

**K8s EKS**

**deployment of Nginx application**

# Create Cluster

```
eksctl create cluster --name task-eks-zen-01 --region us-east-1 --nodegroup-name task-zen-node --node-type t3.medium --nodes 3 --nodes-min 1 --nodes-max 4 --managed
```

```
eksctl get cluster
```

```
aws eks update-kubeconfig --name task-eks-zen-01  
--region us-east-1
```

```
kubectl get nodes
```

```
aws Services Search [Alt+S]
[ec2-user@ip-172-31-83-182 ~]$ ^C
[ec2-user@ip-172-31-83-182 ~]$ eksctl create cluster --name task-eks-zen-01 --region us-east-1 --nodegroup-name task-zen-node --node-type t3.medium --nodes 3 --nodes-min 1 --nodes-max 4 --managed
2024-02-17 21:23:13 [i] eksctl version 0.171.0
2024-02-17 21:23:13 [i] using region us-east-1
2024-02-17 21:23:13 [i] skipping us-east-1e from selection because it doesn't support the following instance type(s): t3.medium
2024-02-17 21:23:13 [i] setting availability zones to [us-east-1a us-east-1f]
2024-02-17 21:23:13 [i] subnets for us-east-1a - public:192.168.0.0/19 private:192.168.64.0/19
2024-02-17 21:23:13 [i] subnets for us-east-1f - public:192.168.32.0/19 private:192.168.96.0/19
2024-02-17 21:23:13 [i] nodegroup "task-zen-node" will use "" [AmazonLinux2/1.27]
2024-02-17 21:23:13 [i] using Kubernetes version 1.27
2024-02-17 21:23:13 [i] creating EKS cluster "task-eks-zen-01" in "us-east-1" region with managed nodes
2024-02-17 21:23:13 [i] will create 2 separate CloudFormation stacks for cluster itself and the initial managed nodegroup
2024-02-17 21:23:13 [i] if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=us-east-1 --cluster=task-eks-zen-01'
2024-02-17 21:23:13 [i] Kubernetes API endpoint access will use default of {publicAccess=true, privateAccess=false} for cluster "task-eks-zen-01" in "us-east-1"
2024-02-17 21:23:13 [i] CloudWatch logging will not be enabled for cluster "task-eks-zen-01" in "us-east-1"
2024-02-17 21:23:13 [i] you can enable it with 'eksctl utils update-cluster-logging --enable-types={SPECIFY-YOUR-LOG-TYPES-HERE (e.g. all)} --region=us-east-1 --cluster=task-eks-zen-01'
2024-02-17 21:23:13 [i]
2 sequential tasks: { create cluster control plane "task-eks-zen-01",
  2 sequential sub-tasks: {
    wait for control plane to become ready,
    create managed nodegroup "task-zen-node",
  }
}
2024-02-17 21:23:13 [i] building cluster stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:23:14 [i] deploying stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:23:44 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:24:14 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:25:14 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:26:14 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:27:14 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:28:14 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:29:14 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:30:14 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:31:14 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:32:14 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-cluster"
2024-02-17 21:34:15 [i] building managed nodegroup stack "eksctl-task-eks-zen-01-nodegroup-task-zen-node"
2024-02-17 21:34:15 [i] deploying stack "eksctl-task-eks-zen-01-nodegroup-task-zen-node"
2024-02-17 21:34:15 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-nodegroup-task-zen-node"
2024-02-17 21:34:45 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-nodegroup-task-zen-node"
2024-02-17 21:35:16 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-nodegroup-task-zen-node"
2024-02-17 21:36:51 [i] waiting for CloudFormation stack "eksctl-task-eks-zen-01-nodegroup-task-zen-node"
2024-02-17 21:36:51 [i] waiting for the control plane to become ready
2024-02-17 21:36:52 [✓] saved kubeconfig as "/home/ec2-user/.kube/config"
2024-02-17 21:36:52 [i] no tasks
2024-02-17 21:36:52 [✓] all EKS cluster resources for "task-eks-zen-01" have been created
2024-02-17 21:36:52 [i] nodegroup "task-zen-node" has 3 node(s)
2024-02-17 21:36:52 [i] node "ip-192-168-11-242.ec2.internal" is ready
2024-02-17 21:36:52 [i] node "ip-192-168-42-83.ec2.internal" is ready
2024-02-17 21:36:52 [i] node "ip-192-168-44-177.ec2.internal" is ready
2024-02-17 21:36:52 [i] waiting for at least 1 node(s) to become ready in "task-zen-node"
2024-02-17 21:36:52 [i] nodegroup "task-zen-node" has 3 node(s)
2024-02-17 21:36:52 [i] node "ip-192-168-11-242.ec2.internal" is ready
2024-02-17 21:36:52 [i] node "ip-192-168-42-83.ec2.internal" is ready
```



2024-02-17 21:36:53 [i] kubectl command should work with "/home/ec2-user/.kube/config", try 'kubectl get nodes'

2024-02-17 21:36:53 [✓] EKS cluster "task-eks-zen-01" in "us-east-1" region is ready

[ec2-user@ip-172-31-83-182 ~]\$ eksctl get cluster

NAME	REGION	EKSCTL CREATED
task-eks-zen-01	us-east-1	True

[ec2-user@ip-172-31-83-182 ~]\$ ^C

[ec2-user@ip-172-31-83-182 ~]\$ ^C

[ec2-user@ip-172-31-83-182 ~]\$ aws eks update-kubeconfig --name task-eks-zen-01 --region us-east-1

Added new context arn:aws:eks:us-east-1:488546547125:cluster/task-eks-zen-01 to /home/ec2-user/.kube/config

[ec2-user@ip-172-31-83-182 ~]\$ kubectl get nodes

NAME	STATUS	ROLES	AGE	VERSION
ip-192-168-11-242.ec2.internal	Ready	<none>	5m32s	v1.27.9-eks-5e0fdde
ip-192-168-42-83.ec2.internal	Ready	<none>	5m30s	v1.27.9-eks-5e0fdde
ip-192-168-44-177.ec2.internal	Ready	<none>	5m31s	v1.27.9-eks-5e0fdde

[ec2-user@ip-172-31-83-182 ~]\$ kubectl create deployment task-zen-01 --image nginx

deployment.apps/task-zen-01 created

[ec2-user@ip-172-31-83-182 ~]\$ kubectl get deployments

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
task-zen-01	1/1	1	1	30s

[ec2-user@ip-172-31-83-182 ~]\$ kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
task-zen-01-77cbfd469d-7rk75	1/1	Running	0	46s

[ec2-user@ip-172-31-83-182 ~]\$ kubectl describe deployment task-zen-01

Name: task-zen-01

# Deployment

Create deployment task-zen-01 --image nginx

Kubectl get deployment

Kubectl get pods

Kubectl describe deployment task-zen-01

Kubectl logs deployment/task-zen-01

aws

Services

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```
2024-02-17 21:36:53 [i] kubectl command should work with "/home/ec2-user/.kube/config", try 'kubectl get nodes'
2024-02-17 21:36:53 [✓] EKS cluster "task-eks-zen-01" in "us-east-1" region is ready
[ec2-user@ip-172-31-83-182 ~]$ eksctl get cluster
NAME          REGION    EKSCTL CREATED
task-eks-zen-01 us-east-1  True
[ec2-user@ip-172-31-83-182 ~]$ ^C
[ec2-user@ip-172-31-83-182 ~]$ ^C
[ec2-user@ip-172-31-83-182 ~]$ aws eks update-kubeconfig --name task-eks-zen-01 --region us-east-1
Added new context arn:aws:eks:us-east-1:488546547125:cluster/task-eks-zen-01 to /home/ec2-user/.kube/config
[ec2-user@ip-172-31-83-182 ~]$ kubectl get nodes
NAME          STATUS    ROLES    AGE    VERSION
ip-192-168-11-242.ec2.internal Ready    <none>   5m32s  v1.27.9-eks-5e0fdde
ip-192-168-42-83.ec2.internal  Ready    <none>   5m30s  v1.27.9-eks-5e0fdde
ip-192-168-44-177.ec2.internal Ready    <none>   5m31s  v1.27.9-eks-5e0fdde
[ec2-user@ip-172-31-83-182 ~]$ kubectl create deployment task-zen-01 --image nginx
deployment.apps/task-zen-01 created
[ec2-user@ip-172-31-83-182 ~]$ kubectl get deployments
NAME          READY    UP-TO-DATE    AVAILABLE    AGE
task-zen-01   1/1      1              1             30s
[ec2-user@ip-172-31-83-182 ~]$ kubectl get pods
NAME          READY    STATUS    RESTARTS    AGE
task-zen-01-77cbfd469d-7rk75 1/1      Running    0            46s
[ec2-user@ip-172-31-83-182 ~]$ kubectl describe deployment task-zen-01
Name:          task-zen-01
Namespace:     default
CreationTimestamp: Sat, 17 Feb 2024 21:42:28 +0000
Labels:        app=task-zen-01
Annotations:   deployment.kubernetes.io/revision: 1
Selector:      app=task-zen-01
Replicas:      1 desired | 1 updated | 1 total | 1 available | 0 unavailable
StrategyType:  RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=task-zen-01
  Containers:
    nginx:
      Image:      nginx
      Port:       <none>
      Host Port:  <none>
      Environment: <none>
      Mounts:      <none>
      Volumes:     <none>
  Conditions:
    Type          Status  Reason
```

Create deployment task-zen-01 --image nginx

Kubectl gat deployment

Kubectl gat pods

Kubectl describe deployment task-zen-01

```
[ec2-user@ip-172-31-83-182 ~]$  
[ec2-user@ip-172-31-83-182 ~]$ kubectl logs deployment/task-zen-01  
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration  
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/  
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh  
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf  
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf  
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh  
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh  
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh  
/docker-entrypoint.sh: Configuration complete; ready for start up  
2024/02/17 21:42:32 [notice] 1#1: using the "epoll" event method  
2024/02/17 21:42:32 [notice] 1#1: nginx/1.25.4  
2024/02/17 21:42:32 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)  
2024/02/17 21:42:32 [notice] 1#1: OS: Linux 5.10.209-198.812.amzn2.x86_64  
2024/02/17 21:42:32 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576  
2024/02/17 21:42:32 [notice] 1#1: start worker processes  
2024/02/17 21:42:32 [notice] 1#1: start worker process 30  
2024/02/17 21:42:32 [notice] 1#1: start worker process 31  
[ec2-user@ip-172-31-83-182 ~]$
```

## Kubectl logs deployment/task-zen-01

```
[ec2-user@ip-172-31-83-182 ~]$ kubectl create deployment task-zen-01 --image nginx
deployment.apps/task-zen-01 created
[ec2-user@ip-172-31-83-182 ~]$ kubectl get deployments
NAME                READY    UP-TO-DATE    AVAILABLE    AGE
task-zen-01         1/1      1             1            30s
[ec2-user@ip-172-31-83-182 ~]$ kubectl get pods
NAME                                READY    STATUS    RESTARTS    AGE
task-zen-01-77cbfd469d-7rk75       1/1      Running   0           46s
[ec2-user@ip-172-31-83-182 ~]$ kubectl describe deployment task-zen-01
Name:                task-zen-01
Namespace:           default
CreationTimestamp:   Sat, 17 Feb 2024 21:42:28 +0000
Labels:              app=task-zen-01
Annotations:         deployment.kubernetes.io/revision: 1
Selector:            app=task-zen-01
Replicas:            1 desired | 1 updated | 1 total | 1 available | 0 unavailable
StrategyType:        RollingUpdate
MinReadySeconds:     0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=task-zen-01
  Containers:
    nginx:
      Image:      nginx
      Port:       <none>
      Host Port:  <none>
      Environment: <none>
      Mounts:      <none>
  Volumes:      <none>
Conditions:
```



# Deployment logs

```
[ec2-user@ip-172-31-83-182 ~]$ kubectl logs deployment/task-zen-01
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2024/02/17 21:42:32 [notice] 1#1: using the "epoll" event method
2024/02/17 21:42:32 [notice] 1#1: nginx/1.25.4
2024/02/17 21:42:32 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/02/17 21:42:32 [notice] 1#1: OS: Linux 5.10.209-198.812.amzn2.x86_64
2024/02/17 21:42:32 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/02/17 21:42:32 [notice] 1#1: start worker processes
2024/02/17 21:42:32 [notice] 1#1: start worker process 30
2024/02/17 21:42:32 [notice] 1#1: start worker process 31
[ec2-user@ip-172-31-83-182 ~]$
```

# Graphical Interface Output

# Cluster



Services



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New Kubernetes versions are available for 1 cluster.

Clusters (1) [Info](#)



Delete

Add cluster

Filter clusters

< 1 >

	Cluster name ▲	Status ▼	Kubernetes version ▼	Support type ▼	Provider ▼
	<a href="#">task-eks-zen-01</a>	Active	1.27 <a href="#">Update now</a>	Standard support until July 24, 2024	EKS

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task-eks-zen-01

Delete cluster

Upgrade version

⚠️ Your cluster's Kubernetes version (1.27) will reach the end of standard support on July 24, 2024. Update your cluster to a supported version. If you don't, your cluster will be onboarded to extended support. After the extended support preview ends, clusters on versions in extended support will be subject to additional fees. [Learn more](#)

Update now

Cluster info Info

Status	Kubernetes version Info	Support type	Provider
Active	1.27	⚠️ Standard support until July 24, 2024	EKS

Overview

Resources

Compute

Networking

Add-ons

Access

Observability

Upgrade insights

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Tags

Details

API server endpoint

https://4B5129560DF0A981DF99FDB16A670CB2.gr7.us-east-1.eks.amazonaws.com

Certificate authority

LS0tLS1CRUdJTiBDRVJUSUZJQ0FURSB0tLS0tCk1JSURCVENDQWUyZ0F3SUJBZ0lJTnhUbHRRamhvejR3RFFZSkVWklodmNOQVFFTEJRQXdGVEVUTUJFR0E

OpenID Connect provider URL

https://oidc.eks.us-east-1.amazonaws.com/id/4B5129560DF0A981DF99FDB16A670CB2

Cluster IAM role ARN

arn:aws:iam::488546547125:role/eksctl-task-eks-zen-01-cluster-ServiceRole-FhyKYusH1ZGO

Created

24 minutes ago

Cluster ARN

arn:aws:eks:us-east-1:488546547125:cluster/task-eks-zen-01

Platform version Info

eks.11

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A new Kubernetes version is available for this cluster.

Upgrade version

EKS

Clusters

task-eks-zen-01

task-eks-zen-01

Delete cluster

Upgrade version

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Cluster info

Status	Kubernetes version	Support type	Provider
Active	1.27	Standard support until July 24, 2024	EKS

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- Resources
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Resource types

- Workloads
- PodTemplates
- Pods
- ReplicaSets
- Deployments
- StatefulSets
- DaemonSets
- Jobs
- CronJobs
- PriorityClasses
- HorizontalPodAutoscalers
- Cluster
- Service and networking
- Config and secrets
- Storage
- Authentication
- Authorization
- Policy
- Extensions

Workloads: Pods (9)

Pod is the smallest and simplest Kubernetes object. A Pod represents a set of running containers on your cluster. [Learn more](#)

All Namespaces

Filter Pods by property or value

View details

Name	Age
<a href="#">aws-node-7jhnt</a>	Created 13 minutes ago
<a href="#">aws-node-flrbg</a>	Created 13 minutes ago
<a href="#">aws-node-jkw5n</a>	Created 13 minutes ago
<a href="#">coredns-d9b6d8c7d-l58n2</a>	Created 19 minutes ago
<a href="#">coredns-d9b6d8c7d-s54bw</a>	Created 19 minutes ago
<a href="#">kube-proxy-dnz74</a>	Created 13 minutes ago
<a href="#">kube-proxy-f4dnn</a>	Created 13 minutes ago
<a href="#">kube-proxy-mdd5r</a>	Created 13 minutes ago
<a href="#">task-zen-01-77cbfd469d-7rk75</a>	Created 6 minutes ago

task-eks-zen-01

Delete cluster

Upgrade version

⚠️

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Cluster info

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Active	1.27	Standard support until July 24, 2024	EKS

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StatefulSets

DaemonSets

Jobs

CronJobs

PriorityClasses

HorizontalPodAutoscalers

Cluster

Service and networking

Config and secrets

Storage

Authentication

Authorization

Policy

Extensions

Workloads: Deployments (2)

Deployment is an API object that manages a replicated application, typically by running Pods with no local state. [Learn more](#)

All Namespaces

Filter Deployments by property or value

	Name	Namespace	Type	Age	Pod count	Status
	coredns	kube-system	deployments	Created 19 minutes ago	2	<div></div> <div>2 Ready   0 Failed   2 Desired</div>
	task-zen-01	default	deployments	Created 7 minutes ago	1	<div></div> <div>1 Ready   0 Failed   1 Desired</div>

View details

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EKS > Clusters > task-eks-zen-01 > Deployment: default/task-zen-01

task-zen-01

Structured viewRaw view

Info

Status

1 Desired | 1 Available | 1 Ready | 0 Pending

Created

7 minutes ago

Namespace

default

Selector

app=task-zen-01

Last transition time

7 minutes ago

Images

nginx

Strategy type

RollingUpdate

Pods (1) Info

< 1 >

Name	Status	Created	IP
<a href="#">task-zen-01-77cbfd469d-7rk75</a>	Running	8 minutes ago	192.168.49.86

Conditions

Name	Status	Message
Available	True	Deployment has minimum availability.
Progressing	True	ReplicaSet "task-zen-01-77cbfd469d" has successfully progressed.

Labels (1) < 1 >

Key	Value
app	task-zen-01

Annotations (1) < 1 >

Key	Value
deployment.kubernetes.io/revision	1

Events (1)

Type	Reason	Event time	From	Message
Normal	ScalingReplicaSet	8 minutes ago	deployment-controller	Scaled up replica set task-zen-01-77cbfd469d to 1

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Clusters

task-eks-zen-01

Deployment: default/task-zen-01

task-zen-01

Structured view

Raw view

Info

Status

1 Desired | 1 Available | 1 Ready | 0 Pending

Created

24 minutes ago

Namespace

default

Selector

app=task-zen-01

Last transition time

24 minutes ago

Images

nginx

Strategy type

RollingUpdate

Pods (1)

Name	Status	Created	IP
task-zen-01-77cbfd469d-7rk75	Running	24 minutes ago	192.168.49.86

Conditions

Name	Status	Message
Available	True	Deployment has minimum availability.



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EKS > Clusters > task-eks-zen-01

task-eks-zen-01

RefreshDelete clusterUpgrade version

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Networking

Manage VPC resourcesManage endpoint access

VPC	Subnets	Cluster security group	API server endpoint access
<a href="#">vpc-05545448b02b25b54</a>	<a href="#">subnet-0f303419cc8e282bc (us-east-1f)</a>	<a href="#">sg-066ba13e1910abe07</a>	Public
Cluster IP address family	<a href="#">subnet-05511fbee710fcf48 (us-east-1a)</a>	Additional security groups	Public access source allowlist
IPv4	<a href="#">subnet-035666d59fb8167d7 (us-east-1a)</a>	<a href="#">sg-01bbd1d9e10ced700</a>	0.0.0.0/0 (open to all traffic)
Service IPv4 range	<a href="#">subnet-084adda4d8d1167bc (us-east-1f)</a>		
10.100.0.0/16			

**Thank You.....**