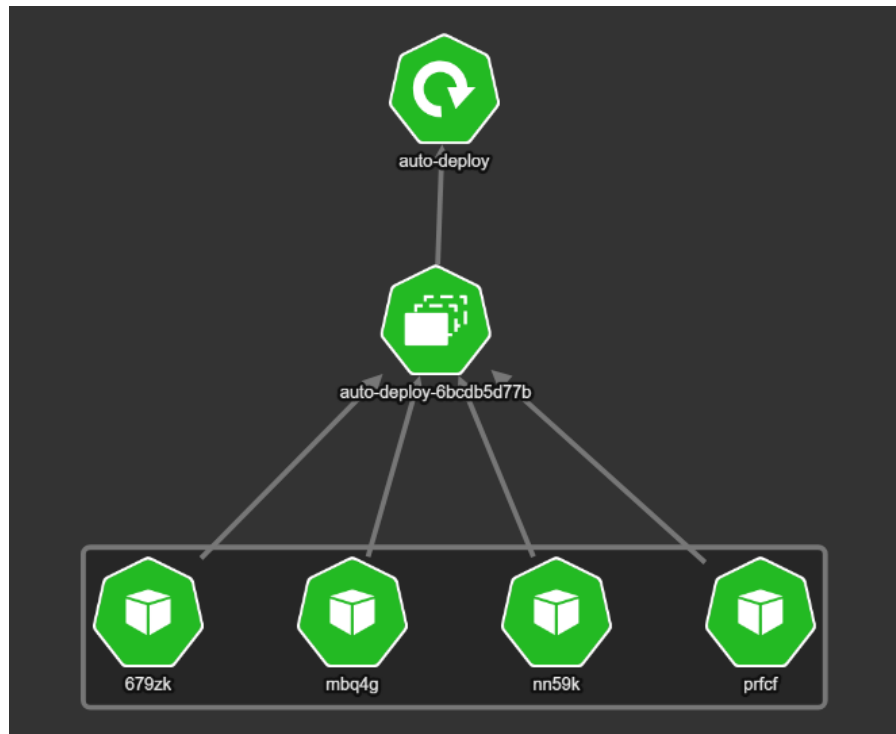


Horizontal auto scaling – deploy



```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: auto-deploy
spec:
  replicas: 4
  selector:
    matchLabels:
      app: Hauto
  template:
    metadata:
      name: nginx
      labels:
        app: Hauto
    spec:
      containers:
        - name: nginx
          image: nginx
          ports:
            - containerPort: 80
```

```

adham@master:/adhamk8s$ vim Hauto-deploy.yml
adham@master:/adhamk8s$
adham@master:/adhamk8s$ kubectl apply -f Hauto-deploy.yml
deployment.apps/auto-deploy created
adham@master:/adhamk8s$
adham@master:/adhamk8s$ kubectl get deploy

```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
auto-deploy	4/4	4	4	16s
deploy-web	3/3	3	3	74m
kubeview	1/1	1	1	24h

```

adham@master:/adhamk8s$
adham@master:/adhamk8s$ kubectl get pod

```

NAME	READY	STATUS	RESTARTS	AGE
auto-deploy-6bcd5d77b-679zk	1/1	Running	0	47s
auto-deploy-6bcd5d77b-mbq4g	1/1	Running	0	47s
auto-deploy-6bcd5d77b-nn59k	1/1	Running	0	47s
auto-deploy-6bcd5d77b-prfcf	1/1	Running	0	47s
deploy-web-6498fd9b8c-78vrn	1/1	Running	0	75m
deploy-web-6498fd9b8c-wgkf7	1/1	Running	0	75m
deploy-web-6498fd9b8c-zk9df	1/1	Running	0	75m
kubeview-78dd597bd8-rskv8	1/1	Running	1 (90m ago)	24h
nginx-pod	1/1	Running	1 (90m ago)	27h
stat-website	1/1	Running	1 (90m ago)	26h

```

adham@master:/adhamk8s$

```

```

adham@node1:~$ kubectl get pod

```

NAME	READY	STATUS	RESTARTS	AGE
auto-deploy-6bcd5d77b-679zk	1/1	Running	0	4m37s
auto-deploy-6bcd5d77b-mbq4g	1/1	Running	0	4m37s
auto-deploy-6bcd5d77b-nn59k	1/1	Running	0	4m37s
auto-deploy-6bcd5d77b-prfcf	1/1	Running	0	4m37s
deploy-web-6498fd9b8c-78vrn	1/1	Running	0	78m
deploy-web-6498fd9b8c-wgkf7	1/1	Running	0	78m
deploy-web-6498fd9b8c-zk9df	1/1	Running	0	78m
kubeview-78dd597bd8-rskv8	1/1	Running	1 (94m ago)	24h
nginx-pod	1/1	Running	1 (94m ago)	27h
stat-website	1/1	Running	1 (94m ago)	26h

```

adham@node1:~$

```

```
apiVersion: autoscaling/v1
kind: HorizontalPodAutoscaler
metadata:
  name: auto
spec:
  scaleTargetRef:
    apiVersion: apps/v1
    kind: Deployment
    name: auto-deploy
  minReplicas: 1
  maxReplicas: 5
  targetCPUUtilizationPercentage: 50
```

```
adham@master:/adhamk8s$ kubectl apply -f Hauto.yml
horizontalpodautoscaler.autoscaling/auto created
```

```
adham@master:/adhamk8s$
```

```
adham@master:/adhamk8s$ kubectl get hpa
```

NAME	REFERENCE	TARGETS	MINPODS	MAXPODS	REPLICAS	AGE
auto	Deployment/auto-deploy	cpu: <unknown>/50%	1	5	4	51s

```
adham@master:/adhamk8s$
```

```
adham@master:/adhamk8s$ kubectl describe deploy auto-deploy | grep auto
```

```
Name:          auto-deploy
```

```
Selector:      app=Hauto
```

```
Labels: app=Hauto
```

```
NewReplicaSet: auto-deploy-6bcd5d77b (4/4 replicas created)
```

```
Normal ScalingReplicaSet 25m deployment-controller Scaled up replica set auto-deploy-6bcd5d77b to 4
```

```
adham@master:/adhamk8s$
```