

Task 4: Scale containerized workloads in the Azure Kubernetes service cluster

In this task, you will scale horizontally the number of pods and then number of cluster nodes.

run the following to scale the deployment by increasing of the number of pods to 2:

```
- kubectl scale --replicas=2 deployment/nginx-deployment
```

```
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```

```
andrej [ ~ ]$ kubectl scale --replicas=2 deployment/nginx-deployment
deployment.apps/nginx-deployment scaled
andrej [ ~ ]$ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
nginx-deployment-85c6d5f6dd-6bnqs	1/1	Running	0	4m43s
nginx-deployment-85c6d5f6dd-wrqbz	1/1	Running	0	19s

```
andrej [ ~ ]$
```

Terminal container button

run the following to verify the outcome of scaling the deployment:

```
- kubectl get pods
```

```
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```

```
}
}
```

```
andrej [ ~ ]$ kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION
aks-agentpool-31767509-vmss000000	Ready	agent	17m	v1.24.10
aks-agentpool-31767509-vmss000001	Ready	agent	3m36s	v1.24.10

```
andrej [ ~ ]$
```

run the following to scale the deployment:

- `kubectl scale --replicas=10 deployment/nginx-deployment`

run the following to verify the outcome of scaling the deployment:

- `kubectl get pods`

```
Bash  [v] [power] [?] [gear] [up] [down] [tab] [escape] [copy] [paste]
aks-agentpool-31767509-vmss000001 Ready agent 3m36s v1.24.10
andrej [ ~ ]$ kubectl scale --replicas=10 deployment/nginx-deployment
deployment.apps/nginx-deployment scaled
andrej [ ~ ]$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-85c6d5f6dd-5r8k4   1/1     Running   0           14s
nginx-deployment-85c6d5f6dd-6bnqs   1/1     Running   0           13m
nginx-deployment-85c6d5f6dd-grw9l   1/1     Running   0           14s
nginx-deployment-85c6d5f6dd-j2p4d   1/1     Running   0           14s
nginx-deployment-85c6d5f6dd-jhkjl   1/1     Running   0           14s
nginx-deployment-85c6d5f6dd-mtrcx   1/1     Running   0           15s
nginx-deployment-85c6d5f6dd-snp5r   1/1     Running   0           15s
nginx-deployment-85c6d5f6dd-vtpj4   1/1     Running   0           14s
nginx-deployment-85c6d5f6dd-wrqbz   1/1     Running   0           9m5s
nginx-deployment-85c6d5f6dd-x6wrf   1/1     Running   0           15s
andrej [ ~ ]$
```

run the following to review the pods distribution across cluster nodes:

- `kubectl get pod -o=custom-columns=NODE:.spec.nodeName,POD:.metadata.name`

```
andrej [ ~ ]$ kubectl get pod -o=custom-columns=NODE:.spec.nodeName,POD:.metadata.name
NODE                                POD
aks-agentpool-31767509-vmss000000  nginx-deployment-85c6d5f6dd-5r8k4
aks-agentpool-31767509-vmss000000  nginx-deployment-85c6d5f6dd-6bnqs
aks-agentpool-31767509-vmss000001  nginx-deployment-85c6d5f6dd-grw9l
aks-agentpool-31767509-vmss000001  nginx-deployment-85c6d5f6dd-j2p4d
aks-agentpool-31767509-vmss000000  nginx-deployment-85c6d5f6dd-jhkjl
aks-agentpool-31767509-vmss000001  nginx-deployment-85c6d5f6dd-mtrcx
aks-agentpool-31767509-vmss000001  nginx-deployment-85c6d5f6dd-snp5r
aks-agentpool-31767509-vmss000000  nginx-deployment-85c6d5f6dd-vtpj4
aks-agentpool-31767509-vmss000000  nginx-deployment-85c6d5f6dd-wrqbz
aks-agentpool-31767509-vmss000001  nginx-deployment-85c6d5f6dd-x6wrf
andrej [ ~ ]$
```