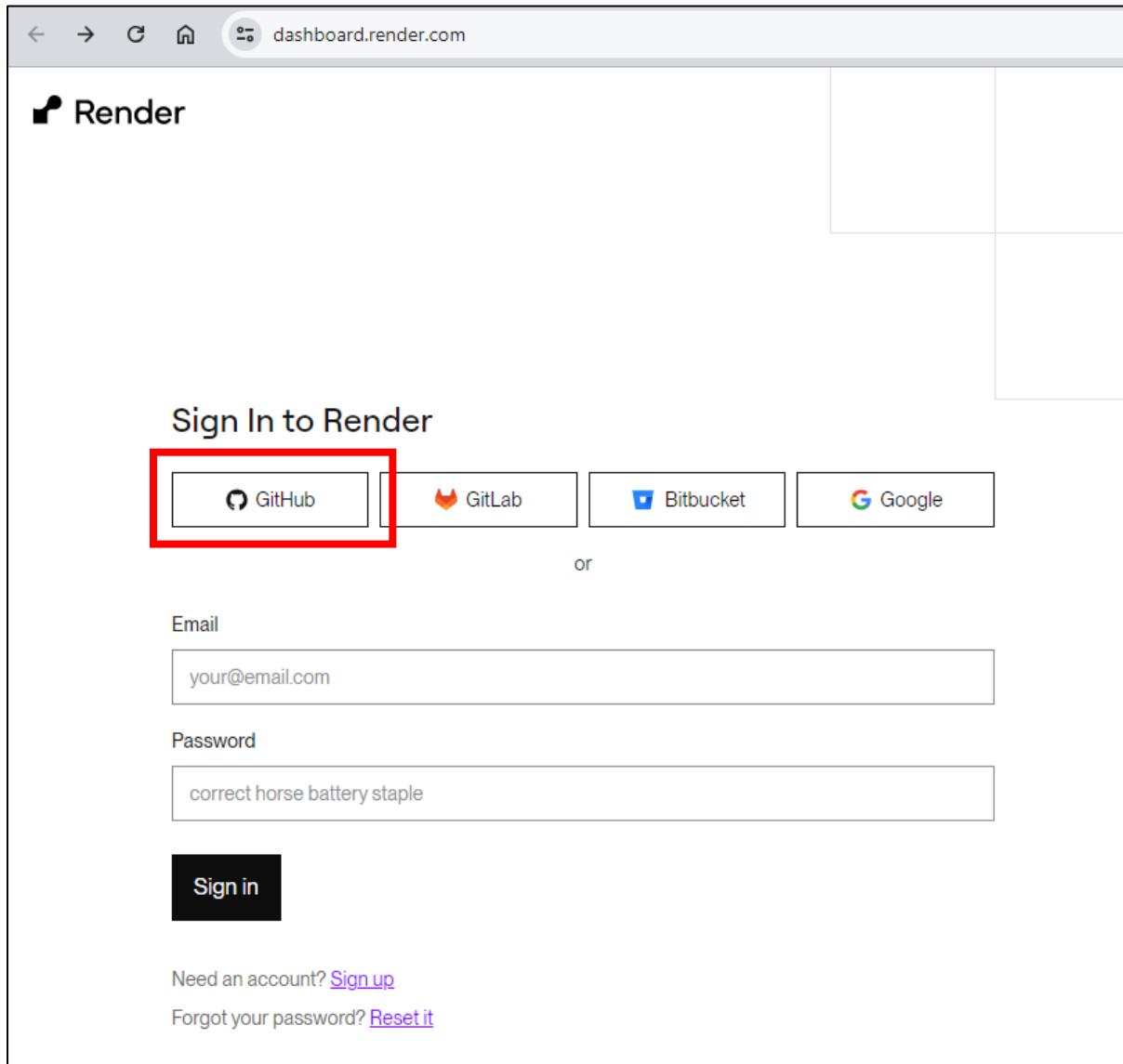


Guide to hosting a NodeJS app on Render

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.



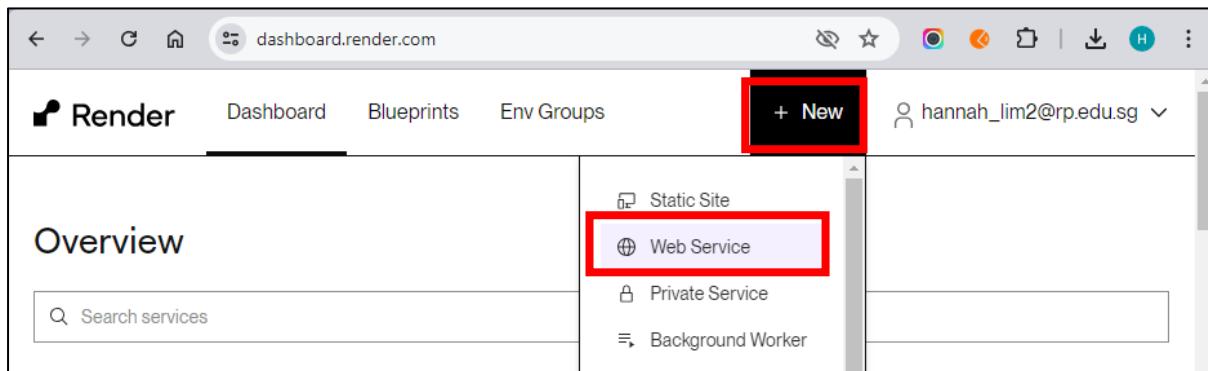
Step 2: Connect Your Repository

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.

A screenshot of the 'New Web Service' creation interface. At the top, there's a navigation bar with icons for workspace, search, and other options. The main area is titled 'New Web Service'. Under 'Source Code', the 'Git Provider' tab is selected, showing a search bar and a list of repositories. One repository, 'limhannah / C237_RegistrationApp 30m ago', is highlighted with a red box. To the right, there are buttons for 'View repo' and other service icons.

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 'New Web Service' configuration page on the Render dashboard. The URL in the browser is `dashboard.render.com/web/new`. The top navigation bar includes 'Render', 'Dashboard', 'Blueprints', 'Env Groups', '+ New', and a user dropdown for `hannah_lim2@rp.edu.sg`.

Name: C237_RegistrationApp

Language: Node

Branch: main

Region: Singapore (Southeast Asia) (selected) | 2 existing services | Deploy in a new region +

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 web interface at dashboard.render.com/web/new. The 'Instance Type' section is displayed, featuring a 'For hobby projects' category with a 'Free' tier highlighted by a red box. This tier offers 512 MB (RAM) and 0.1 CPU at \$0 / month. To the right, there's a note about upgrading to enable more features, mentioning SSH access, scaling, one-off jobs, and persistent disks. Below this are categories for 'For professional use' with paid tiers: Starter (\$7 / month), Standard (\$25 / month), Pro (\$85 / month), Pro Plus (\$175 / month), Pro Max (\$225 / month), and Pro Ultra (\$450 / month). Each tier includes its RAM and CPU specifications. A note at the bottom states: 'Need a [custom instance type](#)? We support up to 512 GB RAM and 64 CPUs.'

Instance Type	RAM	CPU	Price
Free	512 MB (RAM)	0.1 CPU	\$0 / month
Starter	512 MB (RAM)	0.5 CPU	\$7 / month
Standard	2 GB (RAM)	1 CPU	\$25 / month
Pro	4 GB (RAM)	2 CPU	\$85 / month
Pro Plus	8 GB (RAM)	4 CPU	\$175 / month
Pro Max	16 GB (RAM)	4 CPU	\$225 / month
Pro Ultra	32 GB (RAM)	8 CPU	\$450 / month

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 interface. On the left, there's a sidebar with navigation links like Dashboard, Events (which is selected and highlighted in purple), Settings, MONITOR (Logs and Metrics), MANAGE (Environment, Shell, Scaling, Previews, Disks, Jobs), Changelog, Invite a friend, Contact support, and Render Status. The main content area is titled 'WEB SERVICE' and shows 'C237_RegistrationApp'. It indicates the instance is 'Node' and 'Free'. A link 'https://c237-registrationapp.onrender.com' is shown, with the entire URL highlighted by a red box. Below this, a message says 'Your free instance will spin down with inactivity, which can delay requests by 50 seconds or more.' with a 'Upgrade now' button. Under the logs section, a log entry from July 1, 2025 at 9:09 PM shows the app being deployed and starting up. A red box highlights the final log entry: 'Jul 1 09:10:42 PM [✓] >> Available at your primary URL https://c237-registrationapp.onrender.com'. The logs also show a warning about MemoryStore usage.

```
Jul 1 09:10:11 PM [✓] >> Uploading build...
Jul 1 09:10:16 PM [✓] >> Uploaded in 3.9s. Compression took 0.8s
Jul 1 09:10:16 PM [✓] >> Build successful!
Jul 1 09:10:29 PM [✓] >> Deploying...
Jul 1 09:10:34 PM [✓] >> Running 'node app.js'
Jul 1 09:10:35 PM [⚠] Warning: connect.session() MemoryStore is not
designed for a production environment, as it will leak
Jul 1 09:10:35 PM [✓] memory, and will not scale past a single process.
Jul 1 09:10:35 PM [✓] Server running on port 10000
Jul 1 09:10:36 PM [✓] Connected to database
Jul 1 09:10:41 PM [✓] >> Your service is live!
Jul 1 09:10:41 PM [✓] >> -----
Jul 1 09:10:41 PM [✓] >> -----
Jul 1 09:10:42 PM [✓] >> -----
Jul 1 09:10:42 PM [✓] >> Available at your primary URL https://c237-registrationapp.onrender.com
Jul 1 09:10:42 PM [✓] >>
```

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.