Amazon Elastic Kubernetes Service

past  present  future

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“There is no rest for the weary. I constantly remind our employees to be afraid, to wake up every morning terrified. Not of our competition, but of our customers. Our customers ... are the ones to whom we owe a great obligation.”
Customers adopting Kubernetes on AWS

[Image: Logos of various companies]
The year in review

Security & Reliability
ISO, SOC 123, and PCI compliance
99.9% Service Level Agreement
Cluster creation limit raised to 50 per region

API Server Endpoint Access Control
Control Plane Logs in Cloudwatch
IAM authenticator integration
EKS v1.10 and 1.11 end of life
ECR PrivateLink support
Kubernetes pod security policies
IAM for Service Accounts
Cluster tagging

Regions & Versions
Seoul, Mumbai, London, Paris, Ohio, Frankfurt, Singapore, Sydney, Tokyo, Hong Kong, São Paulo, Bahrain
Support for Kubernetes versions 1.11, 1.12, 1.13, and 1.14

Nodes
Windows Node Support (GA)
A1 (ARM) instance support (preview)
EKS-Optimized AMI SSM parameters

Storage & Networking
Alpha CSI Driver for FSx for Lustre
Beta CSI Drivers for EBS and EFS
Support for Public IP Addresses Within Cluster VPCs
AWS ALB Ingress Controller
VPC CNI plugin v1.3, 1.4, 1.5

Tooling
AWS App Mesh controller
Managed Cluster Version Updates
Cloudwatch Container Insights
eksctl as the official EKS CLI
AWS Node Termination Handler
Mixed instance policy support and GPU-provider for Cluster Autoscaler

Machine Learning
Deep Learning Benchmark Utility
AWS in official Kubeflow documentation
Support for P3dn and G4dn instances
Escalator autoscaler one-click capacity

All since Kubecon 2018.
EKS tenets

Production Workloads
Native and upstream
Seamless integrations
OSS Contribution
Security

Reliability
Investments in security and reliability

- Cellular Architecture
- Version qualification and release
- Security Patching
- Ops tooling
99.9% Service Level Agreement *

* An agreement.
This is not a goal or an objective.
This is not a "best effort".
Investments in our community

AWS VPC CNI Plugin
IAM Authenticator
Ingress Controllers
CSI Storage Drivers
EBS, EFS, FSx
Make AWS the **BEST PLACE**

to run **KUBERNETES**
IT’S STILL DAY ONE . . .
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