2048 App Deployment on AWS EKS

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Overview

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Objective

The objective of this project is to deploy a containerized 2048 app on Amazon Elastic Container Service for Kubernetes (EKS) using Ingress and Application Load Balancer (ALB). This deployment aims to demonstrate the scalability, high availability, and efficient traffic management of containerized applications on EKS. By leveraging Ingress and ALB, we can ensure seamless traffic routing and load balancing for the app. This project showcases the integration of AWS services with Kubernetes for robust application deployment.

List of services Integrated

- Amazon Elastic Container Service for Kubernetes (EKS)
- Kubernetes Ingress
- Application Load Balancer (ALB)
- Amazon EC2 (for EKS nodes)
- Amazon VPC (for networking)

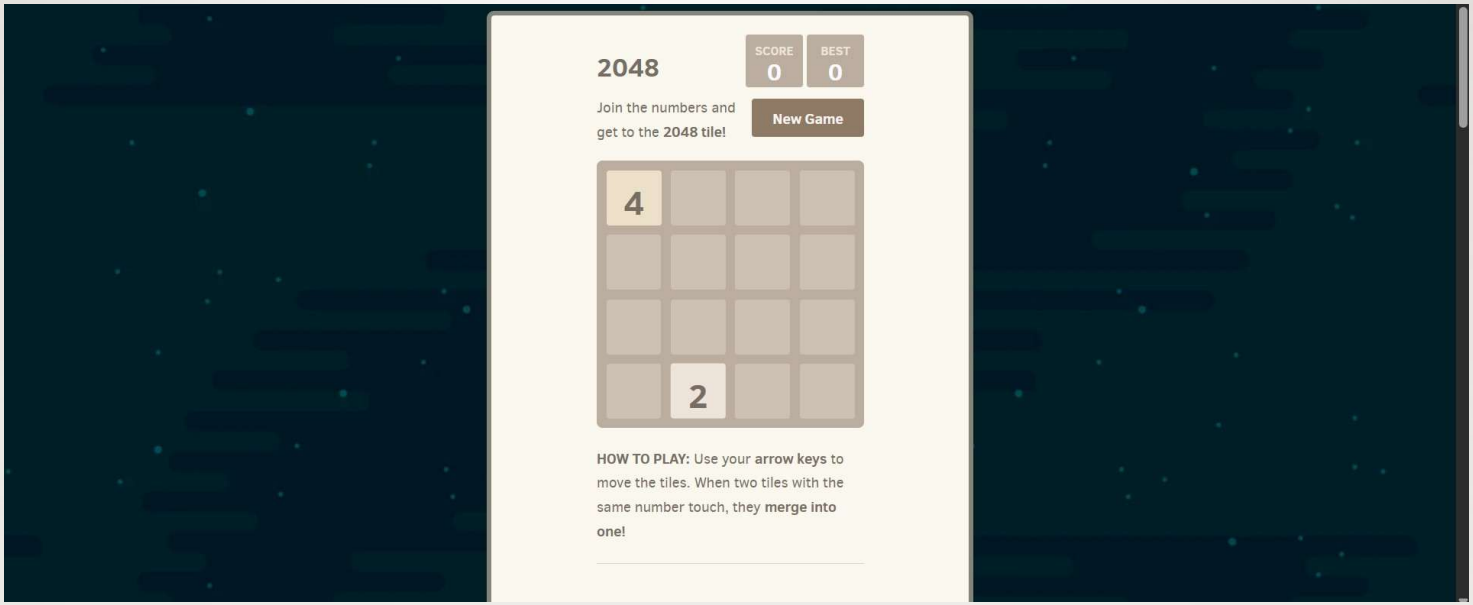
Scope and Use Case of the Services Integrated

- Amazon EKS: Managed Kubernetes service for containerized apps, providing scalability and high availability.
- Kubernetes Ingress: Manages incoming traffic, providing path-based routing and SSL/TLS termination.
- Application Load Balancer (ALB): Distributes traffic to targets, enabling efficient load balancing and routing for containerized apps.

Scope and Use Case of the Services Integrated

- Amazon EC2 (for EKS nodes): Provides scalable compute resources for EKS nodes, enabling efficient deployment and management of containerized applications.
- Amazon VPC (for networking): Enables secure and isolated networking for EKS clusters, allowing for controlled access and communication between resources

Screenshot of Output




THANK
YOU