Singapore (Southeast Asia) 2 existing services
Root Directory (Optional)	e.g. src
Build Command	\$ yarn
Start Command	\$ node app.js

Instance Type:

We will opt for the Free Tier as this is a basic testing project.



The screenshot shows the Render dashboard at `dashboard.render.com/web/new`. The navigation bar includes 'Render', 'Dashboard', 'Blueprints', 'Env Groups', '+ New', and a user profile 'hannah_lim2@rp.edu.sg'. The main section is titled 'Instance Type'.

For hobby projects

Free	512 MB (RAM) 0.1 CPU
\$0 / month	

Upgrade to enable more features
Free instances spin down after periods of inactivity. They do not support SSH access, scaling, one-off jobs, or persistent disks. Select any paid instance type to enable these features.

For professional use
For more power and to get the most out of Render, we recommend using one of our paid instance types. All paid instances support:

- Zero Downtime
- SSH Access
- Scaling
- One-off jobs
- Support for persistent disks

Starter	512 MB (RAM) 0.5 CPU	Standard	2 GB (RAM) 1 CPU
\$7 / month		\$25 / month	
Pro	4 GB (RAM) 2 CPU	Pro Plus	8 GB (RAM) 4 CPU
\$85 / month		\$175 / month	
Pro Max	16 GB (RAM) 4 CPU	Pro Ultra	32 GB (RAM) 8 CPU
\$225 / month		\$450 / month	

Need a [custom instance type](#)? We support up to 512 GB RAM and 64 CPUs.

We will leave the rest of the settings as default.

Step 4: Deploy Your Application

Deploy Web Service:

After configuring the settings, click the "Deploy Web Service" button.

Render will begin the deployment process, which includes building and starting your application.

Deployment Status:

Monitor the deployment status from the Render dashboard.

Logs will be available to troubleshoot any issues during the build and deployment process.

The screenshot shows the Render dashboard for a project named "C237_RegistrationApp". The left sidebar contains navigation links for Dashboard, Events, Settings, MONITOR (Logs, Metrics), and MANAGE (Environment, Shell, Scaling, Previews, Disks, Jobs). The main content area displays the project name "C237_RegistrationApp" with a "Connect" button and a "Manual Deploy" button. Below this, a message states: "Your free instance will spin down with inactivity, which can delay requests by 50 seconds or more." with an "Upgrade now" link. The deployment status shows "July 1, 2025 at 9:09 PM" and "Live". The logs section shows the following sequence of events:

- Jul 1 09:19:11 PM --> Uploading build...
- Jul 1 09:19:16 PM --> Uploaded in 3.9s. Compression took 0.8s
- Jul 1 09:19:16 PM --> Build successful
- Jul 1 09:19:28 PM --> Deploying...
- Jul 1 09:19:34 PM --> Running 'node app.js'
- Jul 1 09:19:35 PM Warning: connect.session() MemoryStore is not designed for a production environment, as it will leak memory, and will not scale past a single process.
- Jul 1 09:19:35 PM Server running on port 10000
- Jul 1 09:19:36 PM Connected to database
- Jul 1 09:19:41 PM --> Your service is live
- Jul 1 09:19:41 PM Available at your primary URL https://c237-registrationapp.onrender.com

Try accessing your page by clicking on the url shown on the top left-hand side of the page.

Well done! You have successfully deployed your Registration App project.