Student Name: Harsh Bhavsar Term: Winter 2024

Student ID: 101440339

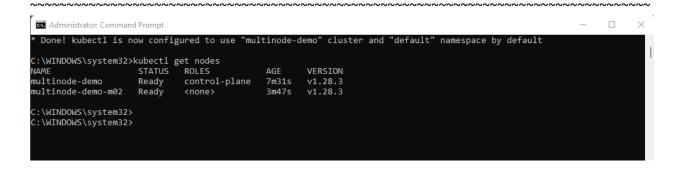
BCDV 4032 – Building scalable blockchain applications

Week-2 lab-3

• **Section-1:** Run a multi-node cluster using the commands above. Submission should include screenshots for each command.

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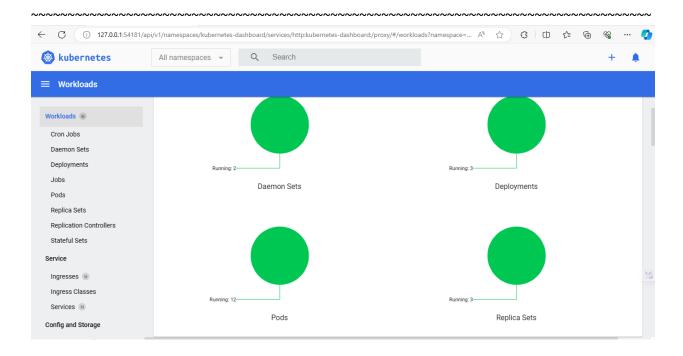
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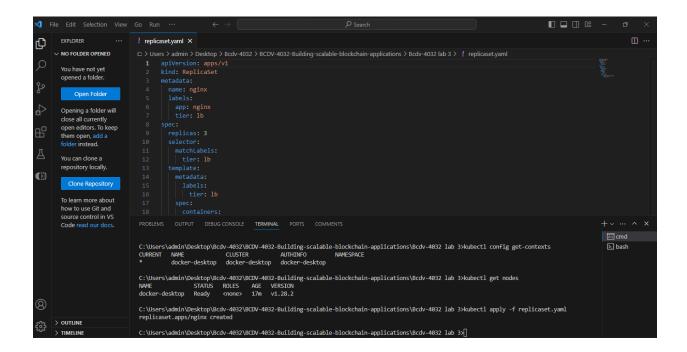
```
C:\WINDOWS\system32>
C:\WINDOWS\system32>
C:\WINDOWS\system32>
C:\WINDOWS\system32>
main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\admin\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a3
376688f\meta.json: The system cannot find the path specified.
* Stopping node "multinode-demo" via SSH ...
* Stopping node "multinode-demo" via SSH ...
* Stopping node "multinode-demo-m02" via SSH ...
* 2 nodes stopped.

C:\WINDOWS\system32>minkube delete --all
W0119 11:28:08.887501 20404 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\admin\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a3
376088f\meta.json: The system cannot find the path specified.
* Stopping node "minikube" ...
* Deleting "minikube" in hyperv ...
* Removed all traces of the "minikube" cluster.
* Stopping node "multinode-demo" in hyperv ...
* Stopping node "multinode-demo" in hyperv ...
* Stopping node "multinode-demo" in hyperv ...
* Removed all traces of the "minikube" cluster.
* Stopping node "multinode-demo" in hyperv ...
* Removed all traces of the "minikube" cluster.
* Stopping node "multinode-demo" in hyperv ...
* Removed all traces of the "minikube" cluster.
* Stopping node "multinode-demo" in hyperv ...
* Removed all traces of the "minikube" cluster.
* Stopping node "multinode-demo" in hyperv ...
* Removed all traces of the "minikube" cluster.
* Stopping node "multinode-demo-m02" in hyperv ...
* Removed all traces of the "minikube" cluster.
* Stopping node "multinode-demo-m02" in hyperv ...
* Removed all traces of the "minikube" cluster.
* Stopping node "multinode-demo-m02" in hyperv ...
* Removed all traces of the "minikube" cluster.
```

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• **Section-2:** Run all types of deployment yaml commands separately. Submission should include screenshots for each command.

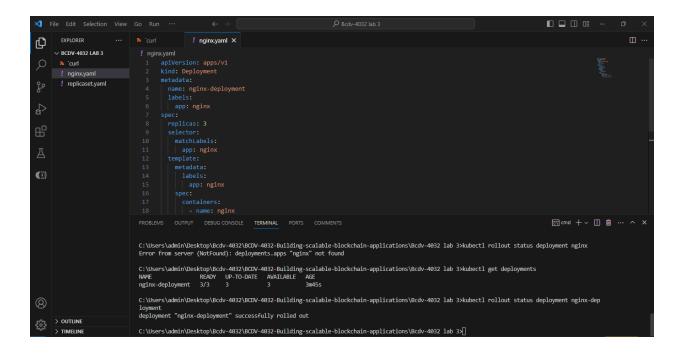


```
STATUS
                                       VERSTON
                        ROLES
                                 AGE
docker-desktop
                Ready
                         <none>
                                 17m
                                       v1.28.2
C:\Users\admin\Desktop\Bcdv-4032\BCDV-4032-Building-scalable-blockchain-applications\Bcdv-4032 lab 3>kubectl apply -f replicaset.yaml
replicaset.apps/nginx created
C:\Users\admin\Desktop\Bcdv-4032\BCDV-4032-Building-scalable-blockchain-applications\Bcdv-4032 lab 3>kubectl get pods
             READY
                    STATUS RESTARTS AGE
NAME
nginx-4dmjg
                     Running
                                         80m
                              0
nginx-fxr66
                     Running
                                         80m
nginx-klh58
                     Running
                                         80m
C:\Users\admin\Desktop\Bcdv-4032\BCDV-4032-Building-scalable-blockchain-applications\Bcdv-4032 lab 3
```

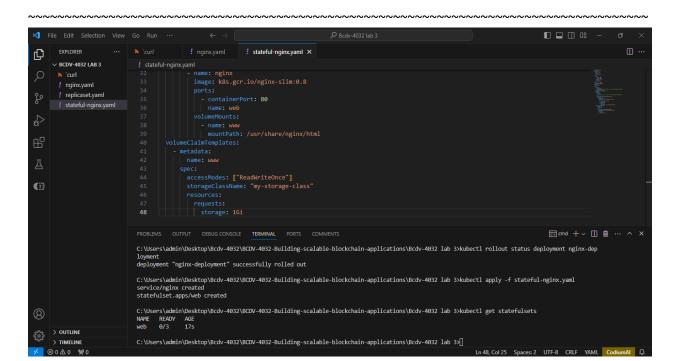
Student Name: Harsh Bhavsar

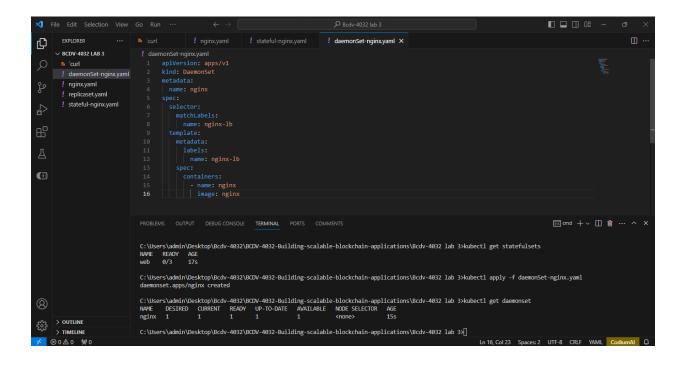
Student ID: 101440339





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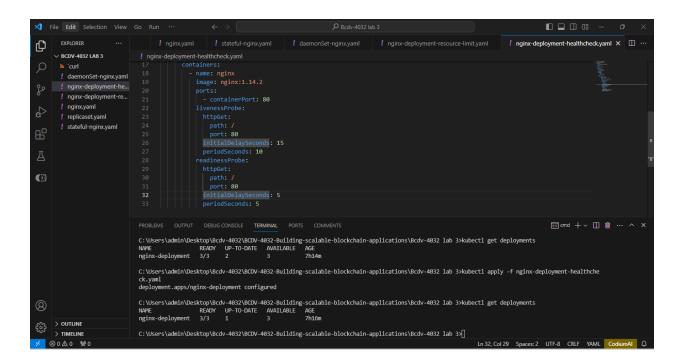
Student Name: Harsh Bhavsar Student ID: 101440339

> OUTLINE
> TIMELINE

⊗0∆0 ₩0

File Edit Selection View Go Run ! nginx.yaml ! stateful-nginx.yaml ! daemonSet-nginx.yaml ! nginx-deployment-resource-limit.yaml × Ф ! nginx-deployment-resource-limit.yaml
12 template: ∨ BCDV-4032 LAB 3 n `curl ! nginx-deployment-re... ! nginx.yaml ! stateful-nginx.yaml image: nginx:1.14.2 œ (m) □ cmd + ∨ □ ··· ^ × $C: \label{linear_continuous_continuous_continuous} C: \label{linear_continuous_continuous_continuous_continuous} C: \label{linear_continuous_$ NAME DESIRED CURRENT READY UP-TO-DATE AVAILABLE NODE SELECTOR nginx 1 1 1 1 1 1 $\langle none \rangle$ C:\Users\admin\Desktop\Bcdv-4032\BCDV-4032-Building-scalable-blockchain-applications\Bcdv-4032 lab 3>kubectl apply -f nginx-deployment-resource-C:\Users\admin\Desktop\Bcdv-4832\BcDV-4832-Building-scalable-blockchain-applications\Bcdv-4832 lab 3>kubect1 get deployments NAME REAUY UP-TO-DATE AVAILABLE AGEnginx-deployment 3/3 2 3 3/14 1714m

C:\Users\admin\Desktop\Bcdv-4032\BCDV-4032-Building-scalable-blockchain-applications\Bcdv-4032 lab 3>



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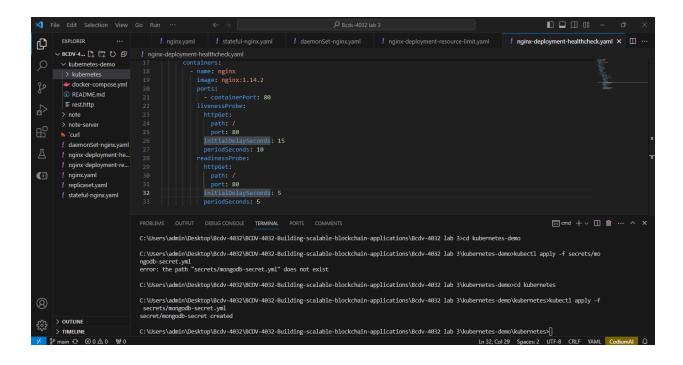
Ln 28, Col 26 Spaces: 2 UTF-8 CRLF YAML CodiumAI

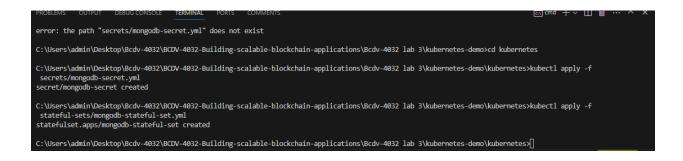
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Student ID: 101440339

• **Section-3:** Run the full stack application deployment as provided in the attached instructions.

- Submission should include screenshots for each command.
- Screenshot with the Front end of the application open.
- Task: Bring down note-depp pod. Demonstrate using screenshot if a new pod has started.





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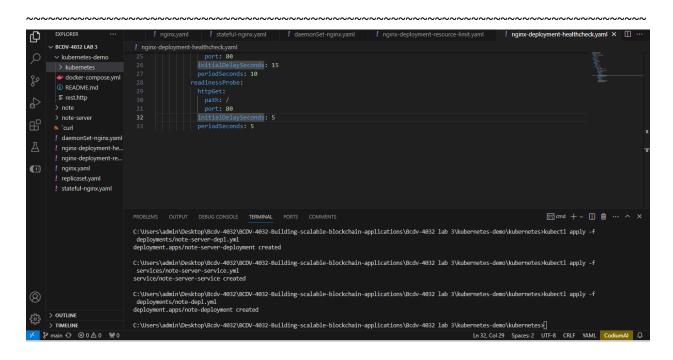






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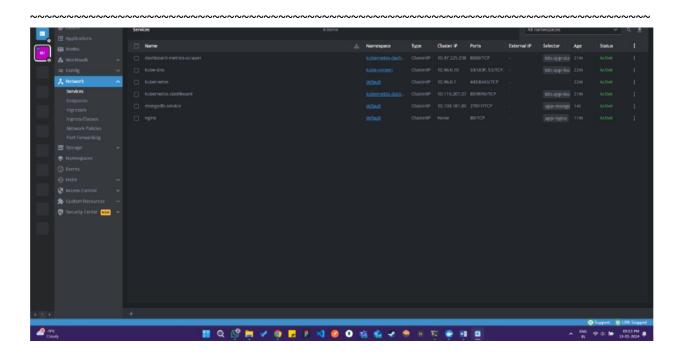
Student ID: 101440339

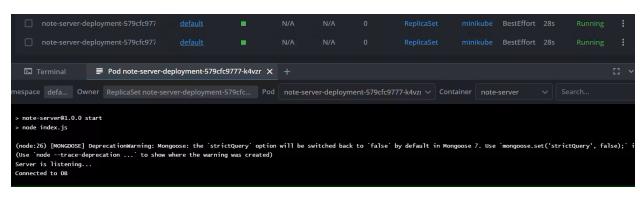




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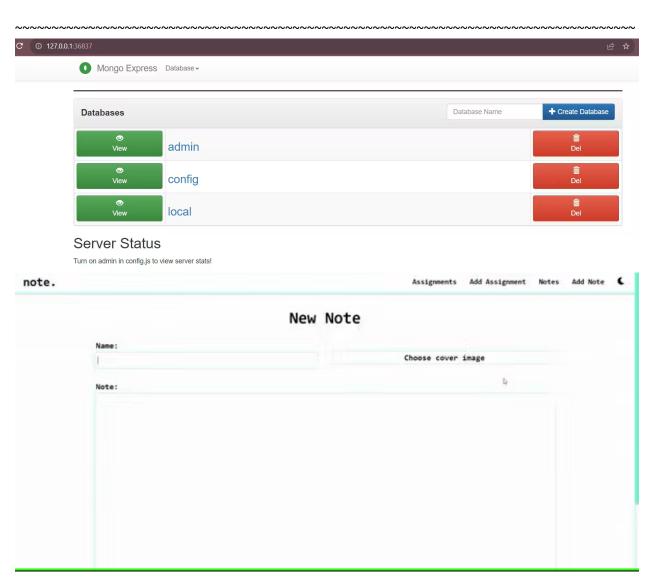
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