

```
Microsoft Windows [Version 10.0.22621.3897]
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C:\Users\ADMIN\Desktop\101452662-Lab-3>minikube start --nodes 2 -p multinode-demo
W0119 13:22:48.958683 19184 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\ADMIN\.docker\contexts\meta\37a8ee1ce19687d132fe29851dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.
[multinode-demo] minikube v1.32.0 on Microsoft Windows 11 Pro 10.0.22621.3897 Build 22621.3897
* Automatically selected the docker driver.
* Using Docker Desktop driver with root privileges
* Starting control plane node multinode-demo in cluster multinode-demo
* Pulling base image ...
* Creating docker container (CPUs=2, Memory=2200MB) ...
* Executing "docker ps -a --format {{.Names}}": took an unusually long time: 3.1772882s
* Restarting the docker service may improve performance.
* Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
  * Generating certificates and keys ...
  * Booting up control plane ...
  * Configuring RBAC rules ...
* Configuring CNI (Container Networking Interface) ...
* Verifying Kubernetes components...
  * Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: storage-provisioner, default-storageclass
* Starting worker node multinode-demo-m02 in cluster multinode-demo
* Pulling base image ...
* Creating docker container (CPUs=2, Memory=2200MB) ...
* Found network options:
  * NO_PROXY=192.168.58.2
  * NO_PROXY=192.168.58.2
* Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
  * env NO_PROXY=192.168.58.2
* Verifying Kubernetes components...
* Done! kubectl is now configured to use "multinode-demo" cluster and "default" namespace by default

C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl get nodes
NAME                                STATUS    ROLES    AGE   VERSION
multinode-demo                      Ready    control-plane   42s   v1.28.3
multinode-demo-m02                  Ready    <none>         5s    v1.28.3

C:\Users\ADMIN\Desktop\101452662-Lab-3>minikube status -p multinode-demo
W0119 13:23:57.410829 19396 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\ADMIN\.docker\contexts\meta\37a8ee1ce19687d132fe29851dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.
multinode-demo
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

multinode-demo-m02
type: Worker
host: Running
kubelet: Running

C:\Users\ADMIN\Desktop\101452662-Lab-3>minikube dashboard -p multinode-demo
W0119 13:24:27.828494 12824 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\ADMIN\.docker\contexts\meta\37a8ee1ce19687d132fe29851dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.
* Enabling dashboard ...
  * Using image docker.io/kubernetesui/dashboard:v2.7.0
  * Using image docker.io/kubernetesui/metrics-scrafer:v1.0.8
* Some dashboard features require the metrics-server addon. To enable all features please run:
  minikube -p multinode-demo addons enable metrics-server
* Verifying dashboard health ...
* Launching proxy ...
* Verifying proxy health ...
* Opening http://127.0.0.1:51363/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard/proxy/#/workloads?namespace=all in your default browser...

Lab 3 - BDGSCALABLE BLOCK: x W020.pdf x Kubernetes Dashboard x +
http://127.0.0.1:51363/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard/proxy/#/workloads?namespace=all

kubernetes All namespaces Search
Workloads
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Workload Status
Running: 2 Daemon Sets
Running: 3 Deployments
Running: 12 Pods
Running: 3 Replica Sets

C:\Users\ADMIN\Desktop\101452662-Lab-3>minikube stop -p multinode-demo
W0119 13:36:01.986242 12080 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\ADMIN\.docker\contexts\meta\37a8ee1ce19687d132fe29851dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.
* Stopping node "multinode-demo" ...
* Powering off "multinode-demo" via SSH ...
* Stopping node "multinode-demo-m02" ...
* Powering off "multinode-demo-m02" via SSH ...
* 2 nodes stopped.

C:\Users\ADMIN\Desktop\101452662-Lab-3>minikube delete --all
W0119 13:36:16.718476 6504 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\ADMIN\.docker\contexts\meta\37a8ee1ce19687d132fe29851dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.
* Deleting "multinode-demo" in docker ...
* Removing C:\Users\ADMIN\minikube\machines\multinode-demo ...
* Removing C:\Users\ADMIN\minikube\machines\multinode-demo-m02 ...
* Removed all traces of the "multinode-demo" cluster.
* Successfully deleted all profiles
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl apply -f replicaset.yaml
replicaset.apps/nginx created
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
nginx-5x62r	1/1	Running	0	81s
nginx-9r9xs	1/1	Running	0	81s
nginx-h5nt8	1/1	Running	0	81s

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
nginx-5x62r	1/1	Running	0	81s
nginx-9r9xs	1/1	Running	0	81s
nginx-h5nt8	1/1	Running	0	81s

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl delete pod nginx-5x62r
pod "nginx-5x62r" deleted
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
nginx-9r9xs	1/1	Running	0	6m35s
nginx-h5nt8	1/1	Running	0	6m35s
nginx-m9td6	1/1	Running	0	3s

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>Kubectl apply -f deployment.yaml
deployment.apps/nginx-deployment created
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl get deployments
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
nginx-deployment	3/3	1	3	5s

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl rollout status deployment nginx
Error from server (NotFound): deployments.apps "nginx" not found
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl rollout status deployment nginx-deployment
deployment "nginx-deployment" successfully rolled out
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>Kubectl apply -f my-storage-class.yaml
storageclass.storage.k8s.io/my-storage-class created
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>Kubectl apply -f statefulset.yaml
service/nginx created
statefulset.apps/web created
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl get statefulsets
```

NAME	READY	AGE
web	3/3	37s

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>Kubectl apply -f demonset.yaml
daemonset.apps/nginx created
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl get daemonset
```

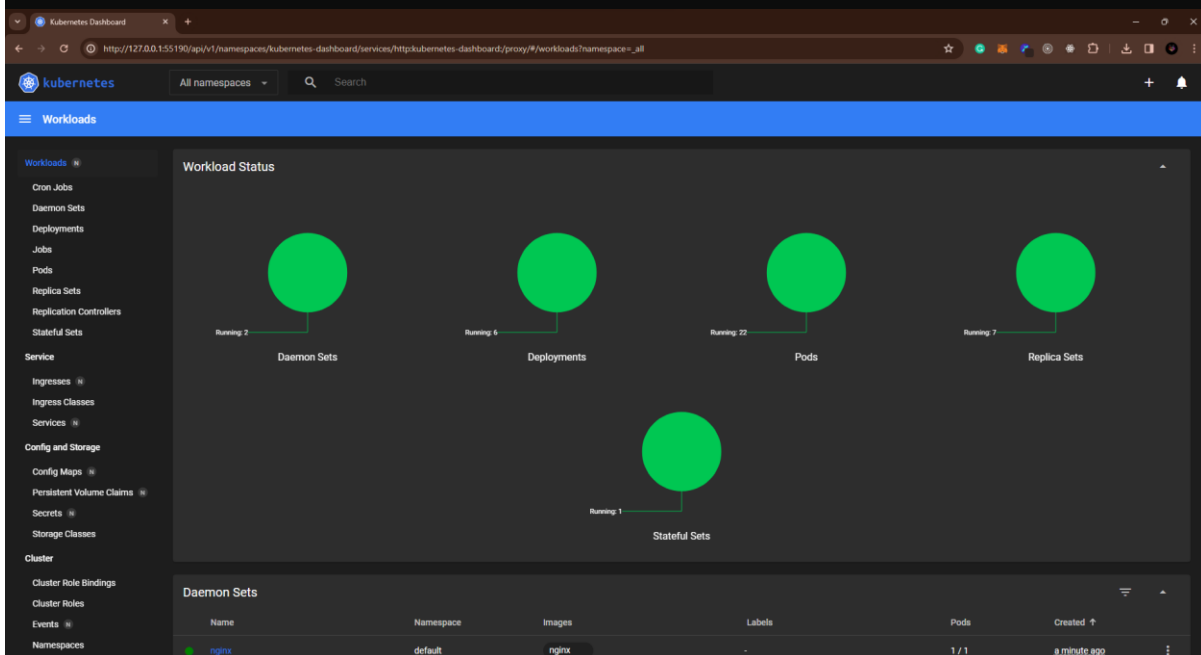
NAME	DESIRED	CURRENT	READY	UP-TO-DATE	AVAILABLE	NODE SELECTOR	AGE
nginx	1	1	1	1	1	<none>	8s

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl apply -f nginx-deployment-resources.yaml
deployment.apps/nginx-deployment-resources created
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl get deployments
NAME                                READY    UP-TO-DATE    AVAILABLE    AGE
nginx-deployment                   3/3      3             3            3m40s
nginx-deployment-resources         3/3      3             3            9s
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl apply -f nginx-deployment-health.yaml
deployment.apps/nginx-deployment-health created
```

```
C:\Users\ADMIN\Desktop\101452662-Lab-3>kubectl get deployments
NAME                                READY    UP-TO-DATE    AVAILABLE    AGE
nginx-deployment                   3/3      3             3            4m23s
nginx-deployment-health            3/3      3             3            12s
nginx-deployment-resources         3/3      3             3            52s
```



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C:\Users\ADMIN\Desktop\101452662-Lab-3>git clone https://github.com/Ananya2001-an/kubernetes-demo.git
Cloning into 'kubernetes-demo'...
remote: Enumerating objects: 49, done.
remote: Counting objects: 100% (49/49), done.
remote: Compressing objects: 100% (32/32), done.
remote: Total 49 (delta 18), reused 44 (delta 13), pack-reused 0
Receiving objects: 100% (49/49), 6.81 KiB | 1.36 MiB/s, done.
Resolving deltas: 100% (18/18), done.

C:\Users\ADMIN\Desktop\101452662-Lab-3>cd kubernetes-demo

C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo>cd k
The system cannot find the path specified.

C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo>cd kubernetes

C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>
```

Cluster

Applications

Nodes

Workloads

Config

Config Maps

Secrets

Resource Quotas

Limit Ranges

Horizontal Pod Autoscalers

Vertical Pod Autoscalers

Pod Disruption Budgets

Priority Classes

Runtime Classes

Leases

Mutating Webhook Configs

Validating Webhook Configs

Network

Storage

Namespaces

Events

Helm

Access Control

Custom Resources

Security Center

Config Maps

Secrets

Resource Quotas

Limit Ranges

Horizontal Pod Autoscalers

Vertical Pod Autoscalers

Pod Disruption Budgets

Priority Classes

Runtime Classes

Leases

Mutating Webhook Configs

Validating Webhook Configs

UPGRADE

Local Dashboard

DA

Secrets

5 Items

All namespaces

Name	Namespace	Labels	Keys	Type	Age	
bootstrap-token-vmmch	kube-system		auth-extra-groups, e	bootstrap.kubernet	20m	
kubernetes-dashboard-certs	kubernetes-dashboard	addonmanager.kubernetes.i		Opaque	19m	
kubernetes-dashboard-csr	kubernetes-dashboard	addonmanager.kubernetes.i	csr	Opaque	19m	
kubernetes-dashboard-key-holder	kubernetes-dashboard		priv, pub	Opaque	19m	
mongodb-secret	default		password, username	Opaque	24s	

Overview

Pods

Deployments

Daemon Sets

Stateful Sets

Replica Sets

Replication Controllers

Jobs

Cron Jobs

Stateful Sets

2 Items

All namespaces

Name	Namespace	Pods	Replicas	Age	
mongodb-stateful-set	default	2/2	2	36s	
web	default	3/3	3	11m	

Support

Link, Sleepy

Support

Link, Sleepy

minikube

Cluster

Applications

Nodes

Workloads

Config

Network

Services

Endpoints

Ingresses

Ingress Classes

Network Policies

Port Forwarding

Storage

Namespaces

Events

Helm

Access Control

Custom Resources

Security Center

Services

6 items

All namespaces

Name	Namespace	Type	Cluster IP	Ports	External IP	Selector	Age	Status
dashboard-metrics-scraper	kubernetes-dash	ClusterIP	10.97.225.238	8000/TCP	-	k8s-app=da	21m	Active
kube-dns	kube-system	ClusterIP	10.96.0.10	53/UDP, 53/TCP	-	k8s-app=ku	22m	Active
kubernetes	default	ClusterIP	10.96.0.1	443/TCP	-		22m	Active
kubernetes-dashboard	kubernetes-dash	ClusterIP	10.110.207.37	80-9090/TCP	-	k8s-app=ku	21m	Active
mongodb-service	default	ClusterIP	10.103.181.89	27017/TCP	-	app=mongo	14s	Active
nginx	default	ClusterIP	None	80/TCP	-	app=nginx	11m	Active

minikube

Overview

Pods

Deployments

Daemon Sets

Stateful Sets

Replica Sets

Replication Controllers

Jobs

Cron Jobs

Config

Network

Services

Endpoints

Ingresses

Ingress Classes

Network Policies

Port Forwarding

Storage

Namespaces

Events

Helm

Access Control

Custom Resources

Security Center

Deployments

7 items

All namespaces

Name	Namespace	Pods	Replicas	Age	Conditions
nginx-deployment	default	3/3	3	13m	Available, Progressing
nginx-deployment-health	default	3/3	3	9m28s	Available, Progressing
nginx-deployment-resources	default	3/3	3	10m	Available, Progressing
note-server-deployment	default	2/2	2	76s	Available, Progressing
coredns	kube-system	1/1	1	23m	Available, Progressing
dashboard-metrics-scraper	kubernetes-dashboard	1/1	1	22m	Available, Progressing

Deployment note-server-deployment x +

Namespace default Owner ReplicaSet note-server-deployment-6f85fcb67f Pod All Pods Container All containers Search...

> note-server-0.0 start  
> node index.js  
  
> note-server-0.0 start  
> node index.js  
  
(node:25) [DeprecationWarning: Mongoose: the 'strictQuery' option will be switched back to 'false' by default in Mongoose 7, use 'mongoose.set('strictQuery', false);' if you want to prepare for this change. Or use 'mongoose.set('use 'node --trace-deprecation ...' to show where the warning was created)]  
Server is listening...  
Connected to DB  
  
(node:25) [DeprecationWarning: Mongoose: the 'strictQuery' option will be switched back to 'false' by default in Mongoose 7, use 'mongoose.set('strictQuery', false);' if you want to prepare for this change. Or use 'mongoose.set('use 'node --trace-deprecation ...' to show where the warning was created)]  
Server is listening...  
Connected to DB

Logs from 1/19/2024, 5:55:11 PM Show timestamps Show previous terminated container Download

minikube

Cluster

Applications

Nodes

Workloads

Overview

Pods

Deployments

Daemon Sets

Stateful Sets

Replica Sets

Replication Controllers

Jobs

Cron Jobs

Config

Network

Services

Endpoints

Ingresses

Ingress Classes

Network Policies

Port Forwarding

Storage

Namespaces

Events

Helm

Access Control

Custom Resources

Security Center

Services

7 items

All namespaces

Name	Namespace	Type	Cluster IP	Ports	External IP	Selector	Age	Status
dashboard-metrics-scraper	kubernetes-dash	ClusterIP	10.97.225.238	8000/TCP	-	k8s-app=da	23m	Active
kube-dns	kube-system	ClusterIP	10.96.0.10	53/UDP, 53/TCP	-	k8s-app=ku	24m	Active
kubernetes	default	ClusterIP	10.96.0.1	443.8443/TCP	-		24m	Active
kubernetes-dashboard	kubernetes-dash	ClusterIP	10.110.207.37	80-9090/TCP	-	k8s-app=ku	23m	Active
mongodb-service	default	ClusterIP	10.103.181.89	27017/TCP	-	app=mongo	2m3s	Active
nginx	default	ClusterIP	None	80/TCP	-	app=nginx	13m	Active
note-server-service	default	ClusterIP	10.105.130.12	5000/TCP	-	app=note-s	11s	Active

Deployment note-server-deployment

Overview

Pods

Deployments

Daemon Sets

Stateful Sets

Replica Sets

Replication Controllers

Jobs

Cron Jobs

Config

Network

Services

Endpoints

Ingresses

Ingress Classes

Network Policies

Port Forwarding

Storage

Namespaces

Events

Helm

Access Control

Custom Resources

Security Center

Deployments

8 items

All namespaces

Name	Namespace	Pods	Replicas	Age	Conditions
nginx-deployment	default	3/3	3	15m	Available Progressing
nginx-deployment-health	default	3/3	3	11m	Available Progressing
nginx-deployment-resources	default	3/3	3	12m	Available Progressing
note-deployment	default	2/2	2	36s	Available Progressing
note-server-deployment	default	2/2	2	2m38s	Available Progressing
coredns	kube-system	1/1	1	25m	Available Progressing
dashboard-metrics-scraper	kubernetes-dashboar	1/1	1	24m	Available Progressing
kubernetes-dashboard	kubernetes-dashboar	1/1	1	24m	Available Progressing

Cluster

Applications

Nodes

Workloads

Overview

Pods

Deployments

Daemon Sets

Stateful Sets

Replica Sets

Replication Controllers

Jobs

Cron Jobs

Config

Network

Storage

Namespaces

Events

Helm

Access Control

Custom Resources

Security Center

Services

Endpoints

Ingresses

Ingress Classes

Network Policies

Port Forwarding

Services

8 items

All namespaces

Name	Namespace	Type	Cluster IP	Ports	External IP	Selector	Age	Status
dashboard-metrics-scraper	kubernetes-dash	ClusterIP	10.97.225.238	8000/TCP	-	k8s-app=da	24m	Active
kube-dns	kube-system	ClusterIP	10.96.0.10	53/UDP, 53/TCP	-	k8s-app=ku	25m	Active
kubernetes	default	ClusterIP	10.96.0.1	443/TCP	-	k8s-app=ku	25m	Active
kubernetes-dashboard	kubernetes-dash	ClusterIP	10.110.207.37	80-9090/TCP	-	k8s-app=ku	24m	Active
mongodb-service	default	ClusterIP	10.103.181.89	27017/TCP	-	app=mongo	3m32s	Active
nginx	default	ClusterIP	None	80/TCP	-	app=nginx	14m	Active
note-server-service	default	ClusterIP	10.105.130.12	5000/TCP	-	app=note-s	100s	Active
note-service	default	LoadBalancer	10.98.232.118	3000-32751/TCP	-	app=note	9s	Pending

Deployment note-server-deployment

Support

LDK, Snapped

Cloudy

Kubernetes Dashboard

Ananya2001-an/kubernet

note.

http://127.0.0.1:56319/notes/view

note.

Assignments

Add Assignment

Notes

Add Note

Darshhhh

TEST

Edit

Delete

Cloudy

Search

WhatsApp

File Explorer

Google Chrome

Microsoft Edge

Visual Studio Code

Terminal

PowerShell

Task View

System Tray

ENG IN 6:58 PM 19-01-2024

minikube

Cluster

Applications

Nodes

Workloads

Overview

Pods

Deployments

Daemon Sets

Stateful Sets

Replica Sets

Replication Controllers

Jobs

Cron Jobs

Config

Network

Services

Endpoints

Ingresses

Ingress Classes

Network Policies

Port Forwarding

Storage

Namespaces

Events

Helm

Access Control

Custom Resources

Security Center

Overview

Pods

Deployments

Daemon Sets

Stateful Sets

Replica Sets

Replication Controllers

Jobs

Cron Jobs

Deployments

9 Items

All namespaces

Name	Namespace	Pods	Replicas	Age	Conditions	
nginx-deployment	default	3/3	3	18m	Available Progressing	
nginx-deployment-health	default	3/3	3	14m	Available Progressing	
nginx-deployment-resources	default	3/3	3	15m	Available Progressing	
note-deployment	default	2/2	2	3m43s	Available Progressing	
note-server-deployment	default	2/2	2	5m45s	Available Progressing	
mongo-express-deployment	default	1/1	1	60s	Available Progressing	
coredns	kube-system	1/1	1	28m	Available Progressing	
dashboard-metrics-scraper	kubernetes-dashboard	1/1	1	27m	Available Progressing	
kubernetes dashboard	kubernetes-dashboard	1/1	1	27m	Available Progressing	

minikube

Cluster

Applications

Nodes

Workloads

Overview

Pods

Deployments

Daemon Sets

Stateful Sets

Replica Sets

Replication Controllers

Jobs

Cron Jobs

Config

Network

Services

Endpoints

Ingresses

Ingress Classes

Network Policies

Port Forwarding

Storage

Namespaces

Events

Helm

Access Control

Custom Resources

Security Center

Services

9 Items

All namespaces

Name	Namespace	Type	Cluster IP	Ports	External IP	Selector	Age	Status	
dashboard-metrics-scraper	kubernetes-dash-	ClusterIP	10.97.225.238	8000/TCP	-	k8s-app=ds	27m	Active	
kube-dns	kube-system	ClusterIP	10.96.0.10	53/UDP, 53/TCP	-	k8s-app=kube-dns	28m	Active	
kubernetes	default	ClusterIP	10.96.0.1	443:8443/TCP	-		28m	Active	
kubernetes-dashboard	kubernetes-dash-	ClusterIP	10.110.207.37	80:9090/TCP	-	k8s-app=kube-dashboard	27m	Active	
mongo-express-service	default	LoadBalancer	10.98.64.44	8081:32436/TCP	-	app=mongo-express	8s	Pending	
mongodb-service	default	ClusterIP	10.103.181.89	27017/TCP	-	app=mongo	6m31s	Active	
nginx	default	ClusterIP	None	80/TCP	-	app=nginx	17m	Active	
note-server-service	default	ClusterIP	10.105.130.12	5000/TCP	-	app=note-server	4m39s	Active	
note-service	default	LoadBalancer	10.98.232.118	3000:32751/TCP	-	app=note	3m8s	Pending	



Kubernetes DashboardAnany2001-an\kubernetes-d...note...notes - Mongo Express

http://127.0.0.1:56442/db/mydb/notes

Mongo Express Database: mydb > Collection: notes

Viewing Collection: notes

New DocumentNew Index

SimpleAdvanced

KeyValueStringFind

_id	name	note	cover	...
65aafef02e482714bc3fae51	Darshith	TEST	*** LARGE PROPERTY *** ~377 KB Preview "data:image/jpeg;base64/ Click to fetch this property	0

Rename Collection

mydb: notesRename

Tools

Export Standard

Export -jsonArray

Export -csv

Reindex

Import -mongoexport json

Compact

Cloudy

Command Prompt - minikubeCommand Prompt - minikubeCommand Prompt - minikube

C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>kubecttl apply -f secrets/mongodb-secret.yml  
secret/mongodb-secret created  
C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>kubecttl apply -f stateful-sets/mongodb-stateful-set.yml  
statefulset.apps/mongodb-stateful-set created  
C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>kubecttl apply -f services/mongodb-service.yml  
service/mongodb-service created  
C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>kubecttl apply -f deployments/note-server-depl.yml  
deployment.apps/note-server-deployment created  
C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>kubecttl apply -f services/note-server-service.yml  
service/note-server-service created  
C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>kubecttl apply -f deployments/note-depl.yml  
deployment.apps/note-deployment created  
C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>kubecttl apply -f services/note-service.yml  
service/note-service created  
C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>kubecttl apply -f deployments/mongo-express-depl.yml  
deployment.apps/mongo-express-deployment created  
C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>kubecttl apply -f services/mongo-express-service.yml  
service/mongo-express-service created  
C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>

Cloudy

```
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C:\Users\ADMIN>cd C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes

C:\Users\ADMIN\Desktop\101452662-Lab-3\kubernetes-demo\kubernetes>minikube service note-service
W0119 17:57:37.144633 4152 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\ADMIN\.docker\contexts\meta\37a8ee1ce19687d132fe29851
dca629d16ae2c4958ba141d5f4133a33f9688f\meta.json: The system cannot find the path specified.

NAMESPACE | NAME | TARGET PORT | URL |
----- | --- | --- | --- |
default | note-service | 3080 | http://192.168.58.2:32751 |

* Starting tunnel for service note-service.

NAMESPACE | NAME | TARGET PORT | URL |
----- | --- | --- | --- |
default | note-service | 3080 | http://127.0.0.1:56319 |

# Opening service default/note-service in default browser...
! Because you are using a Docker driver on windows, the terminal needs to be open to run it.
```