```
Default output format [json]:
vignesh@Vignesh eks-setup % aws eks list-clusters
{
    "clusters": []
}
vignesh@Vignesh eks-setup %
```

HATHY-CIASTEL-AS IN ab-south-I teaton is teans

deployment.apps/nginx-deployment created vignesh@Vignesh Desktop %

vignesh@Vignesh Desktop % kubectl apply -f nginx-deployment.yaml

Vignesnevignesn Desktop % kubecti get nodes

NAME
ip-192-168-19-130.ap-south-1.compute.internal ip-192-168-82-135.ap-south-1.compute.internal ip-192-135.ap-south-1.compute.internal ip-192-135.ap-south-1.compute.internal ip-192-135.ap-south-1.compute.internal ip-192-135.ap-south-1.compute.internal ip-192-135.ap-south-1.compute.internal ip-192-135.ap-south-1.compute.internal ip-192-135.ap-south-1.compute.internal ip-192-135.ap-south-1

```
nginx-depioyment 0/2
                                                      22S
[vignesh@Vignesh Desktop % kubectl get pods
                                   READY
                                           STATUS
                                                      RESTARTS
                                                                 AGE
                                           Pending
nginx-deployment-96b9d695-4clwk
                                   0/1
                                                      a
                                                                 39s
nginx-deployment-96b9d695-ppqtj
                                   0/1
                                           Pending
                                                      0
                                                                 39s
vignesh@Vignesh Desktop %
```

```
nginx-deployment-96b9d695-ppqtj
                                  0/1
                                          Pending
vignesh@Vignesh Desktop % kubectl get pods
NAME
                                  READY
                                          STATUS
                                                     RESTARTS
                                                                AGE
nginx-deployment-96b9d695-4clwk
                                  0/1
                                          Pending
                                                                69s
nginx-deployment-96b9d695-ppqtj
                                  0/1
                                          Pending
                                                     0
                                                                69s
vignesh@Vignesh Desktop % nano nginx-service.yaml
vignesh@Vignesh Desktop % kubectl apply -f nginx-service.yaml
```

service/nginx-service created vignesh@Vignesh Desktop % ■

```
2025-06-08 09:33:38 [i]
2 sequential tasks: { delete nodegroup "ng-nodes", delete cluster control plane "nginx-cluster-v2" [async] }
2025-06-08 09:33:38 [i] will delete stack "eksctl-nginx-cluster-v2-nodegroup-ng-nodes"
2025-06-08 09:33:38 [i] waiting for stack "eksctl-nginx-cluster-v2-nodegroup-ng-nodes" to get deleted 2025-06-08 09:33:38 [i] waiting for CloudFormation stack "eksctl-nginx-cluster-v2-nodegroup-ng-nodes" 2025-06-08 09:34:09 [i] waiting for CloudFormation stack "eksctl-nginx-cluster-v2-nodegroup-ng-nodes" 2025-06-08 09:34:158 [i] waiting for CloudFormation stack "eksctl-nginx-cluster-v2-nodegroup-ng-nodes" 2025-06-08 09:36:12 [i] waiting for CloudFormation stack "eksctl-nginx-cluster-v2-nodegroup-ng-nodes" 2025-06-08 09:36:12 [i] will delete stack "eksctl-nginx-cluster-v2-cluster" 2025-06-08 09:36:12 [i] will delete stack "eksctl-nginx-cluster-v2-cluster" 2025-06-08 09:36:12 [i] all cluster resources were deleted vignesh@Vignesh Desktop % eksctl create cluster \ --nodegroup-name ng-nodes \ --nodes 2 \ --nodes-max 3 \ --nodes-max 3 \ --nodes-max 3 \ --managed
```

```
vignesh@Vignesh Desktop % eksctl create cluster \
            name nginx-cluster
      --region ap-south-1 \
       --nodegroup-name ng-nodes \
      --nodes 2 \
--node-type t3.medium \
      --nodes-min 2 \
--nodes-max 3 \
--managed
2025-06-08 09:39:38 [i]
2025-06-08 09:39:38 [i]
2025-06-08 09:39:39 [i]
2025-06-08 09:39:39 [i]
                                                      [i] eksctl version 0.210.0
[i] using region ap-south-1
[i] setting availability zones to [ap-south-1c ap-south-1b ap-south-1a]
[ii] subnets for ap-south-1c - public:192.168.0.0/19 private:192.168.96.0/19
[ii] subnets for ap-south-1b - public:192.168.32.0/19 private:192.168.128.0/19
[ii] subnets for ap-south-1a - public:192.168.34.0/19 private:192.168.128.0/19
[ii] using kubernetes version 1.32
[ii] using kubernetes version 1.32
[ii] using kubernetes version 1.32
[ii] vill create 2 separate CloudFormation stacks for cluster itself and the initial managed nodegroup
[ii] if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=ap-south-1
[ii] Kubernetes API endpoint access will use default of (publicAccess=true, privateAccess=false) for cluster "nginx-clu
[ii] CloudWatch logging will not be enabled for cluster "nginx-cluster" in "ap-south-1"
[ii] you can enable it with 'eksctl utils update-cluster-logging --enable-types=(SPECIFY-YOUR-LOG-TYPES-HERE (e.g. all))
[ii] default addons kube-proxy, coredns, metrics-server, vpc-cni were not specified, will install them as EKS addons
                                                                     eksctl version 0.210.0
 2025-06-08 09:39:39
2025-06-08 09:39:39
2025-06-08 09:39:39
 2025-06-08 09:39:39
2025-06-08 09:39:39
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 2025-06-08 09:39:39
2025-06-08 09:39:39
2025-06-08 09:39:39
 2025-06-08 09:39:39 [i]
2025-06-08 09:39:39 [1]
2 sequential tasks: { create cluster control plane "nginx-cluster",
2 sequential sub-tasks: {
2 sequential sub-tasks: {
1 task: { create addons },
wait for control plane to become ready,
                      create managed nodegroup "ng-nodes",
           7
 2025-06-08 09:39:39 [i] building cluster stack "eksctl-nginx-cluster-cluster"
                                                                   building cluster stack "eksctl-nginx-cluster-cluster" deploying stack "eksctl-nginx-cluster-cluster" waiting for CloudFormation stack "eksctl-nginx-cluster-cluster" creating addon: kube-proxy successfully created addon: kube-proxy creating addon: coredns
 2025-06-08 09:39:40 [i]
2025-06-08 09:40:10 [i]
2025-06-08 09:40:40 [i]
2025-06-08 09:41:41 [i]
 2025-06-08 09:42:41
 2025-06-08 09:42:41
2025-06-08 09:43:42
2025-06-08 09:44:42
2025-06-08 09:45:43
2025-06-08 09:45:43
2025-06-08 09:56:56
2025-06-08 09:56:58
2025-06-08 09:56:59
2025-06-08 09:56:59
2025-06-08 09:56:59
2025-06-08 09:57:00
2025-06-08 09:57:00
2025-06-08 09:57:00
                                                                     creating addon: coredns
successfully created addon: coredns
                                                              creating addon: metrics—server

successfully created addon: metrics—server

recommended policies were found for "vpc-cni" addon, but since OIDC is disabled on the cluster, eksctl cannot confions; after addon creation is completed, add all recommended policies to the config file, under `addon.PodIdentityAss
pod identity associat
2025-06-08 09:57:01 [i
2025-06-08 09:57:01 [i
2025-06-08 09:59:03 [i
2025-06-08 09:59:04 [i
                                                                     creating addon: vpc-cni
successfully created addon: vpc-cni
                                                                    successfully created addon: vpc-cni building managed nodegroup stack "eksctl-nginx-cluster-nodegroup-ng-nodes" deploying stack "eksctl-nginx-cluster-nodegroup-ng-nodes" waiting for CloudFormation stack "eksctl-nginx-cluster-nodegroup-ng-nodes" waiting for the control plane to become ready saved kubeconfig as "/Users/vignesh/.kube/config"
 2025-06-08 09:59:04
2025-06-08 09:59:34
2025-06-08 10:00:33
2025-06-08 10:04:07
 2025-06-08 10:04:08
2025-06-08 10:04:08
 2025-06-08 10:04:08
 2025-06-08 10:04:08
2025-06-08 10:04:08
                                                                      all EKS cluster resources for "nginx-cluster" have been created
                                                                    nodegroup "ng-nodes" has 2 node(s)
node "ip-192-168-28-81.ap-south-1.compute.internal" is ready
node "ip-192-168-87-92.ap-south-1.compute.internal" is ready
waiting for at least 2 node(s) to become ready in "ng-nodes"
nodegroup "ng-nodes" has 2 node(s)
 2025-06-08 10:04:08
 2025-06-08 10:04:08
2025-06-08 10:04:08
2025-06-08 10:04:08
2025-06-08 10:04:08
                                                                    nodegroup "ng-nodes" has 2 node(s)
node "ip-192-168-28-81.ap-south-1.compute.internal" is ready
node "ip-192-168-87-92.ap-south-1.compute.internal" is ready
created 1 managed nodegroup(s) in cluster "nginx-cluster"
kubectl command should work with "/Users/vignesh/.kube/config", try 'kubectl get nodes'
EKS cluster "nginx-cluster" in "ap-south-1" region is ready
 2025-06-08 10:04:08
2025-06-08 10:04:08
 2025-06-08 10:04:08
 2025-06-08 10:04:09
 vignesh@Vignesh Desktop % ■
 2025-06-08 10:04:08 [i] node "ip-192-168-87-92.ap-south-1.compute.internal" is ready
 2025-06-08 10:04:08 [] created 1 managed nodegroup(s) in cluster "nginx-cluster"
2025-06-08 10:04:09 [i] kubectl command should work with "/Users/vignesh/.kube/config", try 'kubectl get nodes'
2025-06-08 10:04:09 [] EKS cluster "nginx-cluster" in "ap-south-1" region is ready
 vignesh@Vignesh Desktop % kubectl get nodes
                                                                                                                                                              STATUS
                                                                                                                                                                                            ROLES
                                                                                                                                                                                                                           AGE
                                                                                                                                                                                                                                                     VERSION
 NAME
 ip-192-168-28-81.ap-south-1.compute.internal
                                                                                                                                                              Ready
                                                                                                                                                                                             <none>
                                                                                                                                                                                                                           3m54s
                                                                                                                                                                                                                                                     v1.32.3-eks-473151a
                                                                                                                                                                                                                                                     v1.32.3-eks-473151a
  ip-192-168-87-92.ap-south-1.compute.internal
                                                                                                                                                               Ready
                                                                                                                                                                                              <none>
                                                                                                                                                                                                                           3m55s
 [vignesh@Vignesh Desktop % nano nginx-deployment.yaml
 vignesh@Vignesh Desktop % kubectl apply -f nginx-deployment.yaml
 deployment.apps/nginx-deployment created
  service/nginx-service created
 vignesh@Vignesh Desktop %
```

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to $\underline{nginx.org}.$ Commercial support is available at $\underline{nginx.com}.$

Thank you for using nginx.

```
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.
For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.
<em>Thank you for using nginx.</em>
</body>
</html>
vignesh@Vignesh Desktop %
```