

DEPLOYMENT

State of the Art Technologies

What is deployment?

The process of moving your code from your computer to a remote public host is called deployment.

It allows other computers across the Internet to access it.

State of the Art Technologies

Heroku

Heroku is a container-based cloud Platform as a Service (PaaS).

Developers use Heroku to deploy, manage, and scale modern apps.

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devcenter.heroku.com

Update

Learn about building, deploying, and managing your apps on Heroku.



Node.js



Ruby



Python



Java



PHP



Go



Scala



Clojure

New to Heroku? [Get started](#)

Heroku Essentials

- [⚡ Get Started](#)
- [☰ The Heroku CLI](#)
- [☰ Deploying with Git](#)
- [☰ The Procfile](#)
- [☰ Configuration and Config Vars](#)

Recommended Features

- [☰ Custom Domain Names for Apps](#)
- [☰ Heroku Postgres](#)
- [☰ Heroku Teams](#)
- [☰ Pipelines](#)
- [☰ Heroku CI](#)

Debugging on Heroku

- [☰ Logging](#)
- [☰ Heroku Error Codes](#)
- [☰ Application Metrics](#)
- [☰ Language Runtime Metrics](#)
- [☰ Production Check](#)

INFORMATION & SUPPORT

Getting Started

LANGUAGE REFERENCE

Node.js

OTHER RESOURCES

Careers

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The screenshot shows a web browser window with several tabs open at the top:

- Github Student Developer Pack
- heroku - Google'da Ara
- Deployment | Heroku Dev Cent
- Personal apps | Heroku
- Heroku for GitHub Students Of

The main content area displays the "GitHub Students Overview / Sign Up" page. On the left, there is a vertical list of steps:

- Step 1**: Verify your GitHub Student status.
- Step 2**: Verify that your billing information is up to date.
- Step 3**: Apply to receive your platform credits.

On the right, a large callout box titled "Step 1" contains the following text:

Verify your GitHub Student status

Sign up for a [GitHub Student Developer Pack](#) (if you've not already done so) and allow us to verify that you have completed your enrollment [here](#).

Before you verify your status through GitHub, please make sure you are logged in to the correct Heroku account. You are currently logged in as: ozturkdilek93@gmail.com.

If you wish to attach the platform credits to a different account, please log out of this account and log in to the correct account before verifying your student status through GitHub.

[Verify with GitHub](#)

Screenshot of the GitHub Student Developer Pack landing page.

The page title is "GitHub Student Developer Pack".

The main heading is "GitHub Student Developer Pack".

The subtext reads: "Learn to ship software like a pro. There's no substitute for hands-on experience. But for most students, real world tools can be cost-prohibitive. That's why we created the GitHub Student Developer Pack with some of our partners and friends."

A sidebar on the right lists requirements: "Requirements: School mail (janedoe@std.iyte.edu.tr)".

A section titled "Student Identity Card Photo" is present.

The footer includes links for "Students", "Teachers", "Schools", "Benefits", "Events", "Global Campus", "Community Exchange", and a user profile icon.

Experiences



Virtual Event Kit

Everything you need for your virtual event. Design for engagement and we'll take care of the tools. The Virtual Event Kit gives students the resources to make running online events simple and accessible.



Hackathon in the Cloud

Make managing your virtual hackathon events even easier. Learn how to organize, promote, and communicate your next codefest or hackday. Whether you're hosting your first or you're a pro, the



Aspiring Creatives

Working on a creative project? Develop your design and collaboration skills to get your clever intentions off the ground. Unleash your originality and start to tinker with the Aspiring Creatives Experience.

<p> namecheap</p> <p>About Namecheap Affordable registration, hosting, and domain management</p> <p>Benefit 1 year domain name registration on the .me TLD.</p> <p>Virtual Events</p> <p>Benefit 1 SSL certificate free for 1 year.</p> <p>Domains Virtual Events</p>	<p> DigitalOcean</p> <p>About DigitalOcean Simple cloud hosting, built for developers</p> <p>Benefit Enjoy \$200 in platform credit for 1 year!</p> <p>Cloud</p>	<p> Microsoft Azure</p> <p>About Microsoft Azure Access to Microsoft Azure cloud services and learning resources – no credit card required</p> <p>Benefit Free access to 25+ Microsoft Azure cloud services plus \$100 in Azure credit. For students aged 18+.</p> <p>Cloud Virtual Events</p>	<p> JETBRAINS</p> <p>About JetBrains Professional desktop IDEs: IntelliJ IDEA, PyCharm, and more.</p> <p>Benefit A free subscription for students, to be renewed annually.</p> <p>Developer tools</p>	<p> Name.com</p> <p>About Name.com Domains, Google Workspace, WordPress, DigitalOcean hosting, and more.</p> <p>Benefit Build your online presence with a free .LIVE domain name, free privacy protection, and a free SSL certificate.</p> <p>Virtual Events Domains</p>	<p> educative</p> <p>About Educative Level up on trending coding skills at your own pace with interactive, text-based courses.</p> <p>Benefit Get 6 free months of 60+ courses covering in-demand topics like Web Development, Python, Java, and Machine Learning.</p> <p>Learn</p>
<p> JETBRAINS</p> <p>About JetBrains Professional desktop IDEs: IntelliJ IDEA, PyCharm, and more.</p> <p>Benefit A free subscription for students, to be renewed annually.</p>	<p> Name.com</p> <p>About Name.com Domains, Google Workspace, WordPress, DigitalOcean hosting, and more.</p> <p>Benefit Build your online presence with a free .LIVE domain name, free privacy protection, and a free SSL certificate.</p>	<p> educative</p> <p>About Educative Level up on trending coding skills at your own pace with interactive, text-based courses.</p> <p>Benefit Get 6 free months of 60+ courses covering in-demand topics like Web Development, Python, Java, and Machine Learning.</p>	<p> GitHub</p> <p>About GitHub Powerful collaboration, code review, and code management</p> <p>Benefit Free GitHub Pro while you are a student.</p> <p>Developer tools</p>	<p> HEROKU</p> <p>About Heroku A flexible, easy-to-use platform to deploy, run, and manage your apps.</p> <p>Benefit Enjoy a credit of \$13 USD per month for 12 months.</p> <p>Cloud Developer tools</p>	<p> .TECH DOMAINS</p> <p>About .TECH A powerful domain extension to convey that you belong to the technology industry.</p> <p>Benefit One standard .TECH domain free for 1 year and 2 free email accounts with 100 MB free storage</p> <p>Domains</p>

The screenshot shows a web browser window with five tabs open at the top:

- Github Student Developer Pack
- heroku - Google'da Ara
- Deployment | Heroku Dev Cent
- Personal apps | Heroku
- Heroku for GitHub Students Of

The main content area displays the "GitHub Students Overview / Sign Up" page. On the left, there is a vertical list of three steps:

- Step 1**: Verify your GitHub Student status.
- Step 2**: Verify that your billing information is up to date.
- Step 3**: Apply to receive your platform credits.

On the right, a large callout box titled "Step 1" contains the following text:

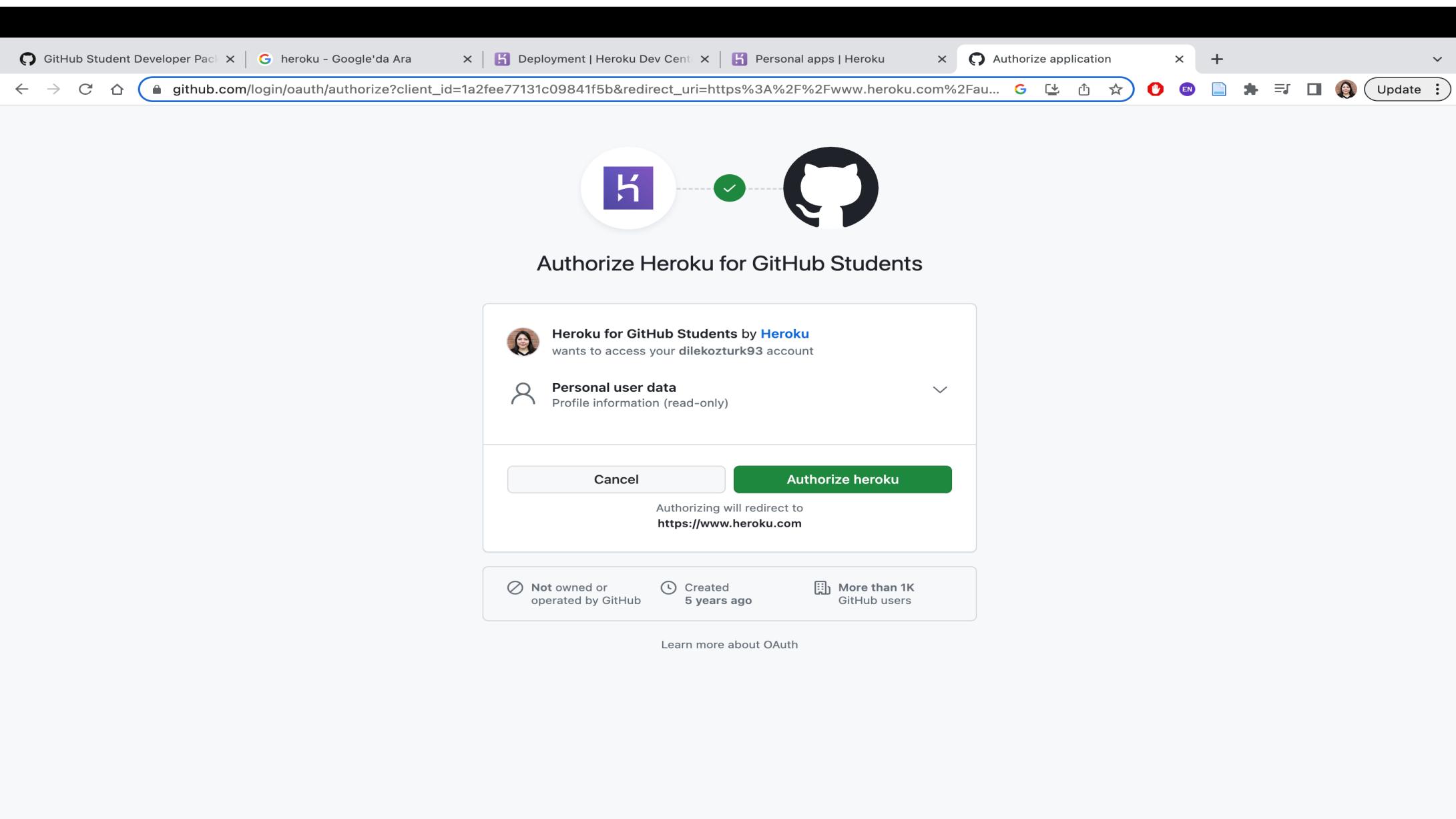
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[Verify with GitHub](#)



GitHub Student Developer Pac | heroku - Google'da Ara | Deployment | Heroku Dev Cent | Personal apps | Heroku | Heroku for GitHub Students Of

heroku.com/github-students/signup#terms

Update

Terms: Heroku for GitHub Students Offer

Each student registered for a GitHub Student Developer Pack is eligible to receive one allocation of Heroku platform credits worth \$156, which will burn down at a rate of \$13 per month over 12 months starting from the date of eligibility confirmation.

Credits may not be sold, bartered, given away, or otherwise transferred.

Your Heroku platform credits will be applied to the Heroku account to which you are currently logged in (email address: ozturkdilek93@gmail.com). If you wish to attach the credits to a different account, please click cancel, log out of this account, log in to your other account, and then complete the application process.

All other [Heroku terms and conditions](#) apply.

Cancel Agree

A screenshot of a web browser window showing the Heroku for GitHub Students Offer sign-up page. The browser has several tabs open, including "GitHub Student Developer Pack", "heroku - Google'da Ara", "Deployment | Heroku Dev Cent", "Personal apps | Heroku", and "Heroku for GitHub Students Of". The main content area has a purple background with white text. It features a title "3 Easy Steps to Request Your Free Hobby Dyno" and a subtitle "A special offer for students enrolled in the GitHub Student Developer Pack." Below this, there's a breadcrumb navigation "GitHub Students Overview / Sign Up".



Step 1



Your GitHub Student status is verified.



Step 2



Your billing information has been validated.



Step 3



You have successfully applied.

Thank you for applying for the Heroku for GitHub Students Offer

We appreciate your interest in building and running your apps on Heroku!

We will validate your request for platform credits; it can take up to 24 hours to complete this process and apply the credits to your account.

If you have any questions about the Heroku for GitHub Students offer, please [open a support ticket](#).

[Back to GitHub Students Overview](#)

Your Heroku Credits for GitHub Student Developer Pack



Gelen Kutusu x



Heroku <heroku-students@salesforce.com> [Abonelikten çıkış](#)

Alici: ben ▼

09:23 (1 dakika önce)



İngilizce ▼ > Türkçe ▼ [İletiyi çevir](#)

[İngilizce için kapat](#) x

[View in Browser](#)



Heroku for
Github Students



Hello,

Thank you for your interest in the Heroku for GitHub Students program. Congratulations! Your platform credits have now been applied to your Heroku account. You can see this listed under "Platform Credits" in the Billing tab of your [Heroku account dashboard](#).

Use our step-by-step [Getting Started Guides](#) for deploying your first app.

Happy coding,

The Heroku Team



Jump to Favorites, Apps, Pipelines, Spaces...

👤 Personal ⌂

New ⌂

You don't have any apps yet

Every app and pipeline you create or become a collaborator on will appear here

Create new app

Looking for help getting started?

Get started by reading one of our language guides in the Dev Center

Choose a language guide... ⌂



HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

Create New App

App name

testproject-ceng316



testproject-ceng316 is available

Choose a region

Europe



Add to pipeline...

Create app

Cancel

The screenshot shows the Heroku dashboard for the application 'testproject-ceng316'. The top navigation bar includes links for GitHub Student Developer Program, Google search, Deployment, Personal apps, and the current app. The main header has the Heroku logo, a search bar, and user profile icons. Below the header, there's a breadcrumb trail: Personal > testproject-ceng316. The main content area features tabs for Overview, Resources, Deploy (which is selected), Metrics, Activity, Access, and Settings. On the left, a section titled 'Add this app to a pipeline' suggests creating a new pipeline or connecting to an existing one. On the right, another section titled 'Add this app to a stage in a pipeline to enable additional features' explains how pipelines connect multiple apps and promote code between them. A dropdown menu at the bottom allows choosing a pipeline.

Deployment method



Deploy using Heroku Git

Use git in the command line or a GUI tool to deploy this app.

Install the Heroku CLI

Download and install the [Heroku CLI](#).

If you haven't already, log in to your Heroku account and follow the prompts to create a new SSH public key.

```
$ heroku login
```

Create a new Git repository

Initialize a git repository in a new or existing directory

GitHub Student Developer P X | Google heroku - Google'da Ara X | Deployment | Heroku Dev C X | Personal apps | Heroku X | testproject-ceng316 · Heroku X | Gelen Kutusu - ozturkdilek9 X | + | [Update](#)

Salesforce Platform

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

Deploy using Heroku Git

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Install the Heroku CLI

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```
$ heroku login
```

Create a new Git repository

Initialize a git repository in a new or existing directory

```
$ cd my-project/  
$ git init  
$ heroku git:remote -a testproject-ceng316
```

Deploy your application

Commit your code to the repository and deploy it to Heroku using Git.

```
$ git add .  
$ git commit -am "make it better"  
$ git push heroku master
```

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions [here](#).

Existing Git repository

For existing repositories, simply add the `heroku` remote

```
$ heroku git:remote -a testproject-ceng316
```

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Amazon AWS CodeDeploy

A cloud-based system that has a free trial(750 hours) to use for software deployments on an AWS server.

<https://aws.amazon.com/codedeploy/?nc=sn&loc=0>

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Google Cloud Deployment Manager

It is an infrastructure deployment service that automates the creation and management of Google Cloud Platform resources.

It's providing 90 days of Free Trial account with \$300 credits to new subscribers to get hands-on experience with all the Google cloud services.

<https://cloud.google.com/deployment-manager/docs>

[https://k21academy.com/google-cloud/create-google-cloud-free-tier-account/#:~:text=Google%20Cloud%20Platform%20\(GCP\)%20is,all%20the%20Google%20cloud%20services.](https://k21academy.com/google-cloud/create-google-cloud-free-tier-account/#:~:text=Google%20Cloud%20Platform%20(GCP)%20is,all%20the%20Google%20cloud%20services.)

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Jenkins

Jenkins is a self-contained, open-source automation server that can be used to automate all sorts of tasks related to building, testing, and delivering or deploying software.

It is a powerful application that allows continuous integration and continuous delivery of projects, regardless of the platform you are working on. It is a free source that can handle any kind of build or continuous integration.

- Continuous Integration is a development practice that requires developers to integrate code into a shared repository at regular intervals.

<https://www.jenkins.io/doc/>

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GitLab CI/CD

GitLab CI (Continuous Integration) service is a part of GitLab that build and test the software whenever the developer pushes code to the application.

GitLab CD (Continuous Deployment) is a software service that places the changes of every code in the production which results in everyday deployment of production.

GitLab CI/CD can be used with **GitHub.com** and **GitHub Enterprise** by creating a [CI/CD project](#) to connect your GitHub repository to GitLab.

https://docs.gitlab.com/ee/ci/ci_cd_for_external_repos/github_integration.html?_gl=1*bce467*_ga*MjEwNDI1NzE2Ni4xNjc3NTk4NzE3*_ga_ENFH3X7M5Y*MTY3NzU5ODcxNi4xLjAuMTY3NzU5ODc1NS4wLjAuMA.