

2048 GAME

2048 game deploy

Create a game using html ,css and js

Create a docker file

```
FROM nginx:alpine

RUN rm -rf /usr/share/nginx/html/*
# WORKDIR /2048

COPY . /usr/share/nginx/html/

EXPOSE 80
# CMD [ "npm", "start" ]
CMD ["nginx", "-g", "daemon off;"]
```

>>docker build -t allenaira/2048 .

>> docker images

>> docker run -d -p 8080:80 allenaira/2048

To push our image to docker hub

Create a repo in hub

>> docker push allenaira/2048

Now to deploy our image on aws kubernetes

2048 game on docker

Add a category

GeneralTagsImage ManagementBETACollaboratorsWebhooksSettings

Tags

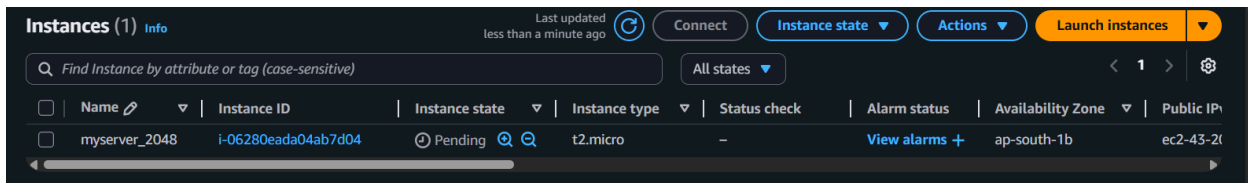
DOCKER SCOUT INACTIVE
[Activate](#)

This repository contains 0 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	less than 1 day	4 minutes

[See all](#)

Now launch and ubuntu instance



Create a bucket to store your data



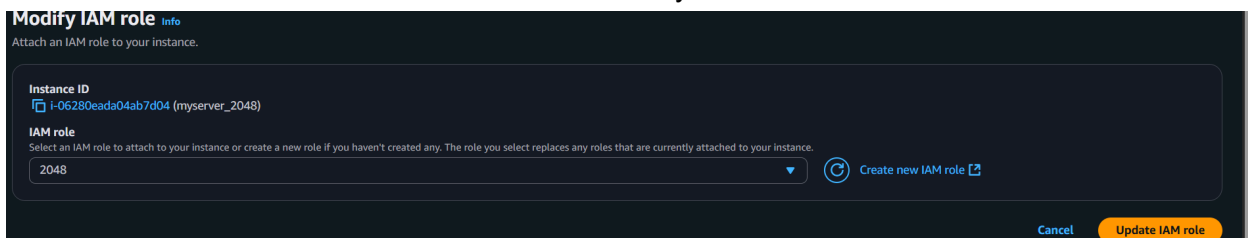
Now connect your server and run few commands

https://github.com/mantu0tech/2048_on_kubernetes.git

Refer these links

- 1 `sudo apt update && sudo apt upgrade -y`
- 2 `sudo git clone https://github.com/mantu0tech/2048_on_kubernetes.git`
- 3 `ls`
- 4 `cd 2048_on_kubernetes/`
- 5 `ls`
- 6 `cd Scripts/`
- 7 `sudo chmod u+x script.sh`
- 8 `ls`
- 9 `sudo apt install docker.io -y`
- 10 `sudo bash script.sh`
- 11 `aws --version`
- 12 `terraform --version`
- 13 `kubectl version --client`
- 14 `cd EKS-TF/`
- 15 `terraform init`

Create an i am role with administrator and attach to your server



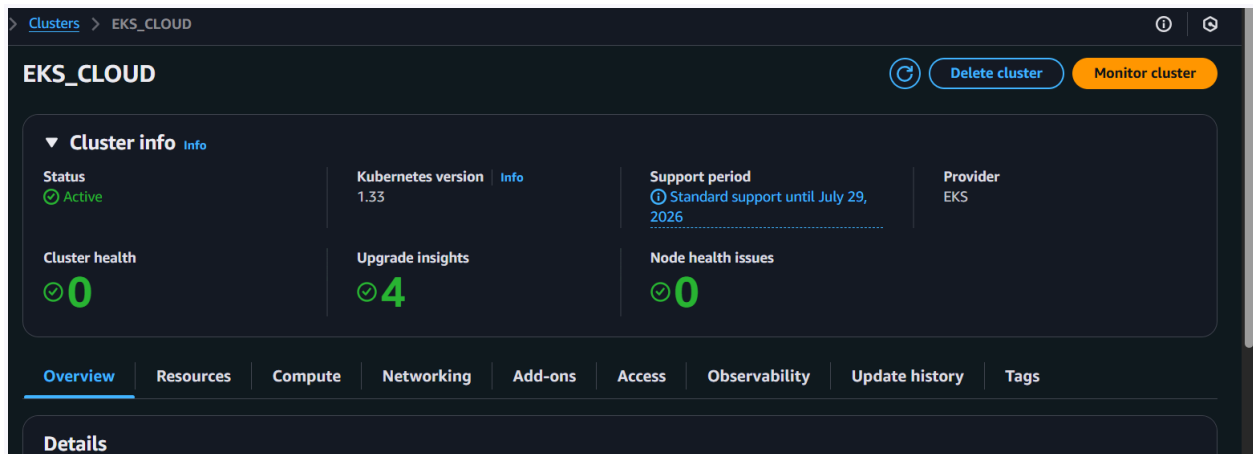
- 17 `cd 2048_on_kubernetes/Scripts/EKS-TF/`
- 18 `ls`
- 19 `terraform init`

```

20 sudo terraform init
21 sudo terraform validate
22 sudo terraform plan
23 history
24 sudo terraform apply --auto-approve
25 aws eks update-kubeconfig --name EKS_CLOUD --region ap-south-1
26 cd ..
27 kubectl apply -f deployment.yaml
28 kubectl get all
29 kubectl apply -f service.yaml

```

Your EKS cluster is ready

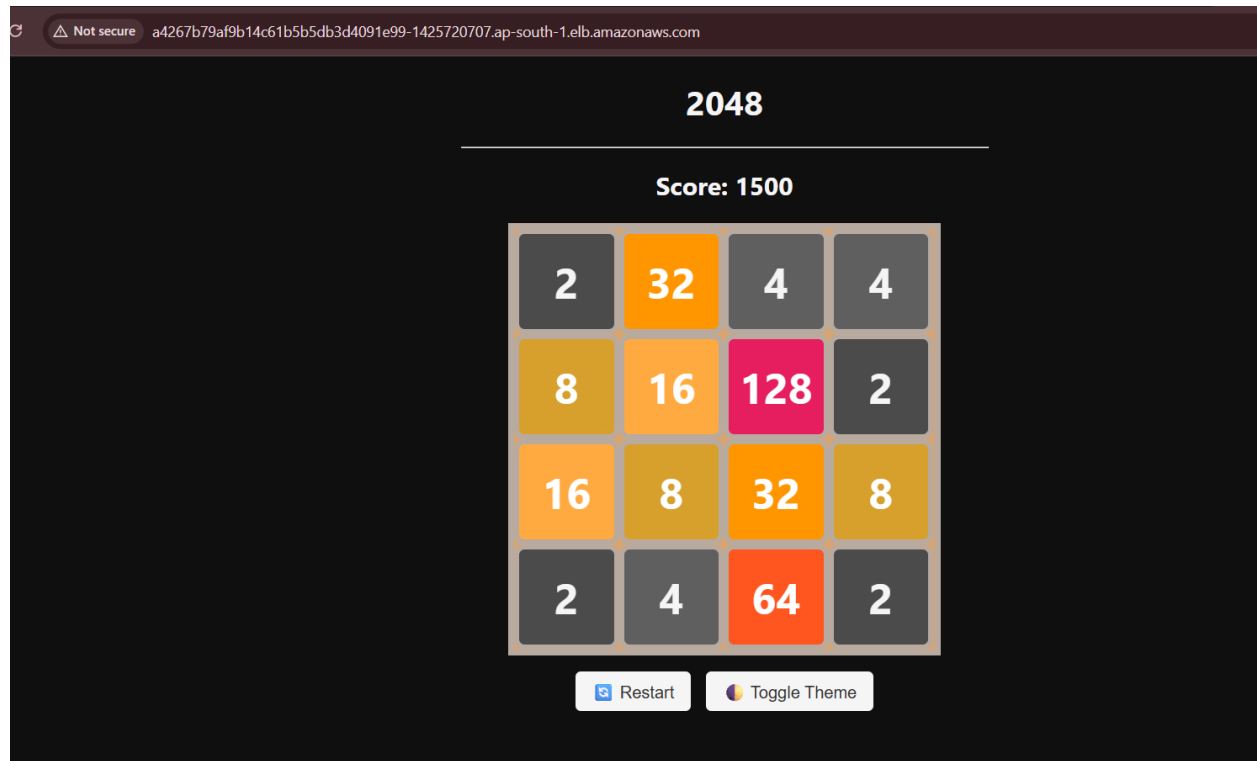


```

replicaset.apps/mario-deployment-7c676f9559 2 2 2 3m13s
ubuntu@ip-172-31-14-7:~/2048_on_kubernetes/Scripts$ kubectl describe service mario-service
Name: mario-service
Namespace: default
Labels: <none>
Annotations: <none>
Selector: app=mario
Type: LoadBalancer
IP Family Policy: SingleStack
IP Families: IPv4
IP: 10.100.246.111
IPs: 10.100.246.111
LoadBalancer Ingress: a4267b79af9b14c61b5b5db3d4091e99-1425720707.ap-south-1.elb.amazonaws.com
Port: <unset> 80/TCP
TargetPort: 80/TCP
NodePort: <unset> 31588/TCP
Endpoints: 172.31.35.157:80,172.31.10.33:80
Session Affinity: None
External Traffic Policy: Cluster
Internal Traffic Policy: Cluster
Events:
  Type    Reason              Age   From                  Message
  ----    -
  Normal  EnsuringLoadBalancer 40s   service-controller    Ensuring load balancer
  Normal  EnsuredLoadBalancer 37s   service-controller    Ensured load balancer

```

Just copy the loadbalancer url and paste it on browser



Delete everything
>> terraform destroy
And you are done