

```

❯ help
Invalid choice: 'configures', maybe you meant:
  * configure

ubuntu@ip-172-31-19-51:~$ aws configure
AWS Access Key ID [None]: AKIA4S4YAMGAI2Y4UKADD
AWS Secret Access Key [None]:
Default region name [None]:
Default output format [None]:
ubuntu@ip-172-31-19-51:~$ aws configure
AWS Access Key ID [AKIA4S4YAMGAI2Y4UKADD]:
AWS Secret Access Key [None]: ynpvVwBXmmIBHw0ZcXjwevXELl5pdzKcKefO0Be2c
Default region name [None]: us-east-1
Default output format [None]: json
ubuntu@ip-172-31-19-51:~$ eksctl create cluster --name project5 \
--region us-east-1 \
--node-type t2.micro
[⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏][⠏]D2025-03-20 09:54:50 [i]   eksctl version 0.205.0
2025-03-20 09:54:50 [i]   using region us-east-1
2025-03-20 09:54:50 [i]   setting availability zones to [us-east-1a us-east-1b]
2025-03-20 09:54:50 [i]   subnets for us-east-1a - public:192.168.0.0/19 private:192.168.64.0/19
2025-03-20 09:54:50 [i]   subnets for us-east-1b - public:192.168.32.0/19 private:192.168.96.0/19
2025-03-20 09:54:50 [i]   nodegroup "ng-S4e45edd" will use "" [AmazonLinux2/1.30]
2025-03-20 09:54:50 [i]   using Kubernetes version 1.30
2025-03-20 09:54:50 [i]   creating EKS cluster "project5" in "us-east-1" region with managed nodes
2025-03-20 09:54:50 [i]   will create 2 separate CloudFormation stacks for cluster itself and the initial managed nodegroup
2025-03-20 09:54:50 [i]   if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=us-east-1 --cluster
secret-stack'

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aws eks --region us-east-1 describe-fargate-profile --profile-name fargate-profile --cluster-name eks-cluster
025-03-20 10:08:36 [✓] EKS cluster "project5" in "us-east-1" region is ready
buntu@ip-172-31-19-51:~$ kubectl get nodes
NAME                                STATUS    ROLES    AGE   VERSION
p-192-168-10-244.ec2.internal       Ready    <none>   2m24s v1.30.9-eks-5d632ec
p-192-168-38-119.ec2.internal       Ready    <none>   2m25s v1.30.9-eks-5d632ec
buntu@ip-172-31-19-51:~$ kubectl create deployment k8st1 --image=nginx --port=80
deployment.apps/k8st1 created
buntu@ip-172-31-19-51:~$ kubectl get pods
NAME                                READY    STATUS    RESTARTS   AGE
k8st1-c9d9f59f6-2q78h              0/1      Pending   0           16s
buntu@ip-172-31-19-51:~$ kubectl get pods
NAME                                READY    STATUS    RESTARTS   AGE
k8st1-c9d9f59f6-2q78h              0/1      Pending   0           42s
buntu@ip-172-31-19-51:~$ kubectl describe pod k8st1-c9d9f59f6-2q78h
Name:                               k8st1-c9d9f59f6-2q78h
Namespace:                         default
Priority:                           0
Node:                               <none>
Labels:                             app=k8st1
                                     pod-template-hash=c9d9f59f6
Annotations:                       <none>
Status:                             Pending
IP:                                 <none>
IP Address:                         <none>
Controlled By:                      ReplicaSet/k8st1-c9d9f59f6
Containers:
  nginx:
    Image:          nginx
    Port:           80/tcp
    Host Port:      0/tcp

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node.kubernetes.io/unreacheable:NoExecute op=Exists for 300s
Events:
  Type            Reason              Age             From              Message
  ----            -
Warning FailedScheduling 102s            default-scheduler 0/2 nodes are available: 2 Too many pods, preemption: 0/2 nodes are available: 2 No preemption victims found for incoming pod.
buntu@ip-172-31-19-51:~$ kubectl get nodes
NAME                                STATUS    ROLES    AGE     VERSION
ip-192-168-10-244.ec2.internal      Ready    <none>   8m24s   v1.30.9-eks-5d632ec
ip-192-168-38-119.ec2.internal      Ready    <none>   8m25s   v1.30.9-eks-5d632ec
buntu@ip-172-31-19-51:~$ kubectl get pods
NAME                                READY     STATUS    RESTARTS   AGE
k8s1-c9d9f59f6-2q78h               0/1       Pending   0           2m23s
buntu@ip-172-31-19-51:~$ kubectl get pods -o wide
NAME                                READY     STATUS    RESTARTS   AGE    IP             NODE             NOMINATED NODE   READINESS GATES
k8s1-c9d9f59f6-2q78h               0/1       Pending   0           2m53s   <none>         <none>           <none>           <none>
buntu@ip-172-31-19-51:~$ kubectl delete deployment k8s1
deployment.apps "k8s1" deleted
buntu@ip-172-31-19-51:~$ kubectl get pods
No resources found in default namespace.
buntu@ip-172-31-19-51:~$ kubectl create deployment k8s1 --image=nginx:alpine --port=80
deployment.apps/k8s1 created
buntu@ip-172-31-19-51:~$ kubectl get pods
NAME                                READY     STATUS    RESTARTS   AGE
k8s1-5d8dbf8cd9-1pxxb              0/1       Pending   0           11s
buntu@ip-172-31-19-51:~$ kubectl get pods
NAME                                READY     STATUS    RESTARTS   AGE
k8s1-5d8dbf8cd9-1pxxb              0/1       Pending   0           48s
buntu@ip-172-31-19-51:~$ kubectl describe pod k8s1-5d8dbf8cd9-1pxxb
Name:          k8s1-5d8dbf8cd9-1pxxb
Namespace:     default
```

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node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
Type      Reason            Age   From      Message
-----
Warning   FailedScheduling  102s  default-scheduler  0/2 nodes are available: 2 Too many pods. preemption: 0/2 nodes are available: 2 No preemption victims found for incoming pod.
buntu@ip-172-31-19-51:~$ kubectl get nodes
NAME                                STATUS    ROLES    AGE   VERSION
p-192-168-10-244.ec2.internal        Ready     <none>    8m24s v1.30.9-eks-5d632ec
p-192-168-38-119.ec2.internal        Ready     <none>    8m25s v1.30.9-eks-5d632ec
buntu@ip-172-31-19-51:~$ kubectl get pods
NAME                                STATUS    RESTARTS   AGE
k8st1-c9d9f59f6-2q78h              0/1      Pending    0        2m23s
buntu@ip-172-31-19-51:~$ kubectl get pods -o wide
NAME                                STATUS    RESTARTS   AGE   IP          NODE          NOMINATED NODE   READINESS GATES
k8st1-c9d9f59f6-2q78h              0/1      Pending    0        2m53s    <none>        <none>        <none>          <none>
buntu@ip-172-31-19-51:~$ kubectl delete deployment k8st1
deployment.apps "k8st1" deleted
buntu@ip-172-31-19-51:~$ kubectl get pods
No resources found in default namespace.
buntu@ip-172-31-19-51:~$ kubectl create deployment k8st1 --image=nginx:alpine --port=80
deployment.apps/k8st1 created
buntu@ip-172-31-19-51:~$ kubectl get pods
NAME                                STATUS    RESTARTS   AGE
k8st1-5d8dbf8cd9-lpxxb             0/1      Pending    0        11s
buntu@ip-172-31-19-51:~$ kubectl get pods
NAME                                STATUS    RESTARTS   AGE
k8st1-5d8dbf8cd9-lpxxb             0/1      Pending    0        48s
buntu@ip-172-31-19-51:~$ kubectl describe pod k8st1-5d8dbf8cd9-lpxxb
Name:          k8st1-5d8dbf8cd9-lpxxb
Namespace:     default
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Warning FailedScheduling 48s (x3 over 10m) default-scheduler 0/2 nodes are available: 2 Too many pods. preemption: 0/2 nodes are available: 2 No preemption victims found for incoming pod.
buntu@ip-172-31-19-51:~$ kubectl describe deployment k8st1
Name:          k8st1
Namespace:     default
CreationTimestamp: Thu, 20 Mar 2025 10:17:42 +0000
Labels:        app=k8st1
Annotations:    deployment.kubernetes.io/revision: 1
Selector:      app=k8st1
Replicas:      1 desired | 1 updated | 1 total | 0 available | 1 unavailable
StrategyType:  RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=k8st1
  Containers:
    nginx:
      Image:      nginx:alpine
      Port:       80/TCP
      Host Port:  0/TCP
      Environment: <none>
      Mounts:      <none>
      Volumes:     <none>
  Conditions:
    Type           Status  Reason
    ----           -
    Available      False   MinimumReplicasUnavailable
    Progressing    False   ProgressDeadlineExceeded
  OldReplicaSets: <none>
```