DEVOPS TASK - 3

1) Installation of kubectl:

COMMAND:

curl -LO "https://dl.k8s.io/release/\$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"

sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl kubectl version --client

SCREENSHOT:

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Activities 🗵 Terminal
                                                                                                  Mar 21 11:49 AM
                                                                                              suganth@suganth-debian: ~
 .
| iganth@suganth-debian: $ curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl
 % Total % Received % Xferd Average Speed
                                                                Time Current
                                               Time
                                                        Time
                               Dload Upload Total Spent
                                                               Left Speed
100 138 100 138 0
35 54.6M 35 19.2M 0
                                        0 0:00:01 0:00:01 --:--: 134
                            0 12998
                                          0 1:13:30 0:25:56 0:47:34
curl: (56) Recv failure: Connection timed out
                     n:-$ curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"
 % Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 138 100 138 0 0 89 0 0:00:01 0:00:01 --:--: 89
100 54.6M 100 54.6M 0 0 171k 0 0:05:27 0:05:27 --:--- 593k
                     n: $ sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
[sudo] password for suganth:
                 ebian:~$ sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
                  olan:~$ kubectl version --client
Kustomize Version: v5.5.0
                     :-$ curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube_latest_amd64.deb
sudo dpkg -i minikube_latest_amd64.deb
 % Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
23 37.0M 23 9072k 0 0 44215 0 0:14:39 0:03:30 0:11:09 0^[ 23 37.0M 23 9072k 0
[sudo] password for suganth:
[2]+ Stopped
                            sudo dpkg -i minikube_latest_amd64.deb
            nth-debian:~$ sudo dpkg -i minikube_latest_amd64.deb
[sudo] password for suganth:
```

2) Installation of Minikube:

COMMAND:

sudo apt install -y curl apt-transport-https conntrack

curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64

sudo install minikube-linux-amd64 /usr/local/bin/minikube

minikube start --driver=docker

minikube status

SCREENSHOT:



Then Create a deployment for the docker hub image using this command and get the pods.

COMMAND:

kubectl create deployment r1 --image=suganth07/devops --port=80

kubectl get pods

SCREENSHOT:

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Activities

    Terminal

                                                                                                     Mar 21 11:58 AM
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                                                                                                suganth@suganth-debian: ~
mınıkube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
   anth@suganth-debian:~$ kublet create deployment r1 --image=suganth07/devops --port=80
bash: kublet: command not found
 uganth@suganth-debian: $ kubectl create deployment r1 --image=suganth07/devops --port=80
deployment.apps/r1 created
 uganth@suganth-debian:~$ kubectl get pods
                    READY STATUS
                                                 RESTARTS AGE
r1-5db64d678c-qq45q 0/1 ContainerCreating 0 10s
suganth@suganth-debian: $ kubectl get pods

NAME READY STATUS RESTARTS AGE

r1-5db64d678c-qq45q 0/1 ContainerCreating 0 31s
suganth@suganth-debian: $ kubectl get pods
                     READY STATUS
                                                  RESTARTS AGE
r1-5db64d678c-qq45q 0/1 ContainerCreating 0
                                                             42s
 :1-5db64d678c-qq4э५ ७/।
uganth@suganth-debian: $ kubectl get pods
status RESTARTS AGE
NAME READY STATUS RESTARTS
r1-5db64d678c-qq45q 0/1 ContainerCreating 0
                                                             63s
suganth@suganth-debian:~$ kubectl get pods
                                                  RESTARTS AGE
                     READY STATUS
NAME
                             ContainerCreating 0
r1-5db64d678c-qq45q
                                                             80s
 uganth@suganth-debian: $ kubectl get pods
                      READY STATUS RESTARTS AGE
r1-5db64d678c-qq45q 1/1
                              Running 0
```

4) Then expose the deployment in that same port and run the service using minikube.

COMMAND:

kubectl expose deployment r1 --port=80 --type=NodePort

minikube service r1

SCREENSHOT:

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```

5) Now our image will be hosted locally on the given url . Go to the browser and search for it.

SCREENSHOT:

