

From the pod label name=overloaded-cpu,

find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/

KUTR00401/KUTR00401.txt (which already exists).

تنزيل metrics service اللي بيقدّر يتابع استهلاك ال cpu and memory

```
[fouad2@client ~]$ kubectl get apiservices | grep metrics
[fouad2@client ~]$ kubectl apply -f https://github.com/kubernetes-sigs/metrics-server/releases/latest/download/components.yaml
serviceaccount/metrics-server created
```

عشان يشتغل داخل ال cluster ويشوف استهلاك ال cpu , ram

```
fouad2@client:~
$ minikube addons enable metrics-server
```

عمل create diff 4 pods

```
[fouad2@client ~]$ kubectl run nginx-pod --image=nginx -l name=overloaded-cpu
pod/nginx-pod created
```

```
[fouad2@client ~]$
[fouad2@client ~]$ kubectl run busybox-pod --image=busybox -l name=overloaded-cpu
pod/busybox-pod created
[fouad2@client ~]$
[fouad2@client ~]$ kubectl run redis-pod --image=redis -l name=overloaded-cpu
pod/redis-pod created
[fouad2@client ~]$
[fouad2@client ~]$ kubectl run alpine-pod --image=alpine -l name=overloaded-cpu
pod/alpine-pod created
[fouad2@client ~]$
```

Verify

```
[fouad2@client ~]$
[fouad2@client ~]$ kubectl get pods -l name=overloaded-cpu
NAME           READY   STATUS    RESTARTS   AGE
alpine-pod     1/1     Running   0           6s
busybox-pod    1/1     Running   0          25s
nginx-pod      1/1     Running   0          20m
redis-pod      1/1     Running   0          17m
[fouad2@client ~]$
```

```
[fouad2@client ~]$
[fouad2@client ~]$ sudo mkdir -p /opt/KUTR00401
```

```
[fouad2@client ~]$ kubectl top pod -l name=overloaded-cpu
NAME          CPU(cores)   MEMORY(bytes)
alpine-pod    601m         0Mi
busybox-pod   320m         0Mi
nginx-pod     0m           3Mi
redis-pod     4m           12Mi
[fouad2@client ~]$
[fouad2@client ~]$
[fouad2@client ~]$ kubectl top pod -l name=overloaded-cpu --sort-by=cpu --no-headers \
| head -1 \
| awk '{print $1}' \
| sudo tee /opt/KUTR00401/KUTR00401.txt
[sudo] password for fouad2:
alpine-pod
```

```
[fouad2@client ~]$ cat /opt/KUTR00401/KUTR00401.txt
alpine-pod
[fouad2@client ~]$
```