

Deploying a web app

We've written web apps

- and seen them on localhost

How to get them where other people can see?

Static-vs-dynamic

You need a *host* for your content

A big factor is what you need to host

- static HTML/JS/CSS
 - `build/` contents after `npm run build`
- OR a server that generates dynamic content

Just static is easier/cheaper

A few options

There are countless hosting providers

- here are a few free/cheap options
- good to show off
 - would want to pay for better for anything with high traffic

Github pages

<https://docs.github.com/en/pages>

- Take a repo you own
- Change settings to publish a `github.io` site from your repo
- Static only

Notice: They also offer building a site from markdown files using Jekyll

- This is not what you want to publish the content you generate

Heroku

Lots of sites "resell" ability to host on AWS

Heroku.com is one example

- "free" tier (slow but free)
- has an option to let you push git repo
 - extra config to deploy entire CRA-based app
- includes ability to have server code

<https://devcenter.heroku.com/>

Amazon Web Services (AWS)

Notice: Most of AWS isn't always free

- And can wrack up bills if you exceed use
- BE CAUTIOUS

You have many options with Amazon

- S3 can host static websites
- Amplify can host a single page app
- Lightsail

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https://docs.aws.amazon.com/AmazonS3/latest/  
userguide/WebsiteHosting.html
```

Summary - hosting

- Hosting providers offer places to put your web content as a site
- static files (HTML/JS/CSS) vs server files is a big factor
- Free and to-pay options exist

Summary - options

- So many hosting options
- Some examples:
 - Github pages
 - Heroku
 - AWS S3
 - AWS Amplify
 - AWS Lightsail