render - cloud application hosting

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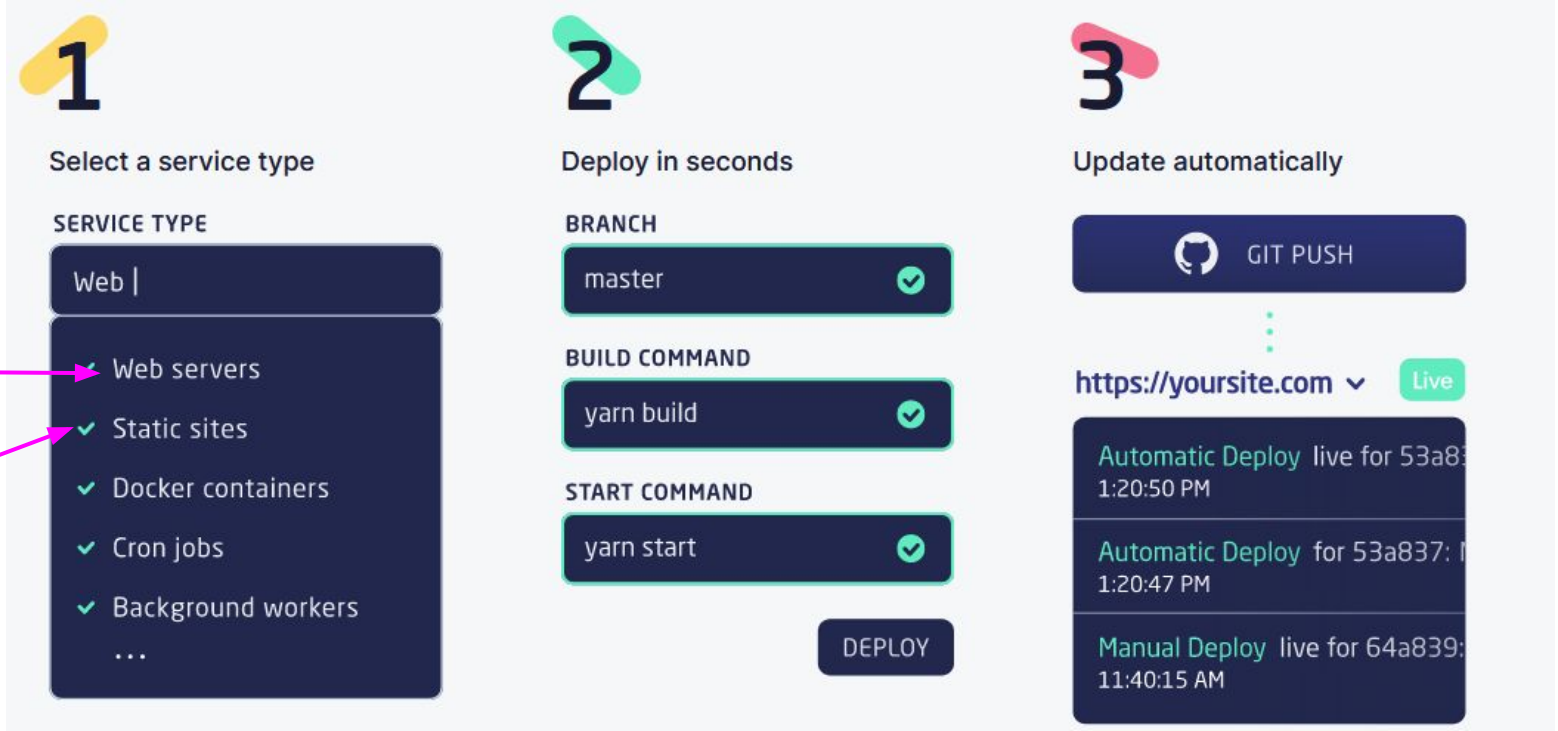
What is render

Render is cloud application hosting with the following simple flow

Node \ express

react



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Motivation for render

The motivation for me is a free substitute of heroku (as of Nov 28 2022) so junior web developer can deploy for free a full stack application typically react+express (no need to provide a credit card)

It can be used in these use cases

- Portfolio on the cloud
- Apps on cloud with link from CV
- Use for home assignment by companies as part of new job flow

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Dashboard

Overview

Search services

NAME	STATUS	TYPE	ENVIRONMENT	REGION	LAST DEPLOYED
render-react-sample	Deploy succeeded	Static Site	Static	Global	5 minutes ago
render-express-sample	Deploy succeeded	Web Service	Node	Frankfurt	35 minutes ago

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Deploy steps

- **Register to render**
- **Express**
- **React**

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Register to render

- Done once
- Require to connect you github account to render

Check here

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Deploy node \ express on render 1/x

- Create github repo for express
- Create express app : /api/time and get current time on the server. Make sure you use cors
- Check locally using browser
- Deploy to render
  - Create new web service
  - Connect to a repository - choose the web server repo and click connect
  - Click dashboard - you must log in first
  - Check next slide

Check here

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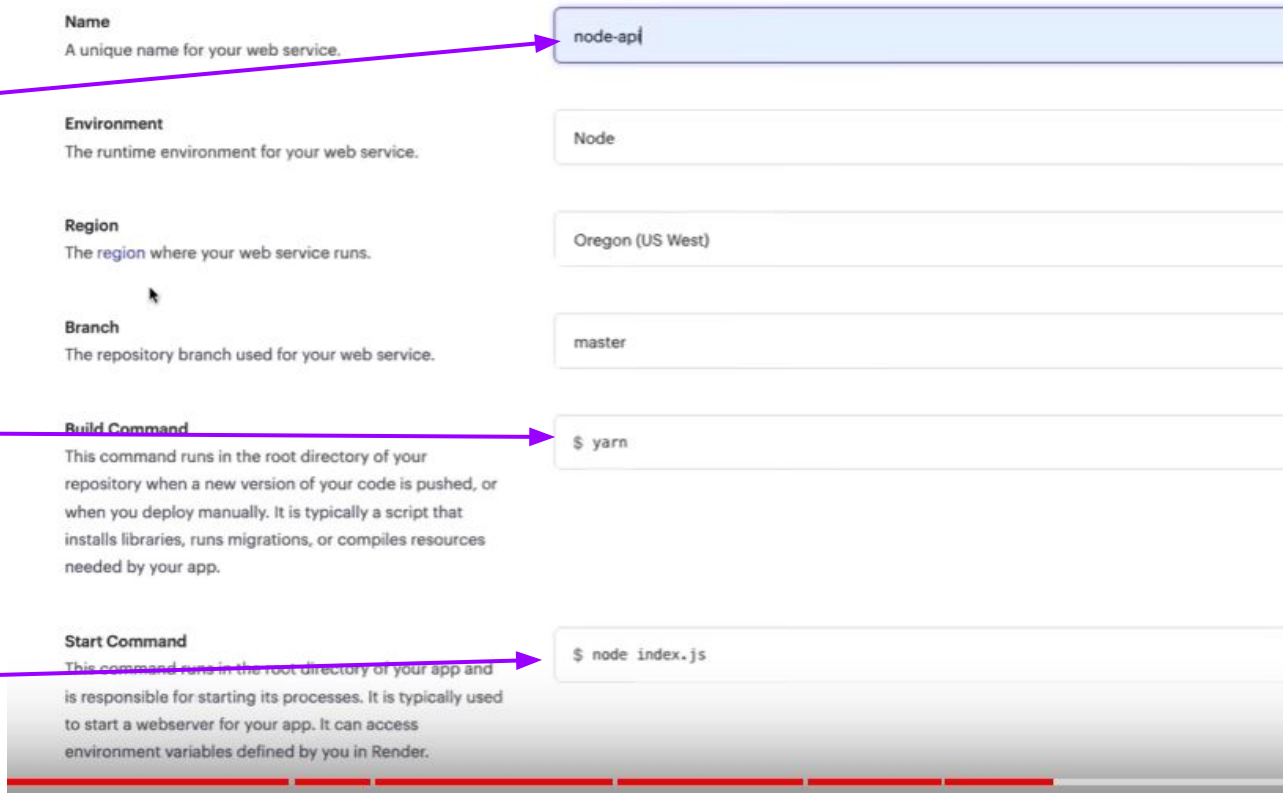
Deploy node \ express on render 2/x

Choose a project name on render. render-express-sample was used in the video

Not clear what should be done here. May be relevant for ts. We can leave it as is

How to start the application. May use npm start if this script is defined



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Deploy node \ express on render 3/x

- Continue from prev slide
  - Select the free tier
  - Click create web service
  - Might take 3-4 minutes
- Check deployment using browser

Deploy react vite on render 1/x

- Create github repo
- Create react app with vite. This should work on local
- Check local with express
- Need to update the api url for production - getServerUrl
- Deploy to render :
  - Click dashboard - you must log in first
  - Click new static site
  - Connect to repository
  - Check next slide
- Check deployment using browser

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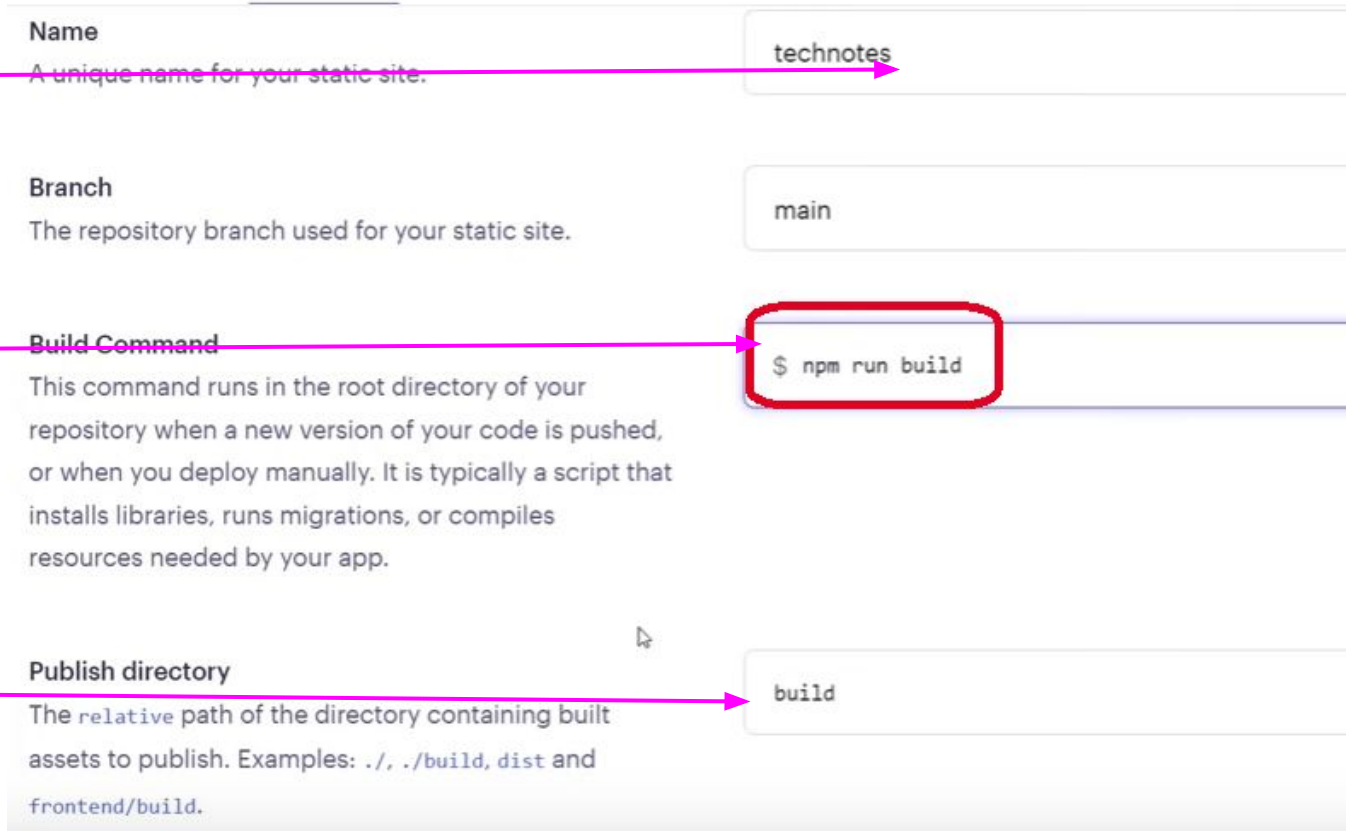
Check here

Deploy react vite on render 2/x

Choose project name. render-react-sample was used in the video

Use npm run build in case you use npm

Need to change to **dist** on vite check here



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Deploy react vite on render 3/x

- Continue from prev slide
  - Click on the Create static site
  - The build process is taken place (like on vercel) for few minutes until you get : ‘your site is live’
  - Scroll up and see the production url
- Check deployment using browser

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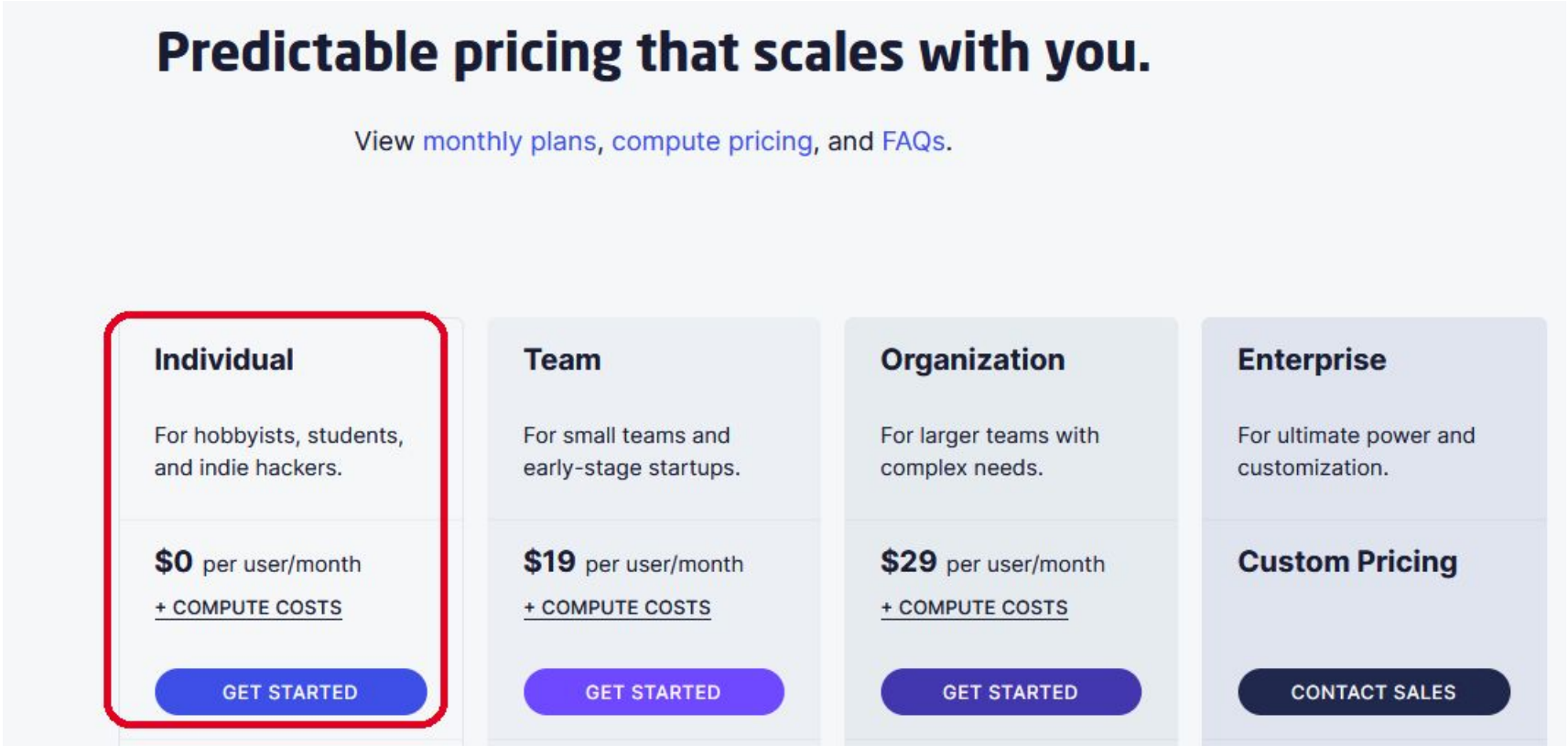
Render pricing



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pricing

Render free tier limitation - web service (node\express..)

- Web Services on the free instance type are automatically spun down after 15 minutes of inactivity. When a new request for a free service comes in, Render spins it up again so it can process the request.
- This can cause a response delay of up to 30 seconds for the first request that comes in after a period of inactivity.
- The free instance type allows for 750 hours of running time per month across all free Web Services in your account and 100 GB of egress bandwidth for each free service. Additional bandwidth is $30 per 100GB block.

docs - free web service

Render free tier limitation - static web site (react..)

- Static sites with under 100GB of egress bandwidth per month are free on Render. Additional egress bandwidth is available at $30 per 100GB block.
- Static sites also come with out-of-the-box support for HTTP/2, automatic TLS certificate issuance and renewal, DDoS protection, Redirects and Rewrites, and custom HTTP headers.

docs - free-static-sites

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references

Official docs

3 Alternatives for Heroku's Free Tier - Full Stack & API Hosting - Traversy sep 2022

Deploy a Full Stack App - React, Node.js, Express, Mongo | MERN Tutorial - Dave grey sep 2022