



DIY Amazon EKS with eksctl

요리조리 eksctl

SA 임지훈



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01.

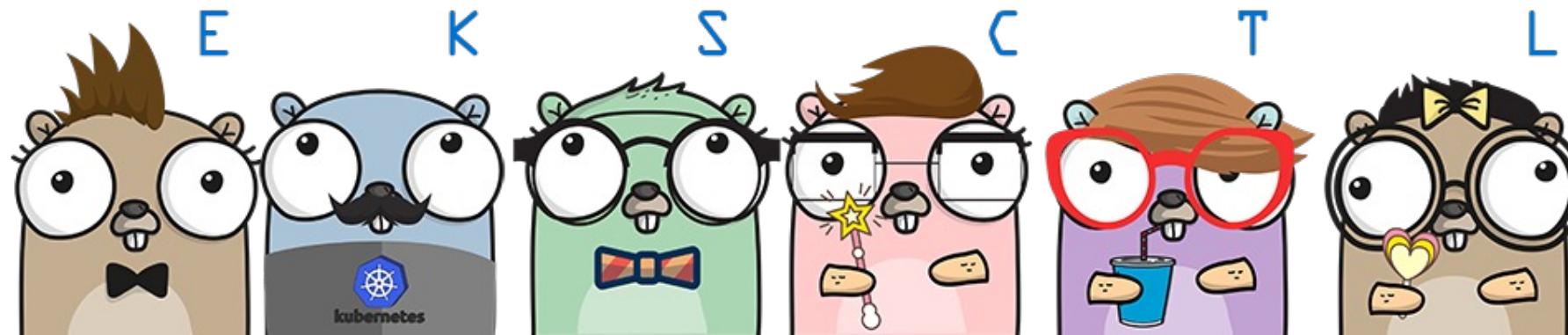
Intro

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Intro

eksctl

What is eksctl?



eksctl - The official CLI for Amazon EKS

sponsored by  **weaveworks** and built by   on 

 **New for 2022**

`eksctl` now supports creating clusters and nodegroups on [AWS Outposts](#).

`eksctl` is a simple CLI tool for creating and managing clusters on EKS - Amazon's managed Kubernetes service for EC2. It is written in Go, uses CloudFormation, was created by [Weaveworks](#) and it welcomes contributions from the community. Create a basic cluster in minutes with just one command:

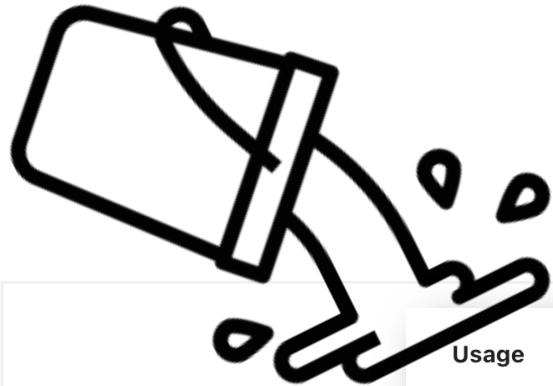
weaveworks/eksctl

<https://github.com/weaveworks/eksctl/tree/main/examples>



main / eksctl / examples / Go to file

cPu1 Add support for placement groups in Outposts		
	b246cbe last week	History
..		
01-simple-cluster.yaml	change cluster logging api to update-cluster-logging --enable-types	3 years ago
02-custom-vpc-cidr-no-nodes.yaml	allow privateonly network configuration	2 years ago
03-two-nodegroups.yaml	Remove unnecessary example, update cluster names (#3106)	2 years ago
04-existing-vpc.yaml	removed typos from code and updated core maintainer list (#5561)	5 months ago
05-advanced-nodegroups.yaml	Update example for setting taints	last year
06-csi-drivers.yaml	Update API version	3 years ago
07-ssh-keys.yaml	Update SSH docs (#3233)	2 years ago
08-spot-instances.yaml	Accept InstanceDistribution with one instance type.	3 years ago
09-nat-gateways.yaml	update nat gateways example	3 years ago
10-encrypted-volumes.yaml	removed typos from code and updated core maintainer list (#5561)	5 months ago
11-cloudwatch-cluster-logging.yaml	Add example for setting logRetentionInDays	last year
12-gitops-toolkit.yaml	Update flux 2 example yaml	last year
13-iamserviceaccounts.yaml	Support constructing an IRSA with well known policies for EFS CSI driver	last year
14-windows-nodes.yaml	Add support for Windows IPAM	last year
15-managed-nodes.yaml	Revert "Hide UpdateConfig feature (#3898)"	last year
16-fargate-profile.yaml	Support tags for fargate profile	2 years ago
17-permissions-boundary.yaml	Permissions Boundary	3 years ago



Record of intent

A Kubernetes object is a "record of intent"



- Usage
 - Clusters
 - Creating and managing clusters
 - AWS Outposts Support
 - Non eksctl-created clusters
 - Registering non-EKS clusters with EKS Connector
 - Customizing kubelet configuration
 - CloudWatch logging
 - EKS Fully-Private Cluster
 - Addons
 - Enabling Access for Amazon EMR
 - EKS Fargate Support
 - Cluster upgrades
 - Default add-on updates
 - Nodegroups
 - >
 - GitOps
 - >
 - Security
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 - Networking
 - >
 - IAM
 - >
 - Dry Run
 - >

Using Config Files

You can create a cluster using a config file instead of flags.

First, create `cluster.yaml` file:

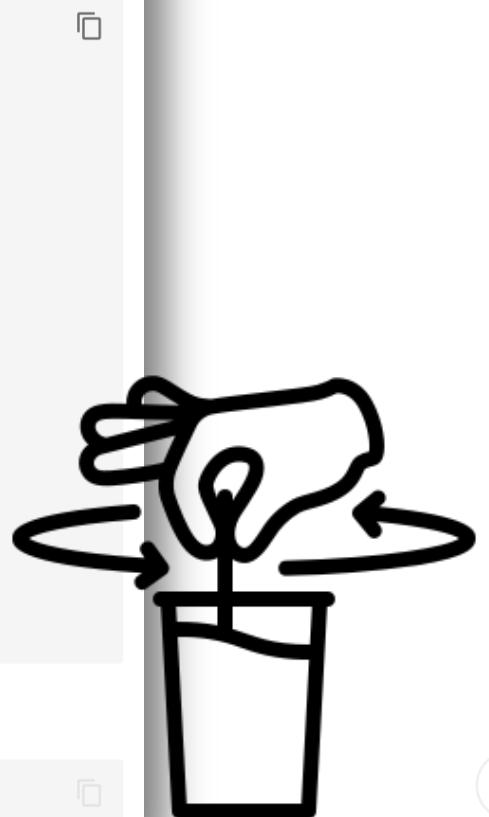
```
apiVersion: eksctl.io/v1alpha5
kind: ClusterConfig

metadata:
  name: basic-cluster
  region: eu-north-1

nodeGroups:
  - name: ng-1
    instanceType: m5.large
    desiredCapacity: 10
    volumeSize: 80
    ssh:
      allow: true # will use ~/.ssh/id_rsa.pub as the default ssh key
  - name: ng-2
    instanceType: m5.xlarge
    desiredCapacity: 2
    volumeSize: 100
    ssh:
      publicKeyPath: ~/.ssh/ec2_id_rsa.pub
```

Next, run this command:

```
eksctl create cluster -f cluster.yaml
```



2

Basic



Default command

eksctl: Amazon EKS Cluster with One Command

```
eksctl create cluster \
--name default-cluster \
--region ap-northeast-2 \
--nodegroup-name default \
--node-type t2.micro \
--nodes 2
```

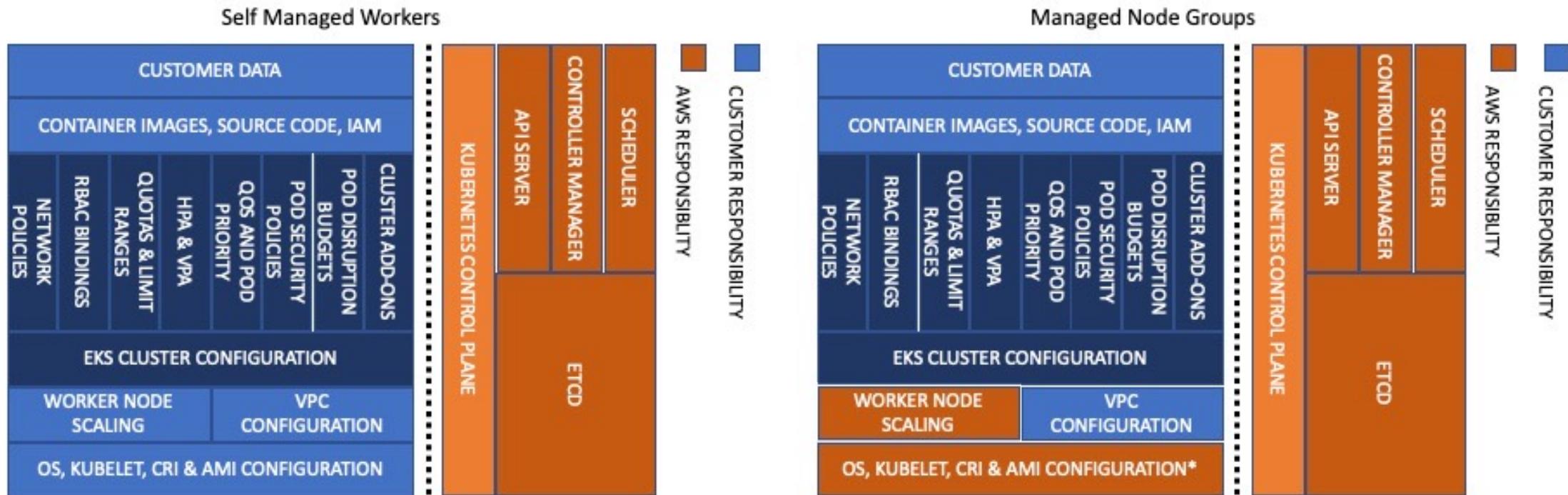
CloudFormation > Stacks

Stacks (2)				
	Stack name	Status	Created time	Description
<input type="radio"/>	eksctl-default-cluster-nodegroup-default	CREATE_COMPLETE	2022-12-22 16:28:44 UTC+0900	EKS Managed Nodes (SSH access: false) [created by eksctl]
<input type="radio"/>	eksctl-default-cluster-cluster	CREATE_COMPLETE	2022-12-22 16:15:38 UTC+0900	EKS cluster (dedicated VPC: true, dedicated IAM: true) [created and managed by eksctl]

Understanding the Shared Responsibility Model



<https://aws.github.io/aws-eks-best-practices/security/docs/>



Default command

CloudFormation – Outputs (Cluster)



Outputs (12)			
Key		Value	Description
Key	Value	Description	Export name
ClusterSecurityGroupId	sg-0339f2643d88607b5	-	eksctl-default-cluster-cluster::ClusterSecurityGroupId
ClusterStackName	eksctl-default-cluster-cluster	-	-
Endpoint	https://C3D3DE2A2C31F327CB1FA494CF1B8143.gr7.ap-northeast-2.eks.amazonaws.com	-	eksctl-default-cluster-cluster::Endpoint
FeatureNATMode	Single	-	-
SecurityGroup	sg-0e18b2fdbcc6639afd	-	eksctl-default-cluster-cluster::SecurityGroup
ServiceRoleARN	arn:aws:iam:::role/eksctl-default-cluster-cluster-ServiceRole-1MHVPZ7GDP4W8	-	eksctl-default-cluster-cluster::ServiceRoleARN
SharedNodeSecurityGroup	sg-09698666e16efe856	-	eksctl-default-cluster-cluster::SharedNodeSecurityGroup
SubnetsPrivate	subnet-0842971328fe7c4d4,subnet-0b59a269719322a10	-	eksctl-default-cluster-cluster::SubnetsPrivate
SubnetsPublic	subnet-094794d5a2bd144a8,subnet-0d2fcb5631ce56a20	-	eksctl-default-cluster-cluster::SubnetsPublic
VPC	vpc-0dde8e7a4569672e0	-	eksctl-default-cluster-cluster::VPC

Default command

CloudFormation – Outputs (Nodegroup)



eksctl-default-cluster-nodegroup-default

Delete Update Stack actions ▾ Create stack ▾

Stack info Events Resources Outputs Parameters Template Change sets

Resources (3)

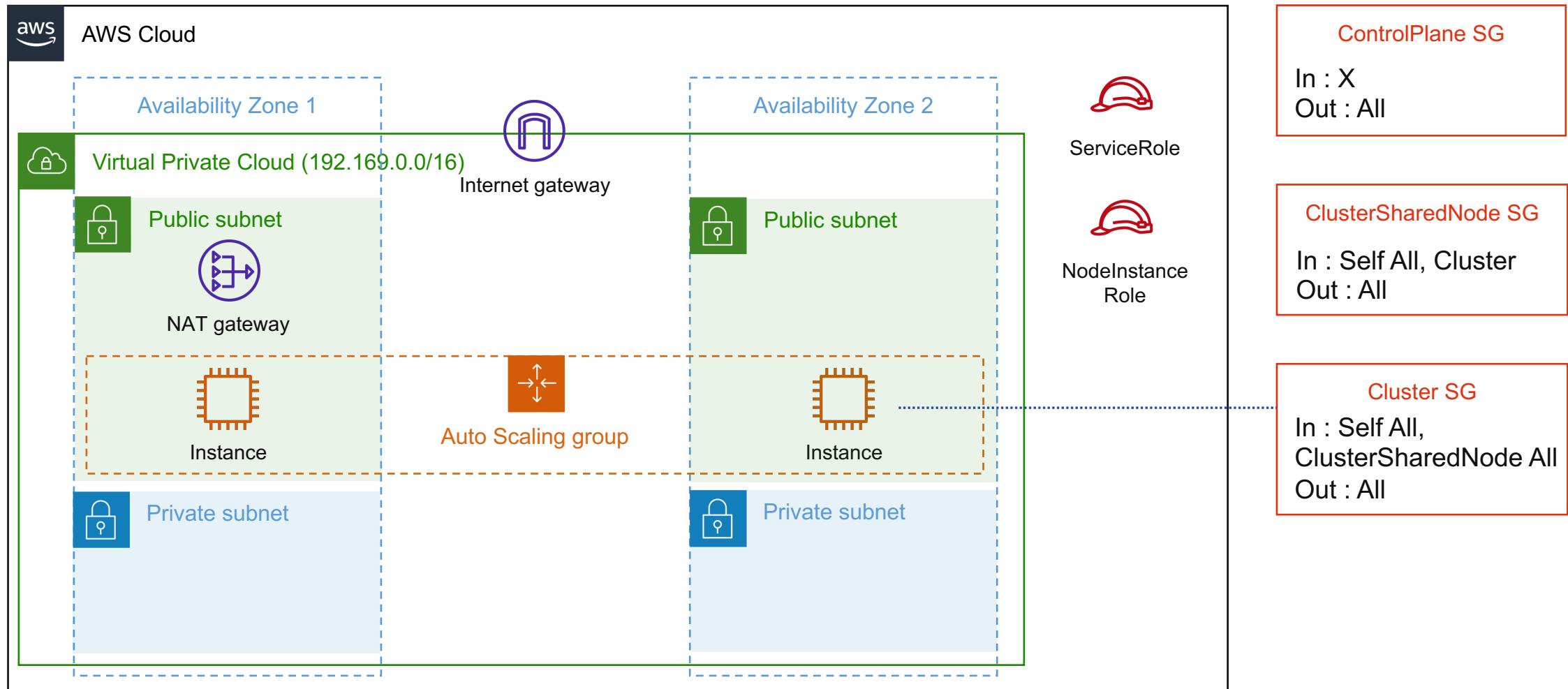
Search resources



Logical ID	Physical ID	Type	Status	Module
LaunchTemplate	lt-02cf8c762385d0cc1	AWS::EC2::LaunchTemplate	✓ CREATE_COMPLETE	-
ManagedNodeGroup	default-cluster/default	AWS::EKS::Nodegroup	✓ CREATE_COMPLETE	-
NodeInstanceRole	eksctl-default-cluster-nodegroup-NodeInstanceRole-13SD1CXSVXNUA	AWS::IAM::Role	✓ CREATE_COMPLETE	-

Architecture (default)

AWSKRUG



Security Groups (default)

https://docs.aws.amazon.com/ko_kr/eks/latest/userguide/sec-group-reqs.html



Security Groups (3) [Info](#)

 Filter security groups

search: eks [X](#) [Clear filters](#)

<input type="checkbox"/>	Name	▼	Security group ID	▼	Description	▼
<input type="checkbox"/>	eksctl-default-cluster-cluster/ControlPlaneSecurityGroup		sg-0e18b2fdb6639af		Communication between the control plane and worker nodegroups	
<input type="checkbox"/>	eksctl-default-cluster-cluster/ClusterSharedNodeSecurityGroup		sg-09698666e16efe85		Communication between all nodes in the cluster	
<input type="checkbox"/>	eks-cluster-sg-default-cluster-372376978		sg-0339f2643d88607b5		EKS created security group applied to ENI that is attached to EKS Control Plane master nodes, as well as any managed workloads.	

Cluster security group [Info](#)
sg-0339f2643d88607b5 [Edit](#)

Additional security groups
sg-0e18b2fdb6639af [Edit](#)

API server endpoint access

[Info](#)

[Public](#)

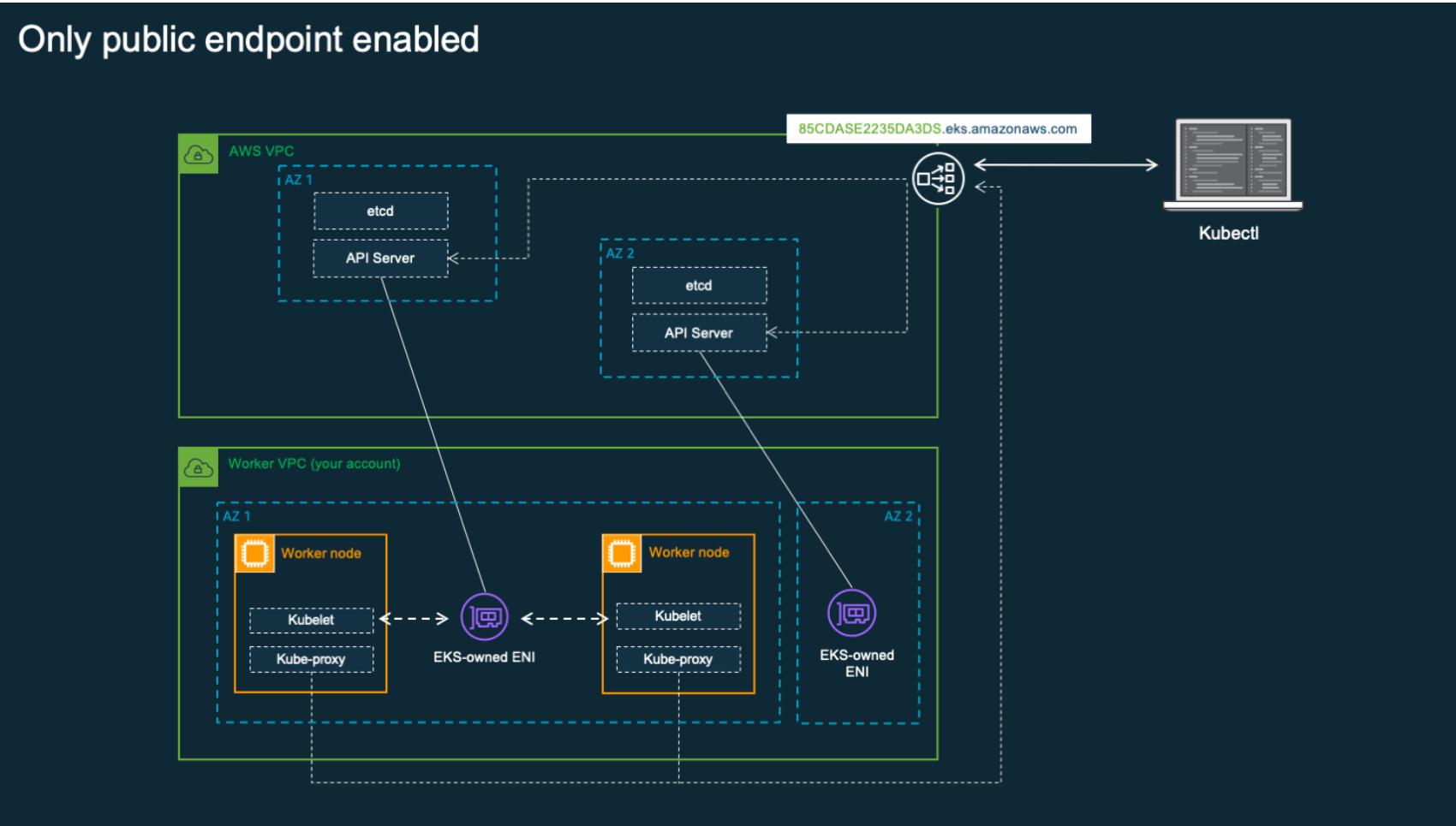
Public access source allowlist
0.0.0.0/0 (open to all traffic)

```
"sourceIPAddress": "eks.amazonaws.com",
"userAgent": "eks.amazonaws.com",
"requestParameters": {
    "groupName": "eks-cluster-sg-default-cluster",
    "groupDescription": "EKS created security group",
    "vpcId": "vpc-0dde8e7a4569672e0"
},
```

EKS Cluster Architecture



<https://aws.amazon.com/ko/blogs/containers/de-mystifying-cluster-networking-for-amazon-eks-worker-nodes/>

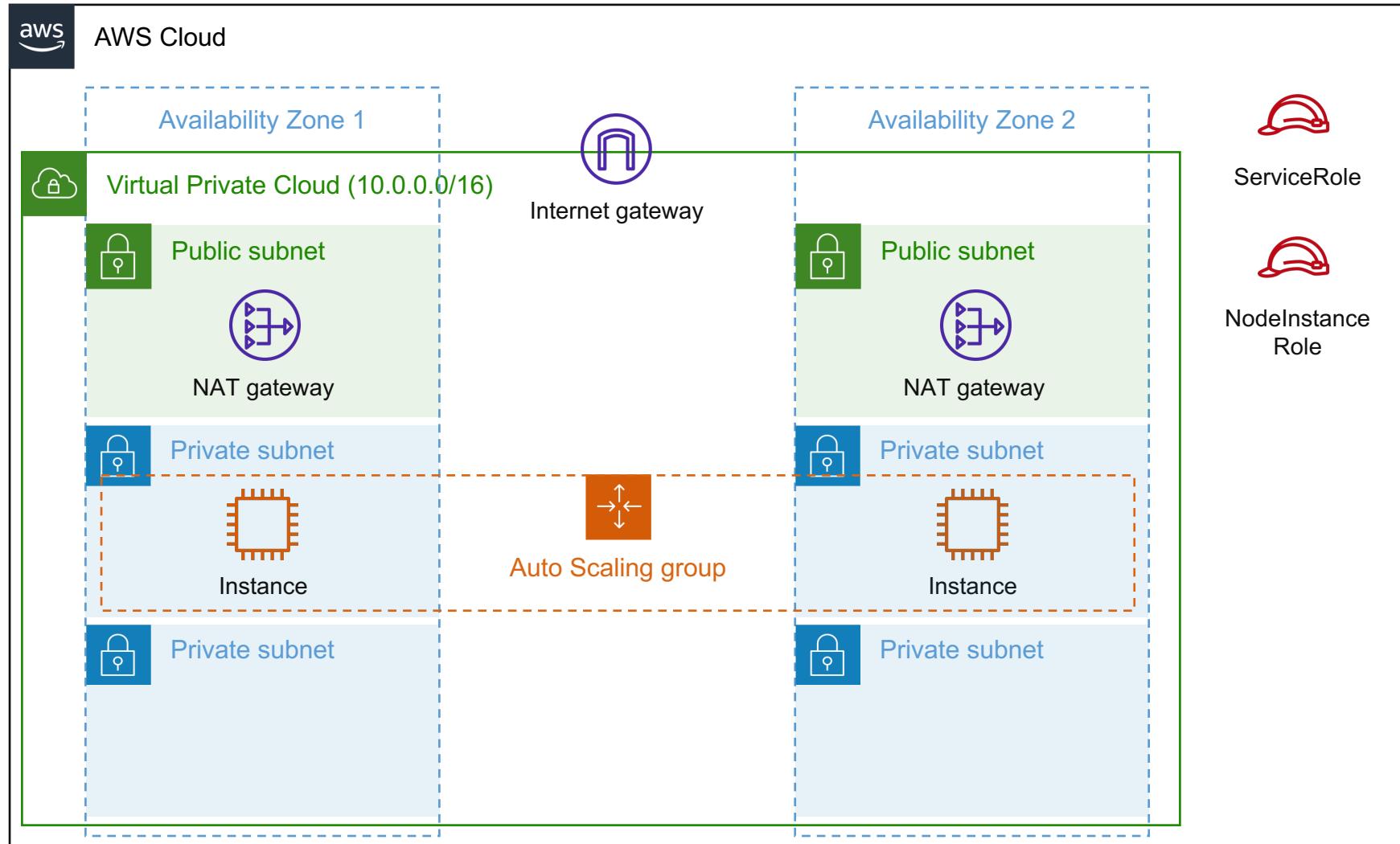


3

Advanced

Architecture (3-Tier)

AWSKRUG



Unmanaged

AWSKRUG

```
# eksctl create cluster -f 01-unmanaged.yaml --dry-run
---
apiVersion: eksctl.io/v1alpha5
kind: ClusterConfig
metadata:
  name: demo
  region: ap-northeast-2
vpc:
  id: "<VPC ID>"
  clusterEndpoints:
    privateAccess: true
  subnets:
    private:
      private1:
        id: "<Subnet ID>"
      private2:
        id: "<Subnet ID>"
nodeGroups:
- name: my-nodegroup
  instanceType: t3.micro
  desiredCapacity: 1
  subnets:
    - <Subnet ID>
    - <Subnet ID>
```

Tags



Key	Value
aws:cloudformation:logical-id	NodeGroup
aws:ec2launchtemplate:id	lt-0ed78c8fad0316099
eksctl.io/v1alpha2/nodegroup-name	my-nodegroup
alpha.eksctl.io/eksctl-version	0.113.0
aws:cloudformation:stack-name	eksctl-demo-nodegroup-my-nodegroup
aws:cloudformation:stack-id	arn:aws:cloudformation:ap-northeast-2:0
alpha.eksctl.io/nodegroup-name	my-nodegroup
alpha.eksctl.io/nodegroup-type	unmanaged
aws:ec2launchtemplate:version	1
kubernetes.io/cluster/demo	owned

💡 When placing nodegroups inside a private subnet, privateNetworking must be set to true on the nodegroup

eksctl

Introduction

Usage

Clusters

Creating and managing clusters

AWS Outposts Support

Non eksctl-created clusters

Registering non-EKS clusters with EKS Connector

Customizing kubelet configuration

CloudWatch logging

EKS Fully-Private Cluster

Addons

Enabling Access for Amazon EMR

EKS Fargate Support

```
apiVersion: eksctl.io/v1alpha5
kind: ClusterConfig

metadata:
  name: dev-cluster-1
  region: eu-north-1

nodeGroups:
  - name: ng-1
    instanceType: m5a.xlarge
    desiredCapacity: 1
    kubeletExtraConfig:
      kubeReserved:
        cpu: "300m"
        memory: "300Mi"
        ephemeral-storage: "1Gi"
      kubeReservedCgroup: "/kube-reserved"
      systemReserved:
        cpu: "300m"
        memory: "300Mi"
        ephemeral-storage: "1Gi"
      evictionHard:
        memory.available: "200Mi"
        nodefs.available: "10%"
      featureGates:
        RotateKubeletServerCertificate: true # has to be enabled, otherwise it
```

nodeGroups:

- name: my-nodegroup
- kubeletExtraConfig:
- imageGCHighThresholdPercent: 70
 - imageGCLowThresholdPercent: 50



Dry Run (Cheat Sheet)

<https://eksctl.io/usage/schema/>

```
apiVersion: eksctl.io/v1alpha5
iam:
  vpcResourceControllerPolicy: true
  withOIDC: false
kind: ClusterConfig
metadata:
  name: demo
  region: ap-northeast-2
  version: "1.22"
nodeGroups:
- amiFamily: AmazonLinux2
  containerRuntime: dockerd
  desiredCapacity: 1
  disableIMDSv1: false
  disablePodIMDS: false
  iam:
    withAddonPolicies:
      albIngress: false
      appMesh: null
      appMeshPreview: null
      autoScaler: false
      awsLoadBalancerController: false
      certManager: false
      cloudWatch: false
      ebs: false
      efs: false
      externalDNS: false
      fsx: false
      imageBuilder: false
      xRay: false
    instanceSelector: {}
    instanceType: t3.micro
    labels:
      alpha.eksctl.io/cluster-name: demo
      alpha.eksctl.io/nodegroup-name: my-nodegroup
    name: my-nodegroup
    privateNetworking: false
    securityGroups:
      withLocal: true
      withShared: true
    ssh:
      allow: false
    subnets:
      - subnet-0659aa123b16fe5dd
      - subnet-0dd2698a32d1014ea
    volumeIOPS: 3000
    volumeSize: 80
    volumeThroughput: 125
    volumeType: gp3
  privateCluster:
    enabled: false
    skipEndpointCreation: false
  vpc:
    clusterEndpoints:
      privateAccess: true
      publicAccess: true
    id: vpc-01439c15c75bd816c
    manageSharedNodeSecurityGroupRules: true
    nat:
      gateway: Disable
    subnets:
      private:
        private1:
          az: private1
          id: subnet-0659aa123b16fe5dd
        private2:
          az: private2
          id: subnet-0dd2698a32d1014ea
```

Managed



https://docs.aws.amazon.com/eks/latest/APIReference/API_CreateNodegroup.html



```
managedNodeGroups:  
  - name: managed-ng  
    privateNetworking: true  
    instanceType: t3.small  
    desiredCapacity: 1  
    volumeSize: 10  
    subnets:  
      - <Subnet ID>  
      - <Subnet ID>
```

```
$ eksctl create nodegroup -f <filename>.yaml  
$ eksctl delete nodegroup --cluster=demo --name=man...
```

Launch templates (2) <small>Info</small>			
		Actions	Create launch template
<input type="text"/> Filter by tags or properties or search by keyword			
Launch template ID	Launch template name	Default versio	
lt-0e29dd8608fa9aca7	eks-28c2a4d1-2cf7-3fh8-971f-779834f3ebhc	1	
<input type="checkbox"/> CreateAutoScalingGroup	December 25, 2022, 23:14:31 (UTC+09:00)	EKS	
<input type="checkbox"/> RunInstances	December 25, 2022, 23:14:30 (UTC+09:00)	EKS	
<input type="checkbox"/> CreateLaunchTemplate	December 25, 2022, 23:14:29 (UTC+09:00)	EKS	
<input type="checkbox"/> CreateNodegroup	December 25, 2022, 23:14:19 (UTC+09:00)	Admin	
<input type="checkbox"/> RunInstances	December 25, 2022, 23:14:18 (UTC+09:00)	Admin	
<input type="checkbox"/> CreateLaunchTemplate	December 25, 2022, 23:13:42 (UTC+09:00)	Admin	
<input type="checkbox"/> CreateStack	December 25, 2022, 23:13:35 (UTC+09:00)	Admin	

Managed – Spot, On-Demand

AWSKRUG



```
# `instanceTypes` defaults to [`m5.large`]
- name: spot
  spot: true
  privateNetworking: true
  desiredCapacity: 1
  volumeSize: 10
  subnets:
    - <Subnet ID>
    - <Subnet ID>

# On-Demand instances
- name: on-demand
  instanceTypes: ["t2.small", "t3.small"]
  privateNetworking: true
  desiredCapacity: 1
  volumeSize: 10
  subnets:
    - <Subnet ID>
    - <Subnet ID>
```

Unmanaged Nodegroups

eksctl has support for spot instances through the MixedInstancesPolicy for Auto Scaling Groups.

Here is an example of a nodegroup that uses 50% spot instances and 50% on demand instances:

```
nodeGroups:
  - name: ng-1
    minSize: 2
    maxSize: 5
    instancesDistribution:
      maxPrice: 0.017
      instanceTypes: ["t3.small", "t3.medium"] # At least one instance type should
      onDemandBaseCapacity: 0
      onDemandPercentageAboveBaseCapacity: 50
      spotInstancePools: 2
```

Feature parity with unmanaged nodegroups

EKS Managed Nodegroups are managed by AWS EKS and do not offer the same level of configuration as unmanaged nodegroups. The unsupported options are noted below.

- `iam.instanceProfileARN` is not supported for managed nodegroups.
- `instancesDistribution` field is not supported

Managed – Custom AMI

AWSKRUG

NEW Support for custom AMI, security groups, `instancePrefix`,
`ebsOptimized`, `volumeType`, `volumeName`, `volumeEncrypted`,
`maxPodsPerNode`, `preBootstrapCommands`, `overrideBootstrapC`

```
# cluster.yaml
# A cluster with an unmanaged nodegroup and two managed
---
apiVersion: eksctl.io/v1alpha5
kind: ClusterConfig

metadata:
  name: managed-cluster
  region: us-west-2

managedNodeGroups:
  - name: custom-ng
    ami: ami-0e124de4755b2734d
    securityGroups:
      attachIDs: ["sg-1234"]
    maxPodsPerNode: 80
    ssh:
      allow: true
    volumeSize: 100
    volumeName: /dev/xvda
    volumeEncrypted: true
    disableIMDSv1: true
    overrideBootstrapCommand: |
      #!/bin/bash
      /etc/eks/bootstrap.sh managed-cluster --kubelet-
```

```
22  ✓ managedNodeGroups:
23  ✓   - name: custom-ng
24  ✓     privateNetworking: true
25  ✓     instanceType: t3.medium
26  ✓     desiredCapacity: 1
27  ✓     ami: ami-0d35aabb05c2cedb4
28  ✓     maxPodsPerNode: 4 # 17
29  ✓     volumeSize: 10
30  ✓     volumeName: /dev/xvda
31  ✓     volumeEncrypted: true
32  ✓     subnets:
33  ✓       - subnet-0659aa123b16fe5dd
34  ✓       - subnet-0dd2698a32d1014ea
35  ✓     overrideBootstrapCommand: |
36  ✓       #!/bin/bash
```

```
demo --use-max-pods false --kubelet-extra-args '--max-pods=4 --node-labels
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL zsh + □ □ ^

> eksctl create nodegroup -f 04-managed-custom.yaml --dry-run
Error: could not create cluster provider from options: managedNodeGroups[0].maxPo
dsPerNode is not supported when using a custom AMI (managedNodeGroups[0].ami)
```

Managed – Custom AMI



<https://eksctl.io/announcements/nodegroup-override-announcement/>

```
> k get node ip-10-0-129-122.ap-northeast-2.compute.internal -ojsonpath='{.status.capacity.pods}{"\n"}'  
4  
> k get po -A  


| NAMESPACE   | NAME                      | READY | STATUS  | RESTARTS | AGE   |
|-------------|---------------------------|-------|---------|----------|-------|
| default     | nginx                     | 0/1   | Pending | 0        | 13s   |
| kube-system | aws-node-jw4ls            | 1/1   | Running | 0        | 9m20s |
| kube-system | coredns-556f6dfffc4-6hg2s | 1/1   | Running | 0        | 15m   |
| kube-system | coredns-556f6dfffc4-9lbcx | 1/1   | Running | 0        | 15m   |
| kube-system | kube-proxy-4lzlw          | 1/1   | Running | 0        | 9m20s |


```

For nodegroups that have no outbound internet access, you'll need to supply `--apiserver-endpoint` and `--b64-cluster-ca` to the bootstrap script as follows:

```
overrideBootstrapCommand: |  
  #!/bin/bash  
  
  source /var/lib/cloud/scripts/eksctl/bootstrap.helper.sh  
  
  # Note "--node-labels=${NODE_LABELS}" needs the above helper sourced to work.  
  /etc/eks/bootstrap.sh ${CLUSTER_NAME} --container-runtime containerd --kubernetes-cfg  
  --apiserver-endpoint ${API_SERVER_URL} --b64-cluster-ca ${B64_CLUSTER_CA}
```

Bare minimum override command

Managed – Custom Launch Template

AWSKRUG

```
set -o xtrace

# Inject imageGCHighThresholdPercent
if ! grep -q imageGCHighThresholdPercent config.json; then
    sed -i '/"apiVersion*/a \\' config.json
fi

# Inject imageGCLowThresholdPercent
if ! grep -q imageGCLowThresholdPercent config.json; then
    sed -i '/"imageGCHighPercent"/a \\' config.json
fi
```

Launch template [Info](#) [Switch to launch configuration](#)

Launch template
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

eks-f8c2a63f-c484-dad8-37a8-d666c4f3115c [▼](#) [C](#)

[Create a launch template](#)

Version

1 [▲](#) [C](#)

Latest (3) [Version](#)

Default (3) [Version](#)

3

2

1 [▼](#) [C](#)

AMI ID: ami-0171653eda904c279

Launch template	eks-f8c2a63f-c484-dad8-37a8-d666c4f3115c C
Instance type	-
Security groups	-
Request Spot Instances	No

Launch Template support for Managed

AWSKRUG

Creating managed nodegroups using a provided launch template

```
# managed-cluster.yaml
# A cluster with two managed nodegroups
---
apiVersion: eksctl.io/v1alpha5
kind: ClusterConfig

metadata:
  name: managed-cluster
  region: us-west-2

managedNodeGroups:
  - name: managed-ng-1
    launchTemplate:
      id: lt-12345
      version: "2" # optional (uses the default launch template version if unspecified)

  - name: managed-ng-2
    minSize: 2
    desiredCapacity: 2
    maxSize: 4
    labels:
      role: worker
    tags:
      nodegroup-name: managed-ng-2
    privateNetworking: true
    launchTemplate:
      id: lt-12345
```



```
apiVersion: eksctl.io/v1alpha5
kind: ClusterConfig
```

```
metadata:
  name: demo
  region: ap-northeast-2
```

```
managedNodeGroups:
  - name: <LT Name>
    privateNetworking: true
    subnets:
      - <Subnet ID>
      - <Subnet ID>
    launchTemplate:
      . . .
```

2023-01-02 11:44:24 [✖] instance type must be set in the launch template if managedNodeGroup.instanceTypes is not specified
Error: failed to create nodegroups for cluster "demo"

Launch Template support for Managed



<https://eksctl.io/usage/launch-template-support/>

Notes on custom AMI and launch template support

- When a launch template is provided, the following fields are not supported
`ami`, `ssh.allow`, `ssh.sourceSecurityGroupIds`, `securityGroups`, `instanceName`, `ebsOptimized`, `volumeEncrypted`, `volumeKmsKeyID`, `volumeEncryptionType`, `maxPodsPerNode`, `preBootstrapCommands`, `overrideBootstrapCommand` and `disableIMDSv1`.
- When using a custom AMI (`ami`), `overrideBootstrapCommand` must also be set to perform the bootstrapping.
- `overrideBootstrapCommand` can only be set when using a custom AMI.

eksctl-demo-nodegroup-managed-**ng** (lt-093231ae4b90c9f98) **Custom LT**

Launch template version details

Version	Description
2	-

Instance details | Storage | Resource tags | Network interfaces | Advanced details

AMI ID: - Instance type: **t2.micro**

eks-e4c2b830-705f-eae9-01d4-d77b8950588f (lt-094734336f6818115) **Made by EKS**

Launch template version details

Version	Description
1 (Default)	-

Instance details | Storage | Resource tags | Network interfaces | Advanced details

AMI ID: `ami-0ed39f52c0b66ac73` Instance type: **t2.micro**



Fargate

<https://eksctl.io/usage/fargate-support/>



```
$ eksctl create fargateprofile -f fargate.yaml  
$ eksctl delete fargateprofile --cluster <Cluster Name> --name <Fargate Name>
```



```
apiVersion: eksctl.io/v1alpha5  
kind: ClusterConfig  
  
metadata:  
  name: demo  
  region: ap-northeast-2  
  
fargateProfiles:  
  - name: fp-default  
    selectors:  
      - namespace: default  
      - namespace: kube-system
```

Monitoring

<https://eksctl.io/usage/cloudwatch-cluster-logging/>



```
$ eksctl utils update-cluster-logging --enable-types=all  
$ eksctl utils update-cluster-logging -f example.yaml --approve
```



```
cloudWatch:  
  clusterLogging:  
    enableTypes: ["audit", "authenticator"]  
    logRetentionInDays: 7
```

IAM



<https://eksctl.io/usage/iam-policies/>

<https://eksctl.io/usage/iamserviceaccounts/>



```
$ eksctl utils associate-iam-oidc-provider --config-file=<path>
$ eksctl create iamserviceaccount --config-file=<path>
```

`--dry-run` 대신 `--approve` 옵션 제공



```
iam:
  withOIDC: true
  serviceAccounts:
    - metadata:
        name: aws-load-balancer
        namespace: kube-system
  wellKnownPolicies:
    awsLoadBalancerController: true
  tags:
    environment: demo
```

```
$ eksctl delete iamserivceaccount ¶
  --cluster <Cluster Name> ¶
  --name <ServiceAccount Name>
```

OIDC는 삭제 명령어 없음



Add-ons

<https://eksctl.io/usage/addons/>



```
addons:  
  - name: aws-ebs-csi-driver  
    version: latest
```

```
› eksctl utils describe-addon-versions --kubernetes-version 1.22 | grep AddonName  
  "AddonName": "aws-ebs-csi-driver",  
  "AddonName": "vpc-cni",  
  "AddonName": "adot",  
  "AddonName": "coredns",  
  "AddonName": "kube-proxy",  
  "AddonName": "kubecost_kubecost",  
  "AddonName": "dynatrace_dynatrace-operator",  
  "AddonName": "upbound_universal-crossplane",  
  "AddonName": "teleport_teleport",  
  "AddonName": "factorhouse_kpow",  
  "AddonName": "tetratel-io_istio-distro",
```

\$ eksctl delete addon --cluster <Cluster Name> --name <Addon Name>



Upgrade / Update

<https://eksctl.io/usage/cluster-upgrade/>

<https://eksctl.io/usage/addon-upgrade/>



```
$ eksctl upgrade cluster --name=<clusterName>  
$ eksctl upgrade cluster --config-file cluster1.yaml
```



```
apiVersion: eksctl.io/v1alpha5  
kind: ClusterConfig  
  
metadata:  
  name: cluster-1  
  region: eu-north-1  
  version: "1.16"
```



```
$ eksctl utils update-kube-proxy --cluster=<clusterName>  
$ eksctl utils update-aws-node --cluster=<clusterName>  
$ eksctl utils update-coredns --cluster=<clusterName>
```



Q & A

More is more

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