



Amazon Elastic Kubernetes Service (Amazon EKS) 入門

AWS Black Belt Online Seminar

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Amazon Elastic Kubernetes Service (Amazon EKS) とは

Amazon Elastic Kubernetes Service (Amazon EKS)



Kubernetes環境をマネージドサービスとして提供

コンテナサービスと過去 from 2014

2014

- Docker 1.0, Kubernetes announcement
- Amazon ECS

2015

- Kubernetes GA

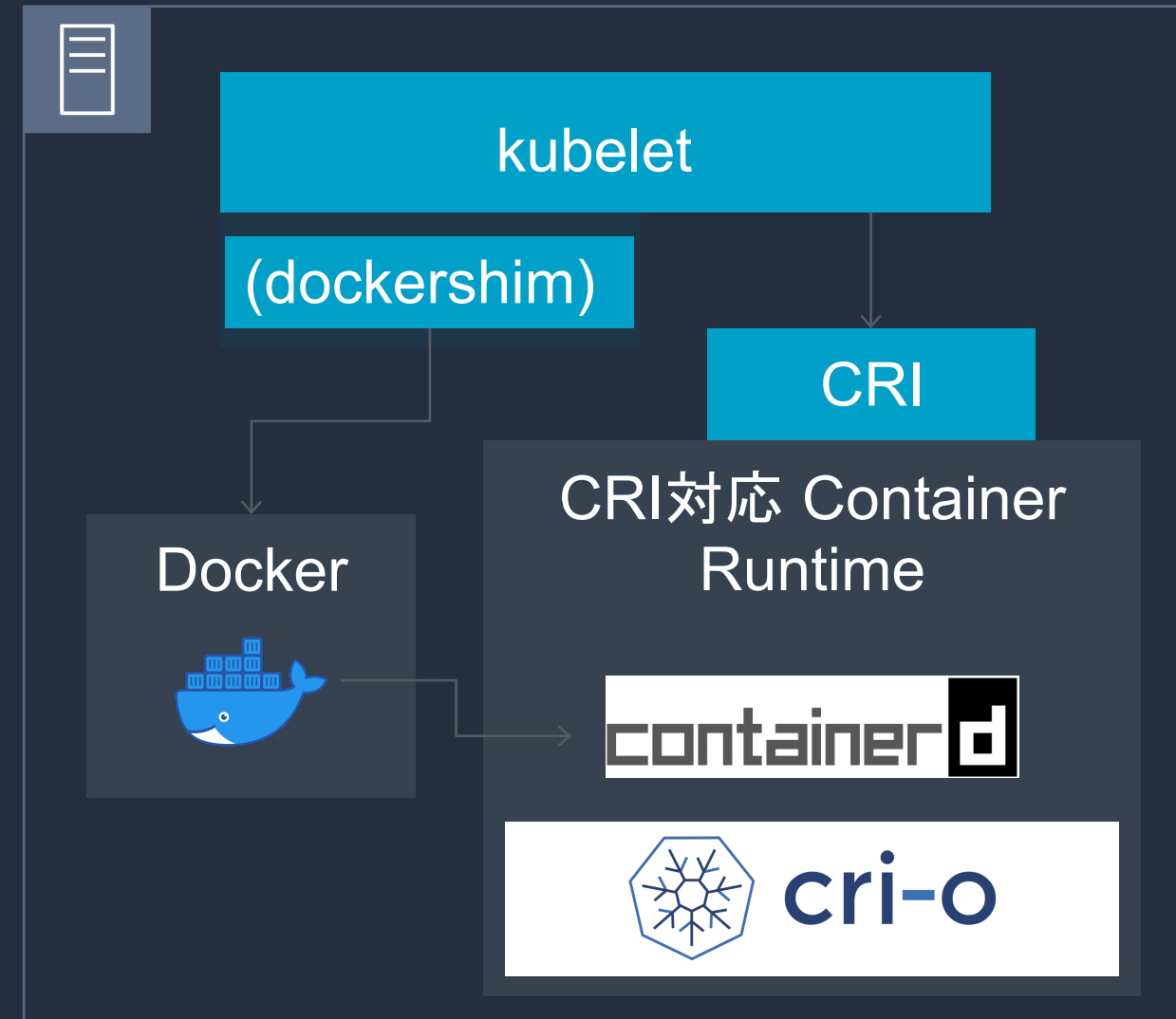
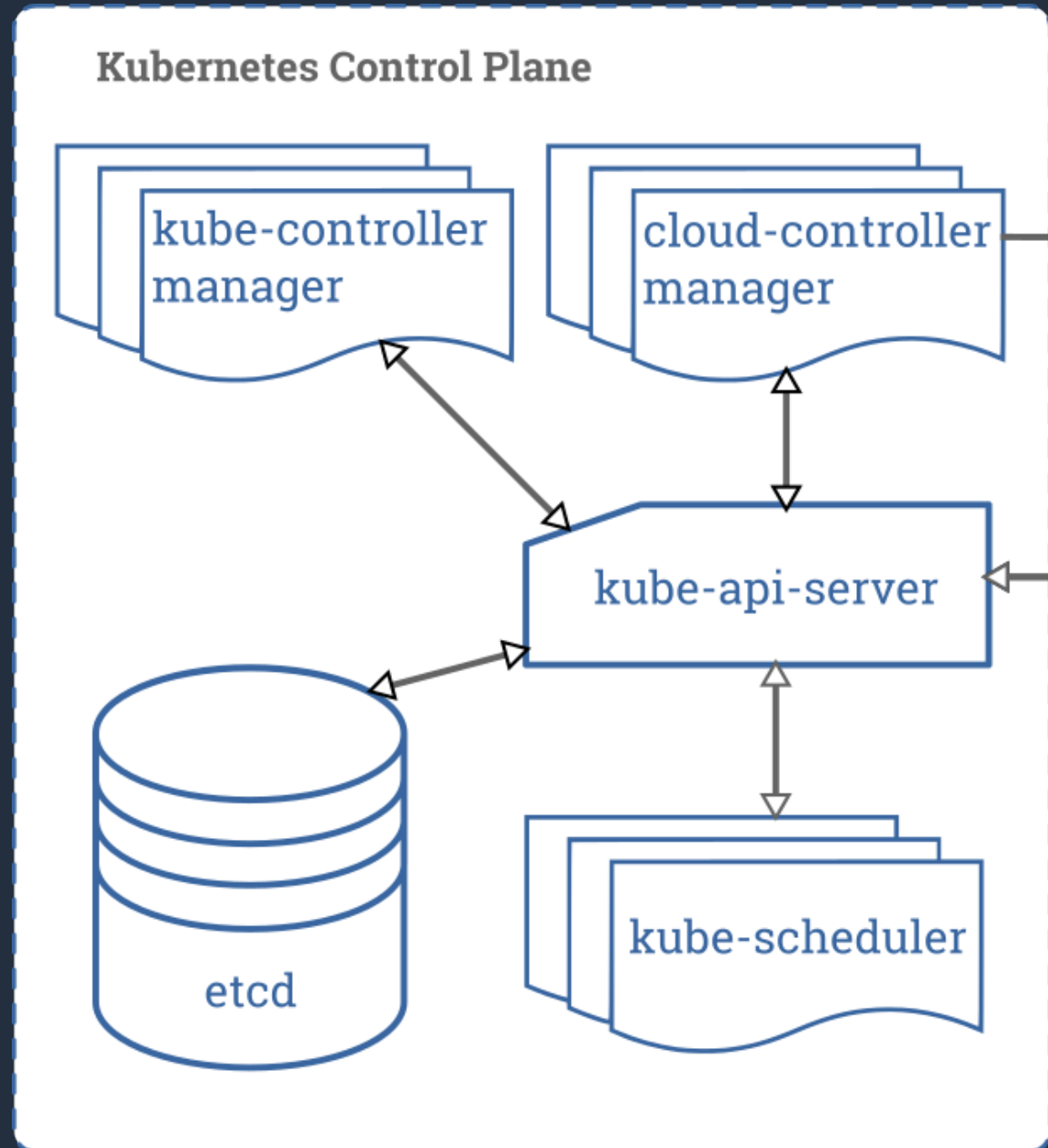


67%

の Kubernetes ユーザーが AWS 上で
ワークロードを動かしている

—CNCF survey, 2017

Kubernetesの運用は難易度が高い

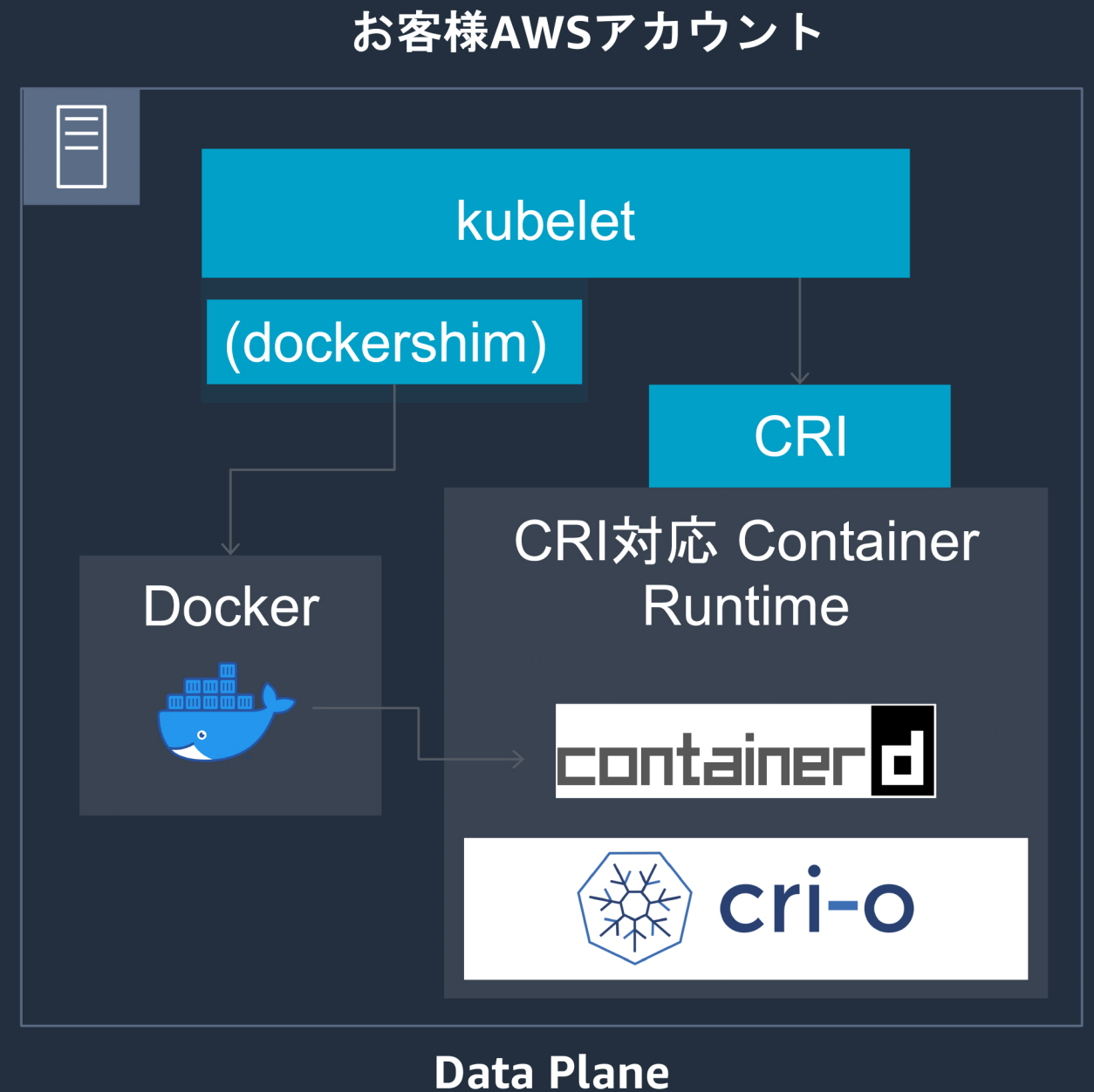
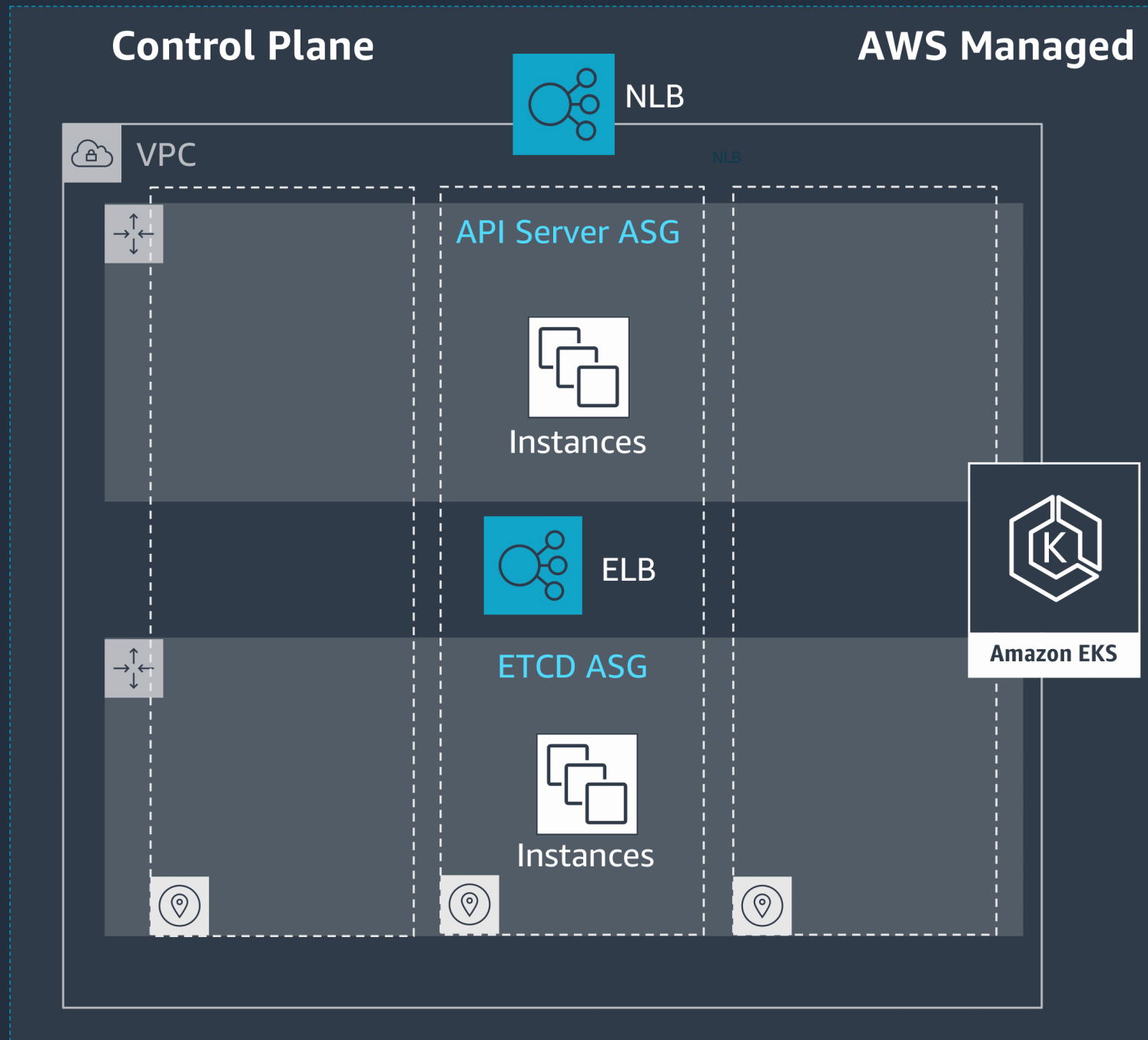


<https://v1-18.docs.kubernetes.io/docs/concepts/overview/components/>

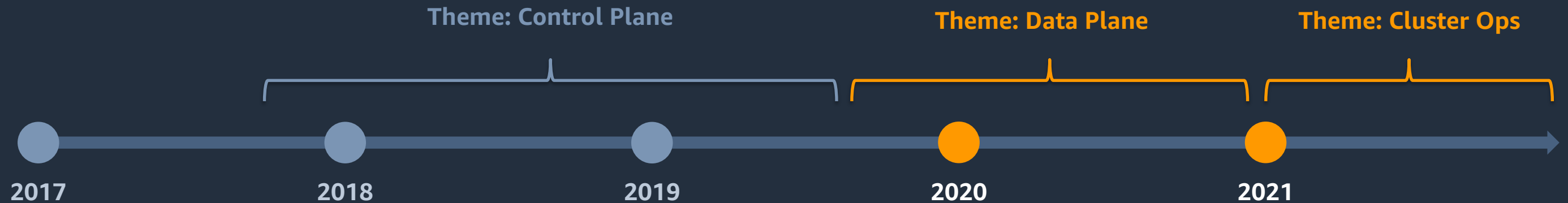


Amazon Elastic Kubernetes Service

AWS に Kubernetes Control Plane の管理をオフロード



お客様に代わってKubernetes環境の刷新を進める



Amazon EKS launches in 2020

Security and Reliability

- 99.95% Service Level Agreement (SLA)
- CIS Benchmark, FedRAMP Moderate
- Security Groups for Kubernetes Pods
- Secrets encryption with KMS

Storage and Networking

- EBS, EFS, and FSx for Lustre CSI Drivers
- VPC CNI Driver updates
- Private networking for Managed Node Groups
- AWS Load Balancer Controller

Tooling

- CDK for Kubernetes (cdk8s)
- AWS Controllers for Kubernetes
- Service Quotas Integration
- App Mesh GA
- Fargate Profiles in Cloudformation
- Helm support in Amazon ECR

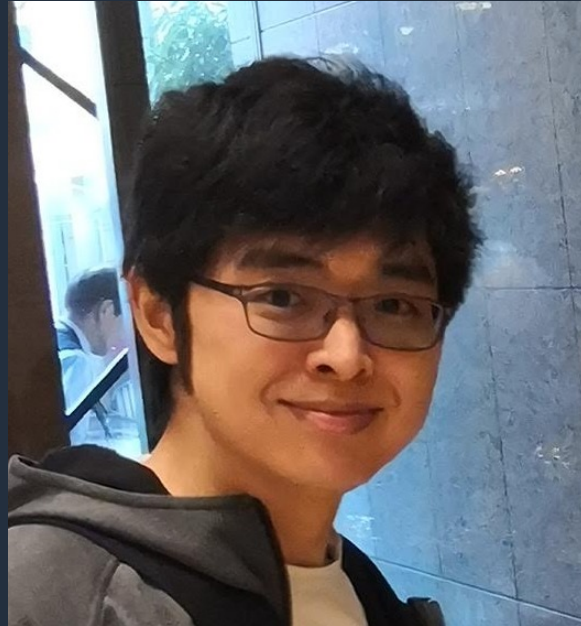
Node Groups

- Managed Node Groups custom launch templates
- AWS Graviton 2 (ARM)
- Outpost, Wavelength, and Local Zones

Region Expansion

- AWS GovCloud US (East), AWS GovCloud Us (West), Ningxia, Beijing, Cape Town, Milan, San Francisco regions
- Fargate region expansion – **Frankfurt, Oregon, Singapore, Sydney, Cape Town and Milan**
- Support for Kubernetes versions 1.15, 1.16, 1.17, 1.18

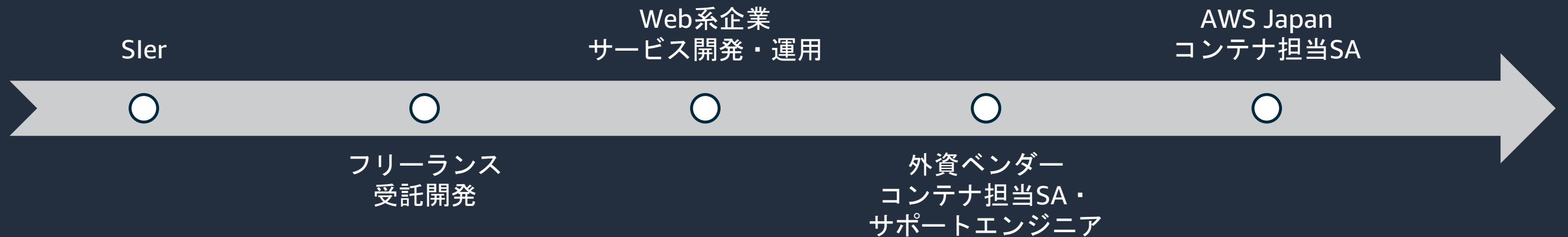
自己紹介



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好きなサービス

Amazon Elastic Kubernetes Service (Amazon EKS)
AWS Certificate Manager



Thank you