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Roberts-MBP-2-674:~ myluc$ kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
bloaty-mcbloatface-58c98b98d8-2gk9t 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-2vqkv 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-4b4zb 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-6mndj 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-c29qf 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-cpdjx 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-cxglg 0/1     Pending   0           3m3s
bloaty-mcbloatface-58c98b98d8-fnq27 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-jllw5 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-kd289 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-lhvdv 0/1     Pending   0           3m3s
bloaty-mcbloatface-58c98b98d8-lqnsn 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-mvwvh 0/1     Pending   0           3m4s
bloaty-mcbloatface-58c98b98d8-nkp4k 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-t9bn4 1/1     Running   0           3m4s
bloaty-mcbloatface-58c98b98d8-vwvz7 0/1     Pending   0           3m4s
bloaty-mcbloatface-58c98b98d8-zz5q6 0/1     Pending   0           3m4s
canary-v1-64598c676f-28k5v          1/1     Running   0           5m48s
canary-v1-64598c676f-47zw7          1/1     Running   0           5m48s
canary-v1-64598c676f-4v4dr          1/1     Running   0           5m48s
canary-v1-64598c676f-b5c42          1/1     Running   0           5m48s
green-5cdd96c9b4-4tw4d              1/1     Running   0           5m33s
green-5cdd96c9b4-hbf9v              1/1     Running   0           5m33s
green-5cdd96c9b4-rdxwq              1/1     Running   0           5m33s
hello-world-794458d64d-94j8n        1/1     Running   0           6m4s
Roberts-MBP-2-674:~ myluc$

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Roberts-MBP-2-674:~ myluc$ kubectl describe pod bloaty-mcbloatface-58c98b98d8-zz5q6
Name:          bloaty-mcbloatface-58c98b98d8-zz5q6
Namespace:     udacity
Priority:       0
Service Account: default
Node:          <none>
Labels:        app=bloaty-mcbloatface
               pod-template-hash=58c98b98d8
Annotations:   kubernetes.io/psp: eks.privileged
Status:        Pending
IP:
IPs:           <none>
Controlled By: ReplicaSet/bloaty-mcbloatface-58c98b98d8
Containers:
  nginx:
    Image:      nginx
    Port:       80/TCP
    Host Port:  0/TCP
    Requests:
      cpu:      250m
      memory:   200Mi
    Readiness:  http-get http://:80/ delay=0s timeout=1s period=10s #success=1 #failure=3
    Environment: <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-zt9fv (ro)
Conditions:
  Type          Status
  PodScheduled  False
Volumes:
  kube-api-access-zt9fv:
    Type:      Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds: 3607
    ConfigMapName: kube-root-ca.crt
    ConfigMapOptional: <nil>
    DownwardAPI: true
QoS Class:      Burstable
Node-Selectors: <none>
Tolerations:    node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                 node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
  Type          Reason          Age          From          Message
  ----          -
  Warning       FailedScheduling  81s (x4 over 3m46s)  default-scheduler  0/2 nodes are available: 2 Insufficient cpu.

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Roberts-MBP-2-674:~ myluc\$

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Roberts-MBP-2-674:~ myluc$ eksctl utils associate-iam-oidc-provider \
> --cluster udacity-cluster \
> --approve \
> --region us-east-2
2023-01-21 23:10:12 [i] will create IAM Open ID Connect provider for cluster "udacity-cluster" in "us-east-2"
2023-01-21 23:10:12 [✓] created IAM Open ID Connect provider for cluster "udacity-cluster" in "us-east-2"
Roberts-MBP-2-674:~ myluc$ eksctl create iamserviceaccount --name cluster-autoscaler --namespace kube-system --cluster udacity-cluster --attach-policy-arn
"arn:aws:iam::395071211234:policy/udacity-k8s-autoscale" --approve --region us-east-2
2023-01-21 23:13:46 [i] 1 iamserviceaccount (kube-system/cluster-autoscaler) was included (based on the include/exclude rules)
2023-01-21 23:13:46 [i] serviceaccounts that exist in Kubernetes will be excluded, use --override-existing-serviceaccounts to override
2023-01-21 23:13:46 [i] 1 task: {
  2 sequential sub-tasks: {
    create IAM role for serviceaccount "kube-system/cluster-autoscaler",
    create serviceaccount "kube-system/cluster-autoscaler",
  } }
2023-01-21 23:13:46 [i] building iamserviceaccount stack "eksctl-udacity-cluster-addon-iamserviceaccount-kube-system-cluster-autoscaler"
2023-01-21 23:13:46 [i] deploying stack "eksctl-udacity-cluster-addon-iamserviceaccount-kube-system-cluster-autoscaler"
2023-01-21 23:13:46 [i] waiting for CloudFormation stack "eksctl-udacity-cluster-addon-iamserviceaccount-kube-system-cluster-autoscaler"
2023-01-21 23:14:17 [i] waiting for CloudFormation stack "eksctl-udacity-cluster-addon-iamserviceaccount-kube-system-cluster-autoscaler"
2023-01-21 23:14:17 [i] created serviceaccount "kube-system/cluster-autoscaler"
Roberts-MBP-2-674:~ myluc$ cd udacity-sre/cd1898/
Roberts-MBP-2-674:cd1898 myluc$ kubectl apply -f starter-p3/apps/bloatware/cluster_autoscale.yml
clusterrole.rbac.authorization.k8s.io/cluster-autoscaler created
role.rbac.authorization.k8s.io/cluster-autoscaler created
clusterrolebinding.rbac.authorization.k8s.io/cluster-autoscaler created
rolebinding.rbac.authorization.k8s.io/cluster-autoscaler created
deployment.apps/cluster-autoscaler created
Roberts-MBP-2-674:cd1898 myluc$

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Roberts-MBP-2-674:cd1898 myluc$ kubectl delete -f starter-p3/apps/bloatware/bloatware.yml
deployment.apps "bloaty-mcbloatface" deleted
Roberts-MBP-2-674:cd1898 myluc$ kubectl -n kube-system logs -f deployment/cluster-autoscaler
I0122 05:16:33.304696 1 flags.go:52] FLAG: --add-dir-header="false"
I0122 05:16:33.304951 1 flags.go:52] FLAG: --address=":8085"
I0122 05:16:33.305030 1 flags.go:52] FLAG: --alsologtostderr="false"
I0122 05:16:33.305093 1 flags.go:52] FLAG: --aws-region="us-east-2"

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I0122 05:26:00.146630 1 klogx.go:86] Pod udacity/bloaty-mcbloatface-58c98b98d8-kztxq is unschedulable
I0122 05:26:00.146662 1 scale_up.go:376] Upcoming 0 nodes
I0122 05:26:00.146728 1 scale_up.go:412] Skipping node group eks-app-udacity-node-group-70c2eb8d-d527-492e-e299-bc419ba40860 - max size reached
I0122 05:26:00.146752 1 scale_up.go:453] No expansion options
I0122 05:26:00.146814 1 static_autoscaler.go:448] Calculating unneeded nodes

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EC2 > Auto Scaling groups

Auto Scaling groups (1/1) Info									
<input type="text" value="Search your Auto Scaling groups"/> < 1 > ⚙									
<input checked="" type="checkbox"/>	Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	A..	
<input checked="" type="checkbox"/>	eks-app-udacity-node-group-70c2...	eks-70c2eb8d-d527-492e-e299-bc419b	3	-	3	1	4	us...	

Roberts-MBP-2-674:~ myluc\$ kubectl get pods --all-namespaces

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
kube-system	aws-node-bsqp7	1/1	Running	2	3h57m
kube-system	aws-node-d8qbn	1/1	Running	0	2m20s
kube-system	aws-node-htnnl	1/1	Running	0	65m
kube-system	cluster-autoscaler-d8cc67649-mnvc8	1/1	Running	0	15m
kube-system	coredns-f47955f89-pbq6v	1/1	Running	0	65m
kube-system	coredns-f47955f89-xs9hk	1/1	Running	1	4h2m
kube-system	kube-proxy-bb6qg	1/1	Running	1	3h57m
kube-system	kube-proxy-cbkwx	1/1	Running	0	2m20s
kube-system	kube-proxy-ftxfx	1/1	Running	0	65m
udacity	bloaty-mcbloatface-58c98b98d8-2qkcv	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-5gncj	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-6zjgl	1/1	Running	0	98s
udacity	bloaty-mcbloatface-58c98b98d8-b2s6w	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-dfxwv	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-gr8bh	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-hv2l8	1/1	Running	0	98s
udacity	bloaty-mcbloatface-58c98b98d8-kh75x	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-kwx9c	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-mnshn	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-q6f29	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-srcnt	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-ssw77	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-sxvhh	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-vk9sn	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-x6kxt	1/1	Running	0	99s
udacity	bloaty-mcbloatface-58c98b98d8-zrnrg	1/1	Running	0	99s
udacity	canary-v1-64598c676f-28k5v	1/1	Running	0	30m
udacity	canary-v1-64598c676f-47zw7	1/1	Running	0	30m
udacity	canary-v1-64598c676f-4v4dr	1/1	Running	0	30m
udacity	canary-v1-64598c676f-bsc42	1/1	Running	0	30m
udacity	green-5cdd96c9b4-4tw4d	1/1	Running	0	30m
udacity	green-5cdd96c9b4-hbf9v	1/1	Running	0	30m
udacity	green-5cdd96c9b4-rdxwq	1/1	Running	0	30m
udacity	hello-world-794458d64d-94j8n	1/1	Running	0	30m