```
□ …
! pod-1.yml X
! pod-1.yml > {} spec > [ ] containers
       io.k8s.api.core.v1.Pod (v1@pod.json)
      apiVersion: v1
      kind: Pod
      metadata:
         name: "red"
         namespace: default
  5
  6
         labels:
           app: "myapp"
       spec:
  9
         containers:
 10
         - name: redis-container
 11
           image: "redis:latest"
 12
           resources:
 13
         initContainers:
           - name: init-busybox
 14
 15
             image: busybox
 16
             command: ["sleep","20"]
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                        Sudo + ∨ □ · · · · · · ·
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl apply -f pod-1.yml
pod/red created
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl get po -o wide
NAME READY STATUS
                        RESTARTS AGE IP
                                                 NODE
                                                            NOMINATED NODE READINESS GATES
      0/1
              Init:0/1 0
                                   2s
                                        <none> minikube <none>
red
                                                                            <none>
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl get po -o wide
      READY STATUS
                        RESTARTS AGE
                                                     NODE
                                                               NOMINATED NODE READINESS GATES
                                       IΡ
      0/1
              Init:0/1 0
                                   8s
                                        172.17.0.5 minikube <none>
                                                                                <none>
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl get po -o wide
```

NOMINATED NODE READINESS GATES

NOMINATED NODE READINESS GATES

<none>

NAME READY STATUS

Init:0/1 0

NAME READY STATUS RESTARTS AGE IP

Running 0

RESTARTS AGE IP

root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab#

NODE

NODE

15s 172.17.0.5 minikube <none>

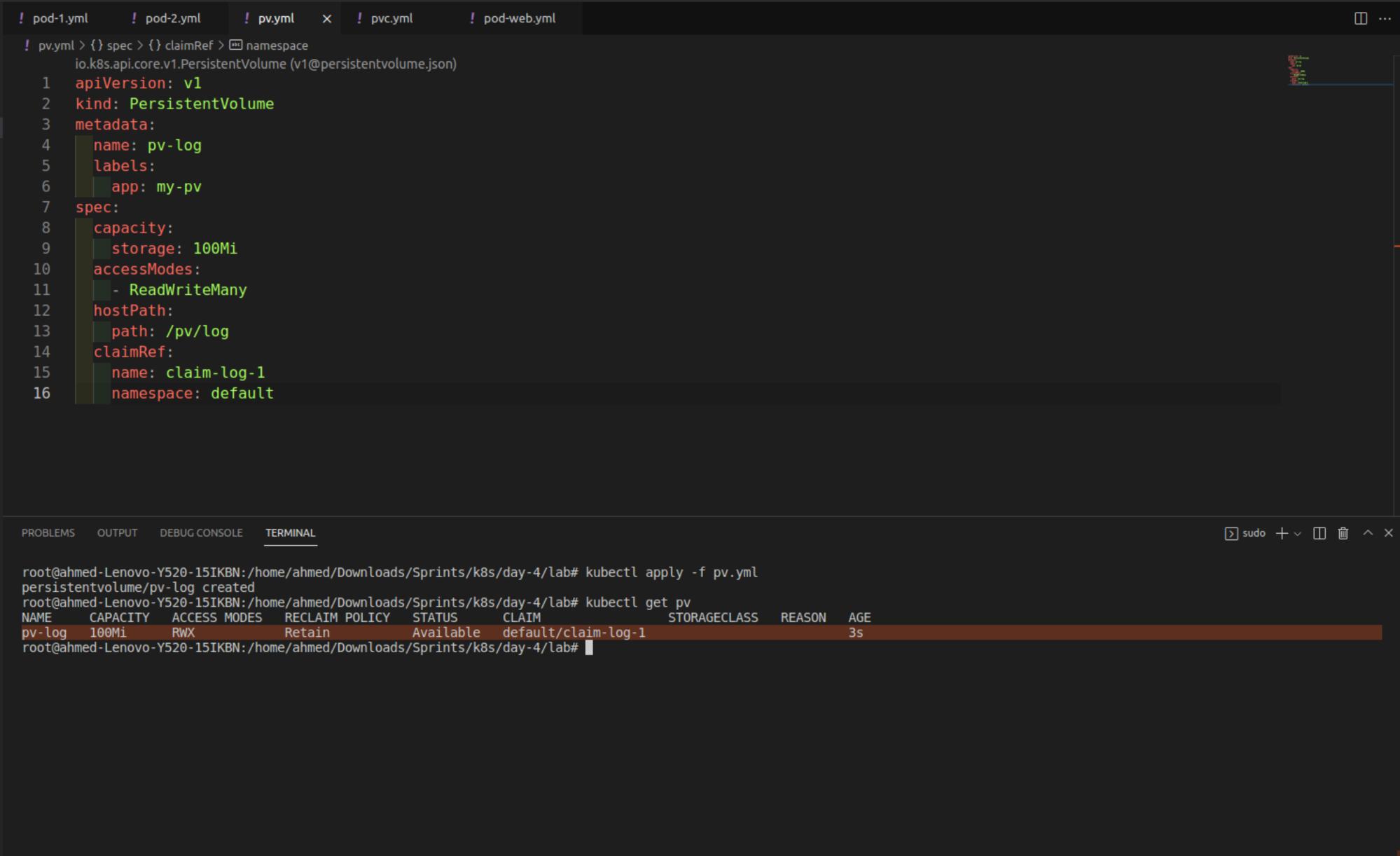
36s 172.17.0.5 minikube <none>

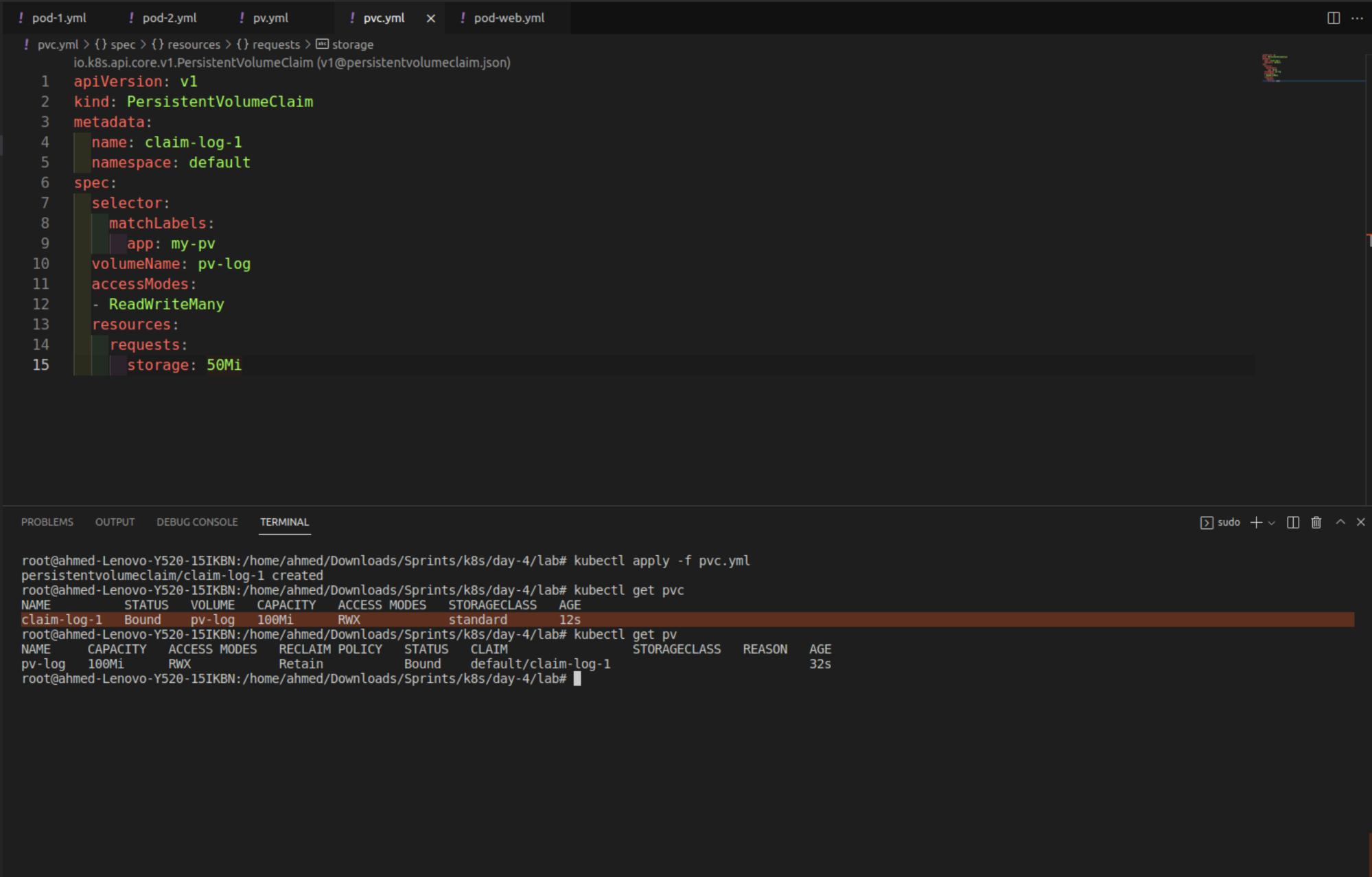
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl get po -o wide

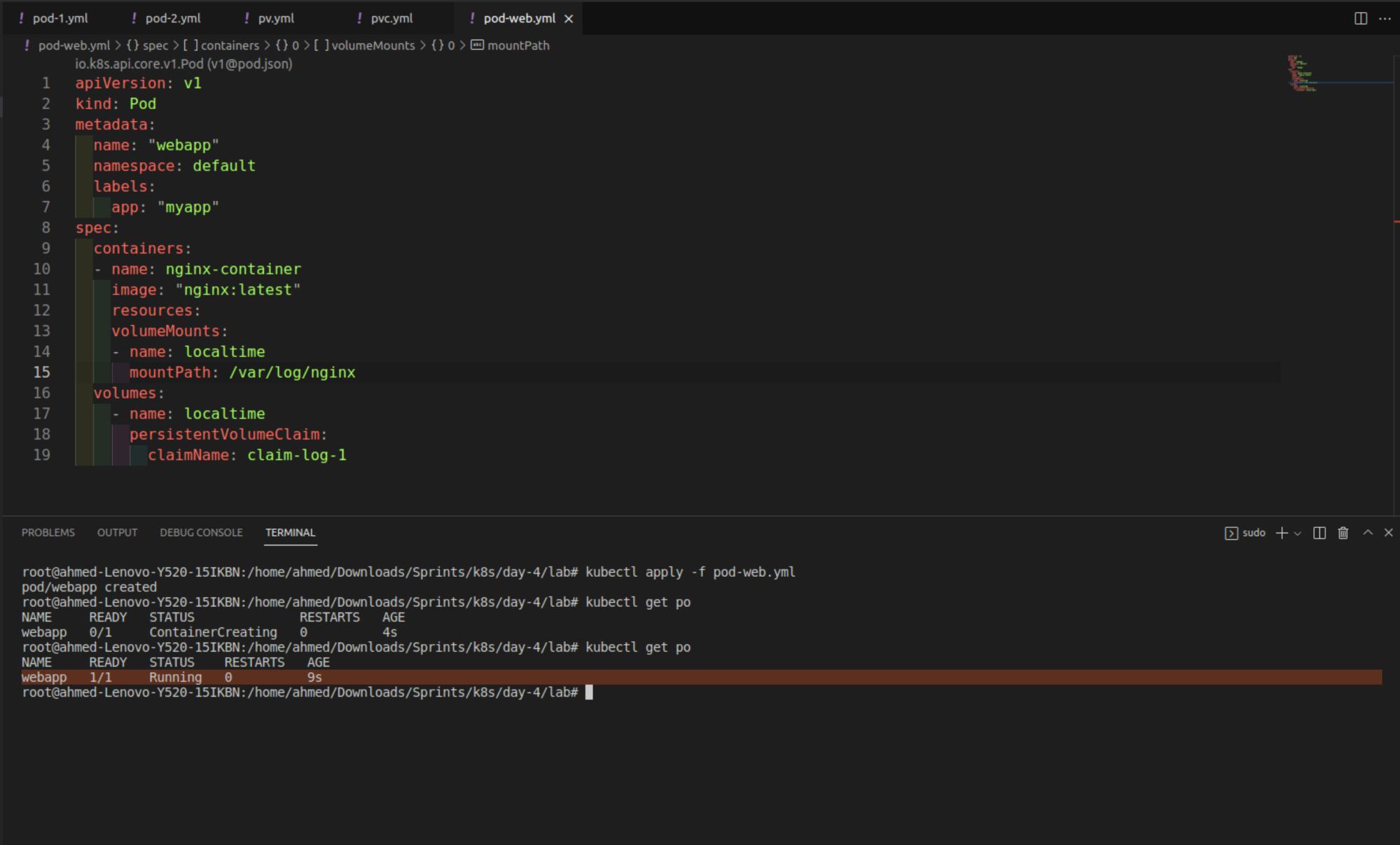
```
! pod-1.yml
                                                                                                                                                                        □ …
             ! pod-2.yml X
! pod-2.yml > {} spec > [ ] containers > {} 0 > ™ name
       io.k8s.api.core.v1.Pod (v1@pod.json)
      apiVersion: v1
      kind: Pod
  3
      metadata:
         name: "print-envars-greeting"
  5
         namespace: default
         labels:
  6
           app: "myapp"
       spec:
  9
         containers:
 10

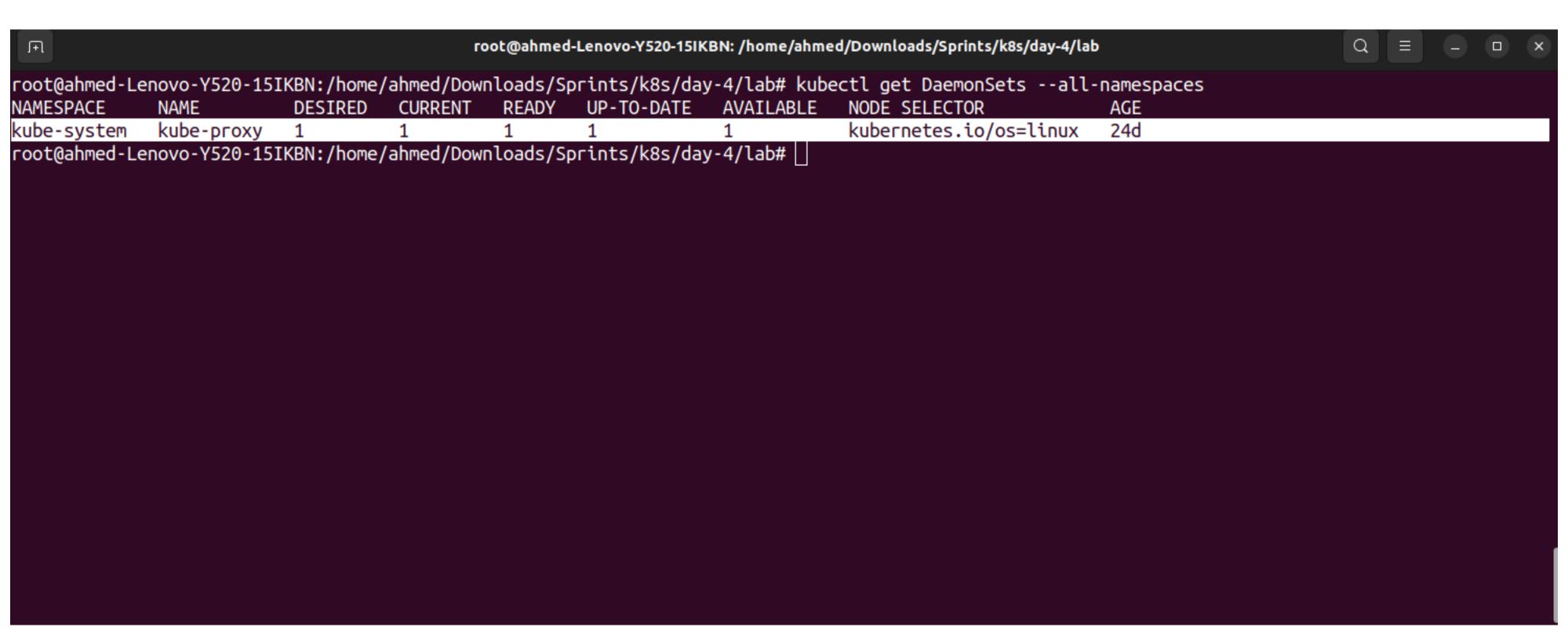
    name: print-env-container

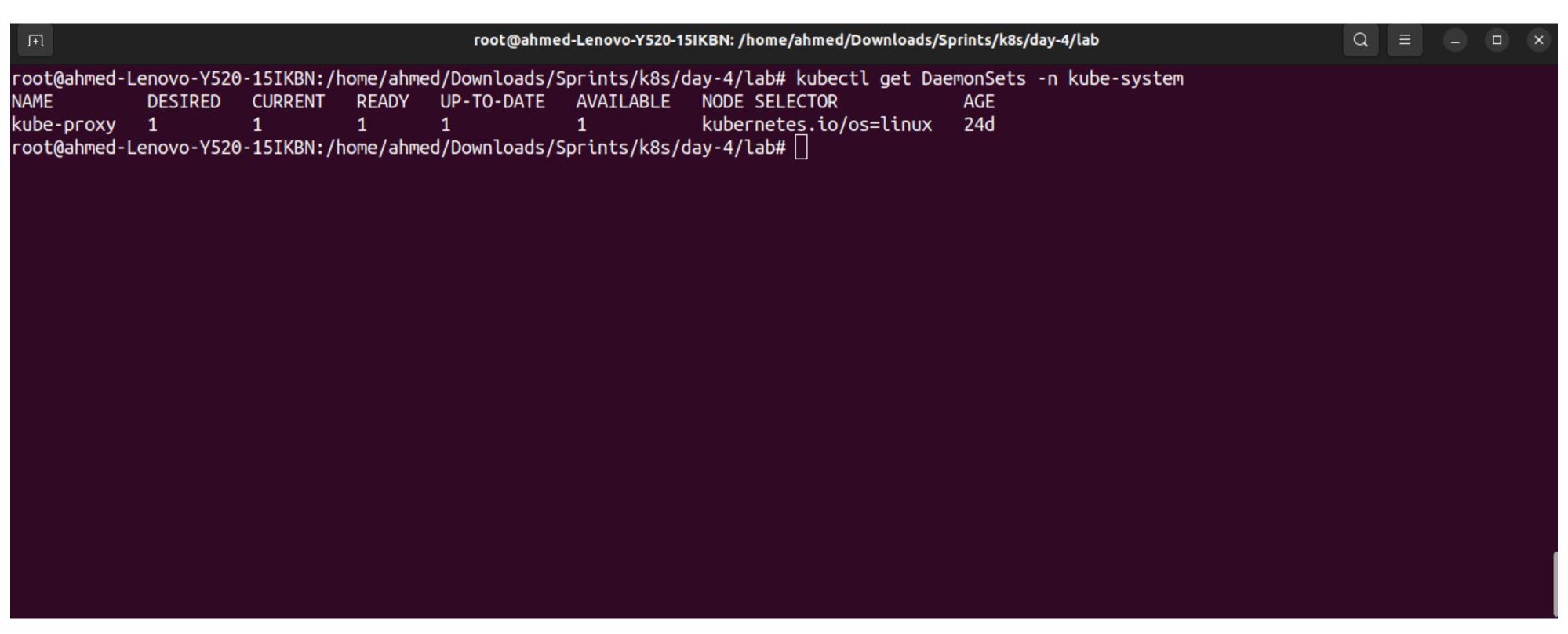
 11
           image: bash
 12
           resources:
 13
           env:
 14
              - name: GREETING
 15
                value: "Welcome to"
 16
              - name: COMPANY
                value: "DevOps"
 17
 18
              name: GROUP
 19
                value: "Industries"
 20
           command: ["echo",'["$(GREETING) $(COMPANY) $(GROUP)"]']
                                                                                                                                                        Sudo + ∨ □ · · · ×
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl apply -f pod-2.yml
pod/print-envars-greeting created
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl get po -o wide
                       READY STATUS
                                                 RESTARTS AGE IP
                                                                          NODE
                                                                                    NOMINATED NODE READINESS GATES
print-envars-greeting 0/1
                              ContainerCreating 0
                                                            3s <none> minikube <none>
                                                                                                     <none>
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl get po -o wide
                       READY STATUS
                                         RESTARTS AGE IP
                                                                      NODE
                                                                                NOMINATED NODE READINESS GATES
print-envars-greeting 0/1
                              Completed 0
                                                    5s 172.17.0.5 minikube <none>
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubctl logs -f print-envars-greeting
Command 'kubctl' not found, did you mean:
  command 'kubectl' from snap kubectl (1.26.1)
See 'snap info <snapname>' for additional versions.
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl logs -f print-envars-greeting
["Welcome to DevOps Industries"]
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab#
```

















```
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl describe po kube-proxy -n kube-system
```

Name: kube-proxy-dk4qr

Namespace: kube-system Priority: 2000001000

Priority Class Name: system-node-critical

Service Account: kube-proxy

Node: minikube/192.168.49.2

Start Time: Sat, 31 Dec 2022 13:20:36 +0200
Labels: controller-revision-hash=b9c5d5dc4

k8s-app=kube-proxy

pod-template-generation=1

Annotations: <none>
Status: Running
IP: 192.168.49.2

IPs:

IP: 192.168.49.2

Controlled By: DaemonSet/kube-proxy

Containers: kube-proxy:

Container ID: docker://952c361056b9ee1853c9b9902641699ece18499e4120a1c40decd385ee032349

Image: registry.k8s.io/kube-proxy:v1.25.3

Image ID: docker-pullable://registry.k8s.io/kube-proxy@sha256:6bf25f038543e1f433cb7f2bdda445ed348c7b9279935ebc2ae4f432308ed82f

Port: <none>
Host Port: <none>

Command:

/usr/local/bin/kube-proxy

--config=/var/lib/kube-proxy/config.conf

--hostname-override=\$(NODE\_NAME)

State: Running

Started: Tue, 24 Jan 2023 16:07:16 +0200

Last State: Terminated
Reason: Error
Exit Code: 255

Started: Tue, 24 Jan 2023 01:13:15 +0200 Finished: Tue, 24 Jan 2023 16:06:58 +0200

Ready: True Restart Count: 18

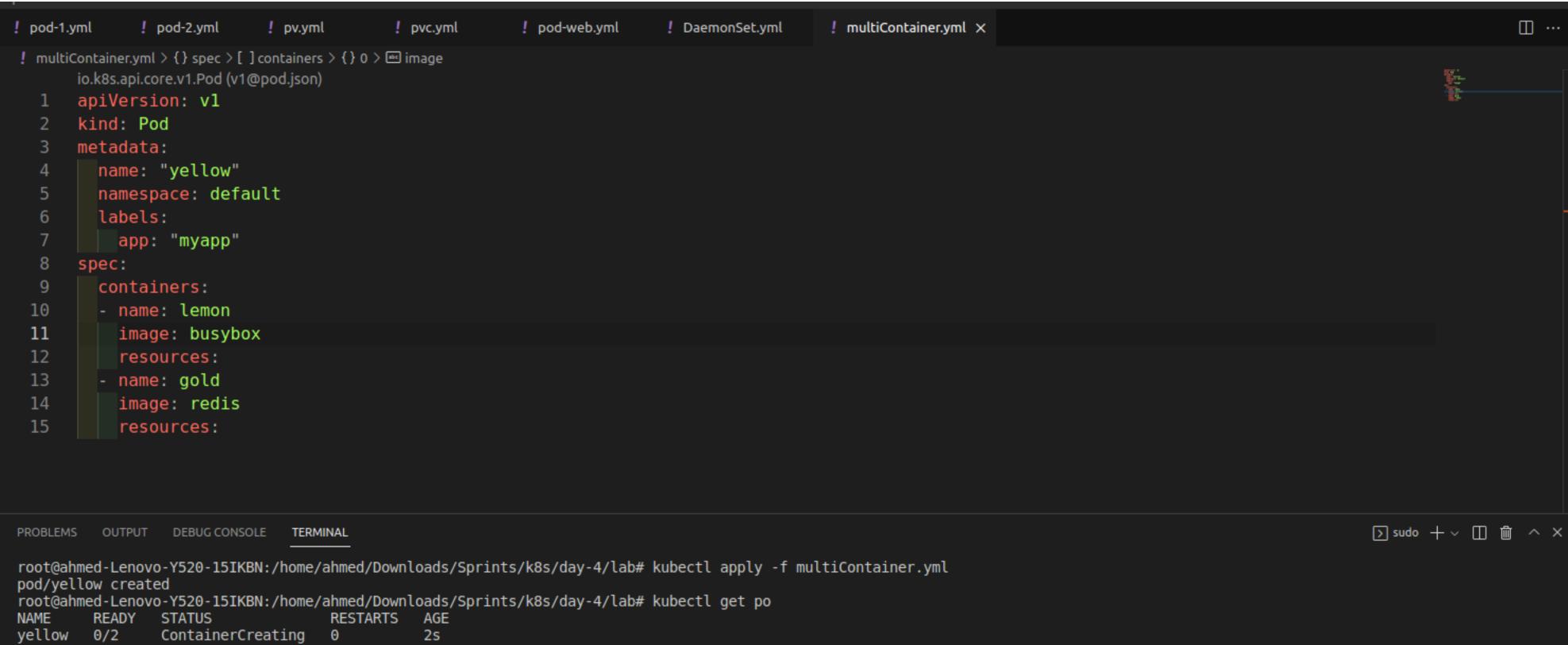
Environment:
 NODE\_NAME: (v1:spec.nodeName)

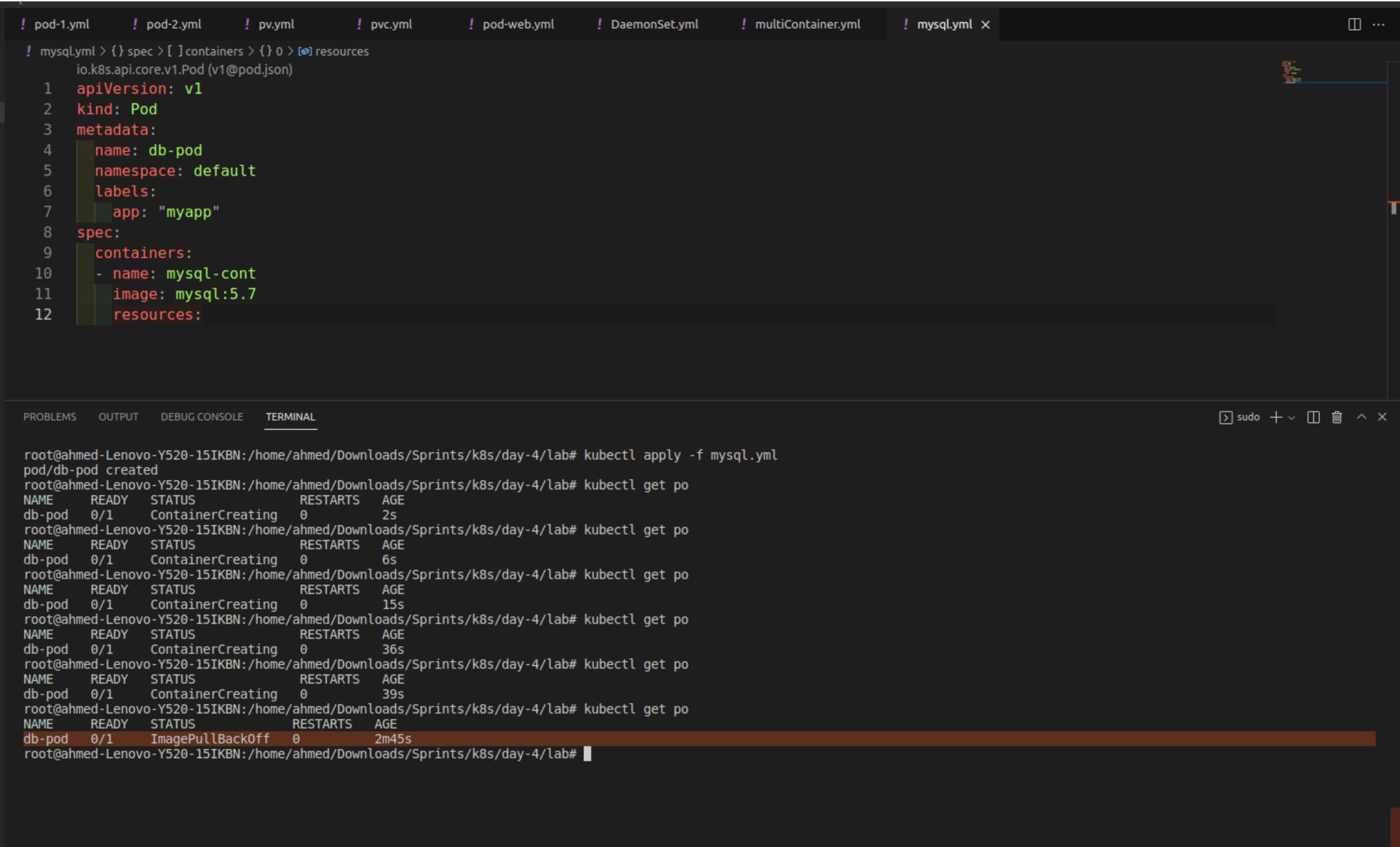
Mounts:

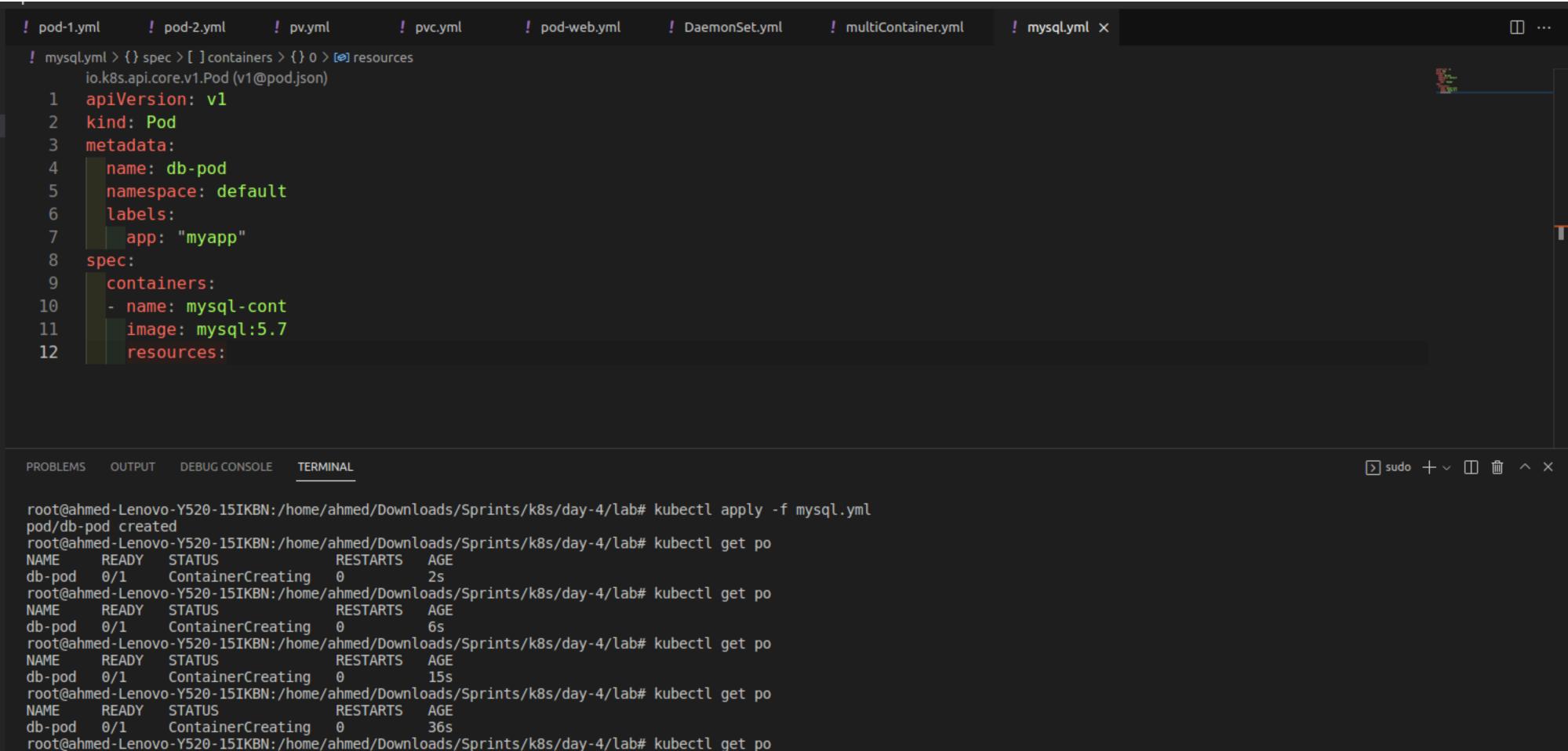
/lib/modules from lib-modules (ro)

/run/xtables.lock from xtables-lock (rw)
/var/lib/kube-proxy from kube-proxy (rw)

```
□ …
! pod-1.yml
              ! pod-2.yml
                                                                         ! DaemonSet.yml ×
                            ! pv.yml
                                          ! pvc.yml
                                                        ! pod-web.yml
! DaemonSet.yml > {} metadata > ••• namespace
       io.k8s.api.apps.v1.DaemonSet (v1@daemonset.json)
      apiVersion: apps/vl
      kind: DaemonSet
       metadata:
  4
         name: elasticsearch
  5
         namespace: kube-system
         labels:
   6
           app: myapp
       spec:
  9
         selector:
 10
           matchLabels:
 11
              app: myapp
 12
         template:
 13
           metadata:
 14
              labels:
 15
                app: myapp
 16
           spec:
 17
              containers:
 18
              - name: myapp-container
 19
                image: k8s.gcr.io/fluentd-elasticsearch:1.20
 20
                resources:
                                                                                                                                                        > sudo + ∨ □ · · · ×
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl apply -f DaemonSet.yml
daemonset.apps/elasticsearch created
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl get DaemonSet -n kube-system
               DESIRED CURRENT READY UP-TO-DATE AVAILABLE NODE SELECTOR
NAME
elasticsearch
                                                                  <none>
                                                                                         30s
                                                                                         24d
                                                                 kubernetes.io/os=linux
kube-proxy
root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab#
```







READY STATUS

READY STATUS

ContainerCreating

db-pod 0/1

NAME

RESTARTS

root@ahmed-Lenovo-Y520-15IKBN:/home/ahmed/Downloads/Sprints/k8s/day-4/lab# kubectl get po

RESTARTS AGE

AGE

39s

