### **Assignment-11**

## **Rockstar Application:**

#### --> Dotnet build

```
harshavardhani@harshavardhanis-MacBook-Air rockstar % dotnet build
MSBuild version 17.3.1-2badb37d1 for .NET
Determining projects to restore..
All projects are up-to-date for restore.
newproj -> /Users/harshavardhani/Downloads/rockstar/bin/Debug/net5.0/newproj.dll
newproj -> /Users/harshavardhani/Downloads/rockstar/bin/Debug/net5.0/newproj.Views.dll

Build succeeded.
0 Warning(s)
0 Error(s)

Time Elapsed 00:00:00.85
harshavardhani@harshavardhanis-MacBook-Air rockstar % dotnet run
Building...
It was not possible to find any compatible framework version
The framework indexosoft.AspNetCore.App; version '5.0.0' was not found.
- The following frameworks were found:
3.1.29 at [/usr/local/share/dotnet/x64/shared/Microsoft.AspNetCore.App]

You can resolve the problem by installing the specified framework and/or SDK.

The specified framework can be found at:
- https://aka.ms/dotnet-core-applaunch?framework=Microsoft.AspNetCore.App&framework_version=5.0.0&arch=x64&rid=osx.11.1-x64
harshavardhani@harshavardhanis-MacBook-Air rockstar % dotnet build
MSBuild version 17.3.1-2badb37d1 for .NET
Determining projects to restore...
Restored /Users/harshavardhani/Downloads/rockstar/newproj.csproj (in 54 ms).
newproj -> /Users/harshavardhani/Downloads/rockstar/bin/Debug/net6.0/newproj.dll

Build succeeded.
0 Warning(s)
0 Error(s)

Time Elapsed 00:00:02.49
```

#### --> Dotnet run

```
harshavardhani@harshavardhanis-MacBook-Air rockstar % dotnet run
Building...
info: Microsoft.Hosting.Lifetime[14]
    Now listening on: https://localhost:5001
info: Microsoft.Hosting.Lifetime[14]
    Now listening on: http://localhost:5000
info: Microsoft.Hosting.Lifetime[0]
    Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
    Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
    Content root path: /Users/harshavardhani/Downloads/rockstar
^Cinfo: Microsoft.Hosting.Lifetime[0]
    Application is shutting down...
```

#### --> Docker build

```
harshavardhani@harshavardhanis-MacBook-Air rockstar % docker build -f Dockerfile -t harsharachagiri02/rockstar .

[+] Building 33.3s (11/14)

> [internal] load build definition from Dockerfile

> > transferring dockerfile: 5328

> [internal] load ,dockerignore

> > transferring context: 2B

> [internal] load metadata for mcr.microsoft.com/dotnet/sdk:5.0

> [build-env 1/6] FROM mcr.microsoft.com/dotnet/sdk:5.0@sha256:3ff465d940de3e2c727794d92fd7bb649c498d4abd9lbc9213ea7831e

> resolve mcr.microsoft.com/dotnet/sdk:5.0@sha256:3ff465d940de3e2c727794d92fd7bb649c498d4abd9lbc9213ea7831ebf01fle

> sha256:(2818e1146c95fe06cea47dba164efb5af3d27fd5f14e97555dc2f47aeaf57 7.17kB / 7.17kB

> sha256:(21818e147865357f49911ca38159f73f959abd406d3ede558898bc81bc9f1ag 16.92MB / 16.92MB

> sha256:9c90da79cfd69dbfb688337844e19462013f716243a61d23487f3b61154eb2e 29.61MB / 29.61MB

> sha256:1110247865357f495539f49de3e2c727794492fd7bb649pc498ddabd9bc9213ea7831ebf0f1fe 2.17kB / 2.17kB

> sha256:138184b8ce0778bb3785494de3e2c727794492fd7bb649c498ddabd9bc9213ea7831ebf0f1fe 2.17kB / 2.17kB

> sha256:138184b8ce0778bb378549db682b2785562d4fd08332a3a81bedc5c8a4826 2.01kB / 2.01kB

> sha256:1395656d8bd4d76854ed30958203e99cc9825506b6feecc2492342c1f1c2e67 154B / 154B

> sha256:13937656fde09139555f89ea137551c8a0646f10833774f87931c540768 8.34MB

> sha256:13937656fde09139555f89ea137551c8a0646f10833774f87931c540768 8.34MB
```

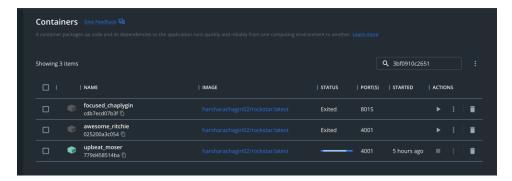
#### --> Docker push

```
harshavardhani@harshavardhanis-MacBook-Air rockstar % docker push harsharachagiri02/rockstar
Using default tag: latest
The push refers to repository [docker.io/harsharachagiri02/rockstar]
8fc7212d4978: Pushed
cf8d3447bb59: Pushed
3710ffcb49cd: Pushed
ad02b0c87d63: Pushed
7ebf29561063: Pushed
6dbc80880926: Pushed
6dbc80808026: Pushed
6dbc80808026: Pushed
latest: digest: sha256:d5b073ebd6405222a13779f3fc6c43d8aa3077df87465fee6d09184704ea5c27 size: 1789
```

#### --> Docker run

```
harshavardhani@harshavardhanis_MacBook_Air rockstar % docker run -p 8014:5001 harsharachagiri02/rockstar
warn: Microsoft.AspNetCore.DataProtection.Repositories.FileSystemXmlRepository[60]
Storing keys in a directory '/root/.aspnet/DataProtection-Keys' that may not be persisted outside of the container. Protecte
d data will be unavailable when container is destroyed.
warn: Microsoft.AspNetCore.DataProtection.KeyManagement.XmlKeyManager[35]
No XML encryptor configured. Key {b112e122-b7c0-4a7a-a4af-684da74ed6ca} may be persisted to storage in unencrypted form.
info: Microsoft.Hosting.Lifetime[0]
Now listening on: http://[::]:80
info: Microsoft.Hosting.Lifetime[0]
Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
Hosting environment: Production
info: Microsoft.Hosting.Lifetime[0]
Content root path: /app
^Cinfo: Microsoft.Hosting.Lifetime[0]
Application is shutting down...
```

#### --> DockerHub



# --> DockerHub rockstar image



# --> Dotnet application having 3 lyrics

: à localhost:5001 Q 凸 ☆ # 🛘 🙃

Rockstar Application Home Privacy Snowman Antihero Aisekyon

# Rockstar, Here you go!!!



# --> Terraform apply

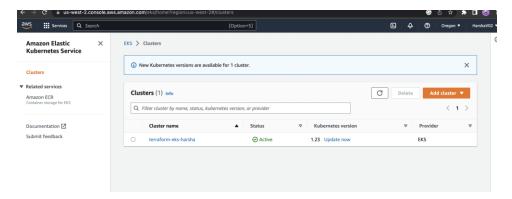
```
Note: You didn't use the —out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
harshavardhani@harshavardhanis-MacBook-Air tr-aws % terraform apply
data.aws_region.current: Reading...
data.aws_availability_zones.available: Reading...
data.aws_region.current: Read complete after 0s [id=us-west-2]
data.aws_availability_zones.available: Read complete after 1s [id=us-west-2]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

+ create
<- read (data resources)

Terraform will perform the following actions:
```

#### --> AWS cluster



# --> config-map-aws-auth.yml

```
harshavardhani@harshavardhanis-MacBook-Air tr-aws % terraform output kubeconfig > ~/.kube/config-terraform-eks-ha rsha harshavardhanis-MacBook-Air tr-aws % cp ~/.kube/config-terraform-eks-demo ~/.kube/config harshavardhanis-MacBook-Air tr-aws % cp ~/.kube/config-terraform-eks-harsha ~/.kube/config harshavardhani@harshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map- aws-auth.y ml

Error: Unexpected argument

The output command expects exactly one argument with the name of an output variable or no arguments to show all outputs.

For more help on using this command, run: terraform output -help harshavardhani@harshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhani@harshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhani@harshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhani@harshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhanis-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhanig-MacBook-Air tr-aws % terraform output config_map_aws_auth > config-map-aws-auth.ym larshavardhanig-MacBook-Air tr-aws % terraform output config_map_aws_auth > config_map_aws_auth.ym larshavardhanig_macBook-Air tr-aws % terraform output config_map_aws_auth > config_map_aws_auth.ym larshavardhanig_macBook-Air tr-aws % terraform output config_map_aw
```

#### --> Kubectl apply

harshavardhani@harshavardhanis-MacBook-Air tr-aws % kubectl apply -f config-map-aws-auth.yml configmap/aws-auth created

## --> Brew install I-am-authenticator

```
harshavardhani@harshavardhanis-MacBook-Air tr-aws % brew install aws-iam-authenticator
Running `brew update —auto-update`...

Auto-updated Homebrew!

Updated 2 taps (hashicorp/tap and homebrew/core).

New Formulae

graphqxl joker mariadb@10.9 ruff tut

You have 24 outdated formulae installed.
You can upgrade them with brew upgrade
or list them with brew outdated.

Warning: aws-iam-authenticator 0.5.11 is already installed and up-to-date.
To reinstall 0.5.11, run:
brew reinstall aws-iam-authenticator
```

#### --> Terraform output version

harshavardhani@harshavardhanis-MacBook-Air tr-aws % terraform output kubeversion "1.23"

#### --> kubectl get nodes

```
harshavardhani@harshavardhanis—MacBook—Air tr—aws % kubectl get nodes
NAME
STATUS ROLES AGE VERSION
ip-10-0-197.us-west-2.compute.internal Ready <none> 20m v1.23.13-eks-fb459a0
ip-10-0-1-125.us-west-2.compute.internal Ready <none> 20m v1.23.13-eks-fb459a0
```

# --> kubectl create deploy yml file

 $harshavardhani \underline{@} harshavardhanis - \underline{MacBook} - \underline{Air} tr - \underline{aws} \ \ \& \ kubectl \ create \ - \\ \dagger \ \ rockstar.yml \ pod/rockstar \ created$ 

# --> kubectl create services yml file

harshavardhani@harshavardhanis-MacBook-Air tr-aws % kubectl create -f rockstar\_service.yml service/rockstar created

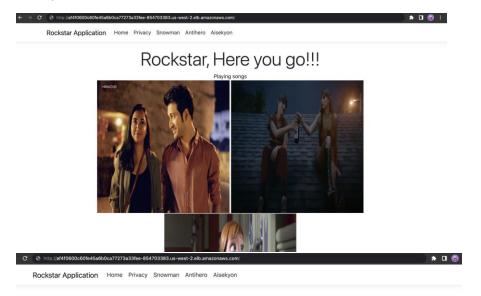
# --> kubectl get services

```
harshavardhani@harshavardhanis-MacBook-Air tr-aws % kubectl get services

NAME TYPE CLUSTER-IP EXTERNAL-IP
PORT(S) AGE

kubernetes ClusterIP 172.20.0.1 <none>
443/TCP 15h
rockstar LoadBalancer 172.20.54.243 af4f0600c60fe45a6b0ca77273a33fee-854703383.us-west-2
.elb.amazonaws.com 80:31830/TCP 2m33s
```

# --> 3 lyrics



# Snowman



Do you wanna build a snowman Come on, let's go and play! I never see you anymore Come out the door It's like you've gone away We used to be best buddles

Rockstar Application Home Privacy Snowman Antihero Aisekyon

# Aisekyon



Jara Jara Abhi Baatein Shuru Hi Hui Magar Khush Hu Main Aaj Kal Hmm Abhi Talak Meri Sham Toh Aisi Na Thi Jaise Halki Hai Aaj Kal Kya Hai Ye Maajra Kuch To Hai Mil Raha

Rockstar Application Home Privacy Snowman Antihero Aisekyon

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# Antihero



I have this thing where I get older but just never wiser
Midnights become my afternoons
When my depression works the graveyard shift
All of the people I've ghosted stand there in the room
I should not be left to my own devices
Theu come with rvices and vices