

Q. High Availability Microservices

The terminal shows the following commands and output:

```
master@master-vm: ~/Desktop/flask-kube  
master@master-vm:~/Desktop/flask-kube$ kubectl get pods  
NAME                                READY    STATUS    RESTARTS   AGE  
flask-app-74b9cd7899-7z47d          1/1     Running   0           17m  
flask-app-74b9cd7899-vb9b8          1/1     Running   0           163m  
flask-app-74b9cd7899-wpsp6          1/1     Running   0           163m  
load-generator                       1/1     Running   0           22m  
master@master-vm:~/Desktop/flask-kube$ kubectl get hpa  
NAME      REFERENCE               TARGETS  MINPODS  MAXPODS  REPLICAS  AGE  
flask-app Deployment/flask-app    1%/50%   3         10        3          24h  
master@master-vm:~/Desktop/flask-kube$ kubectl get svc flask-service  
NAME       TYPE      CLUSTER-IP    EXTERNAL-IP  PORT(S)              AGE  
flask-svc NodePort   10.103.99.159 <none>       80:31009/TCP      163m  
master@master-vm:~/Desktop/flask-kube$ curl http://192.168.147.130:31009  
{\"message\":\"Hello, World! This is a Flask app running in Docker.\"}  
master@master-vm:~/Desktop/flask-kube$
```

```
Activities Workstation master@master-vm: ~/Desktop/flask-kube
master@master-vm: ~/Desktop/flask-kube
flask-app-74b9cd7899-t55kx 1/1 Running 0 49m
load-generator 1/1 Running 0 33s
master@master-vm: ~/Desktop/flask-kube$ kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
flask-app Deployment/flask-app 1%/50% 3 10 3 48m
master@master-vm: ~/Desktop/flask-kube$ kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
flask-app Deployment/flask-app 1%/50% 3 10 3 56m
master@master-vm: ~/Desktop/flask-kube$ kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
flask-app Deployment/flask-app 1%/50% 3 10 3 56m
master@master-vm: ~/Desktop/flask-kube$ kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
flask-app Deployment/flask-app 100%/50% 3 10 3 57m
master@master-vm: ~/Desktop/flask-kube$ kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
flask-app Deployment/flask-app 100%/50% 3 10 3 57m
master@master-vm: ~/Desktop/flask-kube$ kubectl get hpa
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flask-app Deployment/flask-app 100%/50% 3 10 3 57m
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NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
flask-app Deployment/flask-app 50%/50% 3 10 6 57m
master@master-vm: ~/Desktop/flask-kube$ kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
flask-app Deployment/flask-app 48%/50% 3 10 6 58m
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master@master-vm: ~/Desktop/flask-kube$
master@master-vm: ~/Desktop/flask-kube$
master@master-vm: ~/Desktop/flask-kube$ kubectl get pods
NAME READY STATUS RESTARTS AGE
flask-app-74b9cd7899-47xmb 1/1 Running 0 6m54s
flask-app-74b9cd7899-8qmhd 1/1 Running 0 82s
flask-app-74b9cd7899-c9hjc 1/1 Running 0 82s
flask-app-74b9cd7899-h9qhq 1/1 Running 0 59m
flask-app-74b9cd7899-t55kx 1/1 Running 0 59m
flask-app-74b9cd7899-x6ghz 1/1 Running 0 83s
load-generator 1/1 Running 0 2m22s
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flask-app Deployment/flask-app 49%/50% 3 10 6 58m
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command terminated with exit code 127
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flask-app-74b9cd7899-h9ldb 1/1 Running 0 49m
flask-app-74b9cd7899-h9qgh 1/1 Running 0 49m
flask-app-74b9cd7899-t55kx 1/1 Running 0 49m
load-generator 1/1 Running 0 33s
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