Hosting Services

	AWS Amplify	GCP	Azure	~~Heroku~~
Services Offered	Build, deploy and host web apps. ● Supports modern frameworks ● Fully managed CI CD automation testing ● Simple user signup and signin ● 50,000 users per month. ● 10GB of cloud storage ● Need dedicated DevOps person	● **Cloud storage** ● **Storage bucket location** ● **Customer and site protection** ● **Domain = $12/yr** ● **Email forwarding** ● **2FA**	● Build and host a web app with a programming language of choice. ● Relational databases ● Health monitoring ● Deploy with git	● ~~550-1k dyno (lightweight Linux containers dedicated to running your application processes) hours per month~~ ● ~~Deploy with git and docker~~ ● ~~Custom domains~~ ● ~~Permit collaborators to deploy changes to your apps, scale them, and access their data.~~ ● ~~2 factor authentication~~
Cost	12 months free	**Complicated calculator pricing $400 in credits**	$200 Azure Credit and some of the services are free for 1 year	~~Free for students~~
Features for cost (what do you get for free)	DynamoDB 25 GB Cognito 50,000 MAUs	**Not much info available online**	Most services either Always free or free for 12 months	~~10k DB Row Limit~~
Easy to use (necessity for prior cloud knowledge)	High learning curve	**Good documentation User friendly Medium learning curve**	Requires platform expertise	~~Easy to use (tutorial and documentation available)~~

Pros and Cons	**Pros:** Getting started quickly, fast development cycles **Cons:** Potential surprise bills, Collaboration can be frustrating	**Pros: Easy collaboration, portable and open-source integration** **Cons: Fewer feature services,**	**Pros:** high availability, data security **Cons:** requires management, price, database speed	~~**Pros:** Simplifies backend (ready-to-use environment), hosts front & back end, documentation~~ ~~**Cons:** Not ideally suited for heavy-computing projects, not easy to migrate to another service~~

Additional information

AWS

- https://aws.amazon.com/amplify/hosting/
- https://aws.amazon.com/lightsail/pricing/?loc=ft#AWS_Free_Tier

GCP

- Cloud Storage: https://cloud.google.com/storage
- Web Hosting: https://cloud.google.com/solutions/web-hosting

Azure

- https://azure.microsoft.com/en-us/free/apps/
- Tutorial: https://docs.microsoft.com/en-us/learn/modules/host-a-web-app-with-azure-app-service/
- Documentation: https://docs.microsoft.com/en-us/azure/?product=popular

Heroku

- Getting started as a collaborator: https://devcenter.heroku.com/articles/collab
- Collaborating with other developers: https://devcenter.heroku.com/articles/collaborating
- Deploy with Heroku: https://www.heroku.com/platform#video-player-1
- Documentation: https://devcenter.heroku.com/
- https://www.codecademy.com/article/deploying-a-back-end-with-heroku