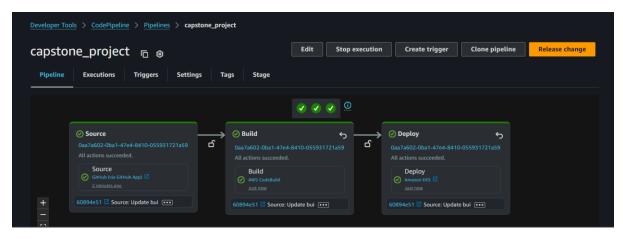
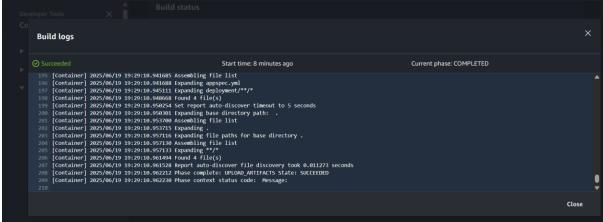
Project repo - https://github.com/abdulsamimmondal/aws-capstone-samim.git

Github repo- https://github.com/abdulsamimmondal/cinema-capstone.git

Step1: clone the repo

Pipeline-





```
Build logs

Succeeded

Start time: 2 minutes ago

Current phase: COMPLETED

163 [Container] 2025/66/19 20:13:55.701055 Phase complete: POST_BUILD State: SUCCEEDED

164 [Container] 2025/66/19 20:13:55.091204 Expanding phase directory path: .

165 [Container] 2025/66/19 20:13:55.092269 Assembling file list

167 [Container] 2025/66/19 20:13:55.092269 Expanding, abse directory path: .

168 [Container] 2025/66/19 20:13:55.092269 Expanding file paths for base directory .

169 [Container] 2025/66/19 20:13:55.092890 Assembling file list

170 [Container] 2025/66/19 20:13:55.092890 Expanding appspec.yml

171 [Container] 2025/66/19 20:13:55.092890 Expanding deployment/**/*

172 [Container] 2025/66/19 20:13:55.093608 Expanding deployment/**/*

173 [Container] 2025/66/19 20:13:55.093608 Expanding deployment/**/*

174 [Container] 2025/66/19 20:13:55.093608 Expanding base directory path: .

175 [Container] 2025/66/19 20:13:55.093608 Expanding file list

176 [Container] 2025/66/19 20:13:55.093608 Expanding file list

177 [Container] 2025/66/19 20:13:55.093608 Expanding file paths for base directory .

178 [Container] 2025/66/19 20:13:55.093608 Expanding file list

179 [Container] 2025/66/19 20:13:55.094608 Expanding file list

170 [Container] 2025/66/19 20:13:55.094608 Expanding file list

171 [Container] 2025/66/19 20:13:55.094608 Expanding file list

172 [Container] 2025/66/19 20:13:55.094608 Expanding file list

173 [Container] 2025/66/19 20:13:55.094608 Expanding file list

174 [Container] 2025/66/19 20:13:55.094608 Expanding file list

175 [Container] 2025/66/19 20:13:55.094608 Expanding file paths for base directory .

176 [Container] 2025/66/19 20:13:55.094608 Expanding file paths for base directory .

177 [Container] 2025/66/19 20:13:55.094608 Expanding file paths for base directory .

180 [Container] 2025/66/19 20:13:55.094608 Expanding file paths for base directory .

180 [Container] 2025/66/19 20:13:55.094608 Expanding file paths for base directory .

180 [Container] 2025/66/19 20:13:55.094608 Expanding file paths
```

```
Build logs

Succeeded

Start time:

Current phase:

(Succeeded

Start time:

Current phase:

(Succeeded

Current phase:

(Sugging in to Amazon EKS cluster.

In Running command: ass eks update-kubeconfig --region us-east-1 --name cluster1

Installing kubectl...

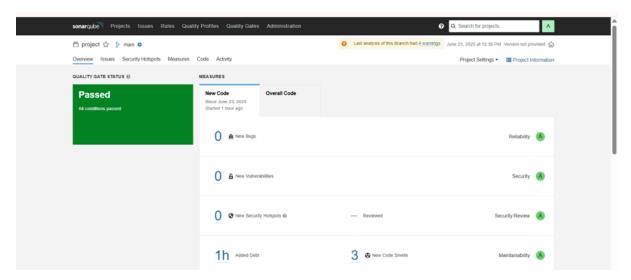
In Running command: ass eks update-kubeconfig --region us-east-1 --name cluster1

Installing command: ass eks update-kubeconfig --region us-east-1 --name cluster1

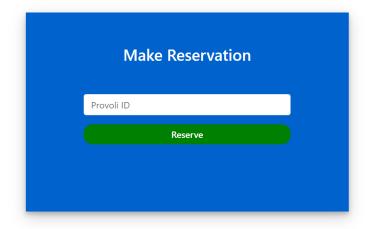
Applying Kubernetes manifests.

Running command: chmod xx /tmp/cp-action-source/dist/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl/kubectl
```

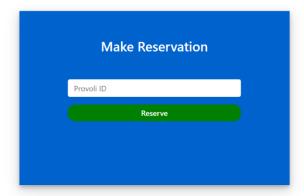
Sonarqube-



Output:



SUCCESS! Reservation added to the database.



SUCCESS! Client added to the database.



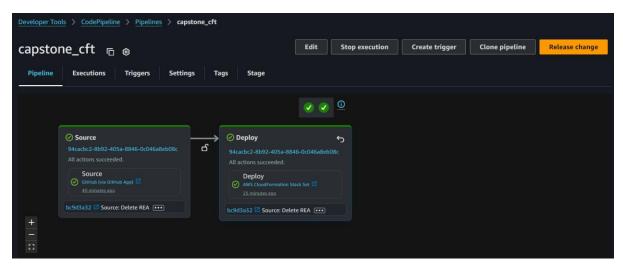
```
root@ip-172-31-86-226:/home/ubuntu/cinema-capstone PGPASSWORD=mdonly123 psql -h cinema-db-instance.crqwg8ys63wt.us-east-1.rds.amazonaws.com
\
-U postgres -d postgres \
-c "SELECT COUNT(*) FROM clients; SELECT COUNT(*) FROM reservations;"
count
------
1
(1 row)

count
-----
0
(1 row)
```

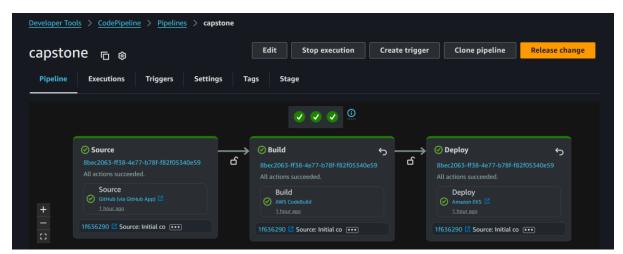
CLOUDFORMATION TEMPLATE

Repo link- https://github.com/abdulsamimmondal/capstone-cft-multi_region.git

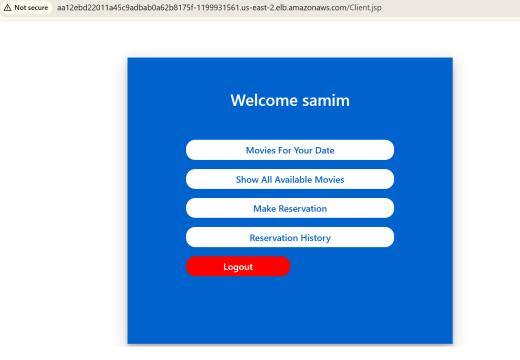
Pipeline repo link- https://github.com/abdulsamimmondal/capstone-east-2.git



After the resources are created in the other region deploy app through pipeline



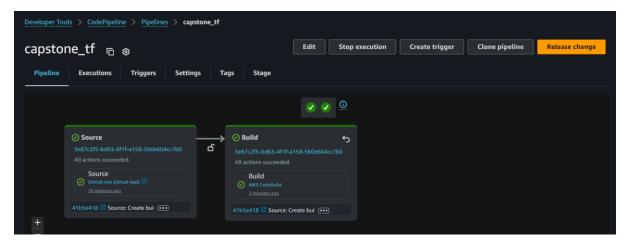
The app is working in the other region.



Terraform template-

Github repo- https://github.com/abdulsamimmondal/capstone-tf.git

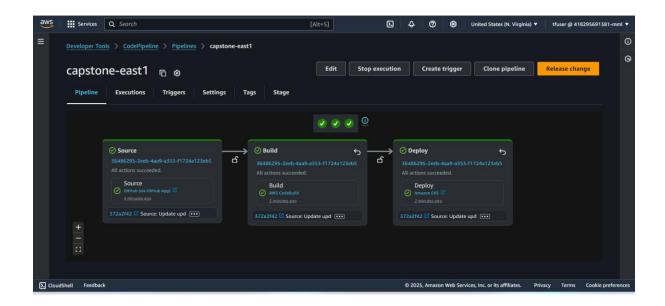
Pipeline-



The infrastructure has been created now we will deploy our application on this infrastructure through another pipeline.

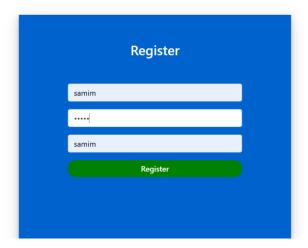
Github repo – https://github.com/abdulsamimmondal/cinema-capstone.git

Pipeline-



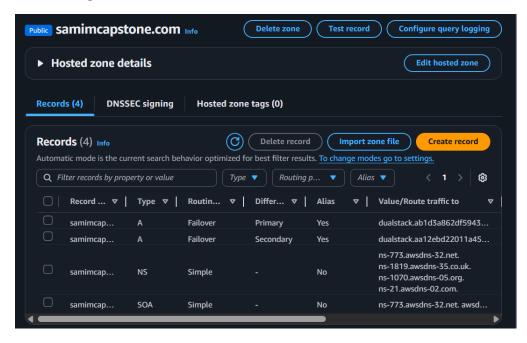
The app is working-

SUCCESS! Client added to the database.

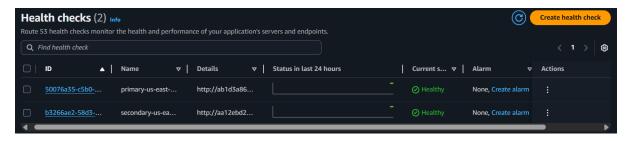


Route 53 failover routing

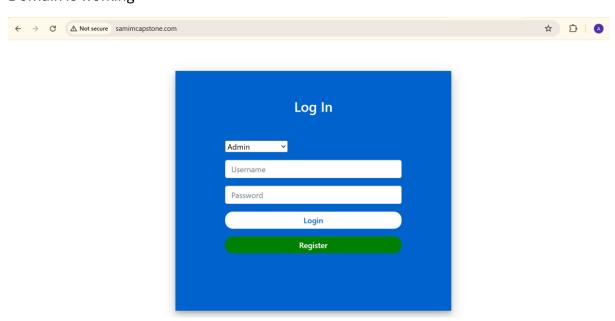
Domain registration-



Health checks-



Domain is working-



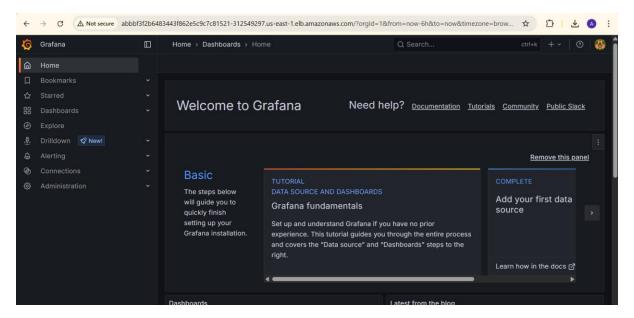
Access the app at- http://samimcapstone.com

Prometheus and Grafana -

Install Prometheus and graffana

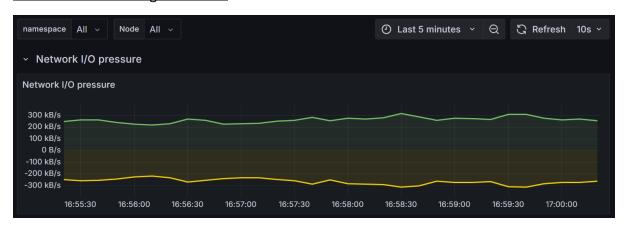
```
oot@ip-10-0-6-72:/home/ubuntu# kubectl get pods -n prometheus
                                                                                       STATUS
                                                                             2/2
2/2
                                                                                       Running
Running
                                                                                                                    6m50s
6m49s
{\tt alertmanager-stable-kube-prometheus-sta-alertmanager-0}
orometheus-stable-kube-prometheus-sta-prometheus-0
stable-grafana-56bdbb9b4b-7gpqk
                                                                                       Running
                                                                                                                    6m53s
6m53s
stable-kube-prometheus-sta-operator-66847554f8-nf9sk
stable-kube-state-metrics-7fc6b5c5d4-tkwqp
                                                                                       Running
                                                                                       Running
stable-prometheus-node-exporter-fsfhk
stable-prometheus-node-exporter-rf4rs
                                                                                                                    6m53s
                                                                                       Running
coot@ip-10-0-6-72:/home/ubuntu# kubectl get svc -n prometheus
NAME TYPE CLUSTER
                                                                        CLUSTER-IP
                                                                                               EXTERNAL-IP
                                                                                                                  PORT (S)
                                                                                                                  9093/TCP,9094/TCP,9094/UDP
9090/TCP
alertmanager-operated
                                                        ClusterIP
                                                                                                                                                          7m18s
                                                                                                                                                          7m17s
7m21s
 rometheus-operated
                                                        ClusterIP
                                                                        None
                                                                                               <none>
 stable-grafana
                                                                         172.20.15.192
stable-kube-prometheus-sta-alertmanager
stable-kube-prometheus-sta-operator
                                                                        172.20.112.194
172.20.72.191
                                                                                                                   9093/TCP,8080/TCP
                                                        ClusterIP
                                                                                               <none>
                                                                                                                                                          7m21s
                                                                                                                   443/TCP
                                                        ClusterIP
                                                                                                <none>
                                                                                                                  9090/TCP,8080/TCP
8080/TCP
stable-kube-prometheus-sta-prometheus
                                                                                               <none>
                                                                                                                                                          7m21s
stable-kube-state-metrics
                                                        ClusterIP
                                                                         172.20.232.26
                                                                                                <none>
                                                                                                                                                          7m21s
 stable-prometheus-node-exporter
coot@ip-10-0-6-72:/home/ubuntu#
                                                                         172.20.237.107
                                                                                                                   9100/TCP
```

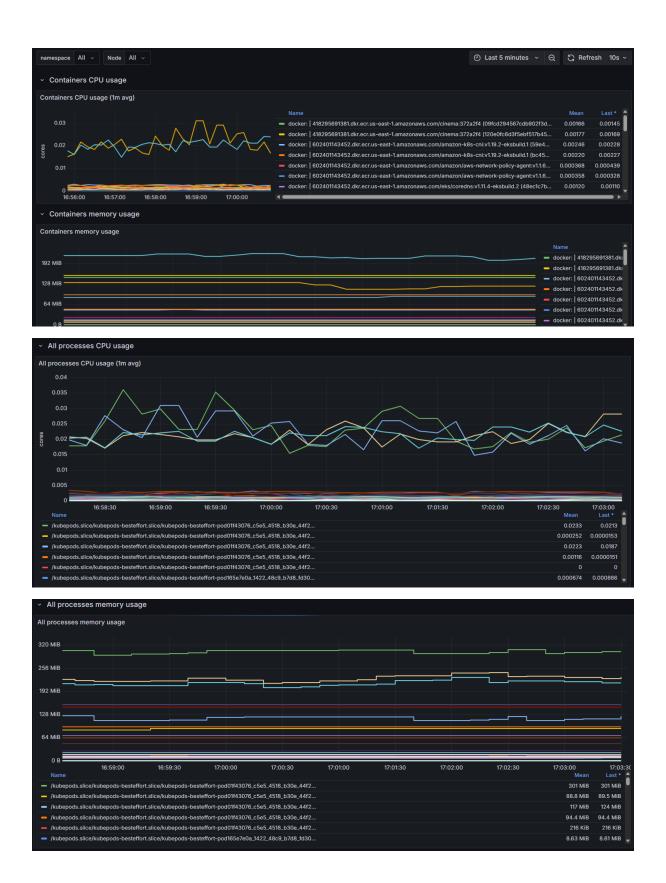
Open Grafana



Create dashboard

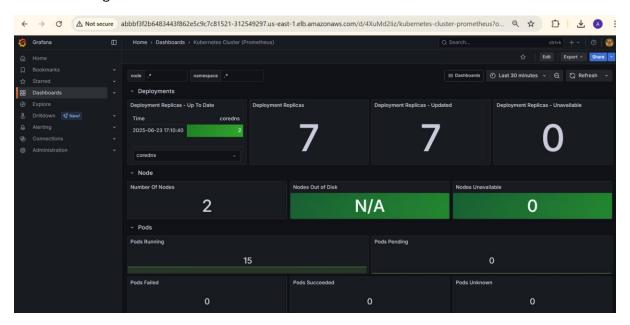
Kubernetes monitoring dashboard







Pod monitoring dashboard

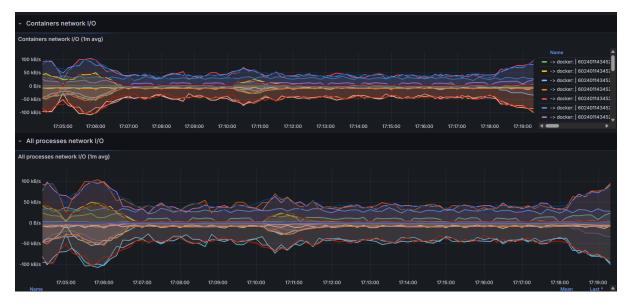


Kubernetes cluster monitoring dashboard



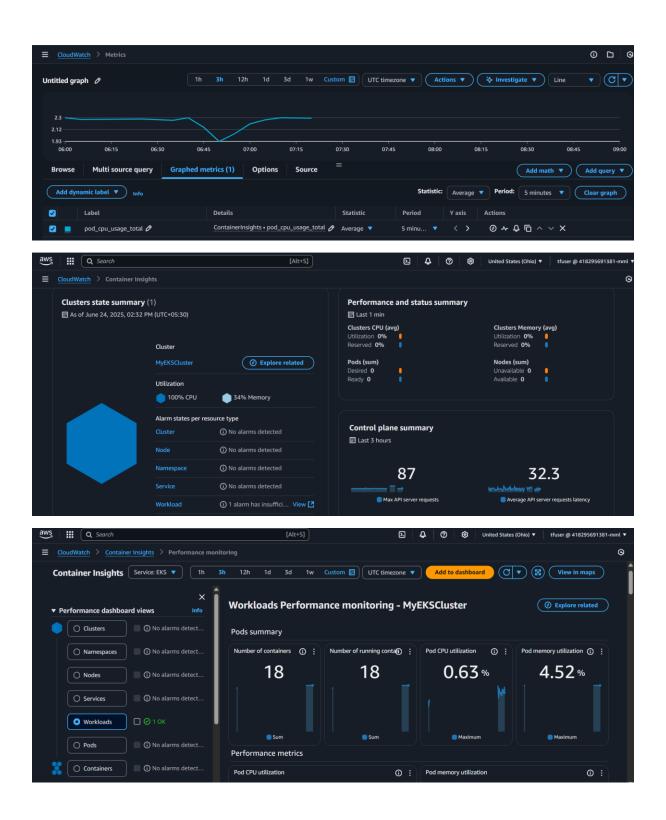






CLOUDWATCH MONITORING

root@ip-10-0-0-160:/home/ubuntu# kubectl get pods -n amazon-cloud	dwatch -	N	÷	
NAME	READY	STATUS	RESTARTS	AGE
amazon-cloudwatch-observability-controller-manager-76c7956t2w19	1/1	Running	0	10s
cloudwatch-agent-hqm51	1/1	Running	0	4s
cloudwatch-agent-11q9z	1/1	Running	0	4s
fluent-bit-7p9vg	1/1	Running	0	10s
fluent-bit-tr2hf	1/1	Running	0	10s



NOTIFY PIPELINE FAILURES-

