

Google Chrome - Tue Jan 16 11:45PM

127.0.0.1:50007/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard/proxy/#/node?name=default

**kubernetes** default Search

**Cluster > Nodes**

**Nodes**

Name	Labels	Ready	CPU requests (cores)	CPU limits (cores)	CPU capacity (cores)	Memory requests (bytes)	Memory limits (bytes)	Memory capacity (bytes)	Pods	Created
multinode-demo-m02	beta.kubernetes.io/arch: arm64 beta.kubernetes.io/os: linux kubernetes.io/arch: arm64	True	100.00m (0.83%)	100.00m (0.83%)	12.00	50.00Mi (0.64%)	50.00Mi (0.64%)	7.66Gi	4 (3.64%)	a minute ago
multinode-demo	beta.kubernetes.io/arch: arm64 beta.kubernetes.io/os: linux kubernetes.io/arch: arm64	True	850.00m (7.08%)	100.00m (0.83%)	12.00	220.00Mi (2.80%)	220.00Mi (2.80%)	7.66Gi	8 (7.27%)	a minute ago

**Service**

- Ingresses
- Ingress Classes
- Services
- Config and Storage
- Config Maps
- Persistent Volume Claims
- Secrets
- Storage Classes
- Cluster
- Cluster Role Bindings
- Cluster Roles
- Events
- Namespaces
- Network Policies
- Nodes
- Persistent Volumes
- Role Bindings
- Roles
- Service Accounts
- Custom Resource Definitions

**Code** - Thu Jan 18 4:50PM

W2D2 (1).pdf Home Royalty ds/W2D2%20(1).pdf

**EXPLORER**

- LABS
  - Lab1
    - templates
    - index.html
    - app.py
    - Dockerfile
    - Lab1 Updated After Tuesdays...
    - lab1.pdf
    - requirements.txt
  - Lab2
    - client
    - ethereum
    - build
    - contracts
    - Message.sol
    - compile.js
    - deploy.js
    - logic.js
    - receipt-ganache.json
    - web3.js
  - server
    - routes
    - JS contract-API.js
    - JS smart-contract-API.js
    - JS index.js
    - Dockerfile
    - Dockerfile.ganache
    - Lab2.pdf
    - Lab2Updated.pdf
    - LICENSE
    - LICENSE.md
    - package-lock.json
    - package.json
    - QUIZ 1.pdf
    - README.md

**Welcome**

**Start**

- New File...
- Open...
- Clone Git Repository...
- Connect to...

**Recent**

- Lab1 ~/Desktop/GBC/Semester2/Blockchain Scalability/Labs
- wimtech ~/Desktop/wimtech
- lab2 ~/Desktop/GBC/Full Stack Blockchain Integration
- lab3 ~/Desktop/GBC/Full Stack Blockchain Integration
- src ~/Desktop/GBC/Full Stack Blockchain Integration/lab2 co...

**Walkthroughs**

- Get Started with VS Code
- Learn the Fundamentals
- Get Started with GitLens
- Get Started with Java Development

**TERMINAL**

```
wahahaha@MahaJ-MacBook-Pro:~/Desktop/GBC/Semester2/Blockchain Scalability/Labs% cd Lab3
wahahaha@MahaJ-MacBook-Pro:~/Desktop/GBC/Semester2/Blockchain Scalability/Labs% minikube stop -p multinode-demo
Profile "multinode-demo" not found. Run "minikube profile list" to view all profiles.
wahahaha@MahaJ-MacBook-Pro:~/Desktop/GBC/Semester2/Blockchain Scalability/Labs% minikube start -p multinode-demo
To start a cluster, run: "minikube start -p multinode-demo"
wahahaha@MahaJ-MacBook-Pro:~/Desktop/GBC/Semester2/Blockchain Scalability/Labs% minikube delete --all
Successfully deleted all profiles
wahahaha@MahaJ-MacBook-Pro:~/Desktop/GBC/Semester2/Blockchain Scalability/Labs%
```

**PROBLEMS** **OUTPUT** **DEBUG CONSOLE** **TERMINAL** **GITLENS** **COMMENTS**

**Restart Visual Studio Code to apply the changes** **Update Now**

```
[1] [minikube] minikube v1.32.0 on Darwin 14.1 (arm64)
[2] [minikube] automatically selected the docker driver with root privileges
[3] [minikube] Starting control plane node minikube in cluster multinode-demo
[4] [minikube] Preparing Kubernetes (K8s)...
[5] [minikube] Creating K8s worker node (CPUs=2, Memory=2200MB) ...
[6] [minikube] Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
[7] [minikube]  ■ Generating certificates and keys ...
[8] [minikube]  ■ Booting up control plane ...
[9] [minikube]  ■ Configuring CNI (Container Networking Interface) ...
[10] [minikube]  ■ Verifying Kubernetes components...
[11] [minikube]  ■ Using image gcr.io/k8s-minikube/storage-provisioner:v5
[12] [minikube] Enabled addons: storage-provisioner, default-storageclass
[13] [minikube] Starting worker node multinode-demo-m02 in cluster multinode-demo
[14] [minikube] Pulling base image ...
[15] [minikube]  ■ Creating docker container (CPUs=2, Memory=2200MB) ...
[16] [minikube] Found network options:
[17] [minikube]  ■ NO_PROXY=192.168.49.2
[18] [minikube]  ■ env NO_PROXY=192.168.49.2
[19] [minikube]  ■ Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
[20] [minikube]  ■ env NO_PROXY=192.168.49.2
[21] [minikube]  ■ Verifying Kubernetes components...
[22] [minikube] Done! Kubernetes is now configured to use "multinode-demo" cluster and "default" namespace by default
[23] [minikube] Error from server (BadRequest): error when creating "replicaset.yaml": ReplicaSet in version "v1" cannot be handled as a ReplicaSet: json: cannot unmarshal object into Go struct field PodSpec.spec.template.spec.containers of type []v1.Container
[24] [minikube] wahajhaider@wahaj-MacBook-Pro:~/Lab3 % kubectl apply -f replicaset.yaml
[25] [minikube] Error from server (BadRequest): error when creating "replicaset.yaml": ReplicaSet in version "v1" cannot be handled as a ReplicaSet: json: cannot unmarshal object into Go struct field PodSpec.spec.template.spec.containers of type []v1.Container
[26] [minikube] wahajhaider@wahaj-MacBook-Pro:~/Lab3 % kubectl apply -f replicaset.yaml
[27] [minikube] wahajhaider@wahaj-MacBook-Pro:~/Lab3 % kubectl get pods
[28] [minikube] NAME          READY   STATUS    RESTARTS   AGE
[29] [minikube] nginx-5c6b      1/1   Running   0          16s
[30] [minikube] nginx-q2shb   1/1   Running   0          16s
[31] [minikube] nginx-wrcfg  1/1   Running   0          16s
```

```
[1] [minikube] minikube v1.32.0 on Darwin 14.1 (arm64)
[2] [minikube] automatically selected the docker driver with root privileges
[3] [minikube] Starting control plane node minikube in cluster multinode-demo
[4] [minikube] Preparing Kubernetes (K8s)...
[5] [minikube] Creating K8s worker node (CPUs=2, Memory=2200MB) ...
[6] [minikube] Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
[7] [minikube]  ■ Generating certificates and keys ...
[8] [minikube]  ■ Booting up control plane ...
[9] [minikube]  ■ Configuring CNI (Container Networking Interface) ...
[10] [minikube]  ■ Verifying Kubernetes components...
[11] [minikube]  ■ Using image gcr.io/k8s-minikube/storage-provisioner:v5
[12] [minikube] Enabled addons: storage-provisioner, default-storageclass
[13] [minikube] Starting worker node multinode-demo-m02 in cluster multinode-demo
[14] [minikube] Pulling base image ...
[15] [minikube]  ■ Creating docker container (CPUs=2, Memory=2200MB) ...
[16] [minikube] Found network options:
[17] [minikube]  ■ NO_PROXY=192.168.49.2
[18] [minikube]  ■ env NO_PROXY=192.168.49.2
[19] [minikube]  ■ Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
[20] [minikube]  ■ env NO_PROXY=192.168.49.2
[21] [minikube]  ■ Verifying Kubernetes components...
[22] [minikube] Done! Kubernetes is now configured to use "multinode-demo" cluster and "default" namespace by default
[23] [minikube] Error from server (BadRequest): error when creating "replicaset.yaml": ReplicaSet in version "v1" cannot be handled as a ReplicaSet: json: cannot unmarshal object into Go struct field PodSpec.spec.template.spec.containers of type []v1.Container
[24] [minikube] wahajhaider@wahaj-MacBook-Pro:~/Lab3 % kubectl apply -f replicaset.yaml
[25] [minikube] Error from server (BadRequest): error when creating "replicaset.yaml": ReplicaSet in version "v1" cannot be handled as a ReplicaSet: json: cannot unmarshal object into Go struct field PodSpec.spec.template.spec.containers of type []v1.Container
[26] [minikube] wahajhaider@wahaj-MacBook-Pro:~/Lab3 % kubectl apply -f replicaset.yaml
[27] [minikube] wahajhaider@wahaj-MacBook-Pro:~/Lab3 % kubectl get pods
[28] [minikube] NAME          READY   STATUS    RESTARTS   AGE
[29] [minikube] nginx-5c6b      1/1   Running   0          16s
[30] [minikube] nginx-q2shb   1/1   Running   0          16s
[31] [minikube] nginx-wrcfg  1/1   Running   0          16s
```

Code File Edit Selection View Go Run Terminal Window Help

File /Users/wahajhaider/Downloads

W2D2 (1).pdf

replicaSet.yaml

```

11   matchLabels:
12     | tiers: lb
13   template:
14     metadata:
15       labels:
16         | tier: lb
17     spec:
18       containers:
19         - name: nginx-replicaset
20           image: nginx
21

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS COMMENTS

TERMINAL

```

* Using image gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: storage-provisioner, default-storageclass
Starting worker node multi-node-demo-m02 in cluster multi-node-demo
* Preparing base image
Creating worker container (CPUs=2, Memory=2200MB) ...
Found network endpoints:
  NO_PROXY=192.168.49.2
Preparing worker node multi-node-demo-m02 on Docker 24.0.7 ...
  NO_PROXY=192.168.49.2
Verifying Kubernetes components...
Done! Kubectl is now configured to use "multi-node-demo" cluster and "default" namespace by default
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl apply -f replicaset.yaml
Error from server (BadRequest): error when creating "replicaset.yaml": ReplicaSet in version "v1" cannot be handled as a ReplicaSet: json : cannot unmarshal object into Go struct field PodSpec.spec.template.spec.containers of type []v1.Container
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl apply -f replicaset.yaml
Error from server (BadRequest): error when creating "replicaset.yaml": ReplicaSet in version "v1" cannot be handled as a ReplicaSet: json : cannot unmarshal object into Go struct field PodSpec.spec.template.spec.containers of type []v1.Container
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl apply -f replicaset.yaml
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
nginx-5c6bj 1/1   Running   0          16s
nginx-q2shb 1/1   Running   0          16s
nginx-wrcfq 1/1   Running   0          16s
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl delete pod nginx-5c6bj
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
nginx-q2shb 1/1   Running   0          60s
nginx-vnppm 1/1   Running   0          10s
nginx-wrcfq 1/1   Running   0          60s
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl delete pod nginx-5c6bj
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
nginx-q2shb 1/1   Running   0          16s
nginx-wrcfq 1/1   Running   0          16s
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl get replicasesets
NAME   DESIRED  CURRENT  READY   AGE
nginx  3        3        3        78s
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl get deployments
No resources found in default namespace.
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl apply -f replicasetDeployment.yaml
Error from server (BadRequest): error when creating "replicasetDeployment.yaml": deployment: strict decoding error: unknown field "metadata.app", unknown field "spec.image", unknown field "spec.labels", unknown field "spec.matchLabels", unknown field "spec.spec"
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl apply -f replicasetDeployment.yaml
deployment.apps/nginx-deployment created
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ kubectl get replicasesets
NAME   DESIRED  CURRENT  READY   AGE
nginx  3        3        3        78s
wahajhaider@Wahajs-MacBook-Pro:~/Downloads$ 

```

Ln 21, Col 1 Spaces: 2 UTF-8 ⌘ YAML ⌘ Go Live No JSON Schema ⌘ Prettier

Deployment YAML with ReplicaSet

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
    app: nginx
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:

```

contract-API.js smart-contract-API.js index.js docker-compose.yml Dockerfile.ganache Lab2.pdf lab2Updated.pdf LICENSE LICENSE.md package-lock.json package.json QUIZ1.pdf README.md

replicaSetDeployment.yaml

Ln 14, Col 10 Spaces: 2

Code Editor Screenshot (Thu Jan 18 8:52PM)

**Explorer:**

- LABS
  - Lab1
    - templates
    - index.html
    - app.py
    - Dockerfile
    - Lab1 Updated After Tuesdays...
    - lab1.pdf
  - requirements.txt
  - client
  - ethereum
  - build
  - contracts
  - Message.sol
  - JS compile.js
  - JS deploy.js
  - JS logic.js
  - receipt-ganache.json
  - JS web3.js
  - server
  - routes
  - JS contract-API.js
  - JS smart-contract-API.js
  - JS index.js
  - docker-compose.yml
  - Dockerfile
  - Dockerfile.ganache
  - Lab2.pdf
  - Lab2Updated.pdf
  - LICENSE
  - LICENSE.MD
  - package-lock.json
  - package.json
  - QUIZ 1.pdf
  - README.md
  - Lab3
  - replicaSet.yaml
  - replicaSetDeployment.yaml

Code Editor Screenshot (Thu Jan 18 9:14PM)

**Explorer:**

- LABS
  - Lab1
  - Lab2
  - client
  - ethereum
  - build
  - contracts
  - Message.sol
  - JS compile.js
  - JS deploy.js
  - JS logic.js
  - receipt-ganache.json
  - JS web3.js
  - server
  - routes
  - JS contract-API.js
  - JS smart-contract-API.js
  - JS index.js
  - docker-compose.yml
  - Dockerfile
  - Dockerfile.ganache
  - Lab2.pdf
  - Lab2Updated.pdf
  - LICENSE
  - LICENSE.MD
  - package-lock.json
  - package.json
  - QUIZ 1.pdf
  - README.md
  - Lab3
  - replicaSet.yaml
  - replicaSetDeployment.yaml
  - statefulScript.yaml

Code File Edit Selection View Go Run Terminal Window Help

File /Users/wahajhaider/Downloads/W2D2(3).pdf

Ananya2001-an (Ananya Nayak)

EXPLORER

LABS

- Lab1
- Lab2
- client
- ethereum
  - build
  - contracts
    - Message.sol
    - JS compile.js
    - JS deploy.js
    - JS logic.js
    - (receipt-ganache.json)
    - JS web3.js
  - routes
    - JS contract-API.js
    - JS smart-contract-API.js
    - JS index.js
- docker-compose.yml
- Dockerfile
- Lab2.pdf
- Lab2Updated.pdf
- LICENSE
- LICENSE.md
- package-lock.json
- package.json
- README.md
- QUIZ 1.pdf
- Lab3
  - daemonSet.yaml
  - replicaSet.yaml
  - replicaSetDeployment.yaml
  - statefulScript.yaml

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS COMMENTS

TERMINAL

```
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl get statefulsets
NAME READY AGE
Lab3 0/3 25s
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl get statefulsets
NAME READY AGE
Lab3 0/3 116s
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl get statefulsets
NAME READY AGE
Lab3 0/3 116s
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl get statefulsets
NAME READY AGE
Lab3 0/3 116s
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl apply -f daemonSet.yaml
error: the path "daemonSet.yaml" does not exist
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl apply -f daemonSet.yaml
Error from server (BadRequest): invalid yaml: error decoding "daemonSet": DaemonSet in version "v1" cannot be handled as a DaemonSet: strict decoding error: unknown field "spec.contain
erImage", unknown field "spec.image", unknown field "spec.specLabels", unknown field "spec.matchLabels", unknown field "spec.metadata", unknown field "spec.name", unknown field "spec.spec"
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl apply -f daemonSet.yaml
daemonset.apps/nginx created
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl apply -f healthCheck.yaml
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl get healthchecks
NAME PORTS(ADDRESS) AGE
healthcheck 80 25s
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl get healthchecks
NAME PORTS(ADDRESS) AGE
healthcheck 80 25s
```

zsh - Lab3 +

Code File Edit Selection View Go Run Terminal Window Help

File /Users/wahajhaider/Downloads/W2D2(3).pdf

chat.openai.com/c/8cf07911-e188-42f1-8d84-2cbat

ChatGPT 3.5

New chat

Today

YAML Syntax Error Fix

YAML File ReplicaSet Error

Previous 7 Days

Install Minikube & kubectl

Alpine 3.5 Error Fix

Accomplishments at Home Royal

Previous 30 Days

Circular Image CSS

Exceptional Web Services by Wim

React Crypto Radio Buttons

Front-End Error Resolution

2023

Point Domain to Vercel

Deploy React App, DNS

Deploy React to GitHub Pages

Check and Close Servers

Discard local changes, fetch latest

Router href Error Fix

Upgrade plan

Get GPT-4, DALL-E, and more

Wahaj Haider

EXPLORER

LABS

- Lab1
- Lab2
- client
- ethereum
  - build
  - contracts
    - Message.sol
    - JS compile.js
    - JS deploy.js
    - JS logic.js
    - (receipt-ganache.json)
    - JS web3.js
  - routes
    - JS contract-API.js
    - JS smart-contract-API.js
    - JS index.js
- docker-compose.yml
- Dockerfile
- Lab2.pdf
- Lab2Updated.pdf
- LICENSE
- LICENSE.md
- package-lock.json
- package.json
- QUIZ 1.pdf
- README.md
- Lab3
  - daemonSet.yaml
  - healthCheck.yaml
  - replicaSet.yaml
  - replicaSetDeployment.yaml
  - statefulScript.yaml

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS COMMENTS

TERMINAL

```
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl apply -f healthCheck.yaml
deployment.apps/healthcheck created
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl get healthchecks
NAME PORTS(ADDRESS) AGE
healthcheck 80 25s
wahajhaider@Wahaj-MacBook-Pro ~ % kubectl get healthchecks
NAME PORTS(ADDRESS) AGE
healthcheck 80 25s
```

A screenshot of the Visual Studio Code interface. The left sidebar shows a file tree with a 'Labs' folder containing various files like 'Lab1', 'Lab2', 'client', 'ethereum', 'contracts', 'Message.sol', 'compile.js', 'deploy.js', 'logic.js', 'receipt-ganache.json', 'web3.js', 'contract-API.js', 'smart-contract-API.js', 'index.js', 'docker-compose.yml', 'Dockerfile', 'Dockerfile.ganache', 'Lab2.pdf', 'lab2Updated.pdf', 'LICENSE', 'LICENSE.md', 'package-lock.json', 'package.json', 'QUIZ1.pdf', and 'README.md'. The right side shows a code editor with a YAML file named 'healthChecks.yaml'. The terminal at the bottom shows command-line output related to Kubernetes deployment.

```
... healthChecks.yaml ... ! daemonSet.yaml ! healthChecks.yaml ...
Lab3 > healthChecks.yaml > () spec > () template > () spec > [ ] containers > () 0 > () readinessProbe
  labels:
    app: nginx
  spec:
    containers:
      - name: nginx
        image: nginx:latest
        ports:
          - containerPort: 80
        livenessProbe:
          httpGet:
            path: / # The path to check for the liveness probe
            port: 80 # The port to check on
            initialDelaySeconds: 15 # Wait this many seconds before starting the periodSeconds: 10 # Check the probe every 10 seconds
        readinessProbe:
          httpGet:
            path: / # The path to check for the readiness probe
            port: 80 # The port to check on
            initialDelaySeconds: 5 # Wait this many seconds before starting the periodSeconds: 5 # Check the probe every 5 seconds
```

A screenshot of the Visual Studio Code interface, similar to the one above but with a different file structure. The left sidebar shows a file tree with a 'Labs' folder containing 'Lab1', 'Lab2', 'client', 'ethereum', 'contracts', 'Message.sol', 'compile.js', 'deploy.js', 'logic.js', 'receipt-ganache.json', 'web3.js', 'contract-API.js', 'smart-contract-API.js', 'index.js', 'docker-compose.yml', 'Dockerfile', 'Dockerfile.ganache', 'Lab2.pdf', 'lab2Updated.pdf', 'LICENSE', 'LICENSE.md', 'package-lock.json', 'package.json', 'QUIZ1.pdf', 'README.md', and 'mern-kubernetes'. The right side shows a code editor with a YAML file named 'healthChecks.yaml'. The terminal at the bottom shows command-line output related to Kubernetes deployment.

```
... healthChecks.yaml ... ! daemonSet.yaml ! healthChecks.yaml ...
Lab3 > healthChecks.yaml > () spec > () template > () spec > [ ] containers > () 0 > () readinessProbe
  labels:
    app: nginx
  spec:
    containers:
      - name: nginx
        image: nginx:latest
        ports:
          - containerPort: 80
        livenessProbe:
          httpGet:
            path: / # The path to check for the liveness probe
            port: 80 # The port to check on
            initialDelaySeconds: 15 # Wait this many seconds before starting the periodSeconds: 10 # Check the probe every 10 seconds
        readinessProbe:
          httpGet:
            path: / # The path to check for the readiness probe
            port: 80 # The port to check on
            initialDelaySeconds: 5 # Wait this many seconds before starting the periodSeconds: 5 # Check the probe every 5 seconds
```

The screenshot shows a Mac desktop environment with two windows open. The top window is a terminal window titled 'Labs' with the command 'zsh - kubernetes'. It displays several log entries related to Kubernetes deployment, including:

```
deployment.apps/gplx-deployment configured
wahjhaider@Wahis-MacBook-Pro ~ % cd mern-kubernetes
wahjhaider@Wahis-MacBook-Pro ~ % cd kubernetes
wahjhaider@Wahis-MacBook-Pro ~ % kubectl apply -f secrets/mongodb-secret.yaml
secret/mongodb-secret created
wahjhaider@Wahis-MacBook-Pro ~ % kubectl apply -f stateful-sets/mongodb-stateful-set.yaml
statefulset.apps/mongodb-stateful-set created
wahjhaider@Wahis-MacBook-Pro ~ % kubectl get services/mongodb-service.yaml
service/mongodb-service created
wahjhaider@Wahis-MacBook-Pro ~ % kubectl apply -f deployments/note-server-depl.yaml
deployment.apps/note-server-depl created
wahjhaider@Wahis-MacBook-Pro ~ %
```

The bottom window is a code editor showing a file named 'ent.yaml' which contains a Kubernetes deployment configuration:

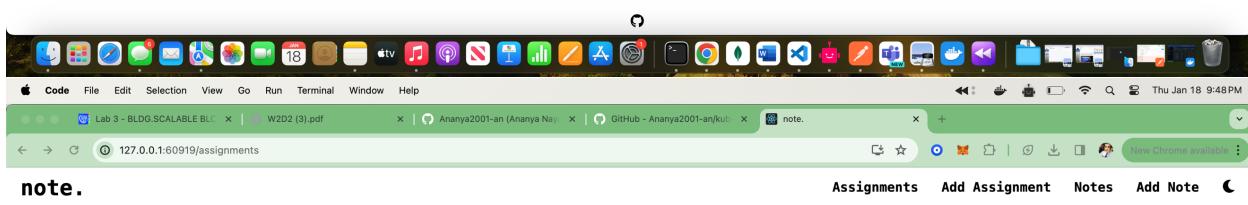
```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app: nginx
spec:
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: nginx:latest
          ports:
            - containerPort: 80
          livenessProbe:
            httpGet:
              path: / # The path to check for the liveness probe
              port: 80 # The port to check on
            initialDelaySeconds: 15 # Wait this many seconds before starting the probe
            periodSeconds: 10 # Check the probe every 10 seconds
          readinessProbe:
            httpGet:
              path: / # The path to check for the readiness probe
              port: 80 # The port to check on
            initialDelaySeconds: 5 # Wait this many seconds before starting the probe
            periodSeconds: 5 # Check the probe every 5 seconds
```

This screenshot is nearly identical to the one above, showing the same terminal and code editor windows. The terminal window still displays the log output for the MongoDB deployment and service creation, and the code editor window shows the same 'ent.yaml' file content.



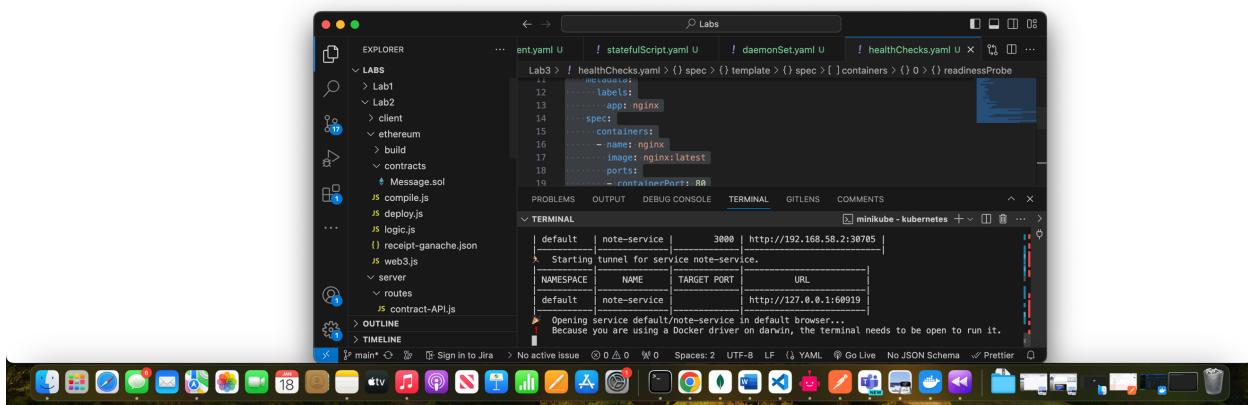
Name:

Search



Name:

Search



Code File Edit Selection View Go Run Terminal Window Help

Thu Jan 18 9:54PM

EXPLORER

- LABS
  - > Lab1
  - > Lab2
  - > client
  - > ethereum
  - > build
  - > contracts
    - Message.sol
    - compile.js
    - deploy.js
    - logic.js
    - receipt-ganache.json
    - web3.js
  - > server
    - > routes
      - contract-API.js
      - smart-contract-API.js
      - index.js
    - index.js
  - docker-compose.yml
  - Dockerfile
  - Dockerfile.ganache
  - Lab2.pdf
  - Lab2Updated.pdf
  - LICENSE
  - LICENSE.md
  - package-lock.json
  - package.json
  - QUIZ\_1.pdf
  - README.md
- Lab3
  - > mern-kubernetes
  - > kubernetes
    - > deployments
    - > secrets
    - > services
    - > stateful-sets
      - ! docker-compose.yml
    - README.md
    - rest.http
    - ! daemonSet.yaml

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS COMMENTS

TERMINAL

```
wahajhaider@Wahajs-MacBook-Pro:~$ kubectl delete pod note-deployment-74cc946cd8-dcjj1
pod "note-deployment-74cc946cd8-dcjj1" deleted
wahajhaider@Wahajs-MacBook-Pro:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
note-deployment-74cc946cd8-4kfww 1/1 Running 0 7m51s
note-deployment-74cc946cd8-7f37f 1/1 Running 0 55s
note-server-deployment-6fb5fc657f-t5v7s 1/1 Running 0 7m59s
wahajhaider@Wahajs-MacBook-Pro:~$
```

Ln 32, Col 1 (909 selected) Spaces: 2 UTF-8 LF ↴ YAML Go Live No JSON Schema Prettier

Code File Edit Selection View Go Run Terminal Window Help

Tue Jan 16 11:45PM

Lab 3 - BLDG SCALABLE BLC | W2D2.pdf

kubernetes default Search

Cluster > Nodes

Stateful Sets

Service

Ingresses

Ingress Classes

Services

Config and Storage

Config Maps

Persistent Volume Claims

Secrets

Storage Classes

Cluster

Cluster Role Bindings

Cluster Roles

Events

Namespaces

Network Policies

Nodes

Persistent Volumes

Role Bindings

Roles

Service Accounts

Custom Resource Definitions

Settings

EXPLORER

- LABS
  - > Lab1
  - > templates
    - index.html
    - app.py
    - Dockerfile
    - Lab1 Updated After Tuesdays...
    - lab1.pdf
    - requirements.txt
  - > Lab2
    - > client
    - > ethereum
    - > build
    - > contracts
      - Message.sol
      - compile.js
      - deploy.js
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      - web3.js
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      - > routes
        - contract-API.js
        - smart-contract-API.js
        - index.js
      - index.js
    - docker-compose.yml
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    - LICENSE
    - LICENSE.md
    - package-lock.json
    - package.json
    - QUIZ\_1.pdf
    - README.md
  - Lab3
    - > mern-kubernetes
    - > kubernetes
      - > deployments
      - > secrets
      - > services
      - > stateful-sets
        - ! docker-compose.yml
      - README.md
      - rest.http
      - ! daemonSet.yaml

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS COMMENTS

TERMINAL

```
Done! kubectl is now configured to use "multinode-demo" cluster and "default" namespace by default
wahajhaider@Wahajs-MacBook-Pro:~$ kubectl get nodes
NAME STATUS AGE
multinode-demo Ready control-plane v1.28.3
multinode-demo-m02 Ready 12s v1.28.3
wahajhaider@Wahajs-MacBook-Pro:~$ minikube status -p multinode-demo
multinode-demo type: Control Plane
host: Running
kublets: Running
apiserver: Running
Kubeconfig: Configured
multinode-demo-m02 type: Worker
host: Running
kublets: Running
wahajhaider@Wahajs-MacBook-Pro:~$ minikube dashboard -p multinode-demo
Enabling dashboard
  ▪ Using image docker.io/kubernetesui/dashboard:v2.7.0
  ▪ Using image docker.io/kubernetesui/metrics-scraper:v1.8.8
  ▪ 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
  ▪ Verifying proxy health ...
  ▪ Opening http://127.0.0.1:50007/api/v1/namespaces/kubernetes-dashboard/service/default
  ▪
```

Show welcome page on startup

Walkthroughs

  - Get Started with VS Code
  - Learn the Fundamentals
  - Get Started with GitLens
  - Get Started with Java Development

Restart Visual Studio Code to apply the latest changes

Update Now