

Capstone Project Screenshot

Instances running:



The screenshot shows the AWS Management Console 'Instances' page. Three EC2 instances are listed, all in a 'Running' state. The instances are named 'kubemaster-master', 'kubemaster-ansible-1', and 'kubemaster-ansible-2'. They are all t3.medium instances in the us-east-1 region, running Ubuntu 20.04 LTS. The 'kubemaster-master' instance has a public IP of 40.2.15.170. The 'kubemaster-ansible-1' and 'kubemaster-ansible-2' instances have public IPs of 40.2.48.200 and 40.2.55.174, respectively.

Name	Instance ID	Instance state	Instance type	Status checks	Alarm status	Availability zone	Public IPv4 DNS	Public IPv4
kubemaster-master	i-0a711774911942020	Running	t3.medium	3/3 checks passed	No alarms	us-east-1b	40.2.15.170	40.2.15.170
kubemaster-ansible-1	i-086b148a275a0ff02	Running	t3.medium	3/3 checks passed	No alarms	us-east-1b	40.2.48.200	40.2.48.200
kubemaster-ansible-2	i-05433a3a76e76775	Running	t3.medium	3/3 checks passed	No alarms	us-east-1b	40.2.55.174	40.2.55.174

Route Tables:



The screenshot shows the AWS Management Console 'Route Tables' page. A single route table is listed, named 'rtb-0a711774911942020'. It is associated with the 'default' VPC and has a 'Yes' status for 'Propagated'. The route table has a single route for the destination '0.0.0.0/0' with a target type of 'Internet Gateway' and a target ID of 'igw-0a711774911942020'.

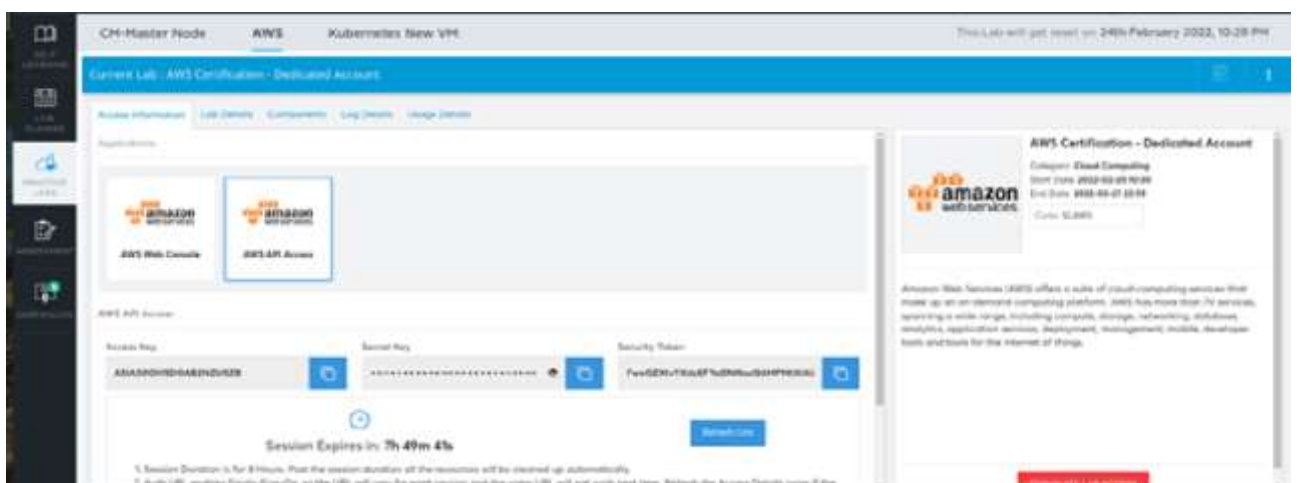
Name	Route table ID	Explicit subnet associat...	Edge associations	Mode	VPC	Owner ID
rtb-0a711774911942020	rtb-0a711774911942020			Yes	vpc-0a711774911942020	950815810412

Internet Gateways:



The screenshot shows the AWS Management Console 'Internet gateways' page. A single internet gateway is listed, named 'igw-0a711774911942020'. It is associated with the 'default' VPC and has a 'Yes' status for 'Propagated'. The internet gateway has a single route for the destination '0.0.0.0/0' with a target type of 'Internet Gateway' and a target ID of 'igw-0a711774911942020'.

Name	Internet gateway ID	Status	VPC ID	Owner
igw-0a711774911942020	igw-0a711774911942020	Attached	vpc-0a711774911942020	950815810412



The screenshot shows the AWS Certification - Dedicated Account page. The page displays the account information for the 'AWS Certification - Dedicated Account'. The account is associated with the 'AWS Web Console' and 'AWS CLI Access'. The account is active and has a session duration of 8 hours. The page also shows the account's status as 'Active' and the account's creation date as '2022-02-01 10:00:00'. The page includes a 'Session Expires in 7h 49m 4s' timer and a 'Refresh' button. The page also includes a 'Terms of Service' link and a 'Privacy Policy' link.

Current Lab: AWS Certification - Dedicated Account

Account Information: Lab Details, Components, Log Details, Usage Details

Applications:

- AWS Web Console
- AWS CLI Access

AWS CLI Access:

Access Key: ANASPHDGBE2DUSZ

Secret Key: [REDACTED]

Security Token: FwvSEH78uAFu0HmWu0HfYHm0

Session Expires in 7h 49m 4s

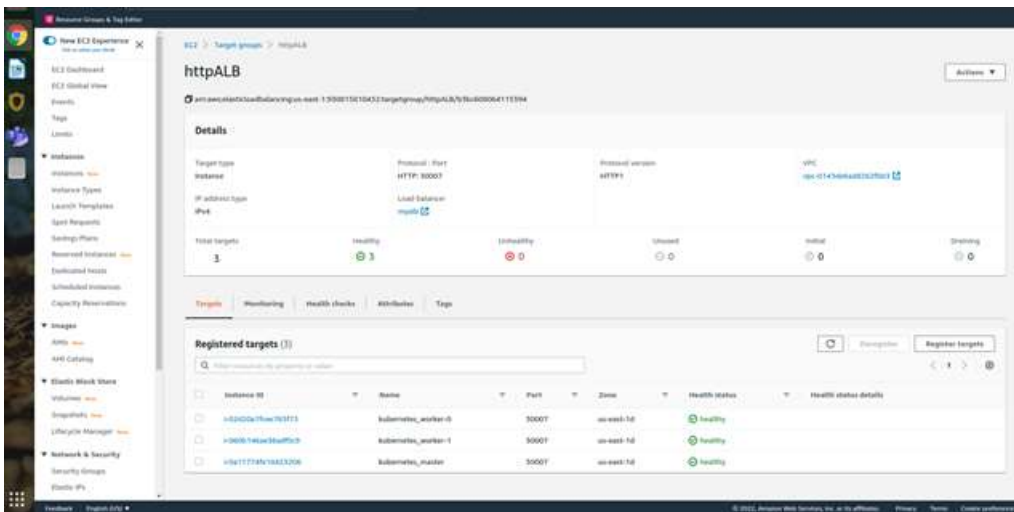
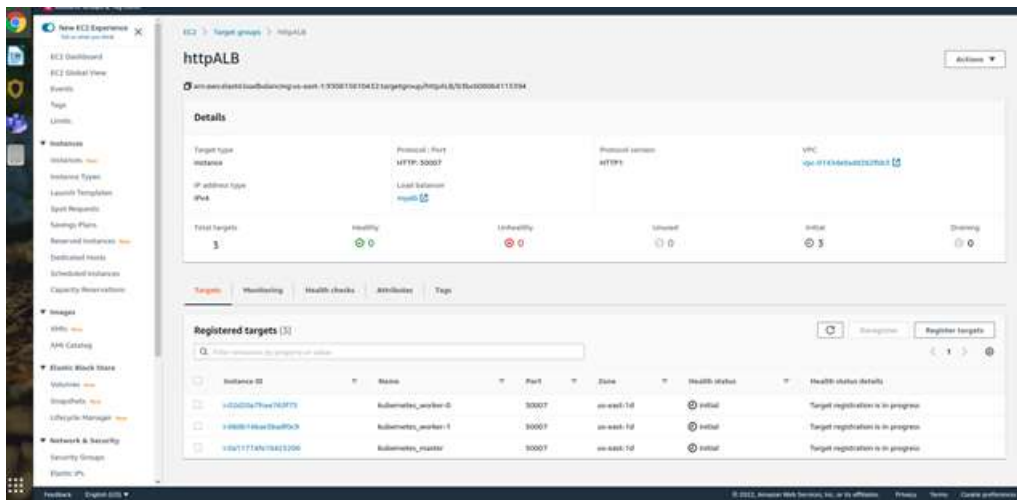
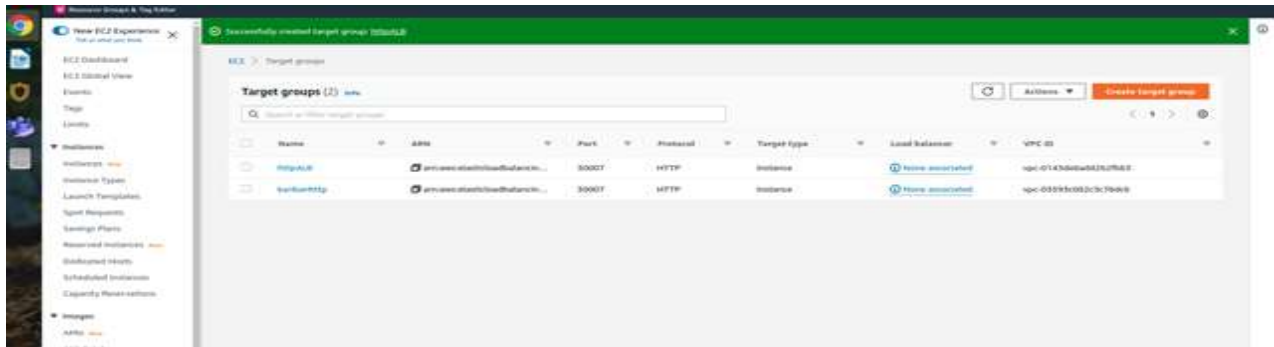
1. Session Duration is for 8 Hours. Post the session duration all the resources will be cleaned up automatically.

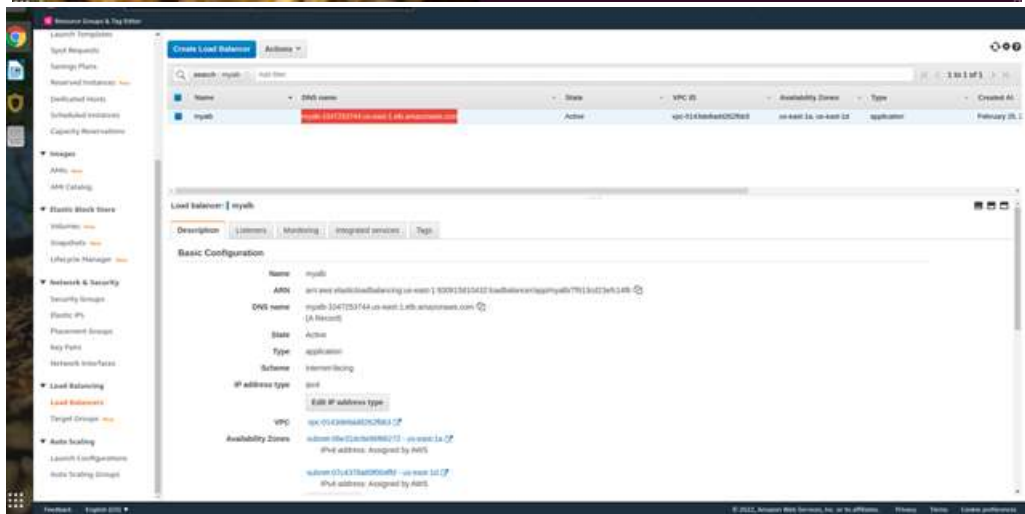
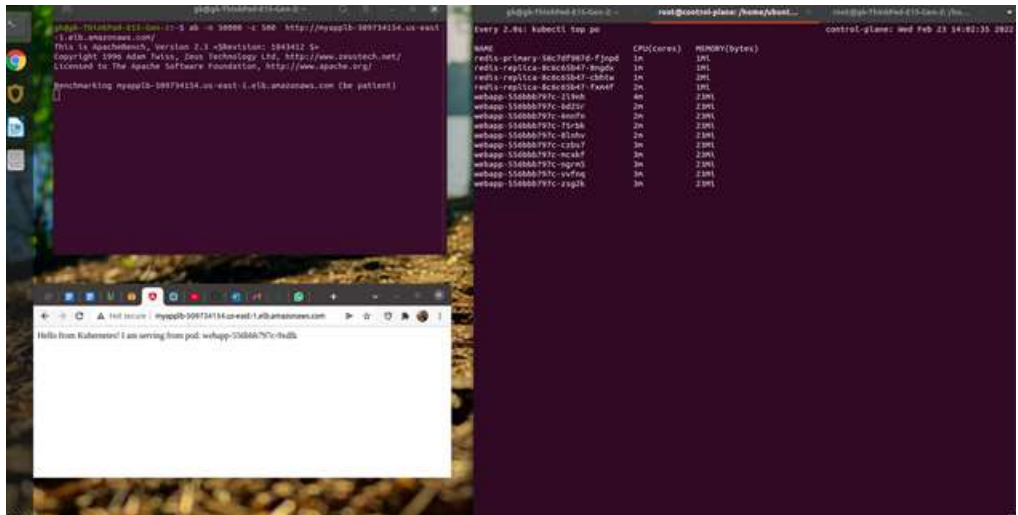
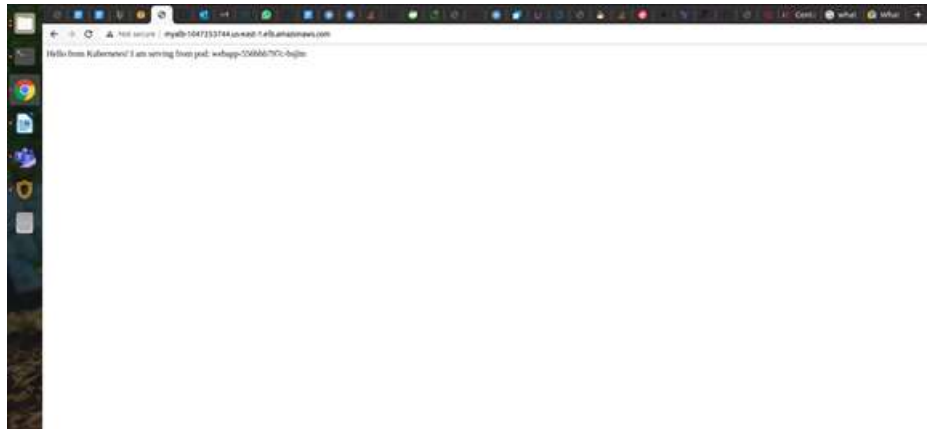
2. Both (CLI) and (Web) Single-Sign-On, as the (CLI) will only be used session and the (Web) will not work next time. Refresh the Access Details page if the

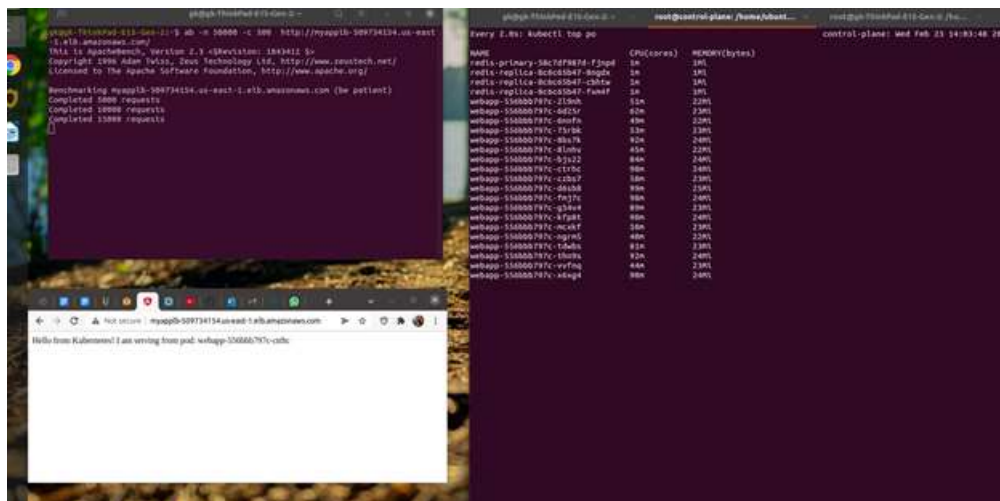
Refresh

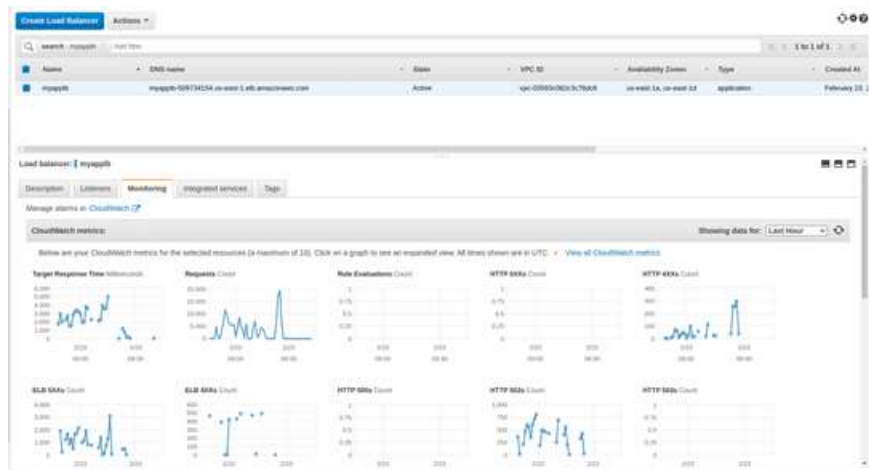
Terms of Service

Privacy Policy









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search myappb

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Name	DNS name	State	VPC ID	Availability Zones	Type	Created At
myappb	myappb-50873424.us-east-2.elb.amazonaws.com	Active	sg-0388a382/us-east-2	us-east-2a, us-east-2b	application	February 23, 2022

Load balancer: myappb

DescriptionListenersMonitoringTargetGroupsTags

Basic Configuration

Name

myappb

ARN

arn:aws:elasticloadbalancing:us-east-2:538813432472:loadbalancer/myappb/2085026b4dc0282

DNS name

myappb-50873424.us-east-2.elb.amazonaws.com

(A Record)

State

Active

Type

Application

Scheme

internet-facing

IP address type

ipv4

Edit IP address type

VPC

sg-0388a382/us-east-2

Availability Zones

us-east-2a us-east-2b

IP addresses assigned by AWS

us-east-2a us-east-2b

IP addresses assigned by AWS

Edit subnets

Hosted zone

Z35LXD0TQ27X76

Creation time

February 23, 2022 at 12:26:52 PM UTC+4:30

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search: myapp01

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Name	DNS name	State	VPC ID	Availability Zones	Type	Created At
myapp01	myapp01-1234567890.us-east-1.elb.amazonaws.com	Active	vpc-01234567890123456	us-east-1a, us-east-1b	Application	February 23, 2023

Creation time: February 23, 2023 at 12:28:52 PM UTC+0:00

Security

Security groups

- sg-01234567890123456: default
 - Default VPC security group
- sg-01234567890123456: Termination protection
 - Managed by Terraform

Edit security groups

Attributes

Deletion protection	Disabled
Idle timeout	60 seconds
HTTP2	Enabled
Drainage mitigation mode	Defensive
Drop invalid header fields	Disabled
Access logs	Disabled
WAF full open	Disabled
TLS version and cipher headers	Disabled
Client port preservation	Disabled

Edit attributes

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search myappb

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Name	DNB name	State	VPC ID	Availability Zones	Type	Created At
myappb	myappb-9W1M154 ul web 5 ulb.amazonaws.com	Active	vpc-0586b9602c7c7b0b8	us-east-1a us-east-1d	application	February 19, 2024

Load balancer: myappb

DescriptionListenersMonitoringIntegrated servicesTags

Listeners form for connection requests using their protocol and port. You can add, remove, or update listeners and listener rules.

To view and edit listener attributes, select the listener and choose Edit.

Add Listener

Listener ID	Security policy	SSL Certificate	Rules
HTTP_80	N/A	SSL	Default: Forwarding to targetgroup
arn:aws:iam::765245412345:role/...			

View rules



```

root@control-plane:/home/ubuntu/tw_tier_app_k8suser_role# kubectl get po,deploy,nodes,svc,App
NAME                                STATUS    RESTARTS   AGE
pod/redis-primary-86c6d5b47-8tcl   1/1      Running    0          5h2m
pod/redis-replica-86c6d5b47-gtsc   1/1      Running    0          5h2m
pod/redis-replica-86c6d5b47-rlgh   1/1      Running    0          5h2m
pod/webapp-5588b879fc-499d        1/1      Running    0          5h2m
pod/webapp-5588b879fc-9jdh        1/1      Running    0          5h2m
pod/webapp-5588b879fc-8dmc        1/1      Running    0          5h2m
pod/webapp-5588b879fc-bfagd        1/1      Running    0          5h2m
pod/webapp-5588b879fc-bqjpf        1/1      Running    0          5h2m
pod/webapp-5588b879fc-6vrcp        1/1      Running    0          5h2m
pod/webapp-5588b879fc-82zdw        1/1      Running    0          5h2m
pod/webapp-5588b879fc-776cs        1/1      Running    0          5h2m
pod/webapp-5588b879fc-rgbw        1/1      Running    0          5h2m
pod/webapp-5588b879fc-vgliq        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                5h4m   v1.23.4
node/worker1                       Ready     worker-                              5h3m   v1.23.4
node/worker2                       Ready     worker-                              5h3m   v1.23.4

NAME                                TYPE     CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
service/kubernetes                  ClusterIP   10.96.0.1     <none>         443/TCP    5h4m
service/redis-primary               ClusterIP   10.107.111.199 <none>         6379/TCP    5h2m
service/redis-replica               ClusterIP   10.210.31.237  <none>         6379/TCP    5h2m
service/webapp                       NodePort    10.105.185.152 <none>         80/NodePort/TCP 5h2m

NAME                                REFERENCE                                TARGETS   MINPODS   MAXPODS   REPLICAS   AGE
horizontalpodautoscaler.autoscaling/redis-replica  Deployment/redis-replica               1N/20%    1         5         3         5h2m
horizontalpodautoscaler.autoscaling/webapp          Deployment/webapp                       1N/20%    10        20        10         5h2m
root@control-plane:/home/ubuntu/tw_tier_app_k8suser_role#

```