

Mustafa Girgin
21290649

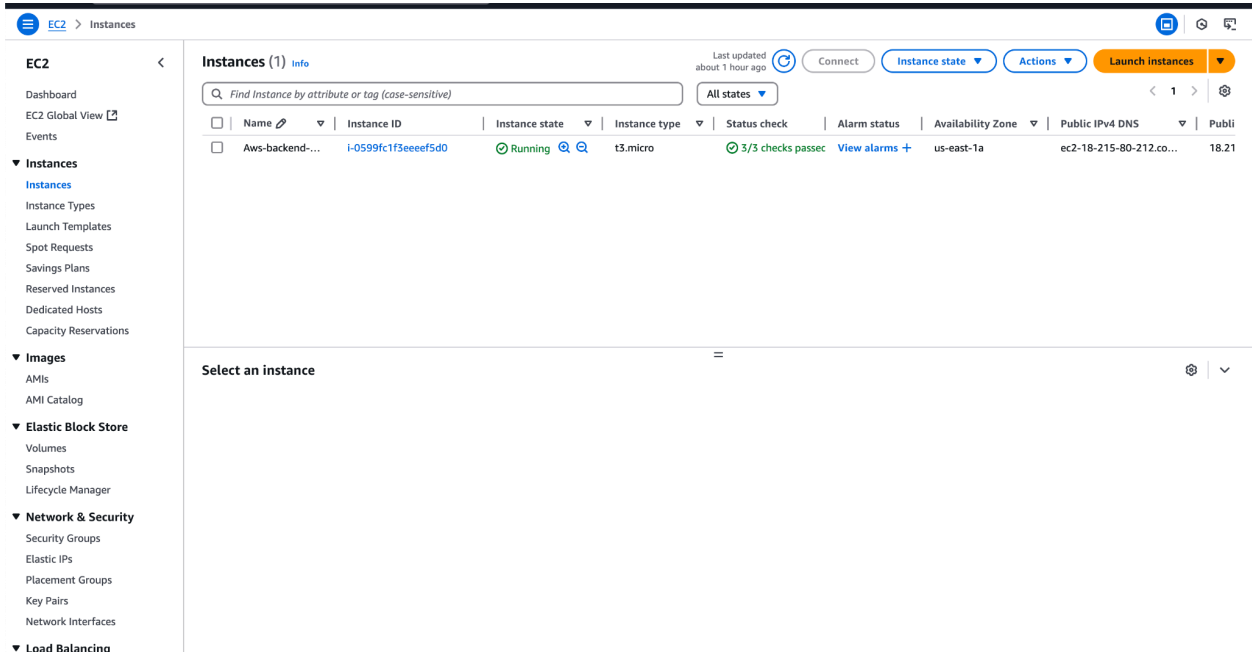
<https://github.com/antelcha/awsprojeler>

AWS'te Deploy, Hosting ve Storage İşlemleri

Proje 1: Çift Katmanlı Web Uygulaması (Web API + Frontend)

Bu projede AWS üzerinde EC2, Elastic Beanstalk, RDS, CloudFront ve Amplify kullanarak Full Stack bir uygulamayı tamamen AWS üzerinde yönetmeye çalıştım.

Öncelikle işlemlerimi yürüteceğim bir EC2 instance'ı oluşturdum.



Sonra lokalimde backendini node.js ile yazdığım dosyaları zipleyip Elastic Beanstalk modülü üzerinden deploy ettim. Bu benim backendimi güvenli kullanabilmeme ve gerektiğinde load balance ya da scale işlemlerini yapabilmem için kolaylık sağladı.

Elastic Beanstalk > Environments > Aws-backend-env

Elastic Beanstalk

- Applications
- Environments
- Change history

▼ Application: webapp

- Application versions
- Saved configurations

▼ Environment: **Aws-backend-env**

- Go to environment
- Configuration
- Events
- Health
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- Monitoring
- Alarms
- Managed updates
- Tags

▼ Recent environments

- Aws-backend-env**

Aws-backend-env Info

Environment overview

Health
⚠ Degraded - View causes

Environment ID
e-hw6xmczzq

Domain
Aws-backend-env.eba-2sbaamqz.us-east-1.elasticbeanstalk.com

Application name
webapp

Platform
Node.js 18 running on 64bit Amazon Linux 2/5.10.1 **Deprecated**

Running version
v5-11

Platform state
⚠ Deprecated

Events (100) info

Filter events by text, property or value

Time	Type	Details
May 9, 2025 16:04:11 (UTC+3)	⚠ WARN	Environment health has transitioned from No Data to Degraded. Command failed on all instances.
May 9, 2025 16:02:11 (UTC+3)	ℹ INFO	Environment health has transitioned from Ok to No Data. 1 instance online which meets Auto Scaling group desired capacity of 1. All instances are in same availability zone (us-east-1a).
May 9, 2025 16:02:11 (UTC+3)	ℹ INFO	Added instance [i-0599fc1f3eeef5d0] to your environment.
May 9, 2025 16:02:11 (UTC+3)	ℹ INFO	Removed instance [i-04f72c29196c73365] from your environment.

Ardından React ile oluşturduğum frontend kodumu github'a yükledim ve Amplify'ı github repoma bağladım. Bu sayede her push attığımda Amplify otomatik olarak yeniden deploy alabildi.

All apps > aws > main: Deployments

main

- Deployments
- Authentication
- Data
- AI **New**
- Storage
- Functions
- UI Library

Deployment 13
Deployed

Download Redeploy this version

Started at 5/8/2025, 8:12 PM Build duration 1 minute 21 seconds Domain https://main.d1d1z3k019disz-amplifyapp.com Repository aws:main Last commit fix: Update CORS configuration...

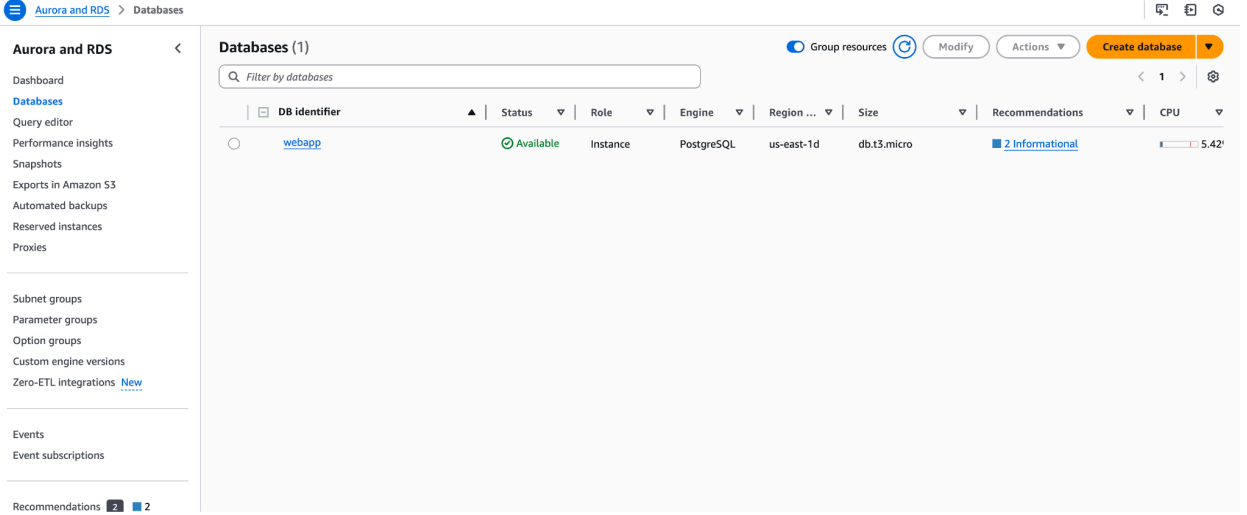
Build 1 minute 12 seconds

Deploy 7 seconds

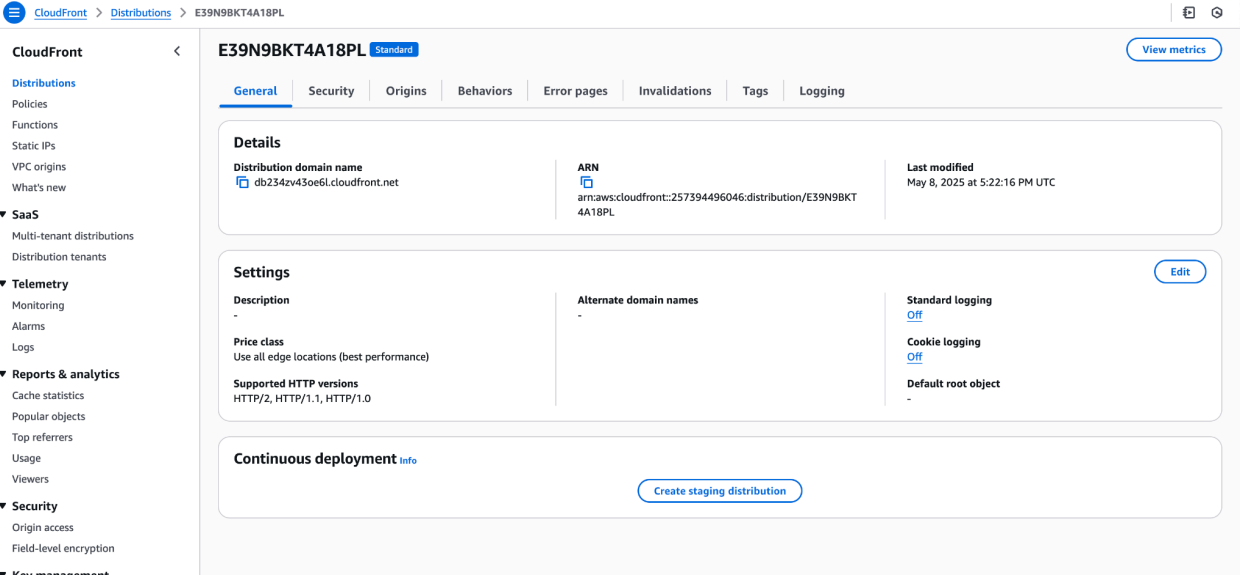
Deployment history 13

Name	Status	Build duration	Commit message	Started at
Deployment 13	Deployed	1 minute 21 seconds	fix: Update CORS configuration...	5/8/2025, 8:12 PM
Deployment 12	Deployed	1 minute 18 seconds	fix: remove HTTPS forcing in f...	5/8/2025, 7:53 PM
Deployment 11	Deployed	1 minute 22 seconds	fix: remove HTTPS forcing in f...	5/8/2025, 7:37 PM
Deployment 10	Deployed	1 minute 27 seconds	fix: update nginx config for A...	5/8/2025, 7:26 PM
Deployment 9	Deployed	1 minute 21 seconds	feat: configure HTTPS for prod...	5/8/2025, 7:21 PM

Ardından lokalimde çalışan PostgreSQL'i AWS'e taşımam gerekti, bunun için RDS üzerinden bir PostgreSQL açtım. Oraya şemayı yükleyerek tablolarımı oluşturdum.



Şimdi uygulamam yayın için hazırdı fakat şöyle bir problem çıktı, Amplify https üzerinden yayın yapıyor fakat Elastic Beanstalk API'ı http üzerinden veriyordu, bu da mixed content hatası almama yol açtı. Çözebilmek için normalde CDN için kullanılan AWS CloudFront modülünü kullanmaya çalıştım.



Cloudfront https üzerinden link verdiği için ben de isteklerimi önce cloudfront linkine, sonra cloudfronttan elastic beanstalk'a yönlendirmeye çalıştım. Login register işlemleri çözülmüştü ama transaction ekleme silme olayı çalışmadı.

Bu hatayı tam çözebilmek için sanırım bir SSL sertifikasına ihtiyacım olduğu için daha fazla ileriye gidemedim.

Lokalde çalışan sürümdeki ekranlar ise kaydolma ve giriş yapma, gelir veya gider ekleme, silme ve güncelleme özelliklerine sahip.

Create Account

Register

Already have an account? Sign in

Budget Tracker

Logout

Total Income
\$1038.40

Total Expenses
\$943.17

Balance
\$95.23

Last 7 Days

Last 30 Days

+ Add Transaction

DATE	DESCRIPTION	AMOUNT	ACTIONS
May 11, 2025	Utilities	+\$60.86	
May 10, 2025	Entertainment	\$289.35	Delete
May 9, 2025	Salary	+\$299.81	
May 8, 2025	Utilities	\$266.96	
May 8, 2025	Rent	\$386.86	
May 6, 2025	Shopping	+\$330.16	
May 6, 2025	Groceries	+\$347.57	

Budget Tracker

Logout

Total Income
\$1038.40

Balance
\$95.23

Last 7 DaysLast 30 Days

+ Add Transaction

DATE	DESCRIPTION	AMOUNT	ACTIONS
May 11, 2025	UT	60.86	

Amount
0120

Description
Maaş

Date
05 / 11 / 2025

CancelAdd Transaction

InspectorConsoleDebuggerNetworkStyle EditorPerformanceMemoryStorageAccessibilityApplicationAdBlock

Filter Output

Transaction list before calculations: »Array(7) [(-), (-), (-), (-), (-), (-), (-)]

Positive transactions: »Array(4) [(-), (-), (-), (-)]

Negative transactions: »Array(3) [(-), (-), (-)]

Calculated values: »Object { totalIncome: 1038.4, totalExpenses: 943.17, balance: 95.23000000000013 }

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ErrorsWarningsLogsInfoDebugCSSXHRRequests

Dashboard.ttx:63:10Dashboard.ttx:66:10Dashboard.ttx:73:10Dashboard.ttx:81:10Dashboard.ttx:63:10Dashboard.ttx:66:10Dashboard.ttx:73:10Dashboard.ttx:81:10Dashboard.ttx:63:10Dashboard.ttx:66:10Dashboard.ttx:73:10Dashboard.ttx:81:10Dashboard.ttx:63:10Dashboard.ttx:66:10Dashboard.ttx:73:10Dashboard.ttx:81:10Dashboard.ttx:63:10Dashboard.ttx:66:10Dashboard.ttx:73:10Dashboard.ttx:81:10