

IT'S STILL DAY ONE . . .

# Our vision for EKS



**Globally  
available**



**Easy to use**



**Production  
ready**



**Cost-effective**



**High-  
performance**

# New global regions



China  
Montreal  
GovCloud

Cape Town  
Milan

# High Performance

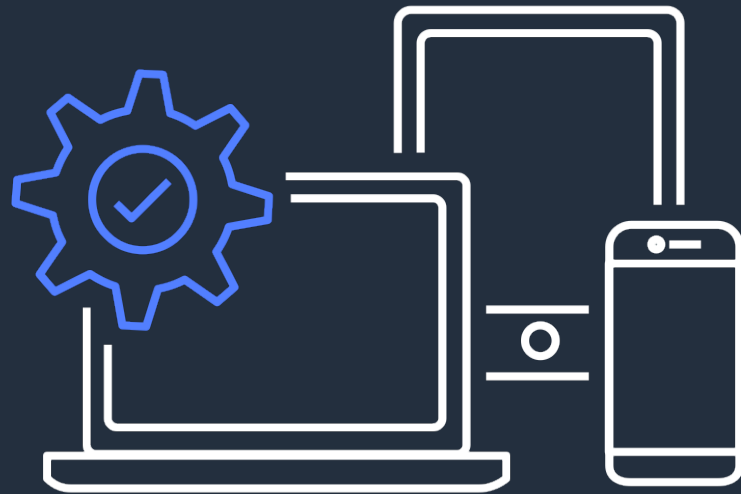


Kubeflow  
as a first-class citizen

New Instance Types  
for accelerated computing

Faster  
cluster creation times

# Production ready



Upstream testing

Higher  
pod densities

Next generation  
container networking interface

# Cost effective



Spot  
provisioning, management, and  
autoscaling

AWS Node Termination Handler

ARM  
instance general availability

# Easy to use



New tooling  
for defining and running applications

Refreshed console  
for full visibility and control

eksctl  
continued support. More features for  
complete cluster creation



# All the building blocks for Kubernetes in one place





# Amazon EKS Managed Node Groups



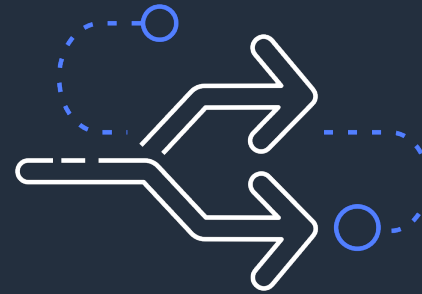
# Amazon EKS Managed Node Groups



## Nodes with a single command

Use EKS Console, APIs, eksctl, Cloudformation or Terraform.

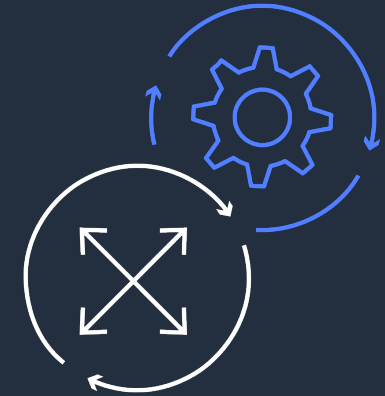
Add Kubernetes labels directly to nodes



## Always up to date

Launch with the latest EKS-optimized AMIs.

Get the latest updates with a single command and rolling updates.



## High availability included

Run across multiple availability zones

Tagged for cluster autoscaler discovery

Integrated configuration health checks

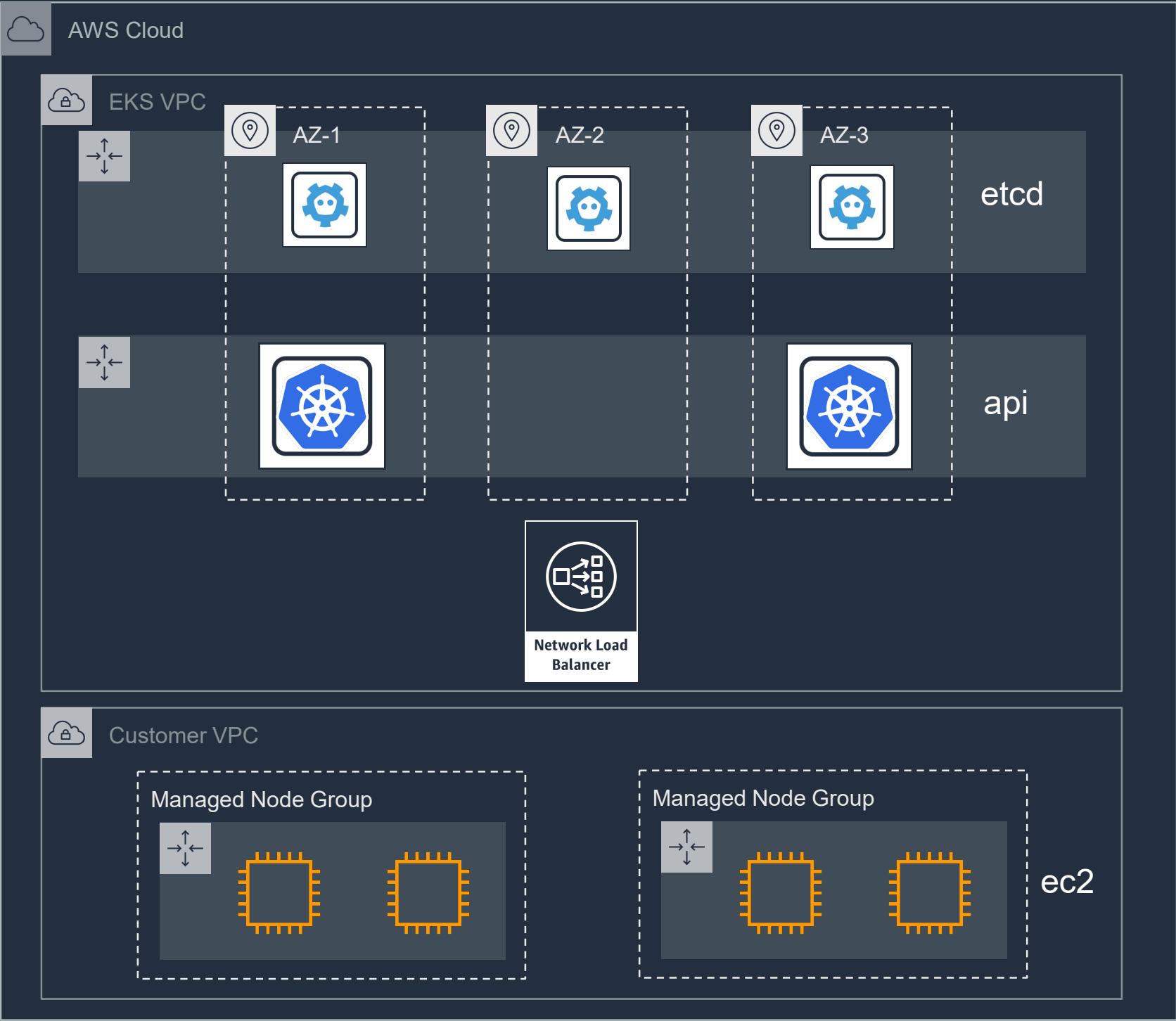
Nodes automatically cordon and drain

# Demo

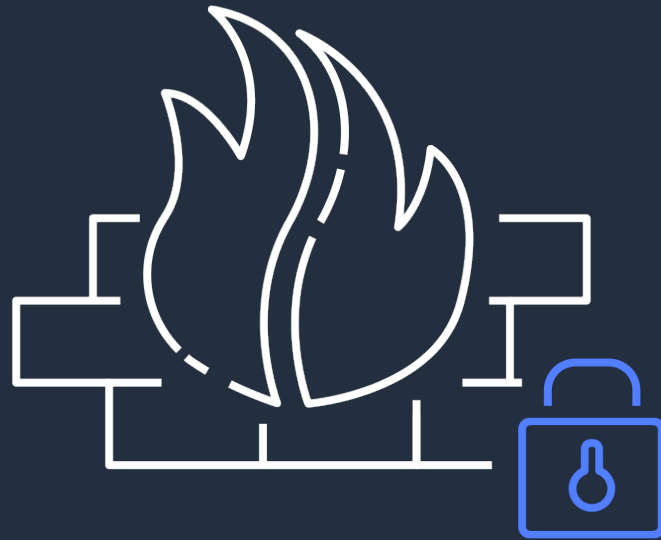
# EKS Cluster Architecture

EKS Managed  
Control Plane

EKS Managed  
Data Plane



# Cluster Security Group



**New, unified security group for all nodes on the cluster**

**Simplifies setup and minimizes issues**  
Includes rules for control plane and nodes.

**Default security group**  
all new 1.14+ clusters starting today

# Pricing

No extra cost to use managed node groups.

Pay standard EC2 prices for any EC2 infrastructure you provision using managed node groups.

# Availability

Available today for **all new 1.14 clusters**

Use managed node groups in **all global EKS regions**

# You come first.



# Public roadmap

<https://github.com/aws/containers-roadmap/>

aws / containers-roadmap

Unwatch 483 Unstar 2k Fork 86

Code Issues 371 Pull requests 2 Actions Projects 1 Security Insights Settings

containers-roadmap  
Updated 17 hours ago

label:EKS

+ Add cards Fullscreen Menu

27 We're Working On It

16 results

#166 opened by jaxxstorm

EKS Proposed

[EKS] Cloudformation support for control plane logging and endpoint access control

#242 opened by tabern

EKS

New EKS Region : Beijing

#219 opened by wholroyd

EKS Proposed

[EKS] FedRAMP Compliance

#111 opened by geekdave

EKS

CoreDNS support for ExternalName services is broken in EKS 1.11

#129 opened by bharg

EKS

New EKS Region: Northern California

#119 opened by dgarbus

EKS

17 Coming Soon

9 results

[EKS] Managed worker nodes

#139 opened by tabern

EKS

EKS on Fargate

#32 opened by outofcoffee

EKS Fargate

New EKS Region: Canada Central

#113 opened by tabern

EKS

EKS: Envelope Encryption of Kubernetes Secrets

#530 opened by tabern

EKS

[EKS]: Kubernetes v1.11 End of Support (Nov 4, 2019)

#464 opened by mikestef9

EKS

New EKS Region : Ningxia

#77 opened by pahud

EKS

4 Developer Preview

1 result

[EKS]: Support for Arm Nodes - EC2 A1 Instances

#264 opened by tabern

Developer Preview EKS

99 Just Shipped

48 results

[EKS]: Drain nodes during spot terminations

#569 opened by tabern

EKS

New EKS region: São Paulo

#112 opened by abby-fuller

EKS

EKS Windows Nodes

#69 opened by ofiliz

EKS Windows

[EKS]: G4 Instance Support

#504 opened by mikestef9

EKS

EKS-Optimized AMI Metadata SSM Parameter

#231 opened by tabern

EKS

EKS Tagging

#82 opened by praveenchandran

EKS Proposed



# Public roadmap



- Stay up to date with what we're working on
- Give us feedback and propose ideas
- Get notified when new features ship
- Try out developer previews

<https://github.com/aws/containers-roadmap>

# Thank you

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