# Deployment of app in ibm cloud and deploy in kubernetes cluster

| Date | 11 NOV 2022 |
|------|-------------|
| Team Id | PNT2022TMID19328 |
| Project Name | NUTRITION ASSISTANT APPLICATION |
| Task name | DEPLOYMENT OF APP IN IBM CLOUD AND DEPLOY IN KUBERNETES CLUSTER |

DNS Response:
arpadinc-rabcd-lb00.us-south.containers.appdomain.cloud  IN A 169.61.23.130

DNS
(IKS Service via
Cloudflare)

Health Checks

DNS Request

HTTPS(TCP) return path (DSR)

Client

HTTPS (TCP)

MQTT (TCP)

Client

MQTT return (TCP)

Client

NLB
169.61.23.130

ALB

Kube Pod
Kube Pod
Kube Pod
Kube Pod

Zone
DAL10

Single-Zone IKS Cluster — US-SOUTH
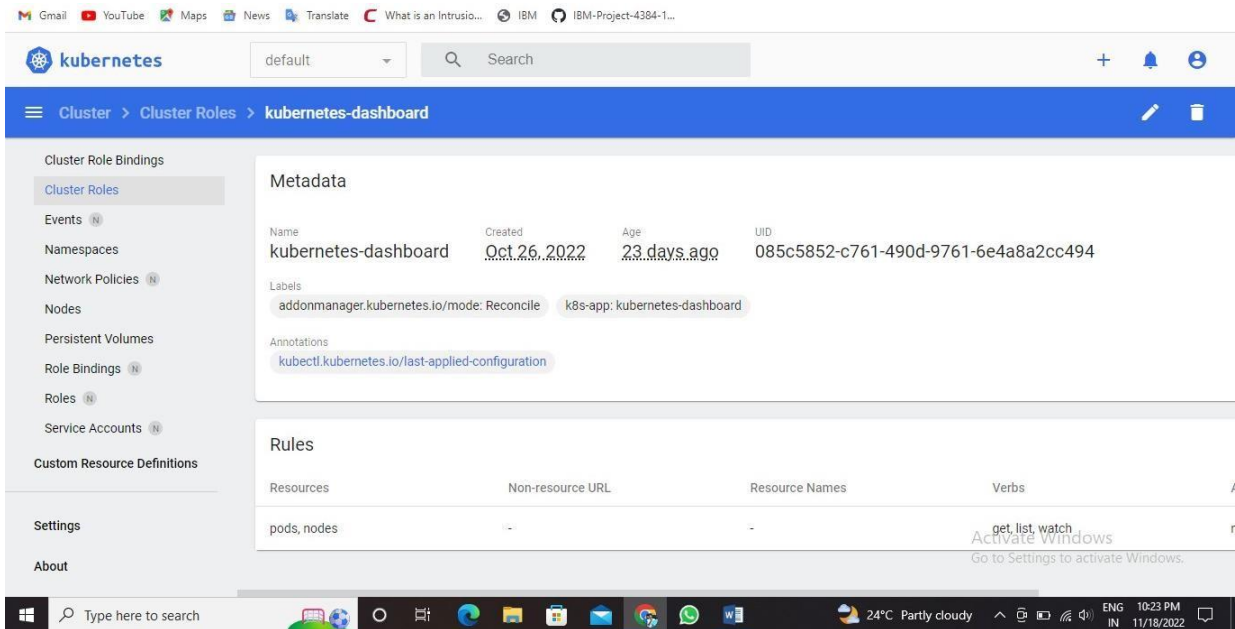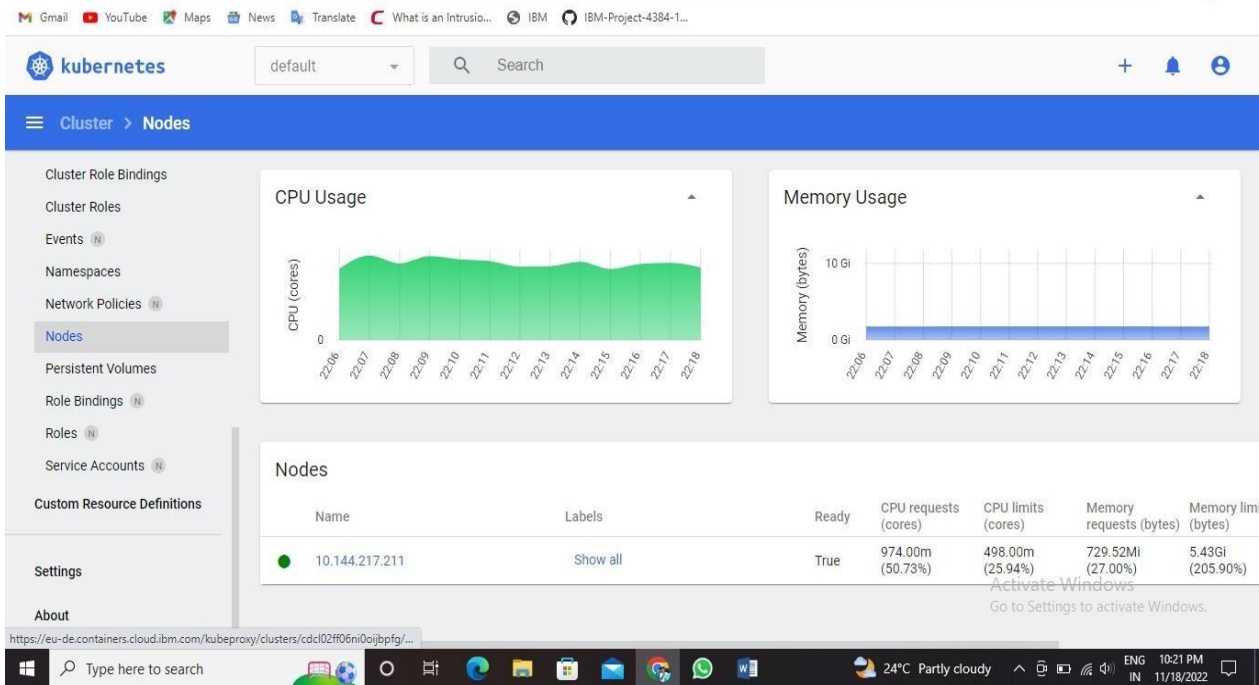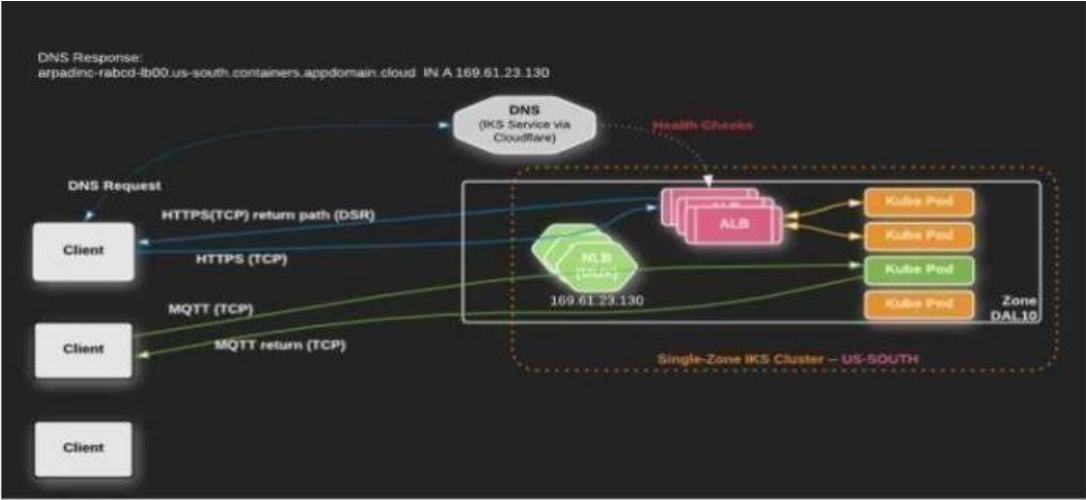
```
Hostname: echoserver-deployment-859b75d8c4-w75jn

Pod Information:
        node name:       10.94.21.13
        pod name:        echoserver-deployment-859b75d8c4-w75jn
        pod namespace:   default
        pod IP: 172.30.45.7

Server values:
        server_version=nginx: 1.13.3 - lua: 10008

Request Information:
        client_address=172.30.45.5
        method=GET
        real path=/
        query=
        request_version=1.1
        request_scheme=http
        request_url=http://echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud:8080/

Request Headers:
        accept=*/*
        host=echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud
        user-agent=curl/7.54.0
        x-forwarded-for=195.21
        x-forwarded-host=echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud
        x-forwarded-port=443
        x-forwarded-proto=https
        x-global-k8fdic-transaction-id=fc9b6d1faac1b7b63bf96abf02396378
        x-real-ip=195.21

Request Body:
        -no body in request-
```

```
$ curl http://169.61.18.4:1884

Hostname: echoserver-deployment-859b75d8c4-r6s62

Pod Information:
        node name:        10.73.115.27
        pod name:         echoserver-deployment-859b75d8c4-r6s62
        pod namespace:    default
        pod IP: 172.30.154.209

Server values:
        server_version=nginx: 1.13.3 - lua: 10008

Request Information:
        client_address=195.21█ ██ ██
        method=GET
        real path=/
        query=
        request_version=1.1
        request_scheme=http
        request_uri=http://169.61.18.4:8080/

Request Headers:
        accept=*/*
        host=169.61.18.4:1884
        user-agent=curl/7.54.0

Request Body:
        -no body in request-
```

```
$ curl https://echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud

Hostname: echoserver-deployment-859b75d8c4-d6fdx

Pod Information:
        node name:       10.73.115.19
        pod name:        echoserver-deployment-859b75d8c4-d6fdx
        pod namespace:   default
        pod IP: 172.30.116.132

Server values:
        server_version=nginx: 1.13.3 - lua: 10008

Request Information:
        client_address=172.30.119.129
        method=GET
        real path=/
        query=
        request_version=1.1
        request_scheme=http
        request_uri=http://echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud:8080/

Request Headers:
        accept=*/*
        host=echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud
        user-agent=curl/7.54.0
        x-forwarded-for=10.184.100.58
        x-forwarded-host=echoserver.arpad-ipvs-test-aug14.us-south.containers.appdomain.cloud
        x-forwarded-port=443
        x-forwarded-proto=https
        x-global-k8fdic-transaction-id=838e8708691877ea4ac7448370362e22
        x-real-ip=10.184.100.58

Request Body:
        -no body in request-
```