

TASK 5: Build a Kubernetes Cluster Locally with Minikube

- **Objective:** Deploy and manage apps in Kubernetes.
- **Tools:** Minikube, kubectl, Docker
- **Deliverables:** YAML files, screenshots of pods/services
- **Hints:**
 - a. Install Minikube & start the cluster.
 - b. Create deployment.yaml for an app.
 - c. Expose app using service.yaml.
 - d. Use kubectl get pods to verify.
 - e. Scale deployments using kubectl scale.
 - f. Use kubectl describe for logs.

Screenshots:

Drive URL :

<https://docs.google.com/document/d/1qevbkqjBtxQIDuLdaccK9UdANYX7vLLXZ3CtQTrXEPk/edit?usp=sharing>

This screenshot shows the initial setup of a Kubernetes environment on a remote host. The terminal window is titled 'Jawahar [SSH: 192.168.1.3]'. The left sidebar shows the Explorer view with a file tree for 'JAWAHAR [SSH: 192.168.1.3]'. The terminal output shows the following commands and their results:

```
Jawahar@Jawahar:~$ docker --version
Docker version 27.5.1, build 27.5.1-0ubuntu3~24.04.2

Jawahar@Jawahar:~$ minikube version
minikube version: v1.36.0
commit: f8f52f5de11fc6ad8244afac475e1d0f96841df1-dirty

Jawahar@Jawahar:~$ kubectl version --client
Client Version: v1.33.3
Kustomize Version: v5.6.0

Jawahar@Jawahar:~$
```

This screenshot shows the execution of the 'minikube start' command and its output. The terminal window is titled 'Jawahar [SSH: 192.168.1.3]'. The left sidebar shows the Explorer view with a file tree for 'JAWAHAR [SSH: 192.168.1.3]'. The terminal output shows the following commands and their results:

```
Jawahar@Jawahar:~$ minikube start --driver=docker
minikube v1.36.0 on Ubuntu 24.04 (vbox/amd64)
Using the docker driver based on existing profile
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.47 ...
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.33.1 on Docker 28.1.1 ...
Verifying Kubernetes components...
  Using image gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: default-storageclass, storage-provisioner
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

Jawahar@Jawahar:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

Jawahar@Jawahar:~$
```

File Edit Selection View Go Run ... ← → Jawahar [SSH: 192.168.1.3]

EXPLORER

- JAWAHAR [SSH: 192.168.1.3]
 - .ansible
 - .aws
 - .cache
 - .dotnet
 - .gnupg
 - .kube
 - .local
 - .minikube
 - .ssh
 - .terraform.d
 - .vscode-server
 - aws
 - Elevate-Labs-Projects
 - Elevate-Labs-Projects-Task05
 - kubernetes
 - snapp
 - Terraform-Task-02
 - .bash_history
 - .bash_logout
 - .bashrc
 - .gitconfig
 - .lessht
 - .profile
 - .sudo as admin successful
 - OUTLINE
 - TIMELINE

Show All Commands Ctrl + Shift + P

Go to File Ctrl + P

Open Chat Ctrl + Alt + I

Start Debugging F5

Toggle Terminal Ctrl + `

minikube

type: Control Plane

host: Stopped

kubelet: Stopped

apiserver: Stopped

kubeconfig: Stopped

Jawahar@Jawahar:~\$ minikube start --driver=docker

minikube v1.36.0 on Ubuntu 24.04 (vbox/amd64)

Using the docker driver based on existing profile

Starting "minikube" primary control-plane node in "minikube" cluster

Pulling base image v0.0.47 ...

Restarting existing docker container for "minikube" ...

Preparing Kubernetes v1.33.1 on Docker 28.1.1 ...

Verifying Kubernetes components...

- Using image gcr.io/k8s-minikube/storage-provisioner:v5

Enabled addons: default-storageclass, storage-provisioner

Done! kubectli is now configured to use "minikube" cluster and "default" namespace by default

Jawahar@Jawahar:~\$ minikube status

minikube

type: Control Plane

host: Running

kubelet: Running

apiserver: Running

kubeconfig: Configured

Jawahar@Jawahar:~\$ kubectl cluster-info

Kubernetes control plane is running at https://192.168.49.2:8443

CoreDNS is running at https://192.168.49.2:8443/api/v1/namespaces/kube-system/services/kube-dns/dns/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

Jawahar@Jawahar:~\$

SSH: 192.168.1.3 0 0 0 0

Upcoming Earnings

ENG IN

04:22:43 PM 12-08-2025

File Edit Selection View Go Run ... ← → Jawahar [SSH: 192.168.1.3]

EXPLORER

- JAWAHAR [SSH: 192.168.1.3]
 - .cache
 - .dotnet
 - .gnupg
 - .kube
 - .local
 - .minikube
 - .ssh
 - .terraform.d
 - .vscode-server
 - aws
 - Elevate-Labs-Projects
 - Elevate-Labs-Projects-Task05
 - ! deployment.yaml
 - kubernetes
 - snapp
 - Terraform-Task-02
 - .bash_history
 - .bash_logout
 - .bashrc
 - .gitconfig
 - .lessht
 - .profile
 - .sudo as admin successful
 - OUTLINE
 - TIMELINE

Elevate-Labs-Projects-Task05 > ! deployment.yaml

```
1 apiVersion: apps/v1
2 kind: Deployment
3 metadata:
4   name: nginx-deployment
5 spec:
6   replicas: 2
7   selector:
8     matchLabels:
9       app: nginx
10  template:
11    metadata:
12      labels:
13        app: nginx
14    spec:
15      containers:
16        - name: nginx
17          image: nginx:stable
18          ports:
19            - containerPort: 80
20
```

minikube

type: Control Plane

host: Stopped

kubelet: Stopped

apiserver: Stopped

kubeconfig: Stopped

Jawahar@Jawahar:~\$ minikube start --driver=docker

minikube v1.36.0 on Ubuntu 24.04 (vbox/amd64)

Using the docker driver based on existing profile

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Pulling base image v0.0.47 ...

Restarting existing docker container for "minikube" ...

Preparing Kubernetes v1.33.1 on Docker 28.1.1 ...

Verifying Kubernetes components...

- Using image gcr.io/k8s-minikube/storage-provisioner:v5

Enabled addons: default-storageclass, storage-provisioner

Done! kubectli is now configured to use "minikube" cluster and "default" namespace by default

Jawahar@Jawahar:~\$ minikube status

minikube

type: Control Plane

host: Running

kubelet: Running

apiserver: Running

kubeconfig: Configured

Jawahar@Jawahar:~\$ kubectl cluster-info

Kubernetes control plane is running at https://192.168.49.2:8443

CoreDNS is running at https://192.168.49.2:8443/api/v1/namespaces/kube-system/services/kube-dns/dns/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

Jawahar@Jawahar:~\$

SSH: 192.168.1.3 0 0 0 0

Ln 20, Col 1 Spaces: 2 UTF-8 LF {} YAML

Upcoming Earnings

ENG IN

04:23:15 PM 12-08-2025

File Edit Selection View Go Run ... ← → Jawahar [SSH: 192.168.1.3]

EXPLORER

- JAWAHAR [SSH: 192.168.1.3]
 - .cache
 - .dotnet
 - .gnupg
 - .kube
 - .local
 - .minikube
 - .ssh
 - .terraform.d
 - .vscode-server
 - aws
 - Elevate-Labs-Projects
 - Elevate-Labs-Projects-Task05
 - ! deployment.yaml
 - kubernetes
 - snap
 - Terraform-Task-02
 - .bash_history
 - .bash_logout
 - .bashrc
 - .gitconfig
 - .lessht
 - .profile
 - .sudo_as_admin_successful
- OUTLINE
- TIMELINE

! deployment.yaml

```
1 apiVersion: apps/v1
2 kind: Deployment
3 metadata:
4   name: nginx-deployment
5 spec:
6   replicas: 2
7   selector:
8     matchLabels:
9       app: nginx
10  template:
11    metadata:
12      labels:
13        app: nginx
14    spec:
15      containers:
16        - name: nginx
17          image: nginx:stable
18          ports:
19            - containerPort: 80
20
```

PROBLEMS OUTPUT TERMINAL ... bash - Elevate-Labs-Projects-Task05

```
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl apply -f deployment.yaml
error: no objects passed to apply
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl apply -f deployment.yaml
error: no objects passed to apply
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl apply -f deployment.yaml
deployment.apps/nginx-deployment created
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl get deployments
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment  0/2     2            0           10s
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl get pods -o wide
NAME          NODE          NOMINATED NODE   READINESS GATES
nginx-deployment-5654587fb9-2r56p  0/1          ContainerCreating  0           16s
nginx-deployment-5654587fb9-hdvw4  0/1          ContainerCreating  0           16s
```

Ln 10, Col 12 Spaces: 2 UTF-8 LF {} YAML

File Edit Selection View Go Run ... ← → Jawahar [SSH: 192.168.1.3]

EXPLORER

- JAWAHAR [SSH: 192.168.1.3]
 - .cache
 - .dotnet
 - .gnupg
 - .kube
 - .local
 - .minikube
 - .ssh
 - .terraform.d
 - .vscode-server
 - aws
 - Elevate-Labs-Projects
 - Elevate-Labs-Projects-Task05
 - ! deployment.yaml
 - ! service.yaml
 - kubernetes
 - snap
 - Terraform-Task-02
 - .bash_history
 - .bash_logout
 - .bashrc
 - .gitconfig
 - .lessht
 - .profile
 - .sudo_as_admin_successful
- OUTLINE
- TIMELINE

! service.yaml

```
1 apiVersion: v1
2 kind: Service
3 metadata:
4   name: nginx-service
5 spec:
6   type: NodePort
7   selector:
8     app: nginx
9   ports:
10    - port: 80
11      targetPort: 80
12      nodePort: 30007
13
```

PROBLEMS OUTPUT TERMINAL ... bash - Elevate-Labs-Projects-Task05

```
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl apply -f deployment.yaml
error: no objects passed to apply
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl apply -f deployment.yaml
error: no objects passed to apply
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl apply -f deployment.yaml
deployment.apps/nginx-deployment created
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl get deployments
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment  0/2     2            0           10s
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl get pods -o wide
NAME          NODE          NOMINATED NODE   READINESS GATES
nginx-deployment-5654587fb9-2r56p  0/1          ContainerCreating  0           16s
nginx-deployment-5654587fb9-hdvw4  0/1          ContainerCreating  0           16s
```

Ln 13, Col 1 Spaces: 2 UTF-8 LF {} YAML

This screenshot shows the initial setup in VS Code. The Explorer pane on the left displays the file structure of the 'Elevate-Labs-Projects-Task05' directory, with 'service.yaml' selected. The central editor pane shows the content of 'service.yaml', which defines an nginx service with a NodePort type and port 30007. The right-hand side contains the PROBLEMS, OUTPUT, and TERMINAL panes. The terminal shows the command 'minikube service nginx-service --url http://192.168.49.2:30007' being executed.

```
File Edit Selection View Go Run ...  
Jawahar [SSH: 192.168.1.3]  
EXPLORER  
JAWAHAR [SSH: 192.168.1.3]  
  .cache  
  .dotnet  
  .gnupg  
  .kube  
  .local  
  .minikube  
  .ssh  
  .terraform.d  
  .vscode-server  
  aws  
  Elevate-Labs-Projects  
  Elevate-Labs-Projects-Task05  
    deployment.yaml  
    service.yaml  
  kubernetes  
  snap  
  Terraform-Task-02  
  .bash_history  
  .bash_logout  
  .bashrc  
  .gitconfig  
  .lessht  
  .profile  
  OUTLINE  
  TIMELINE  
SSE: 192.168.1.3  
Elevate-Labs-Projects-Task05 > ! service.yaml  
1  apiVersion: v1  
2  kind: Service  
3  metadata:  
4    name: nginx-service  
5  spec:  
6    type: NodePort  
7    selector:  
8      app: nginx  
9    ports:  
10     - port: 80  
11       targetPort: 80  
12       nodePort: 30007  
13  
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ minikube service nginx-service --url  
http://192.168.49.2:30007  
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$
```

This screenshot shows the next step in the process. The terminal now displays the command 'curl http://192.168.49.2:30007' and its output, which is the default nginx welcome page. The output includes a title 'Welcome to nginx!', a style section, and a body with a heading 'Welcome to nginx!' and a paragraph about the web server's installation and configuration.

```
File Edit Selection View Go Run ...  
Jawahar [SSH: 192.168.1.3]  
EXPLORER  
JAWAHAR [SSH: 192.168.1.3]  
  .cache  
  .dotnet  
  .gnupg  
  .kube  
  .local  
  .minikube  
  .ssh  
  .terraform.d  
  .vscode-server  
  aws  
  Elevate-Labs-Projects  
  Elevate-Labs-Projects-Task05  
    deployment.yaml  
    service.yaml  
  kubernetes  
  snap  
  Terraform-Task-02  
  .bash_history  
  .bash_logout  
  .bashrc  
  .gitconfig  
  .lessht  
  .profile  
  OUTLINE  
  TIMELINE  
SSE: 192.168.1.3  
Elevate-Labs-Projects-Task05 > ! service.yaml  
1  apiVersion: v1  
2  kind: Service  
3  metadata:  
4    name: nginx-service  
5  spec:  
6    type: NodePort  
7    selector:  
8      app: nginx  
9    ports:  
10     - port: 80  
11       targetPort: 80  
12       nodePort: 30007  
13  
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ minikube service nginx-service --url  
http://192.168.49.2:30007  
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ curl http://192.168.49.2:30007  
<!DOCTYPE html>  
<html>  
<head>  
<title>Welcome to nginx!</title>  
<style>  
html { color-scheme: light dark; }  
body { width: 35em; margin: 0 auto;  
font-family: Tahoma, Verdana, Arial, sans-serif; }  
</style>  
</head>  
<body>  
<h1>Welcome to nginx!</h1>  
<p>If you see this page, the nginx web server is successfully installed and  
working. Further configuration is required.</p>  
  
<p>For online documentation and support please refer to  
<a href="http://nginx.org/">nginx.org</a>.<br/>  
Commercial support is available at  
<a href="http://nginx.com/">nginx.com</a>.</p>  
  
<p><em>Thank you for using nginx.</em></p>  
</body>  
</html>  
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$
```

```
File Edit Selection View Go Run ... SSH: 192.168.1.3
```

EXPLORER

- JAWAHAR [SSH: 192.168.1.3]
 - .cache
 - .dotnet
 - .gnupg
 - .kube
 - .local
 - .minikube
 - .ssh
 - .terraform.d
 - .vscode-server
 - aws
 - Elevate-Labs-Projects
 - ! deployment.yaml
 - ! service.yaml
 - kubernetes
 - snap
 - Terraform-Task-02
 - .bash_history
 - .bash_logout
 - .bashrc
 - .gitconfig
 - .lessht
 - .profile
- OUTLINE
- TIMELINE

! service.yaml

```
1 apiVersion: v1
2 kind: Service
3 metadata:
4   name: nginx-service
5 spec:
6   type: NodePort
7   selector:
8     app: nginx
9   ports:
10  - port: 80
11    targetPort: 80
12    nodePort: 30007
13
```

PROBLEMS OUTPUT TERMINAL ... bash - Elevate-Labs-Projects-Task05

```
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>

Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl get pods -o wide
NAME                                READY   STATUS    RESTARTS   AGE   IP            NODE
nginx-deployment-5654587fb9-2r56p   1/1     Running   0           5m44s  10.244.0.7    minikube
nginx-deployment-5654587fb9-hdvw4   1/1     Running   0           5m44s  10.244.0.6    minikube

Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl scale deployment nginx-deployment -
-replicas=4
deployment.apps/nginx-deployment scaled

Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-5654587fb9-2r56p   1/1     Running   0           6m47s
nginx-deployment-5654587fb9-b796f   0/1     ContainerCreating   0           6s
nginx-deployment-5654587fb9-hdvw4   1/1     Running   0           6m47s
nginx-deployment-5654587fb9-w9px4   0/1     ContainerCreating   0           6s

Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-5654587fb9-2r56p   1/1     Running   0           7m56s
nginx-deployment-5654587fb9-b796f   1/1     Running   0           75s
nginx-deployment-5654587fb9-hdvw4   1/1     Running   0           7m56s
nginx-deployment-5654587fb9-w9px4   1/1     Running   0           75s

Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$
```

Ln 13, Col 1 Spaces: 2 UTF-8 LF {} YAML

29°C Light rain 04:32:07 PM 12-08-2025

```
File Edit Selection View Go Run ... SSH: 192.168.1.3
```

EXPLORER

- JAWAHAR [SSH: 192.168.1.3]
 - .cache
 - .dotnet
 - .gnupg
 - .kube
 - .local
 - .minikube
 - .ssh
 - .terraform.d
 - .vscode-server
 - aws
 - Elevate-Labs-Projects
 - ! deployment.yaml
 - ! service.yaml
 - kubernetes
 - snap
 - Terraform-Task-02
 - .bash_history
 - .bash_logout
 - .bashrc
 - .gitconfig
 - .lessht
 - .profile
- OUTLINE
- TIMELINE

! service.yaml

```
1 apiVersion: v1
2 kind: Service
3 metadata:
4   name: nginx-service
5 spec:
6   type: NodePort
7   selector:
8     app: nginx
9   ports:
10  - port: 80
11    targetPort: 80
12    nodePort: 30007
13
```

PROBLEMS OUTPUT TERMINAL ... bash - Elevate-Labs-Projects-Task05

```
Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05$ kubectl describe pod nginx-deployment-56545
87fb9-2r56p
Name:          nginx-deployment-5654587fb9-2r56p
Namespace:     default
Priority:       0
Service Account: default
Node:          minikube/192.168.49.2
Start Time:    Tue, 12 Aug 2025 10:53:58 +0000
Labels:        app=nginx
               pod-template-hash=5654587fb9
Annotations:   <none>
Status:        Running
IP:            10.244.0.7
IPs:           IP: 10.244.0.7
               Controlled By: ReplicaSet/nginx-deployment-5654587fb9
Containers:
  nginx:
    Container ID:  docker://e93dd9bae7f150ffc6f85bbcb04698d9b59f662875c42bafacda3b32d498c3
    Image:          nginx:stable
    Image ID:       docker-pullable://nginx@sha256:7935b9ee80fe4076ce8ca637fe7bb0c7a1268e2b
d854032a0563ecc96bfa6747
    Port:          80/TCP
    Host Port:     0/TCP
    State:         Running
      Started:     Tue, 12 Aug 2025 10:55:34 +0000
    Ready:         True
    Restart Count:  0
    Environment:   <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-zw849 (ro)
    Conditions:
```

Ln 13, Col 1 Spaces: 2 UTF-8 LF {} YAML

29°C Light rain 04:32:57 PM 12-08-2025

File Edit Selection View Go Run ... ← → Jawahar [SSH: 192.168.1.3]

EXPLORER

- JAWAHAR [SSH: 192.168.1.3]
 - .cache
 - .dotnet
 - .gnupg
 - .kube
 - .local
 - .minikube
 - .ssh
 - .terraform.d
 - .vscode-server
 - aws
 - Elevate-Labs-Projects
 - deployment.yaml
 - service.yaml
 - kubernetes
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- OUTLINE
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! service.yaml

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1 apiVersion: v1
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3 metadata:
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5 spec:
6   type: NodePort
7   selector:
8     app: nginx
9   ports:
10    - port: 80
11      targetPort: 80
12      nodePort: 30007
13
```

PROBLEMS OUTPUT TERMINAL

bash - Elevate-Labs-Projects-Task05

Type	Reason	Age	From	Message
Normal	Scheduled	8m42s	default-scheduler	Successfully assigned default/nginx-deployment-5654587fb9-2r56p to minikube
Normal	Pulling	8m38s	kubelet	Pulling image "nginx:stable"
Normal	Pulled	7m8s	kubelet	Successfully pulled image "nginx:stable" in 4.192s (1m30.138s including waiting). Image size: 192474705 bytes.
Normal	Created	7m7s	kubelet	Created container: nginx
Normal	Started	7m6s	kubelet	Started container nginx

● Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05\$ kubectl logs nginx-deployment-5654587fb9-2r56p

```
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/08/12 10:55:36 [notice] 1#1: using the "epoll" event method
2025/08/12 10:55:36 [notice] 1#1: nginx/1.28.0
2025/08/12 10:55:36 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2025/08/12 10:55:36 [notice] 1#1: OS: Linux 6.8.0-64-generic
2025/08/12 10:55:36 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/08/12 10:55:36 [notice] 1#1: start worker processes
2025/08/12 10:55:36 [notice] 1#1: start worker process 29
2025/08/12 10:55:36 [notice] 1#1: start worker process 30
10.244.0.1 - - [12/Aug/2025:10:56:31 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/8.5.0" "-"
```

○ Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05\$

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File Edit Selection View Go Run ... ← → Jawahar [SSH: 192.168.1.3]

EXPLORER

- JAWAHAR [SSH: 192.168.1.3]
 - .cache
 - .dotnet
 - .gnupg
 - .kube
 - .local
 - .minikube
 - .ssh
 - .terraform.d
 - .vscode-server
 - aws
 - Elevate-Labs-Projects
 - deployment.yaml
 - service.yaml
 - kubernetes
 - snap
 - Terraform-Task-02
 - .bash_history
 - .bash_logout
 - .bashrc
 - .gitconfig
 - .lessht
 - .profile
- OUTLINE
- TIMELINE

! service.yaml

```
1 apiVersion: v1
2 kind: Service
3 metadata:
4   name: nginx-service
5 spec:
6   type: NodePort
7   selector:
8     app: nginx
9   ports:
10    - port: 80
11      targetPort: 80
12      nodePort: 30007
13
```

PROBLEMS OUTPUT TERMINAL

bash - Elevate-Labs-Projects-Task05

```
2025/08/12 10:55:36 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2025/08/12 10:55:36 [notice] 1#1: OS: Linux 6.8.0-64-generic
2025/08/12 10:55:36 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/08/12 10:55:36 [notice] 1#1: start worker processes
2025/08/12 10:55:36 [notice] 1#1: start worker process 29
2025/08/12 10:55:36 [notice] 1#1: start worker process 30
10.244.0.1 - - [12/Aug/2025:10:56:31 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/8.5.0" "-"
```

● Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05\$ kubectl delete -f service.yaml

● Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05\$ kubectl delete -f deployment.yaml

● Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05\$ minikube stop

```
Stopping node "minikube" ...
Powering off "minikube" via SSH ...
1 node stopped.
```

● Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05\$ minikube delete

```
Deleting "minikube" in docker ...
Deleting container "minikube" ...
Removing /home/Jawahar/.minikube/machines/minikube ...
Removed all traces of the "minikube" cluster.
```

● Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05\$ kubectl get pods

```
E0812 11:04:50.506456 12064 memcache.go:265 "Unhandled Error" err="couldn't get current server API group list: invalid character '<' looking for beginning of value"
```

E0812 11:04:50.690445 12064 memcache.go:265 "Unhandled Error" err="couldn't get current server API group list: invalid character '<' looking for beginning of value"

E0812 11:04:50.988749 12064 memcache.go:265 "Unhandled Error" err="couldn't get current server API group list: invalid character '<' looking for beginning of value"

E0812 11:04:51.245336 12064 memcache.go:265 "Unhandled Error" err="couldn't get current server API group list: invalid character '<' looking for beginning of value"

E0812 11:04:51.757760 12064 memcache.go:265 "Unhandled Error" err="couldn't get current server API group list: invalid character '<' looking for beginning of value"

error: invalid character '<' looking for beginning of value

○ Jawahar@Jawahar:~/Elevate-Labs-Projects-Task05\$

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