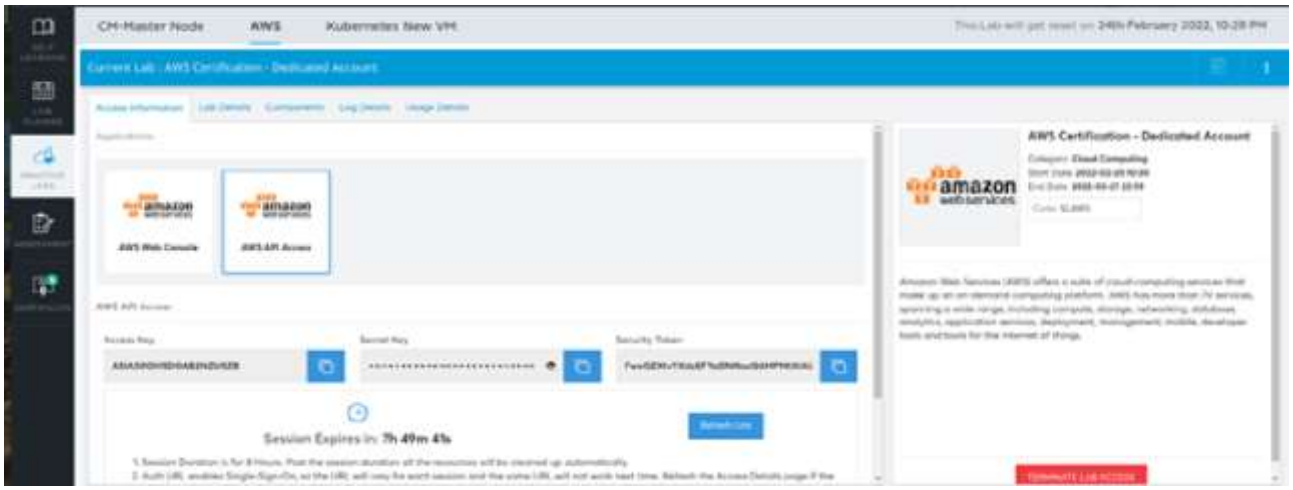
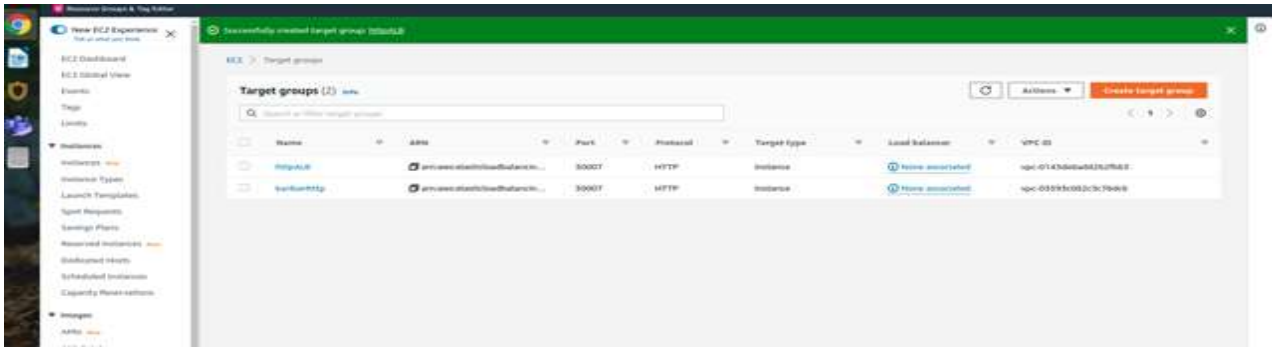
# Capstone Project Screenshot

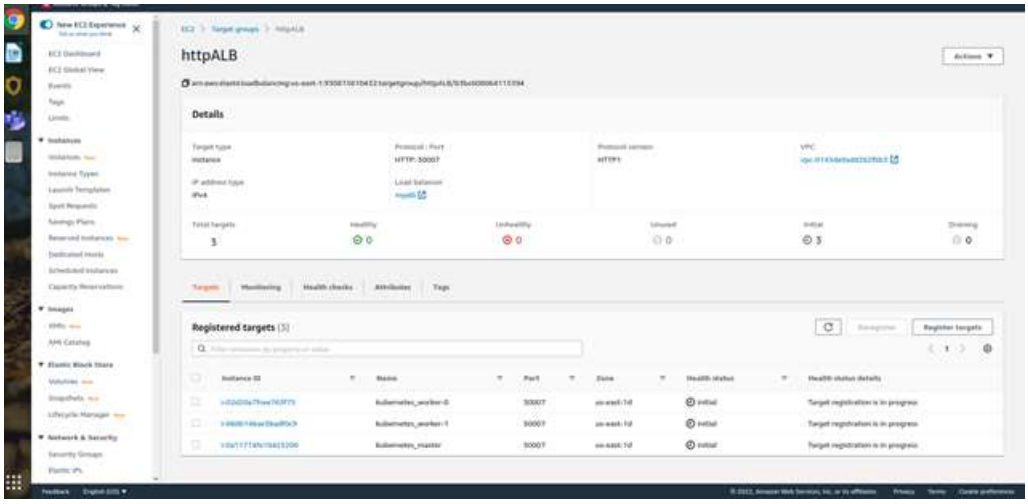
Instances running:

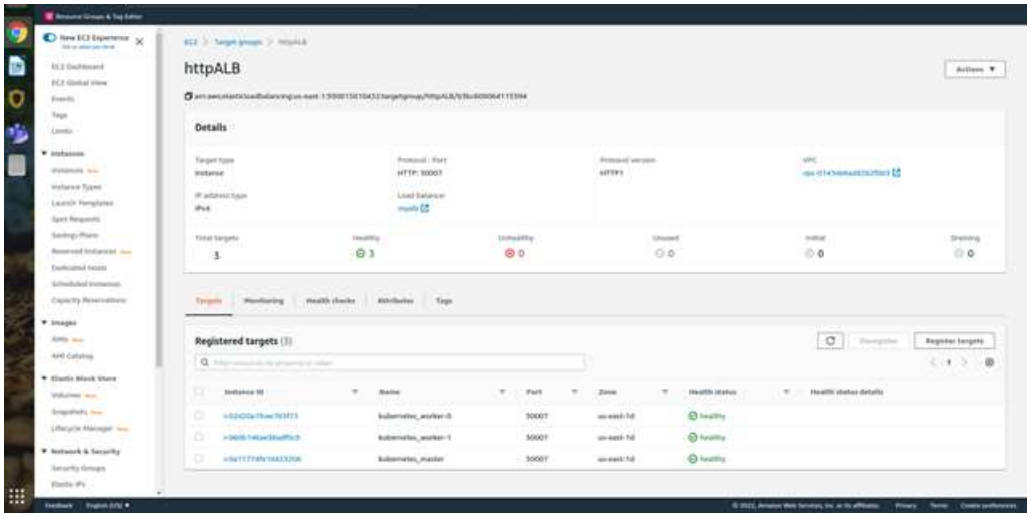
Route Tables:

Internet Gateways:

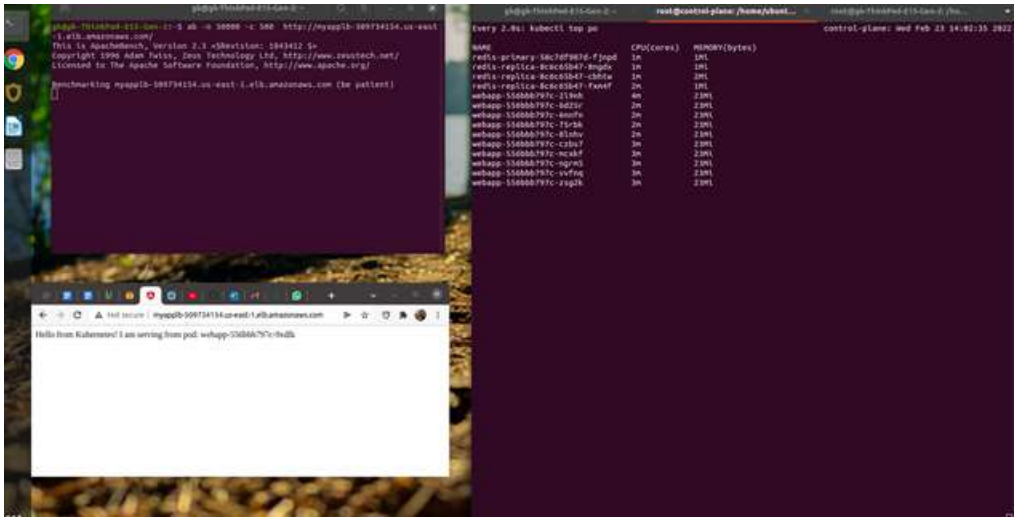


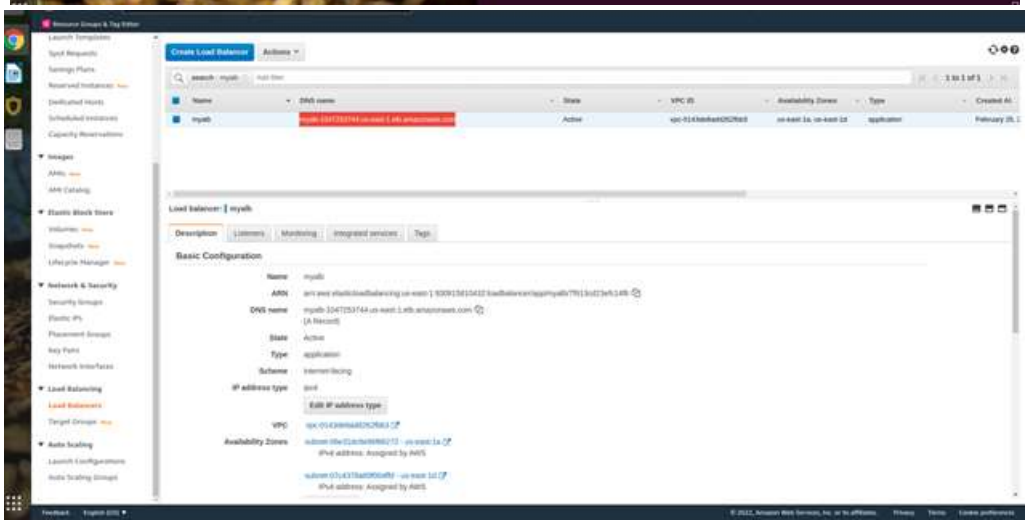


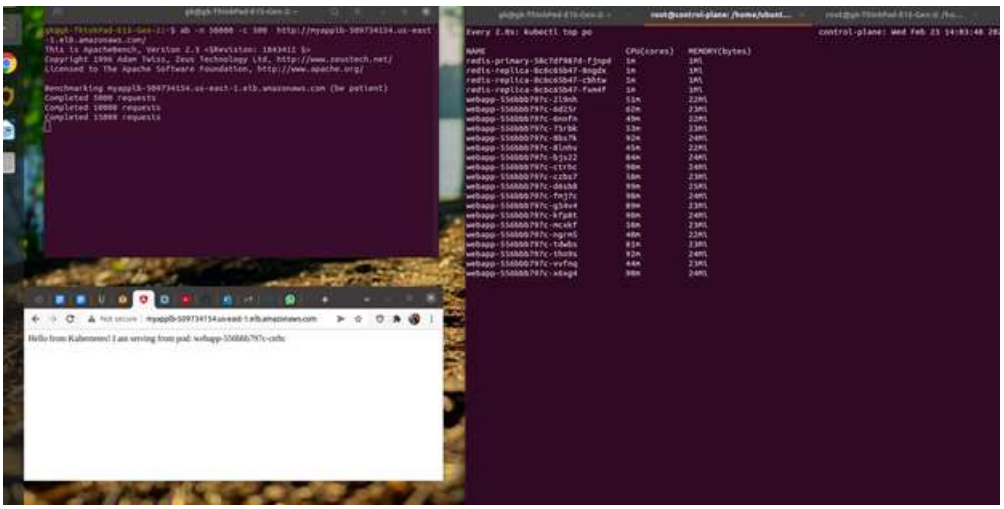


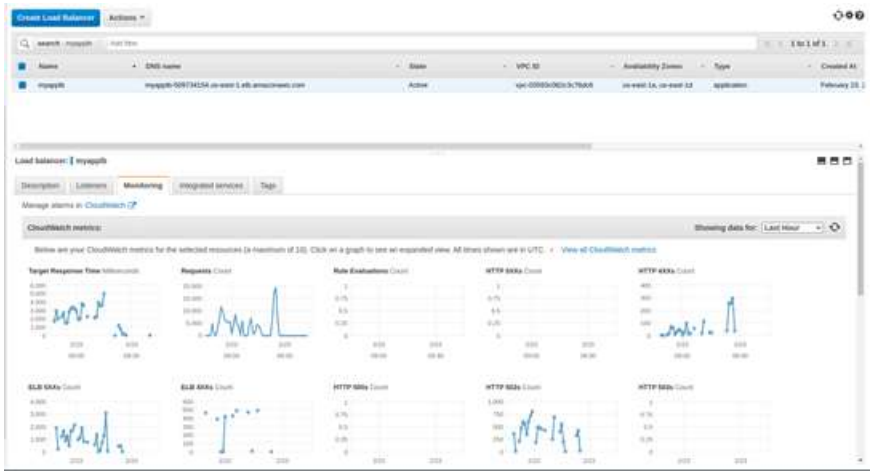


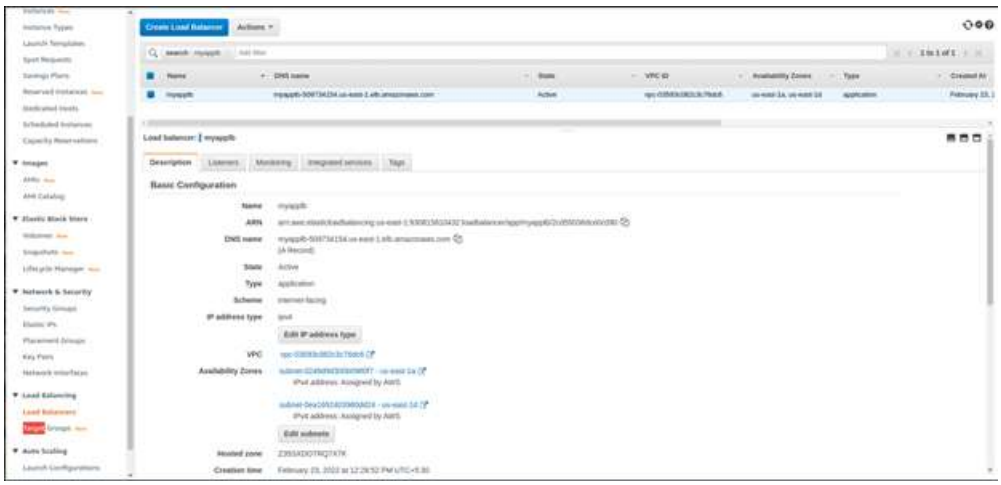
Hello from Kubernetes! I am serving from pod: webapp-556bbb797c-8sjlm

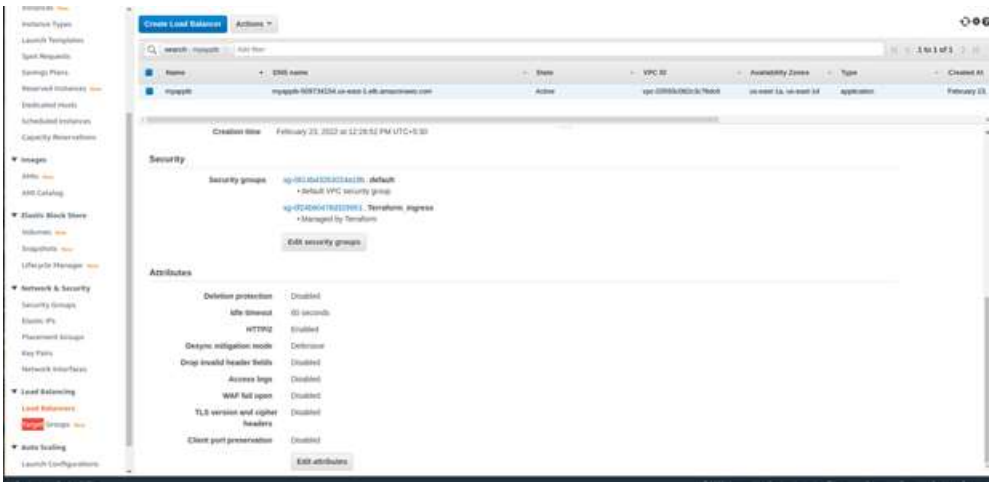

Hello from Kubernetes! I am serving from pod: webapp-556bbb797c-9sdlk

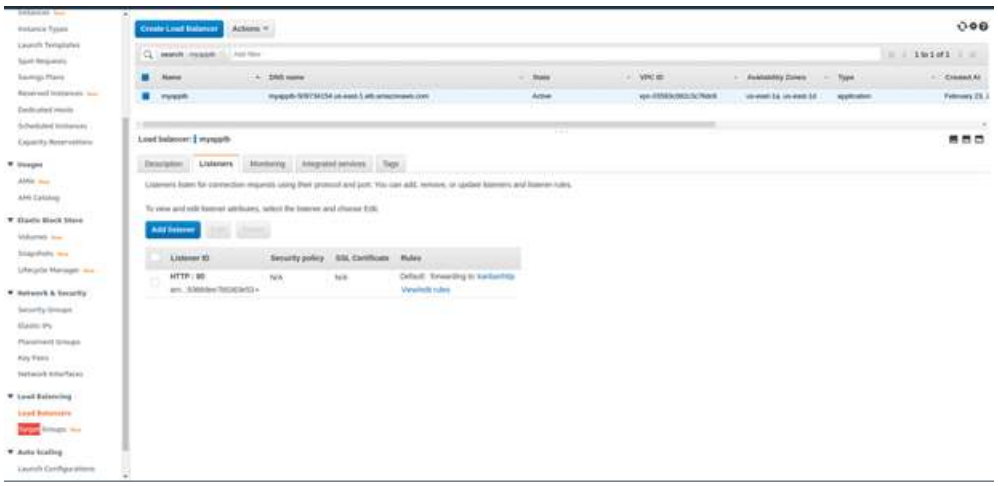

Create Load Balancer
Actions
Basic Configuration


ab -n 50000 -c 500 http://myapplb-509734154.us-east-1.elb.amazonaws.com/
This is ApacheBench, Version 2.3 <$Revision: 1843412 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/
Benchmarking myapplb-509734154.us-east-1.elb.amazonaws.com (be patient)
Completed 5000 requests
Completed 10000 requests
Completed 15000 requests
Not secure
myapplb-509734154.us-east-1.elb.amazonaws.com
Hello from Kubernetes! I am serving from pod: webapp-556bbb797c-cnfbc
root@control-plane: /home/ubunt...
Every 2.0s: kubectl top po
control-plane: Wed Feb 23 14:03:40 20
NAME CPU(cores) MEMORY(bytes)
redis-primary-58c7df987d-fjspd 1m 1Mi
redis-replica-8c8c65b47-8ngdx 1m 1Mi
redis-replica-8c8c65b47-cbhtw 1m 1Mi
redis-replica-8c8c65b47-fxm4f 1m 1Mi
webapp-556bbb797c-2l9nh 51m 22Mi
webapp-556bbb797c-6d2sr 62m 23Mi
webapp-556bbb797c-6nnfn 49m 22Mi
webapp-556bbb797c-7srbk 53m 33Mi
webapp-556bbb797c-8bs7k 92m 24Mi
webapp-556bbb797c-8lnhv 45m 22Mi
webapp-556bbb797c-bjjs2 84m 24Mi
webapp-556bbb797c-ctrbc 98m 34Mi
webapp-556bbb797c-czbs7 58m 23Mi
webapp-556bbb797c-d6th8 99m 25Mi
webapp-556bbb797c-fmj7c 98m 24Mi
webapp-556bbb797c-g34v4 89m 23Mi
webapp-556bbb797c-kfg8t 98m 24Mi
webapp-556bbb797c-mcvkf 50m 23Mi
webapp-556bbb797c-ngrn5 48m 22Mi
webapp-556bbb797c-tdwbs 81m 23Mi
webapp-556bbb797c-thn9s 92m 24Mi
webapp-556bbb797c-vvfnq 44m 23Mi
webapp-556bbb797c-x6xg4 98m 24Mi

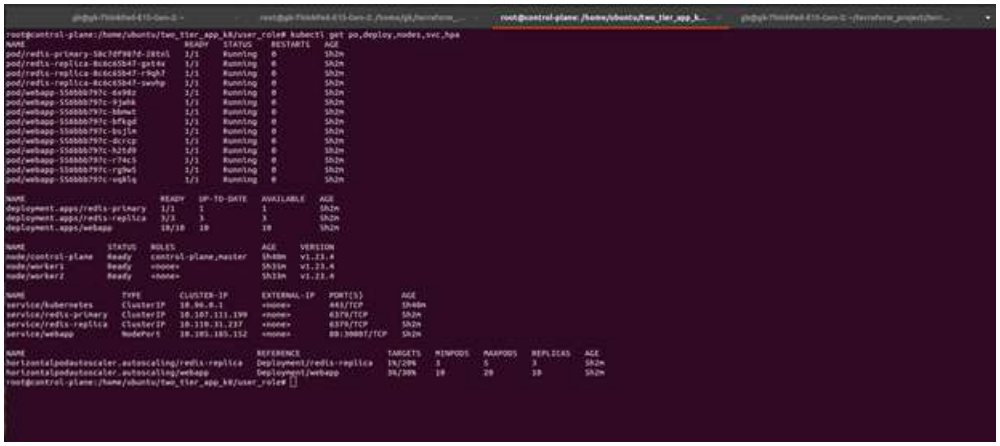

Create Load Balancer
Actions
Load balancer: myappllb
Description
Listeners
Monitoring
Integrated services
Tags
Manage alarms in CloudWatch
CloudWatch metrics:
Showing data for:
Last Hour
Target Response Time
Requests
Rule Evaluations
HTTP 4XXs
HTTP 4XXs
ELB 5XXs
ELB 4XXs
HTTP 500s
HTTP 502s
HTTP 503s


Create Load Balancer
Actions
Name
DNS name
State
VPC ID
Availability Zones
Type
Created At
myappllb
Load balancer: myappllb
Description
Listeners
Monitoring
Integrated services
Tags
Basic Configuration
Name
myappllb
ARN
DNS name
State
Active
Type
application
Scheme
internet-facing
IP address type
ipv4
Edit IP address type
VPC
Availability Zones
Edit subnets
Hosted zone
Creation time


Create Load Balancer
Actions
Name
DNS name
State
VPC ID
Availability Zones
Type
Created At
Creation time
Security
Security groups
Edit security groups
Attributes
Deletion protection
Idle timeout
HTTP/2
Desync mitigation mode
Drop invalid header fields
Access logs
WAF fail open
TLS version and cipher headers
Client port preservation
Edit attributes


Create Load Balancer
Actions
Load balancer: myapplb
Description
Listeners
Monitoring
Integrated services
Tags
Add listener
Edit
Delete
Listener ID
Security policy
SSL Certificate
Rules
HTTP : 80
N/A
N/A
Default: forwarding to
View/edit rules

Create Load Balancer
Actions
HTTP 5XXs
Target connection errors
Sum rejected connections
Target TLS Negotiation Errors
Client TLS Negotiation Errors
HTTP 3XXs
HTTP 2XXs
Active Connection Count
New Connection Count
Processed Bytes
Consumed Load Balancer Capacity Units


root@control-plane:/home/ubuntu/two_tier_app_k8/user_role# kubectl get po,deploy,nodes,svc,hpa
NAME READY STATUS RESTARTS AGE
pod/redis-primary-58c7df987d-28tnl 1/1 Running 0 5h2m
pod/redis-replica-8c6c65b47-gst4x 1/1 Running 0 5h2m
pod/redis-replica-8c6c65b47-r9qh7 1/1 Running 0 5h2m
pod/redis-replica-8c6c65b47-swvhp 1/1 Running 0 5h2m
pod/webapp-556bb6797c-6x98z 1/1 Running 0 5h2m
pod/webapp-556bb6797c-9jwhk 1/1 Running 0 5h2m
pod/webapp-556bb6797c-bbmwt 1/1 Running 0 5h2m
pod/webapp-556bb6797c-bfkgd 1/1 Running 0 5h2m
pod/webapp-556bb6797c-bsjlm 1/1 Running 0 5h2m
pod/webapp-556bb6797c-dcrcp 1/1 Running 0 5h2m
pod/webapp-556bb6797c-h2td9 1/1 Running 0 5h2m
pod/webapp-556bb6797c-r74c5 1/1 Running 0 5h2m
pod/webapp-556bb6797c-rg9w5 1/1 Running 0 5h2m
pod/webapp-556bb6797c-wqklq 1/1 Running 0 5h2m
NAME READY UP-TO-DATE AVAILABLE AGE
deployment.apps/redis-primary 1/1 1 1 5h2m
deployment.apps/redis-replica 3/3 3 3 5h2m
deployment.apps/webapp 10/10 10 10 5h2m
NAME STATUS ROLES AGE VERSION
node/control-plane Ready control-plane,master 5h40m v1.23.4
node/workers Ready <none> 5h31m v1.23.4
node/workers2 Ready <none> 5h31m v1.23.4
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
service/kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 5h40m
service/redis-primary ClusterIP 10.107.111.199 <none> 6379/TCP 5h2m
service/redis-replica ClusterIP 10.110.31.237 <none> 6379/TCP 5h2m
service/webapp NodePort 10.105.185.152 <none> 80:30007/TCP 5h2m
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
horizontalpodautoscaler.autoscaling/redis-replica Deployment/redis-replica 1%/20% 3 5 3 5h2m
horizontalpodautoscaler.autoscaling/webapp Deployment/webapp 3%/30% 10 20 10 5h2m
root@control-plane:/home/ubuntu/two_tier_app_k8/user_role#