An update on Amazon EKS

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We see our customers as invited guests to a party, and we are the hosts.

It’s our job every day to make every important aspect of the customer experience a little bit better.
Customers adopting Kubernetes on AWS
EKS is used in every industry, around the world

- Finance
- Transportation
- Retail
- Communications
- Social Media
- Business Apps
- Gaming
- Healthcare
2020 so far

**Security & Reliability**
- 99.95% Service Level Agreement
- Cluster creation limit raised to 100 per region
- CIS Benchmark for EKS
- Best practices guide for security
- Service linked roles
- KMS Secrets Encryption

**Nodes**
- Inferentia Inf1
- Graviton
- Bare Metal G4dn
- Outposts, Wavelengths GA support

**Tooling**
- CDK for Kubernetes (CDK8s)
- Service Quotas Integration
- App Mesh GA

**Storage & Networking**
- Beta CSI Driver for FSx for Lustre
- GA CSI Driver for EFS
- VPC CNI plugin v1.6
- Fully private cluster networking with Managed Node Groups

**Regions & Versions**
- GovCloud US (East), GovCloud US (West), Ningxia, Beijing, Cape Town, Milan regions
- Fargate region expansion to Frankfurt, Oregon, Singapore, Sydney, Cape Town and Milan
- Support for Kubernetes versions 1.15, 1.16, 1.17

**50% price cut**
EKS tenets

Production Workloads
Native and upstream
Seamless integrations
OSS Contribution
All the building blocks for Kubernetes in one place
Building blocks of the future

Latest software
Speed and Scale
Simplicity
Empowering Teams

Compute
Networking
Cloud Integration
The latest software

4 versions at a time
100 days from upstream
AWS Validated Images & Charts
More speed and scale

Vertical Control Plane Scaling
CNI Prefix Delegation
Faster cluster starts
XXL Clusters
Simpler workflows

- EKS Add Ons
- External Access Control
- Tag Propagation
- Integrated GitOps
- Immutable cluster tooling
Empower Development Teams

CDK for Kubernetes – cdk8s
Kubernetes Management Console
AWS Kubernetes training
The right compute in the right place

- Fargate
- Instances
  - ARM
  - Inferentia
- Hybrid
  - Outposts
  - Local Zones
  - Wavelengths
- Regions
Powerful networking

AWS App Mesh
IPv6
A united cloud

CSI Drivers
- S3
- AWS Secrets Manager

OIDC

AWS Controllers for Kubernetes
AWS Controllers for Kubernetes (ACK)

Harness AWS
Create and use AWS resources directly within your cluster. Improve reliability and uptime at any scale.

Cloud Native Control
Kubernetes custom resources and controllers enable you to define the AWS resources your applications need directly within the cluster.

Always up to date
ACK generates automatically using the AWS SDKs, this ensures controllers are up-to-date with the latest features and functionality.
ACK now in developer preview!

github.com/aws/aws-controllers-k8s
You come first.
EKS 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!