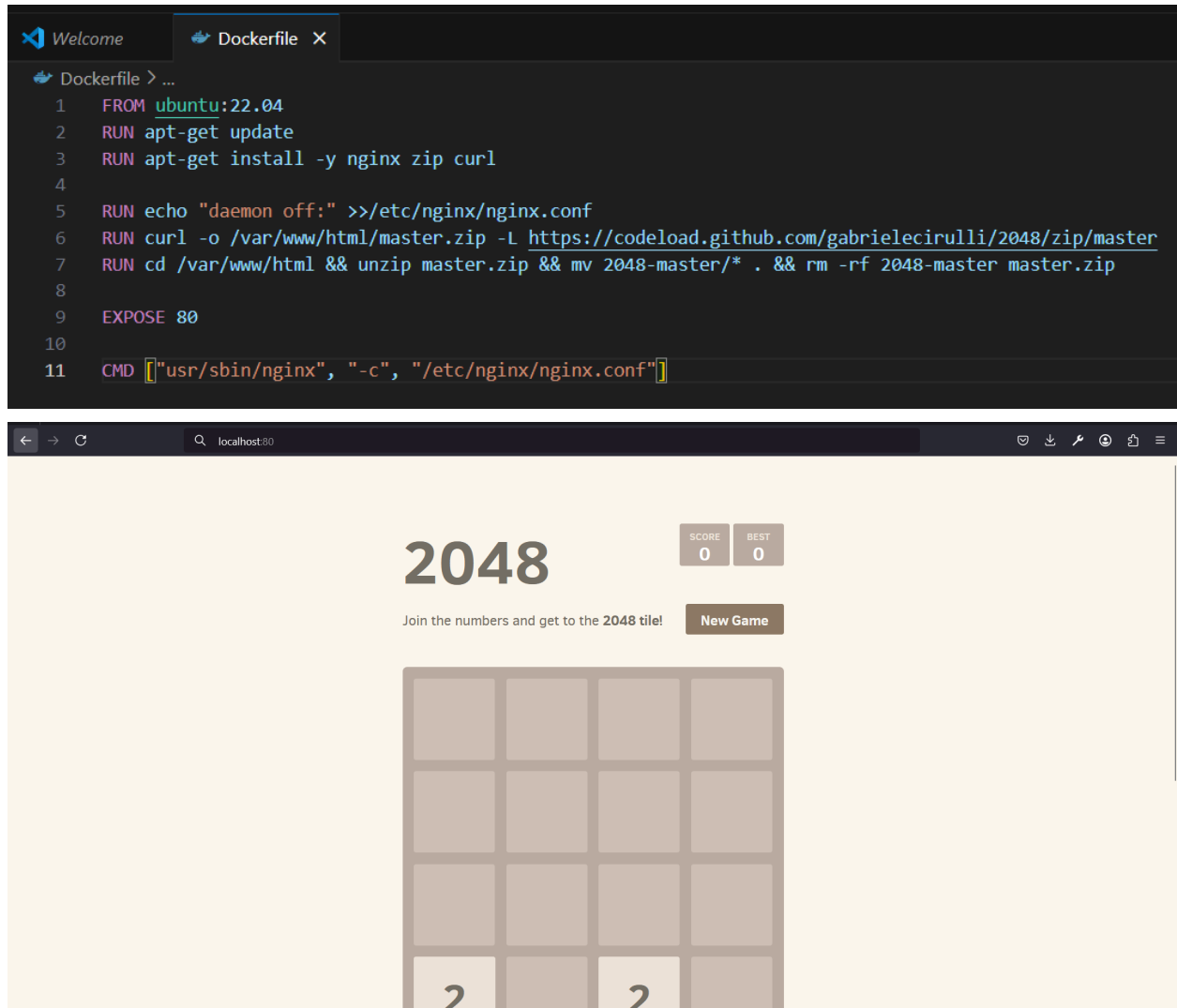


Simple DevOps Project - Create a Game using Docker and Deploy to AWS

For this project, I will be use a game from gthub to create a game on Docker Container and use Elastic Beanstalk to deploy this docker container on AWS.



The image shows a VS Code editor window with a Dockerfile open. The Dockerfile contains the following commands:

```
1 FROM ubuntu:22.04
2 RUN apt-get update
3 RUN apt-get install -y nginx zip curl
4
5 RUN echo "daemon off;" >>/etc/nginx/nginx.conf
6 RUN curl -o /var/www/html/master.zip -L https://codecademy.github.io/2048/zip/master
7 RUN cd /var/www/html && unzip master.zip && mv 2048-master/* . && rm -rf 2048-master master.zip
8
9 EXPOSE 80
10
11 CMD ["usr/sbin/nginx", "-c", "/etc/nginx/nginx.conf"]
```

Below the editor, a web browser window is open to localhost:80, displaying the 2048 game interface. The game board is a 4x4 grid with two tiles containing the number 2. The score and best score are both 0. A 'New Game' button is visible.

- Step 1
- **Configure environment**
- Step 2
Configure service access
- Step 3 - optional
Set up networking, database, and tags
- Step 4 - optional
Configure instance traffic and scaling
- Step 5 - optional
Configure updates, monitoring, and logging
- Step 6
Review

Configure environment [Info](#)

Environment tier [Info](#)

Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications.

- ☒ **Web server environment**
Run a website, web application, or web API that serves HTTP requests. [Learn more](#)
- ☐ **Worker environment**
Run a worker application that processes long-running workloads on demand or performs tasks on a schedule. [Learn more](#)

Application information [Info](#)

Application name

Maximum length of 100 characters.

► Application tags (optional)

Environment information [Info](#)

Choose the name, subdomain and description for your environment. These cannot be changed later.

Environment name

2048-env [Info](#)



Environment overview

Health

⊖ Unknown

Domain

—

Environment ID

📄 e-g6mmy2tipj

Application name

2048

Platform

Platform

Docker running on 64bit Amazon Linux 2

Running version

—

- Events**
- Health
- Logs
- Monitoring
- Alarms
- Managed updates
- Tags

Events (5) [Info](#)

🔍 Filter events by text, property or value

Time	Type	Details
February 26, 2025 19:02:27 (UTC+8)	📘 INFO	Deleting SNS topic for environment 2048-env.
February 26, 2025 19:02:25 (UTC+8)	🚫 ERROR	Failed to launch environment.
February 26, 2025 19:02:25 (UTC+8)	🚫 ERROR	Environment must have instance profile associated with it.

Step 2: Add permissions

Permissions policy summary

Policy name

[AWSElasticBeanstalkWebTier](#)

Type

AWS managed

Attached as

Permissions policy

Environment successfully launched.

2048-game-env [Info](#)



Actions

Upload and deploy

Environment overview

Health

Ok

Environment ID

e-2bkcdjia43

Domain

2048-game-env.eba-6sz2ppy6.ap-southeast-2.elasticbeanstalk.com

Application name

2048-game

Platform

Change version

Platform

Docker running on 64bit Amazon Linux 2023/4.4.4

Running version

start

Platform state

Supported

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Events (10) [Info](#)

Filter events by text, property or value

< 1 >

Time



Type

Details

February 26, 2025 19:19:52 (UTC+8)

INFO

Successfully launched environment: 2048-game-env



2048-game-env.eba-6sz2ppy6.ap-southeast-2.elasticbeanstalk.com



2048

SCORE
0

BEST
0

Join the numbers and get to the 2048 tile!

New Game

