aws marketplace

WEBINAR

Achieving application portability with Kubernetes —build once, deploy anywhere

In collaboration with

DevOps Institute

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Speakers

Leo Murillo

Ambassador,
DevOps Institute

Alex Nelson

Sr. Cloud Infrastructure Architect, Aerospace and Satellite, WWPS Professional Services, Amazon Web Services (AWS)

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PURPOSE: Create, innovate, collaborate

Leonardo Murillo

CEO - Cloud Native Architects Inc

/in/leonardomurillo

Leo's career spans over 25 years of evolving technology, from software development and IT operations in the 90s to leading teams building cloud native technology across the world for companies of all sizes, from Silicon Valley startups to Fortune 500s today.

He is passionate about software engineering and artificial intelligence in the age of cloud and the landscape it enables and is a believer in organizational transformation and the role of the open source community in the evolution of technology as a means to empower society.

Having performed as consultant, solutions architect CTO and CEO over his career, Leo has helped organizations overcome business and technology challenges of all kinds by using the cloud, data and artificial intelligence.

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About DevOps Institute

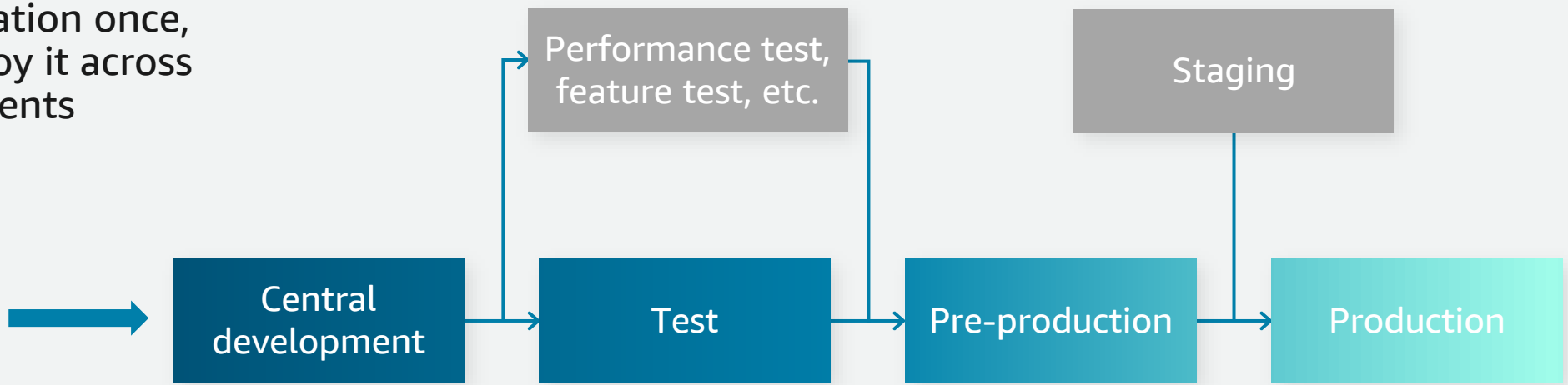
We drive human transformation in the digital age.

DevOps Institute is a professional association and certification authority that prepares people and organizations to succeed in building the processes and culture to support the future of IT. We are also a learning destination and community for technology practitioners and leaders looking to continuously learn about The IT technologies and processes that drive enterprise transformation.

What is application portability

Build your application once, successfully deploy it across diverse environments

Uniquely versioned, immutable artifact



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Two technologies towards simplified portability

OPEN CONTAINER INITIATIVE

kubernetes

- Vendor Agnostic
- Community Backed
- Fully Open Source
- Available everywhere!

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Kubernetes provides a common API, but not identical runtime environments

- Hostnames
- Endpoints
- Runtime configuration parameters
- Secrets and credentials
- Underlying infrastructure components (load balancers, storage devices)

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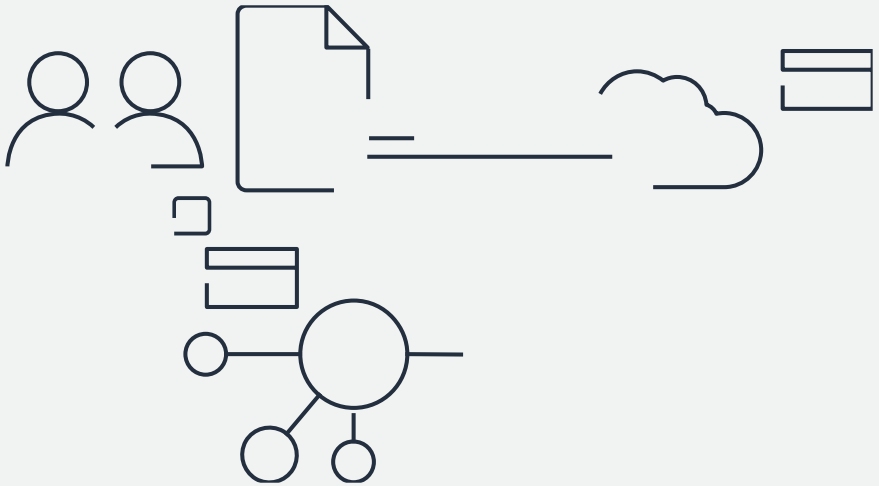
How do 12 factors address these

12 factors… what is that?

- Declarative
- Clean Contract
- Maximum Portability
- Cloud native
- CD friendly, minimized env. Divergence
- Scalable



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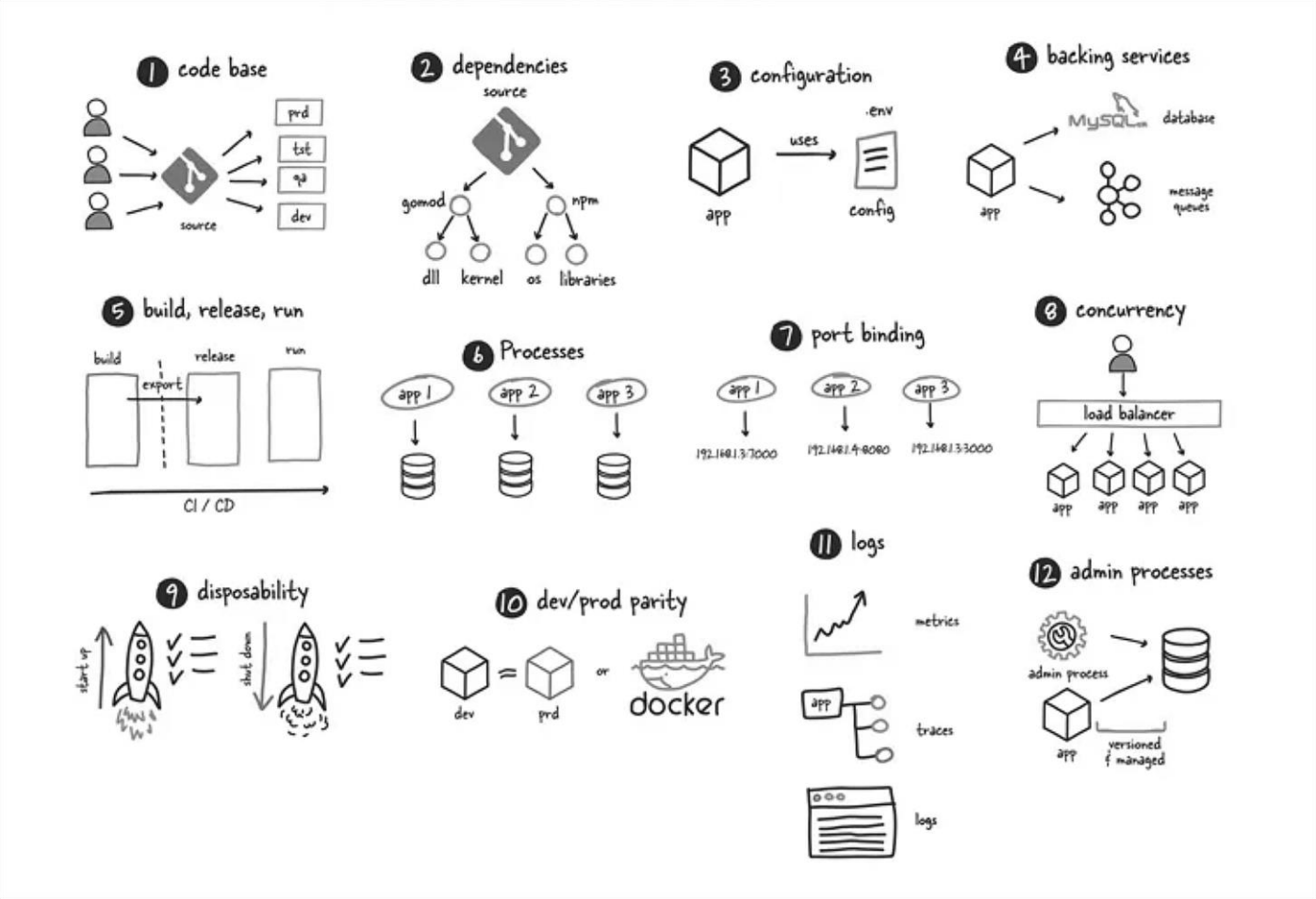
Let’s look at the architecture



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When everything is code, applies to infrastructure as well

AWS Controllers for Kubernetes

Manage AWS services using Kubernetes

Crossplane

Terraform

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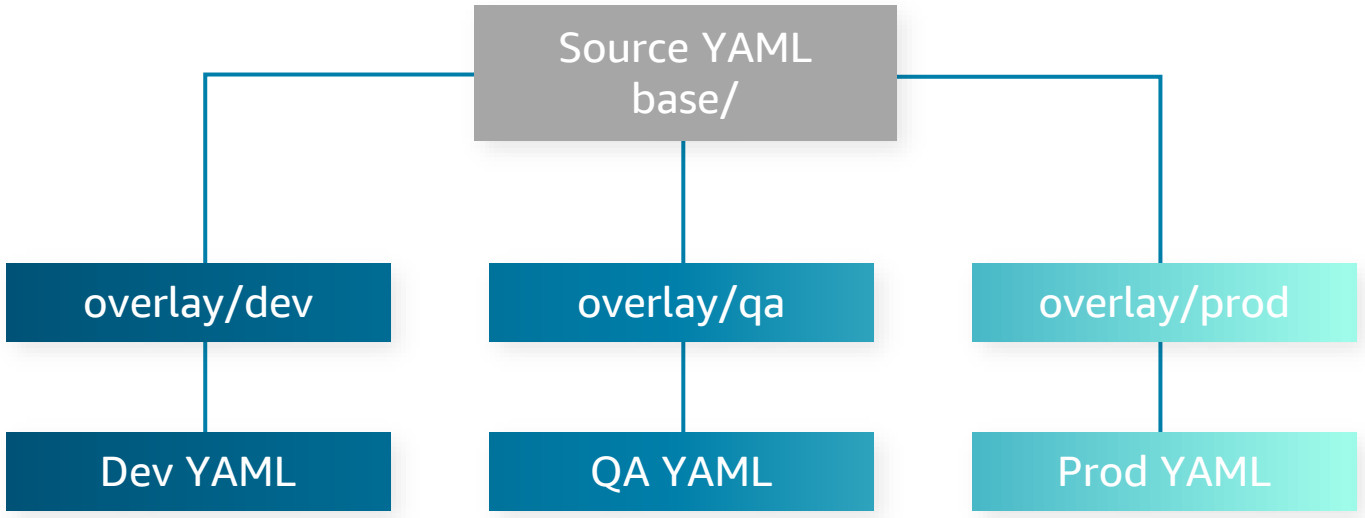
Kustomizing your environments




```
~/demoApp
├── base
│   ├── configMap.yaml
│   ├── deployment.yaml
│   ├── kustomization.yaml
│   └── service.yaml
└── overlays
    ├── production
    │   ├── deployment.yaml
    │   ├── kustomization.yaml
    │   └── config-map.yaml
    └── staging
        ├── kustomization.yaml
        └── config-map.yaml
```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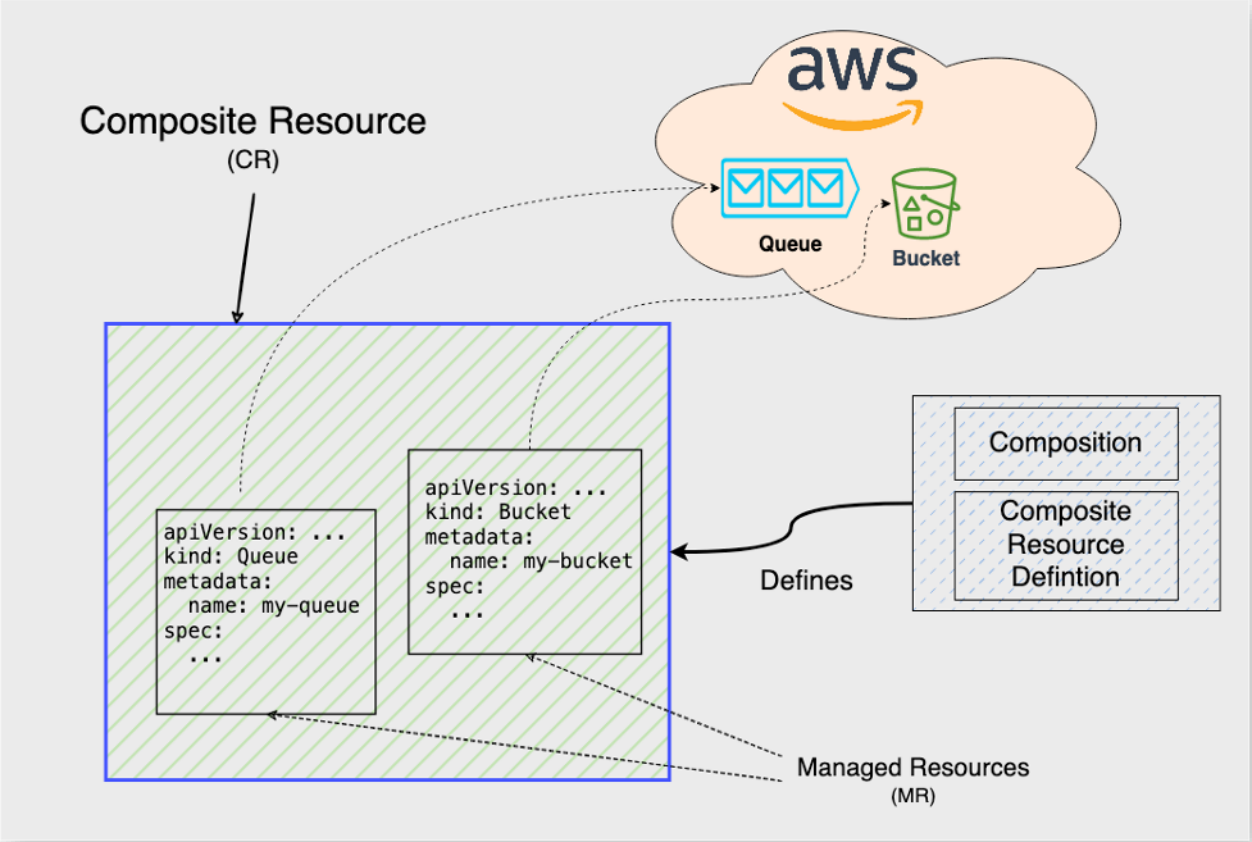
Working with infrastructure dependencies




```yaml
---
apiVersion: database.aws.crossplane.io/v1beta1
kind: RDSInstanceClass
metadata:
  name: mysql
  annotations:
    resourceclass.crossplane.io/is-default-class: "true"
specTemplate:
  writeConnectionSecretsToNamespace: crossplane-system
  forProvider:
    dbInstanceClass: db.t2.small
    masterUsername: root
    vpcSecurityGroupIDRefs:
      - name: rds-security-group
    dbSubnetGroupNameRef:
      name: dbsubnetgroup
    allocatedStorage: 20
    engine: mysql
    skipFinalSnapshotBeforeDeletion: true
  providerRef:
    name: aws-provider
  reclaimPolicy: Delete
```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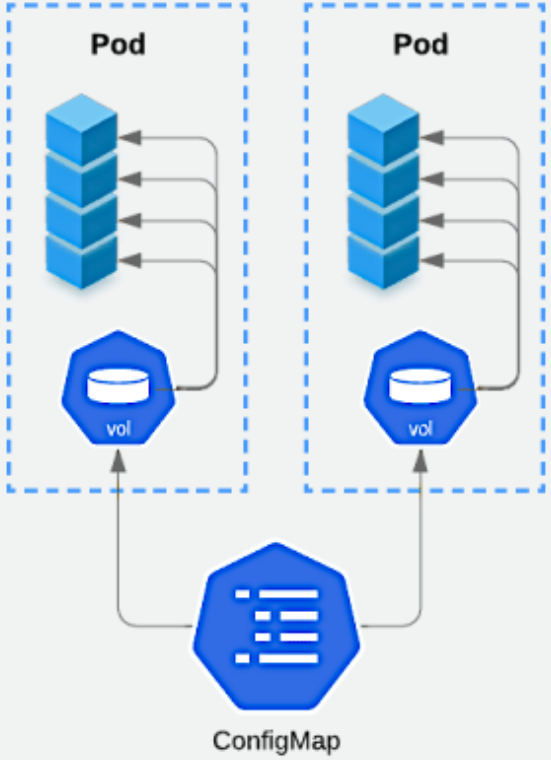
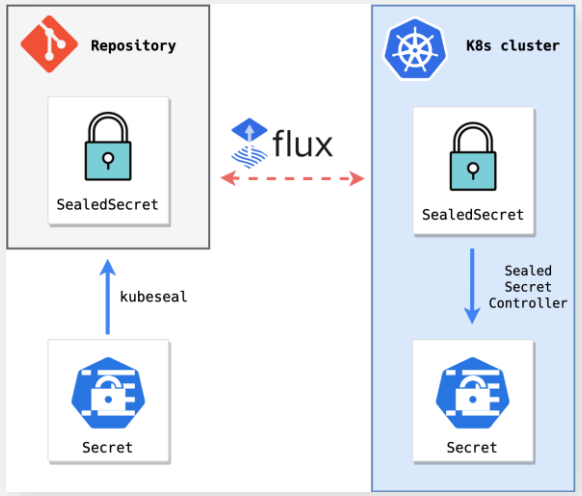
Kubernetes and Environment Injection

K8s offers many primitives to pass configuration during runtime:






```yaml
apiVersion: v1
kind: Pod
metadata:
  name: print-greeting
spec:
  containers:
  - name: env-print-demo
    image: bash
    env:
    - name: GREETING
      value: "Warm greetings to"
    - name: HONORIFIC
      value: "The Most Honorable"
    - name: NAME
      value: "Kubernetes"
    - name: MESSAGE
      value: "$(GREETING) $(HONORIFIC) $(NAME)"
    command: ["echo"]
    args: ["$(MESSAGE)"]
```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Delegate it to controllers

Your code declares an ingress

The controller running in the environments "chooses" the right way to provision

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Understanding every environment

Your application is not portable just because it runs everywhere, you need to be able to understand its operation and behavior wherever it runs.

=

Portable observability

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Making telemetry portable

Delegate capturing and storing telemetry to the environment:

- Use stdout, stderr and other standard output descriptors
- Use sidecars and other patterns that decouple telemetry generation from capture and sink.

Use open standards with wide range of implementations for various stacks

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How do you deploy?

GitOps!

- **Pull –** no need to establish outgoing connections or modify centralized deployment systems when new environments are spun up.
- **Declarative –** Code describes, does not define actions.
- **Versioned single source of truth –** think Git.
- **Continuously reconciled –** Not a one time “event”, rather a continuous process of ensuring there’s no drift from what is declared.

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Caveats of multiple architectures

Sometimes you need to build more than once

Still, use the same version for the code, and add build target to tag.

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Consider library portability

Look for libraries and SDKs that offer releases for the various architectures you need to build.

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Key takeaways

- Kubernetes and container images are key to achieving application portability.
- Your application must be architected so that it can be configured during runtime to work in any target environment.
- 12 factors are a great way to achieve portable architecture
- Delegate specifics to controllers, declare generic resources and let controllers make the right choices.
- Follow the same patterns for applications and infrastructure code
- If you need to build for multiple architectures, consider libraries and build and release infrastructure compatibility

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Application portability Management with Kubernetes on AWS

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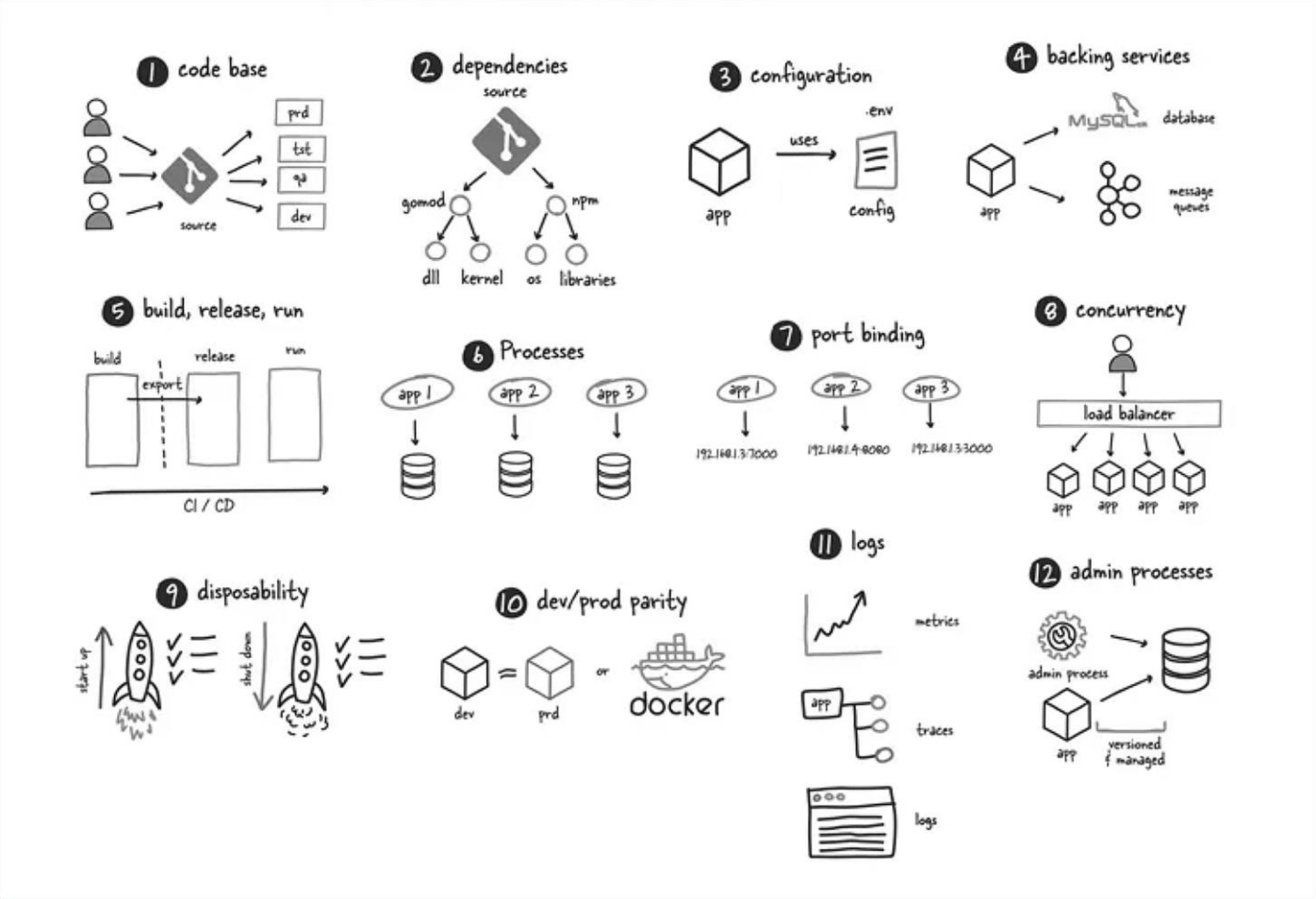

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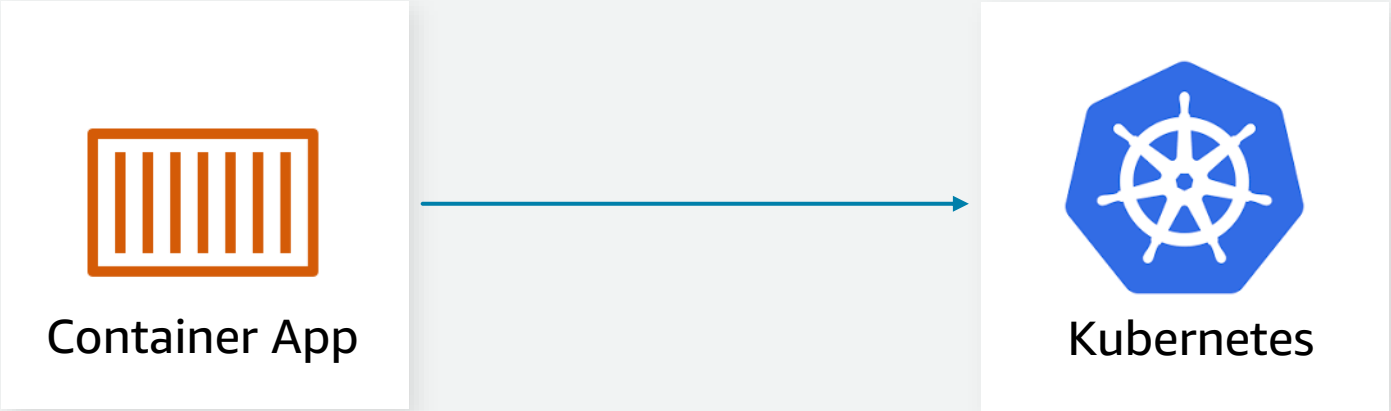

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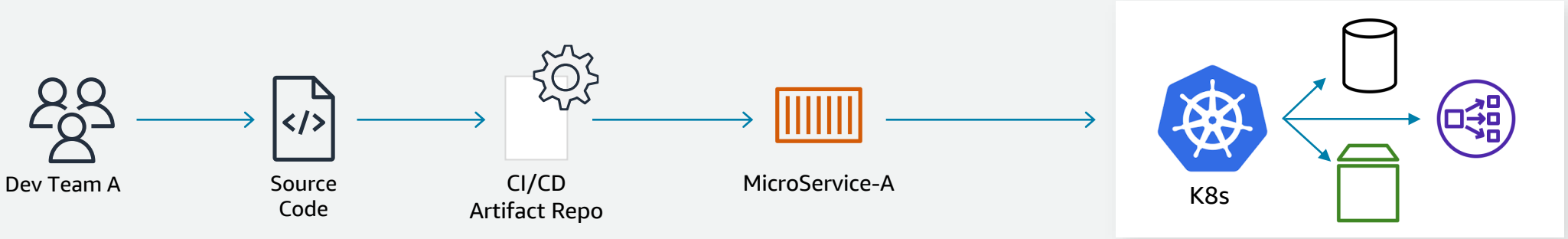

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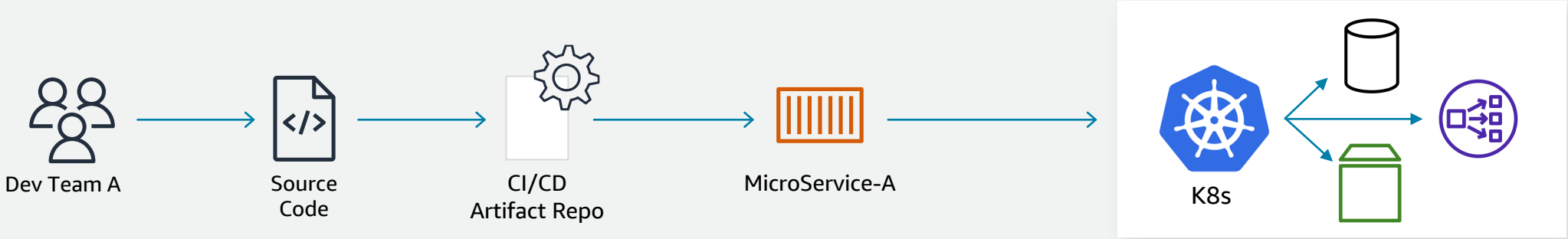

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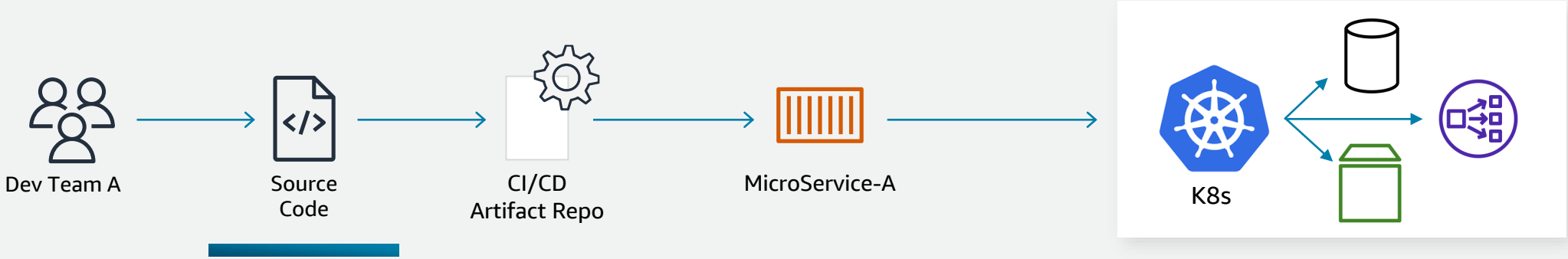

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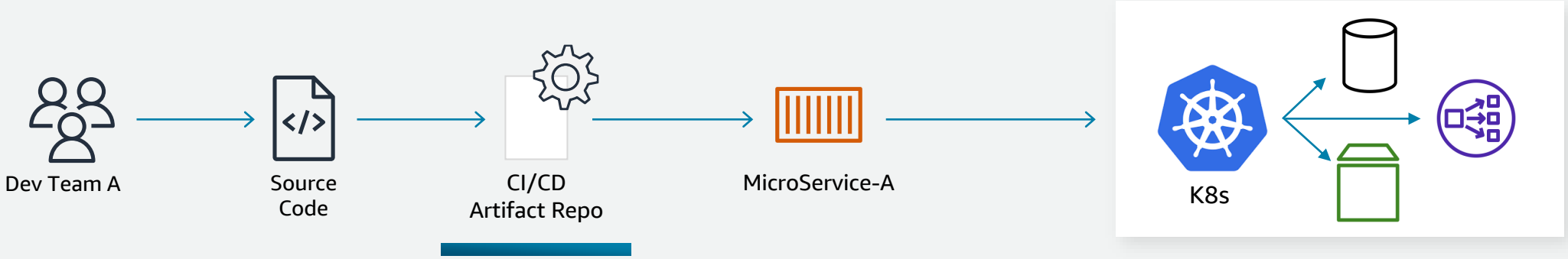

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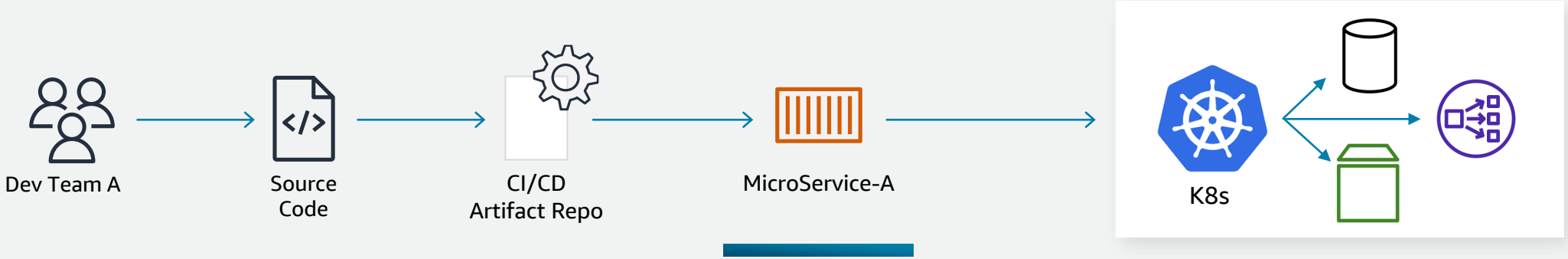

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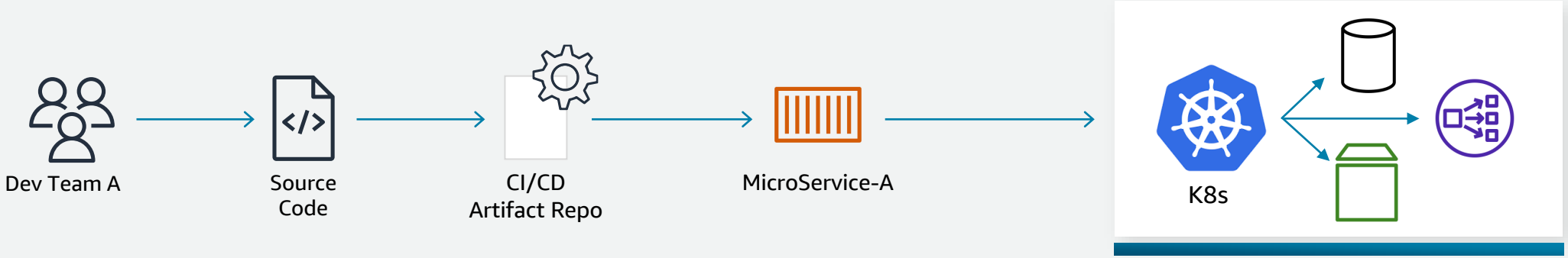

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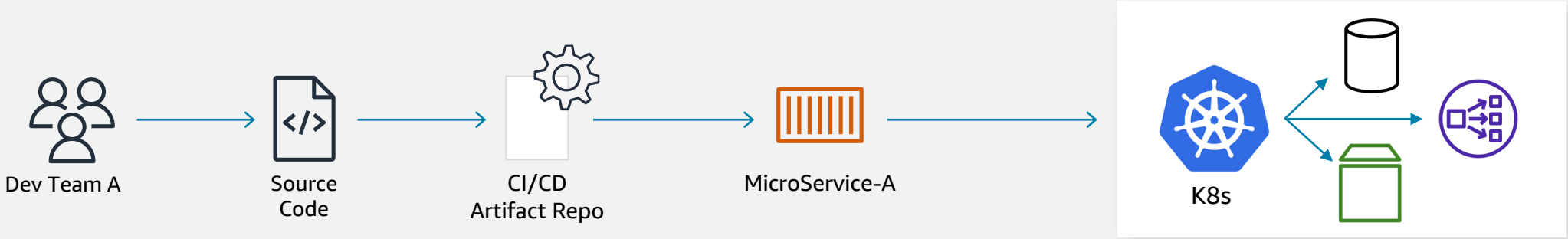

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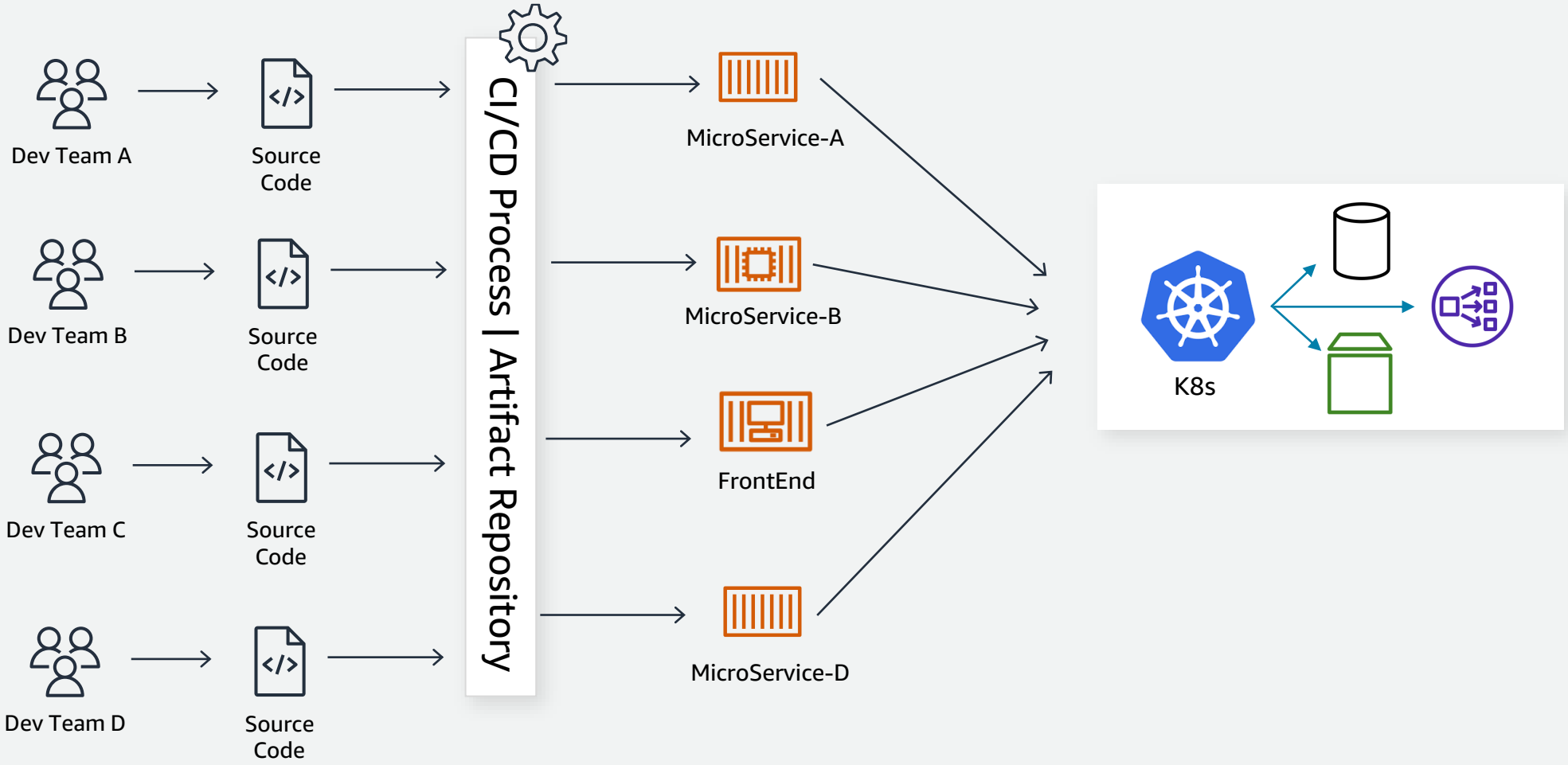

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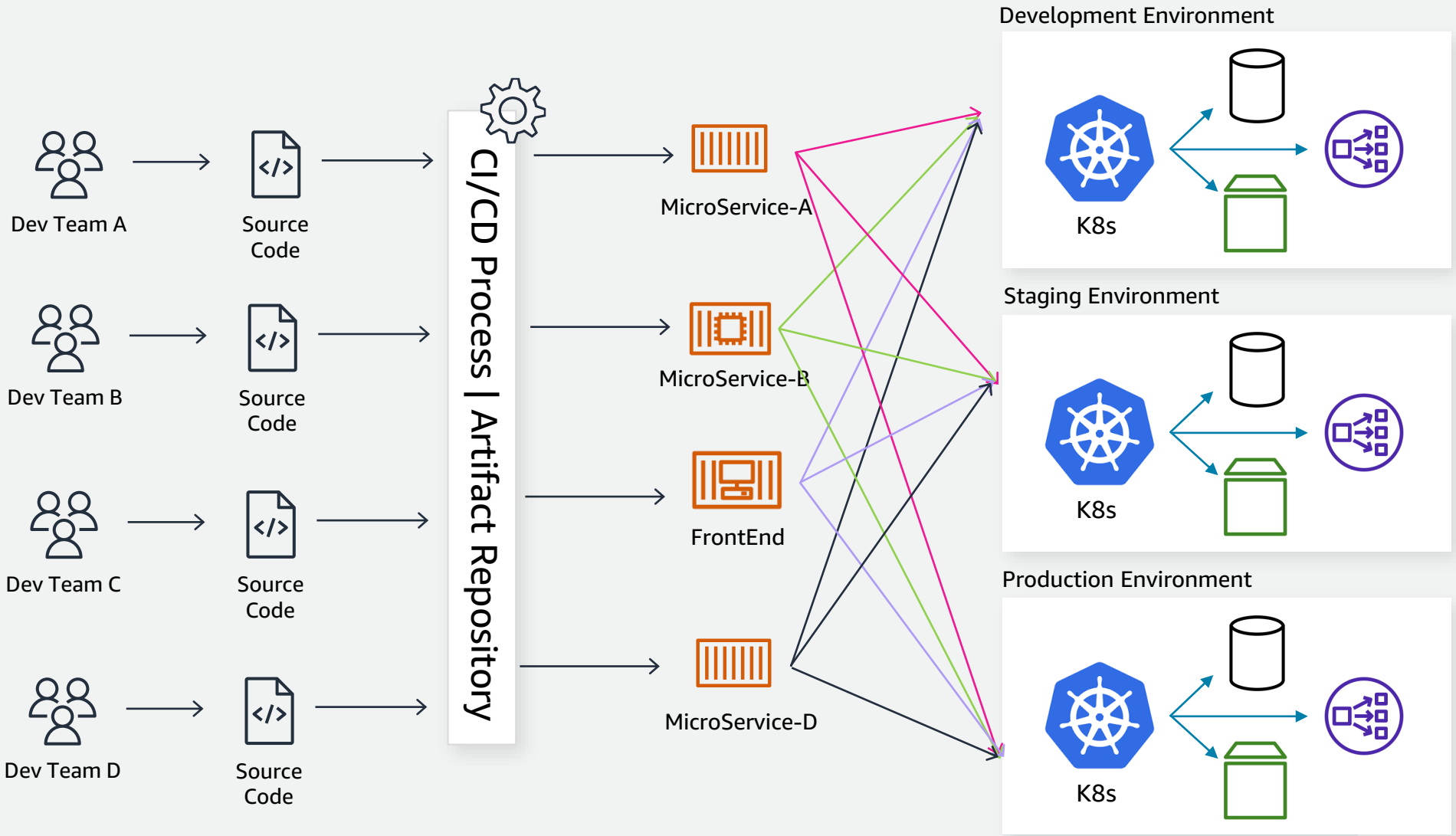

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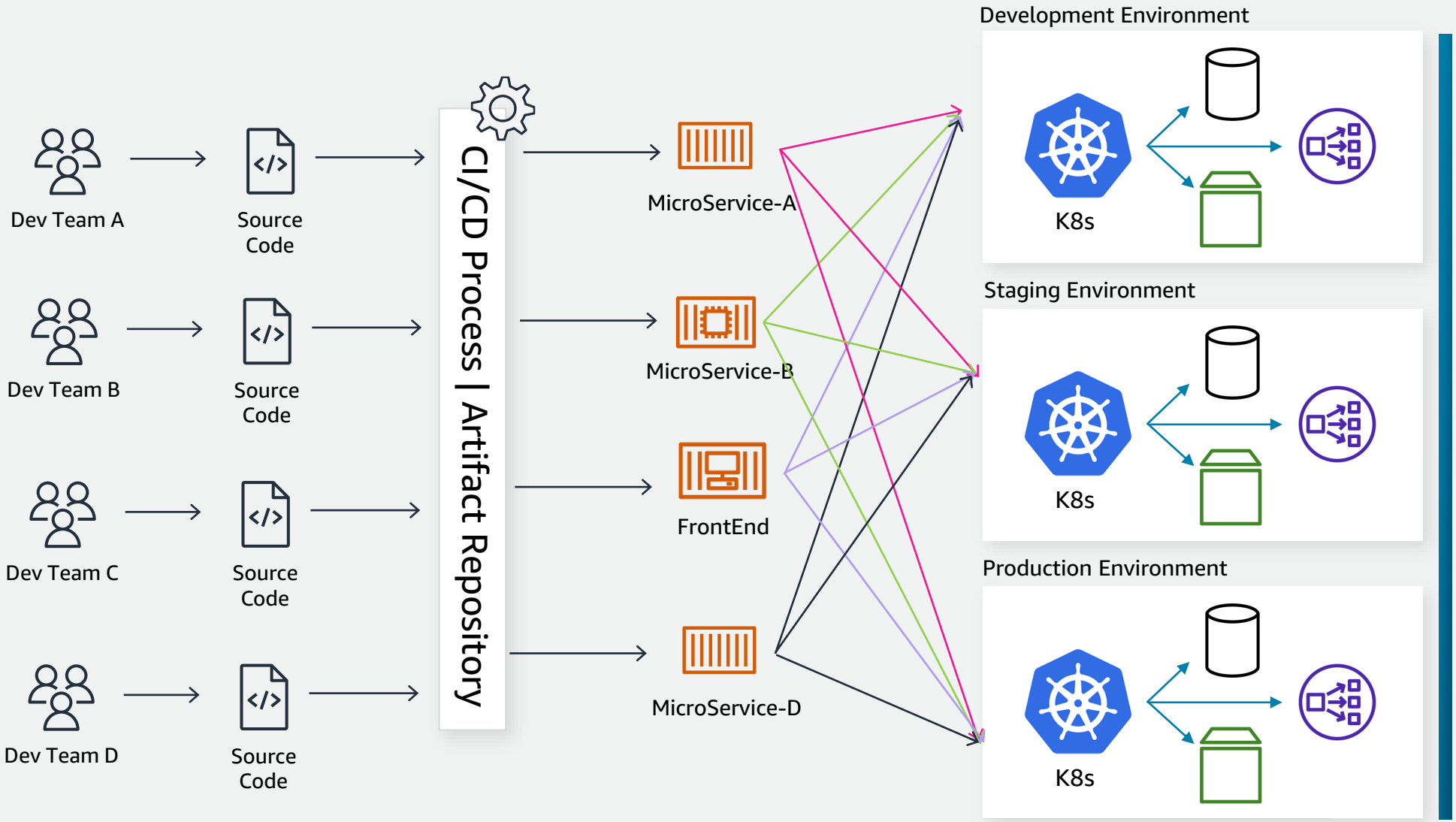

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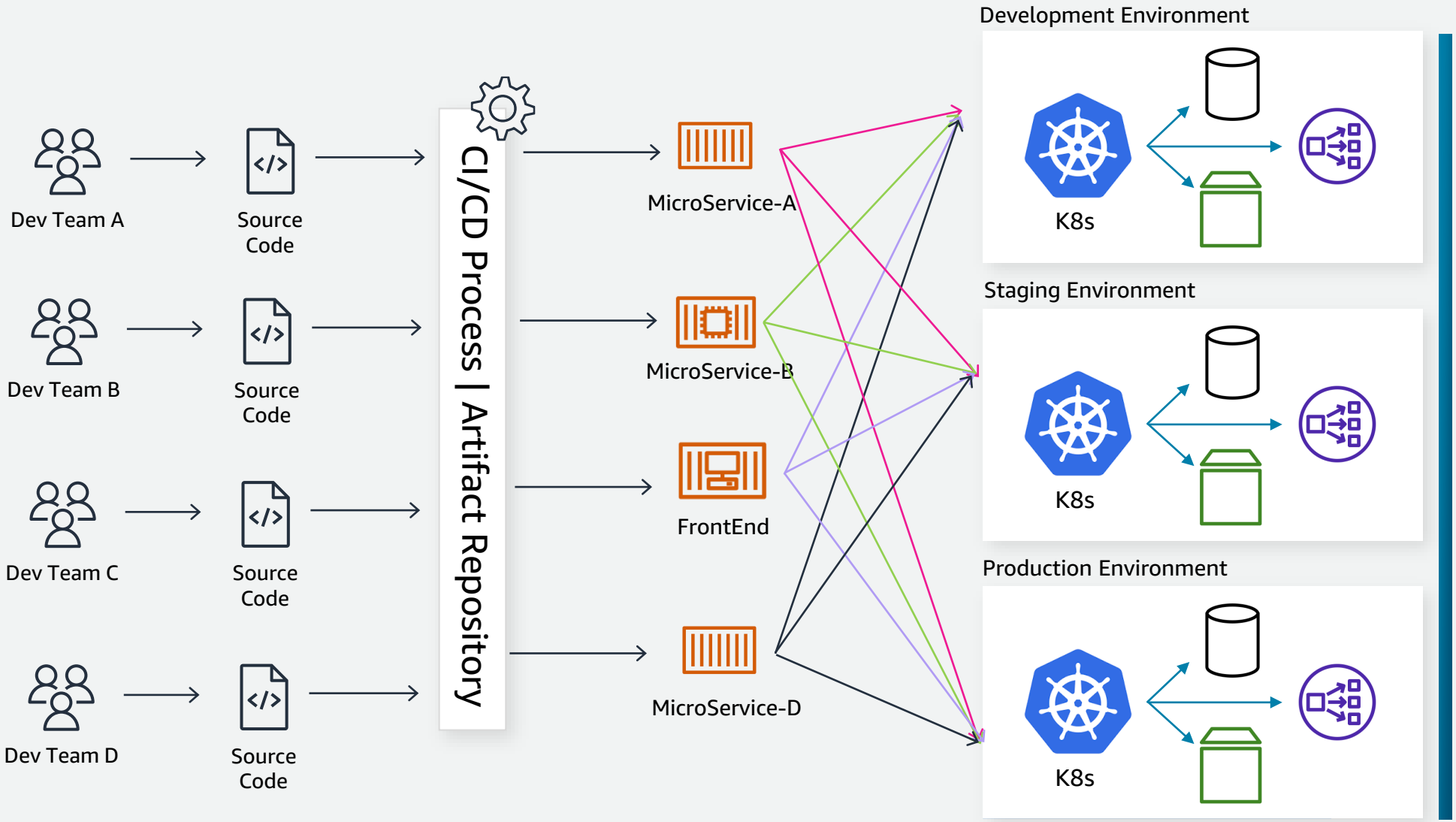

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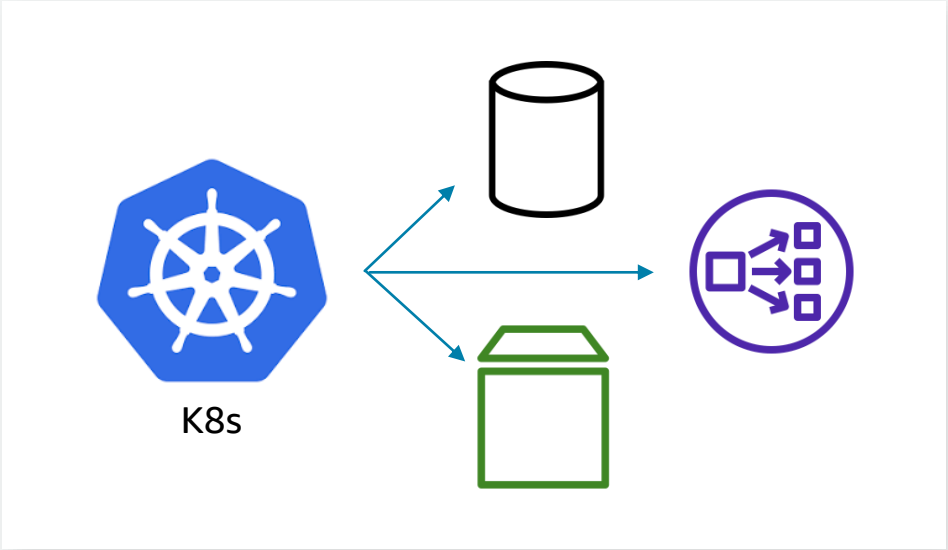

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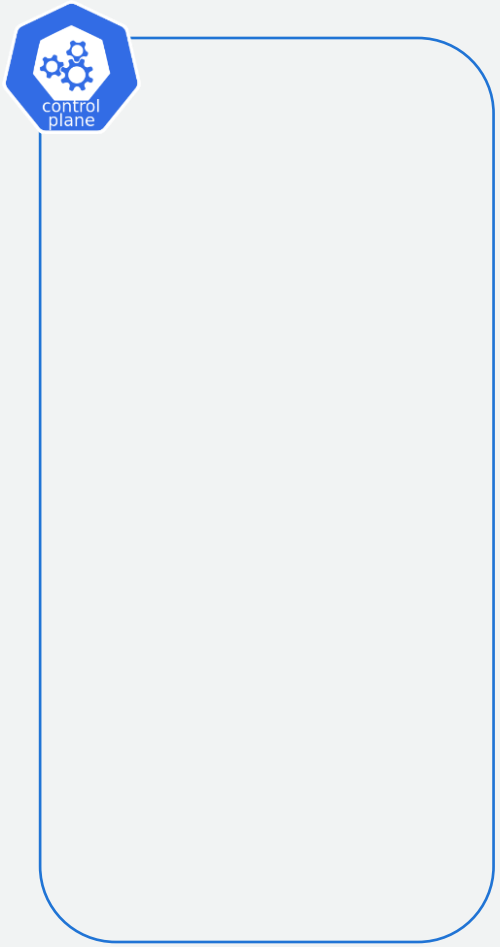

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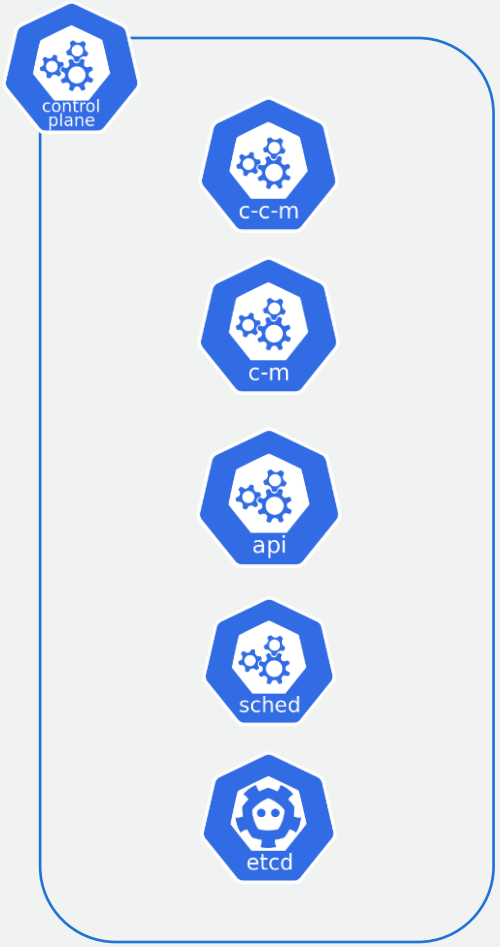

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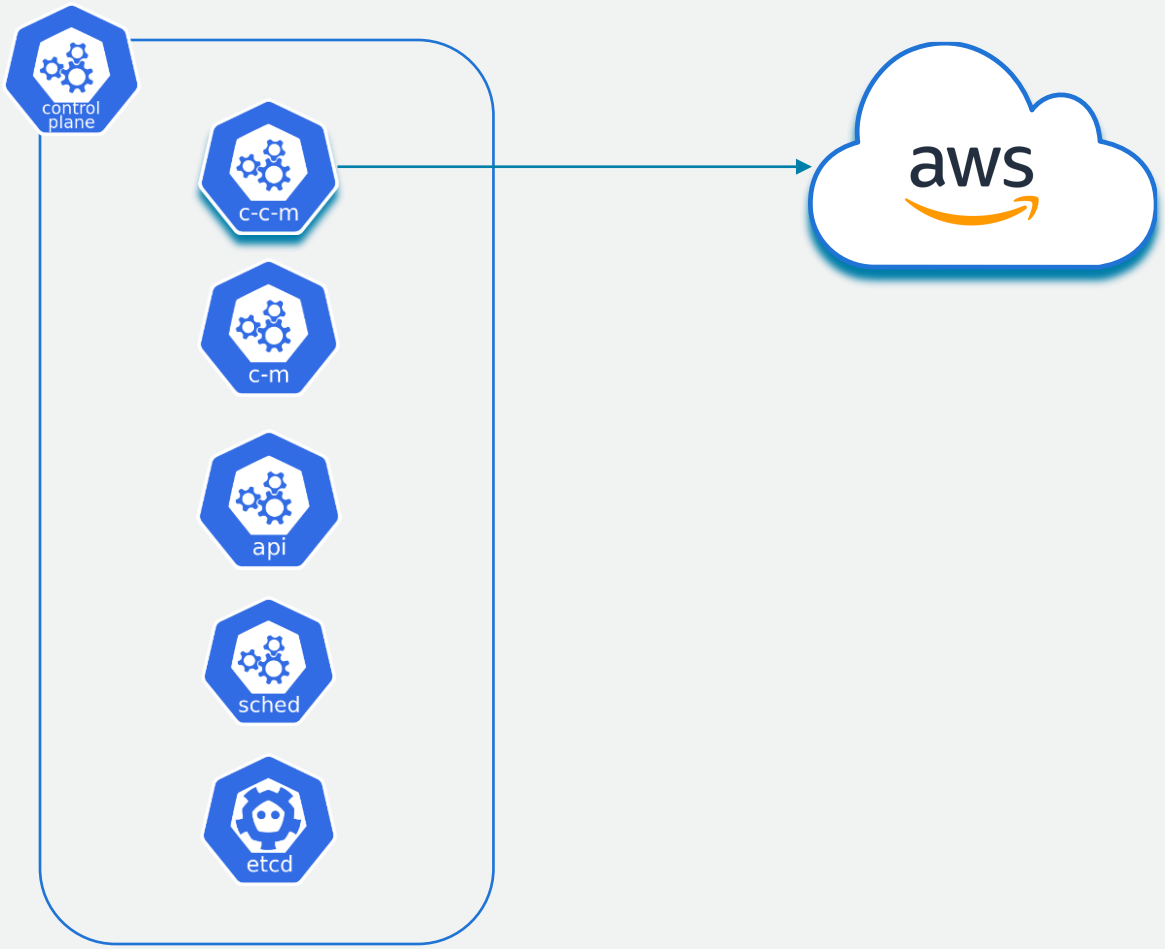

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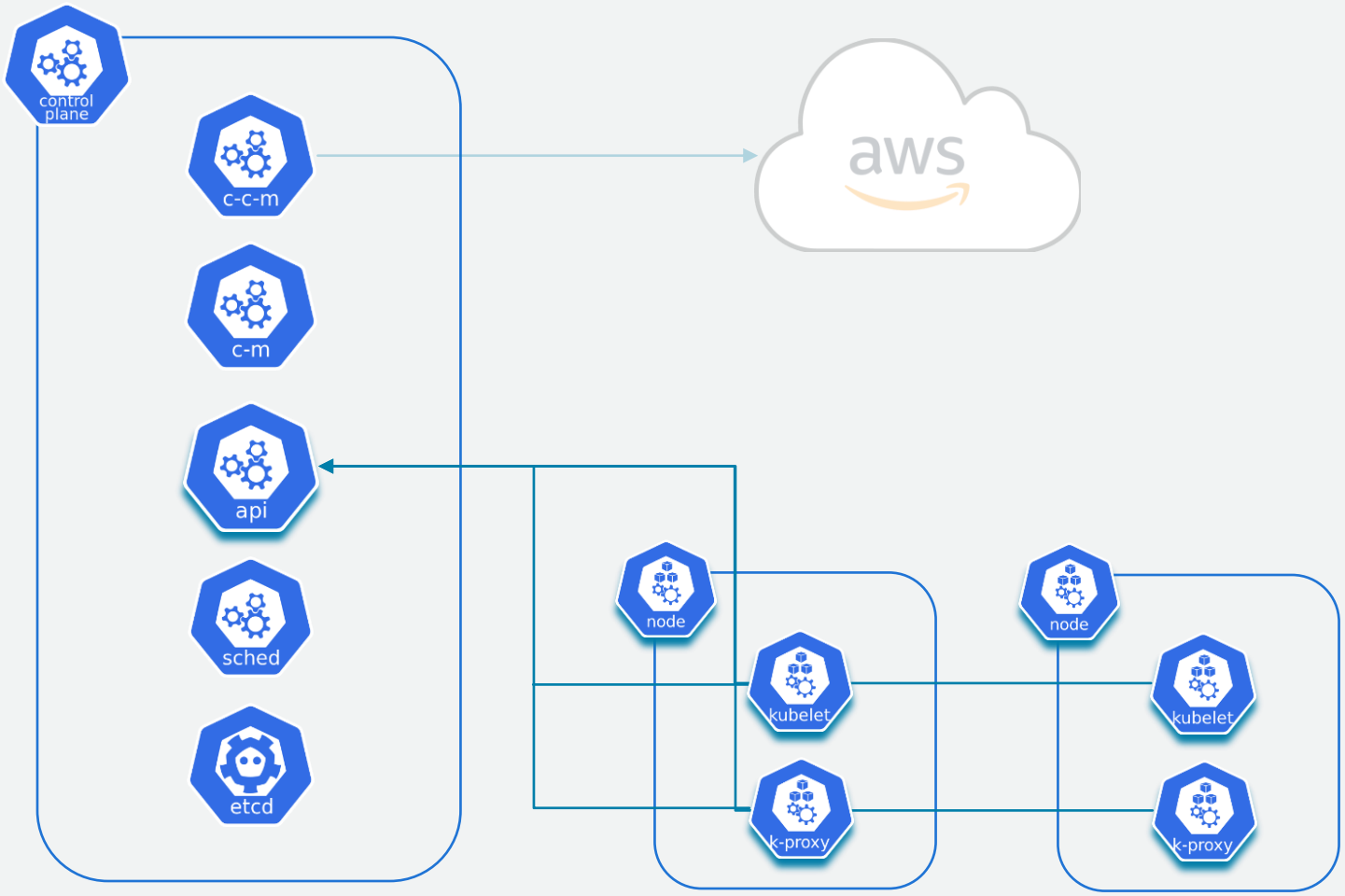

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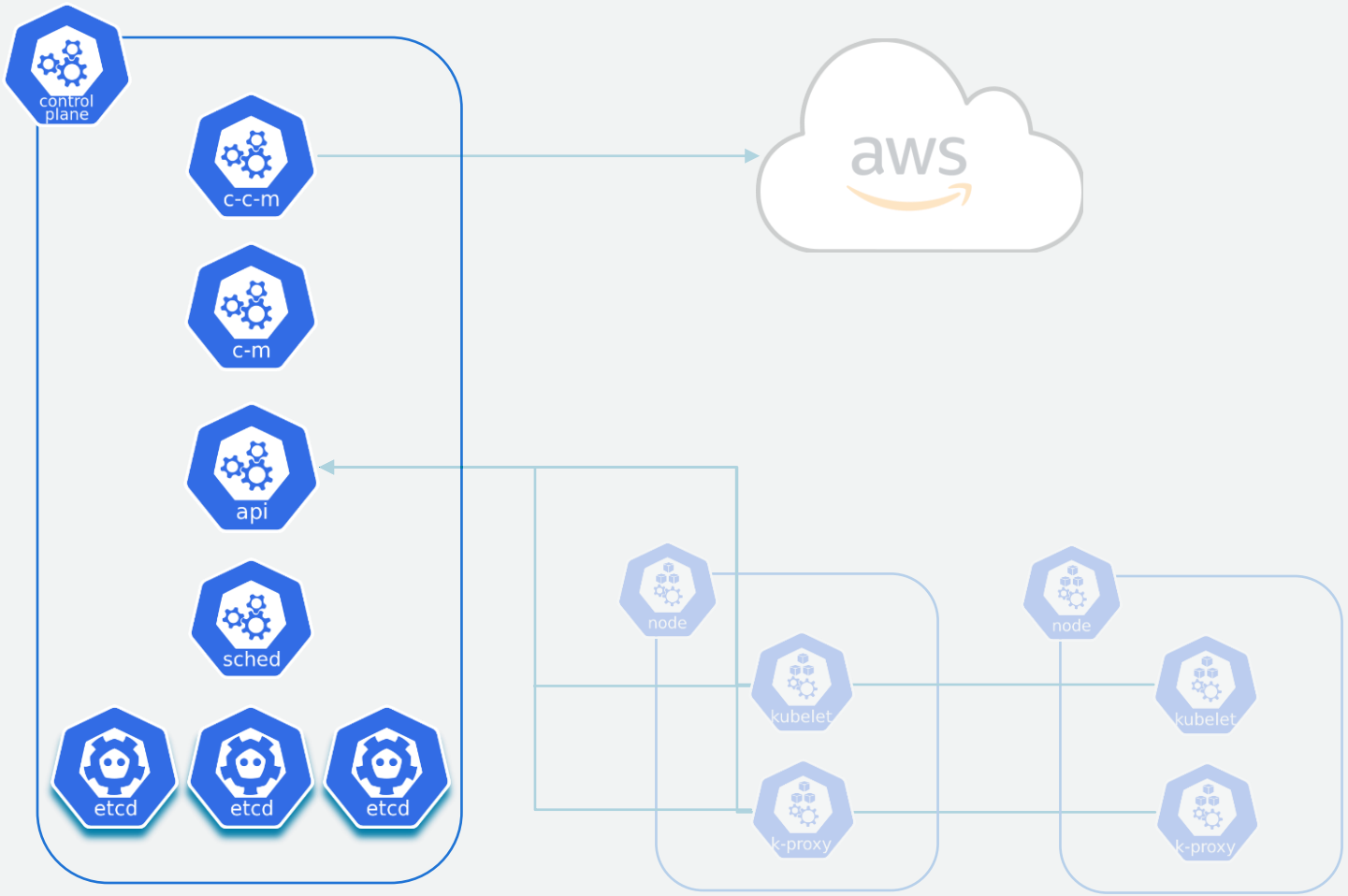

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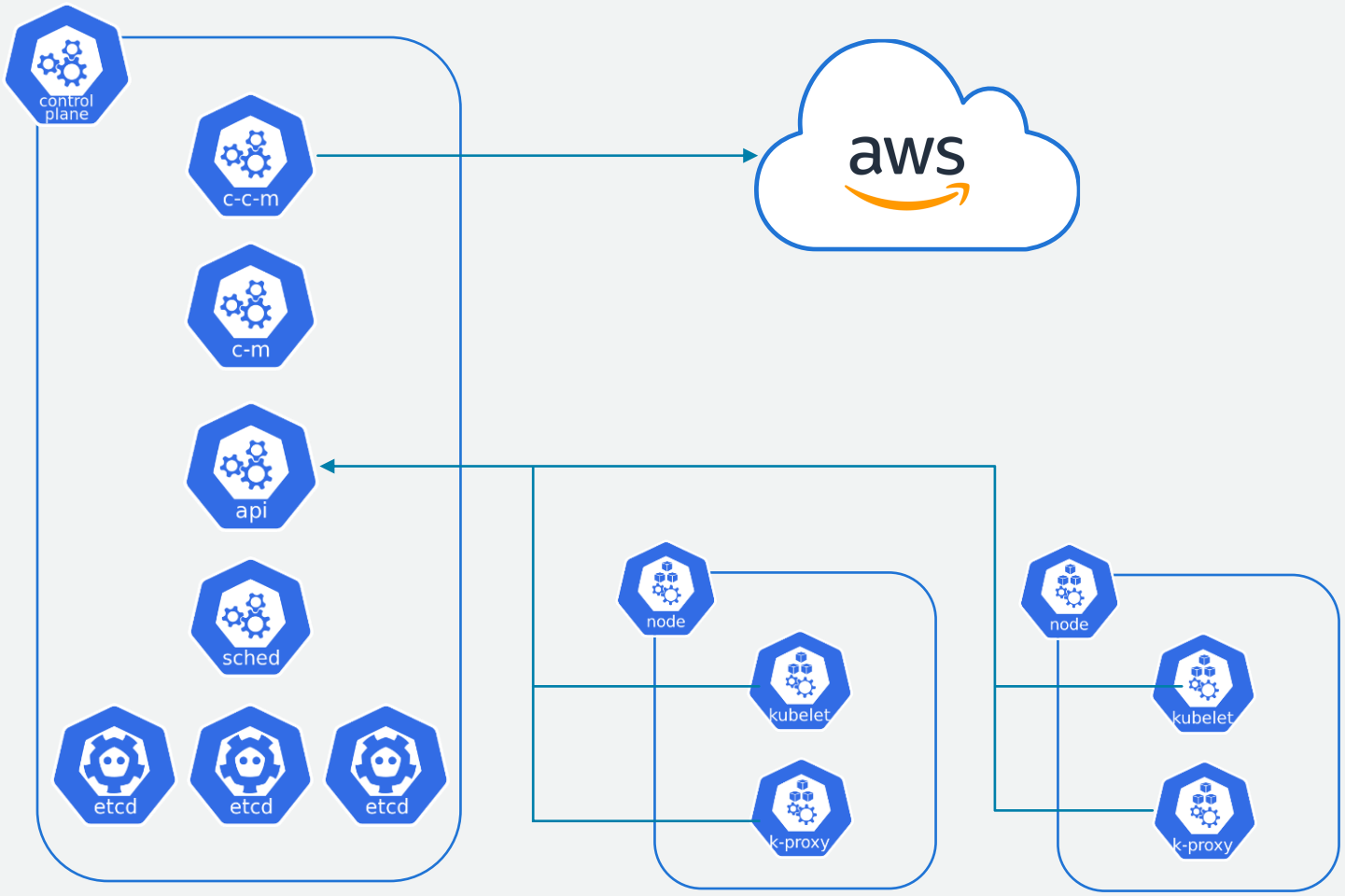

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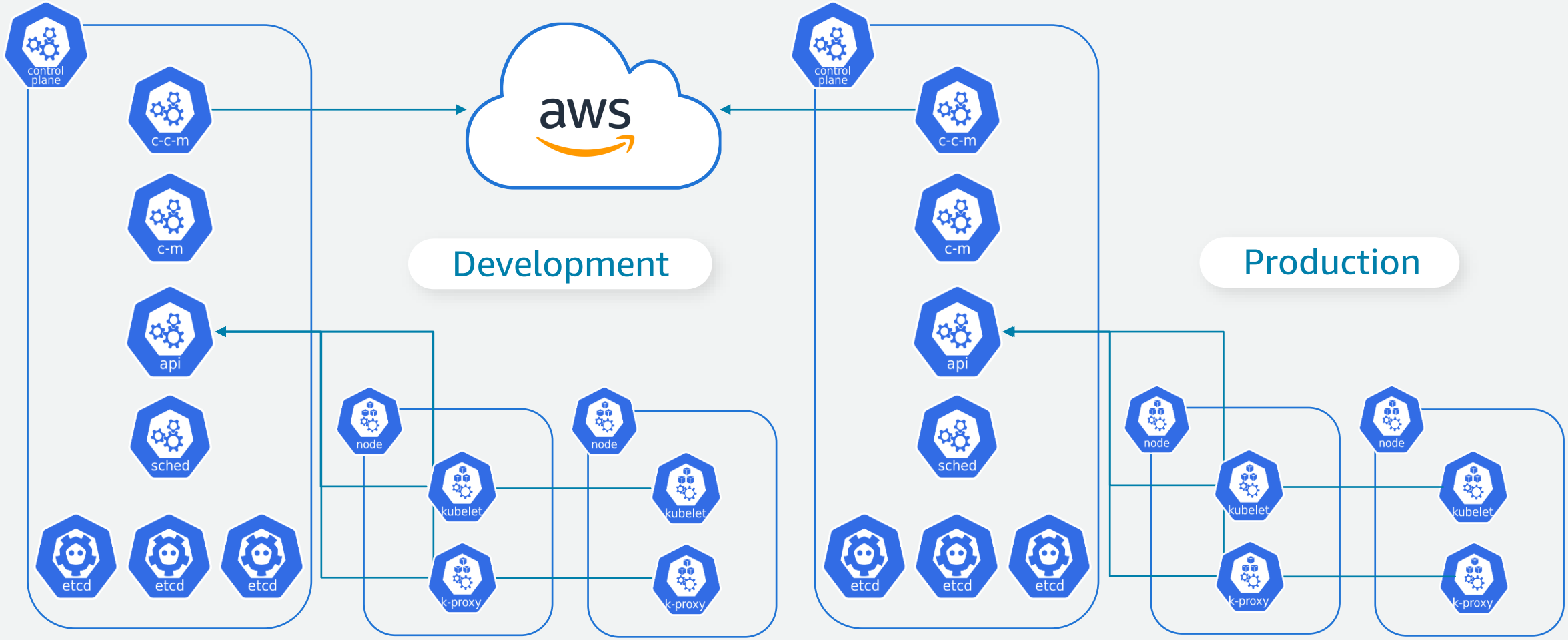

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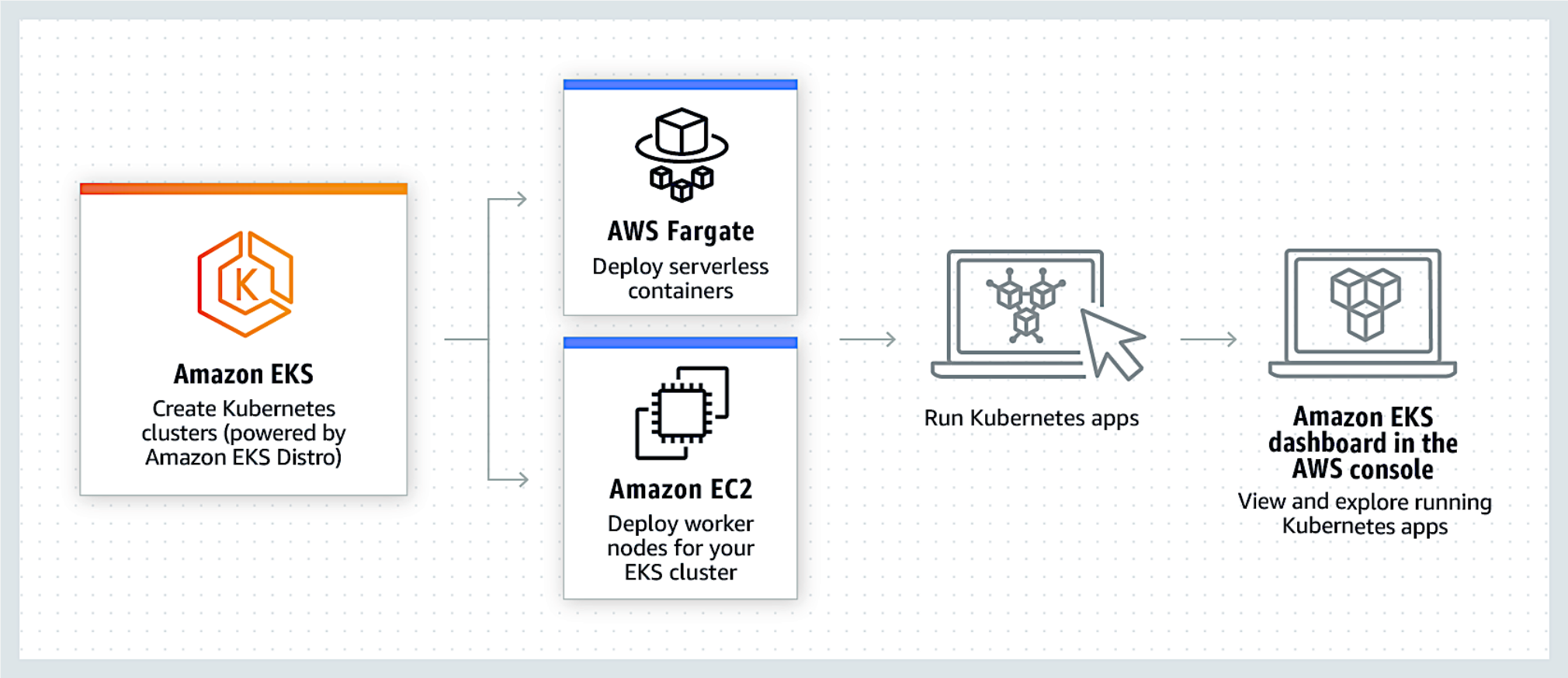

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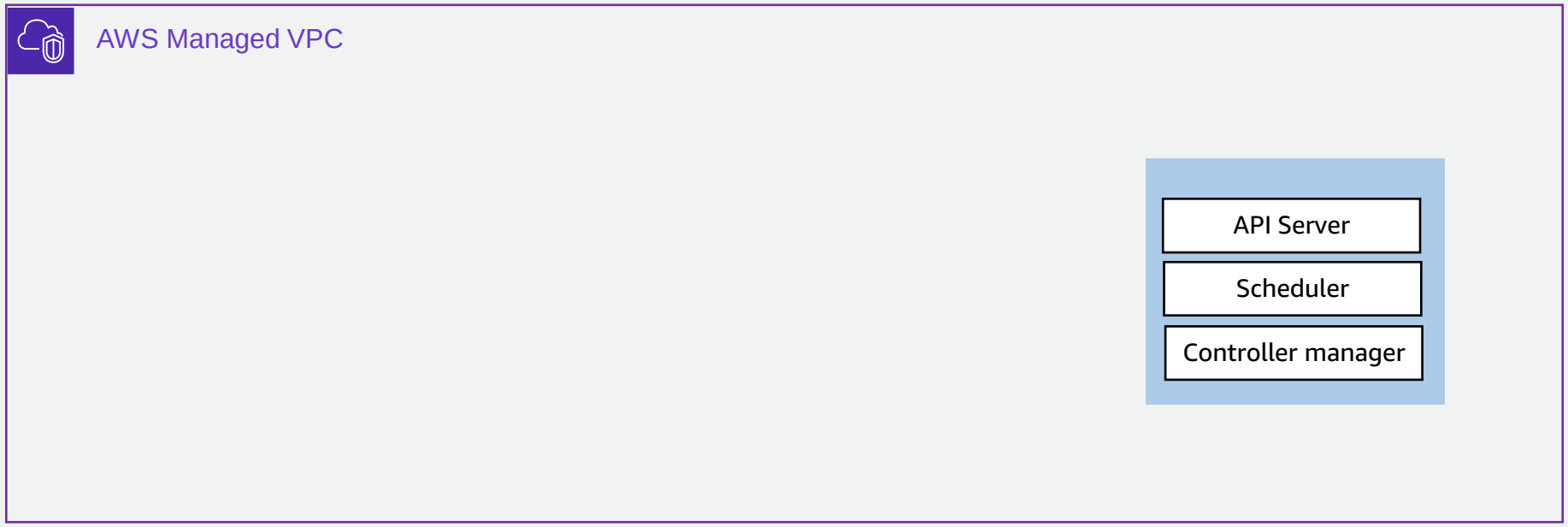

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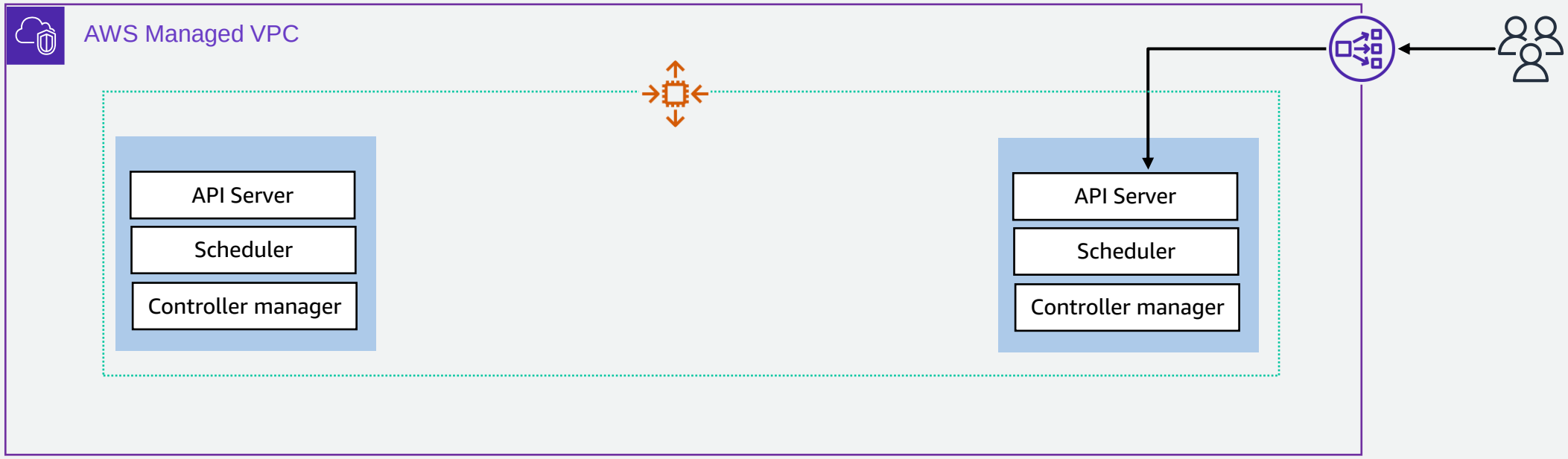

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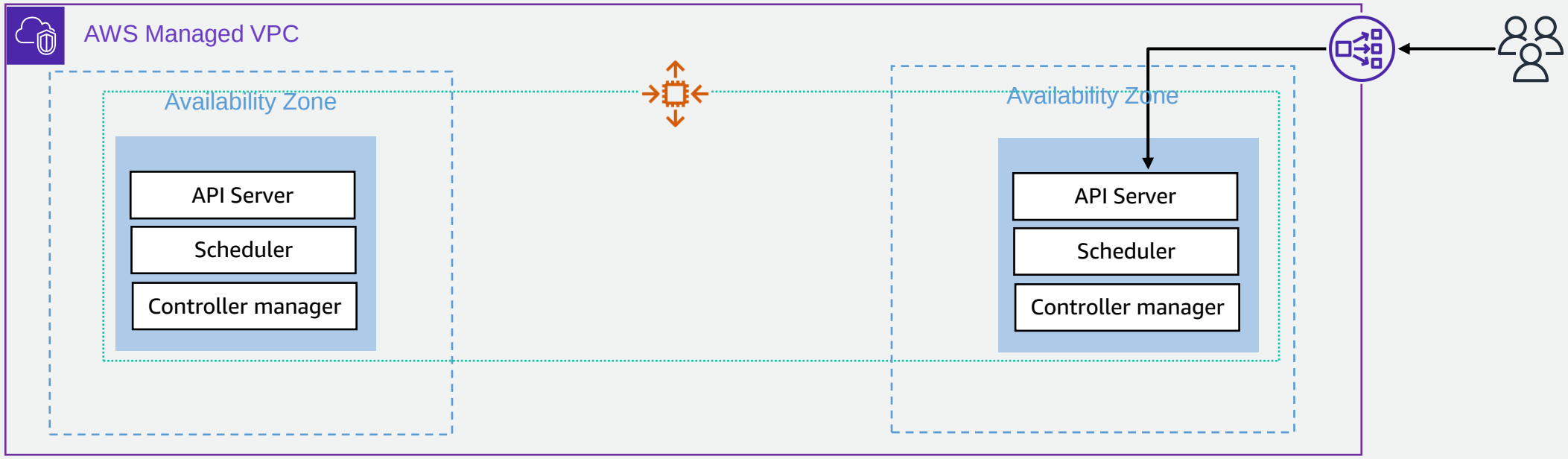

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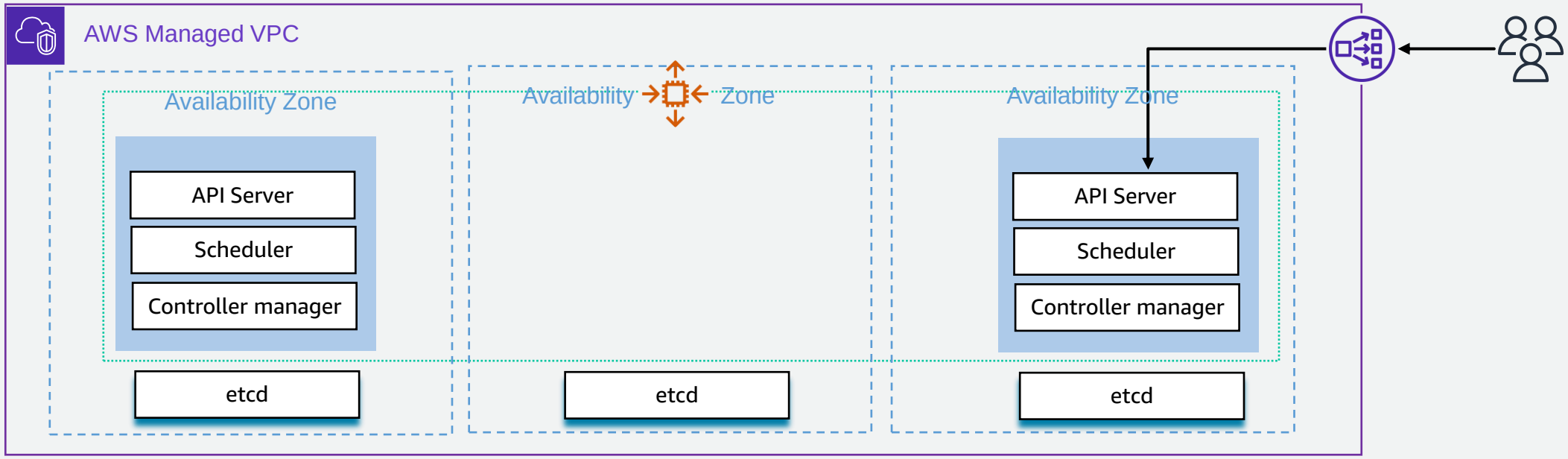

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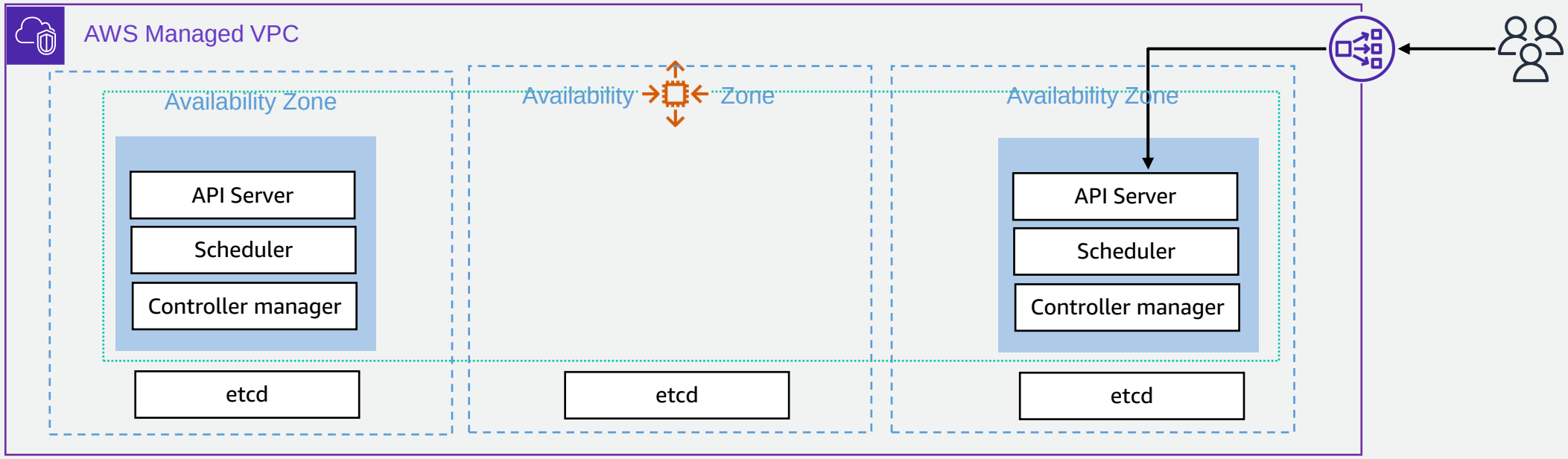

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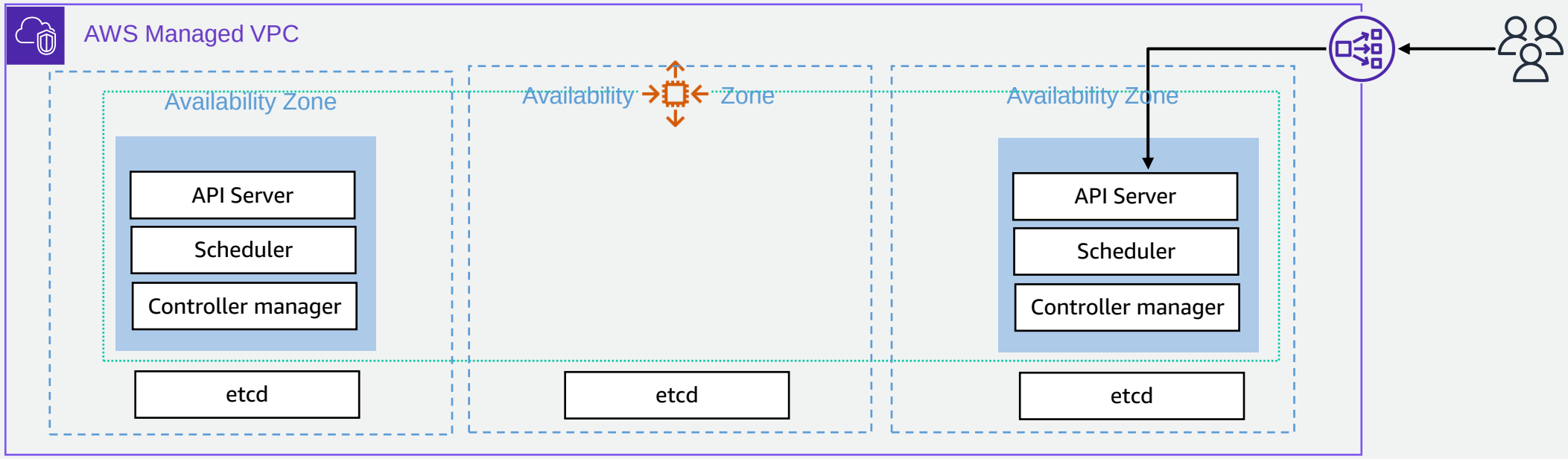

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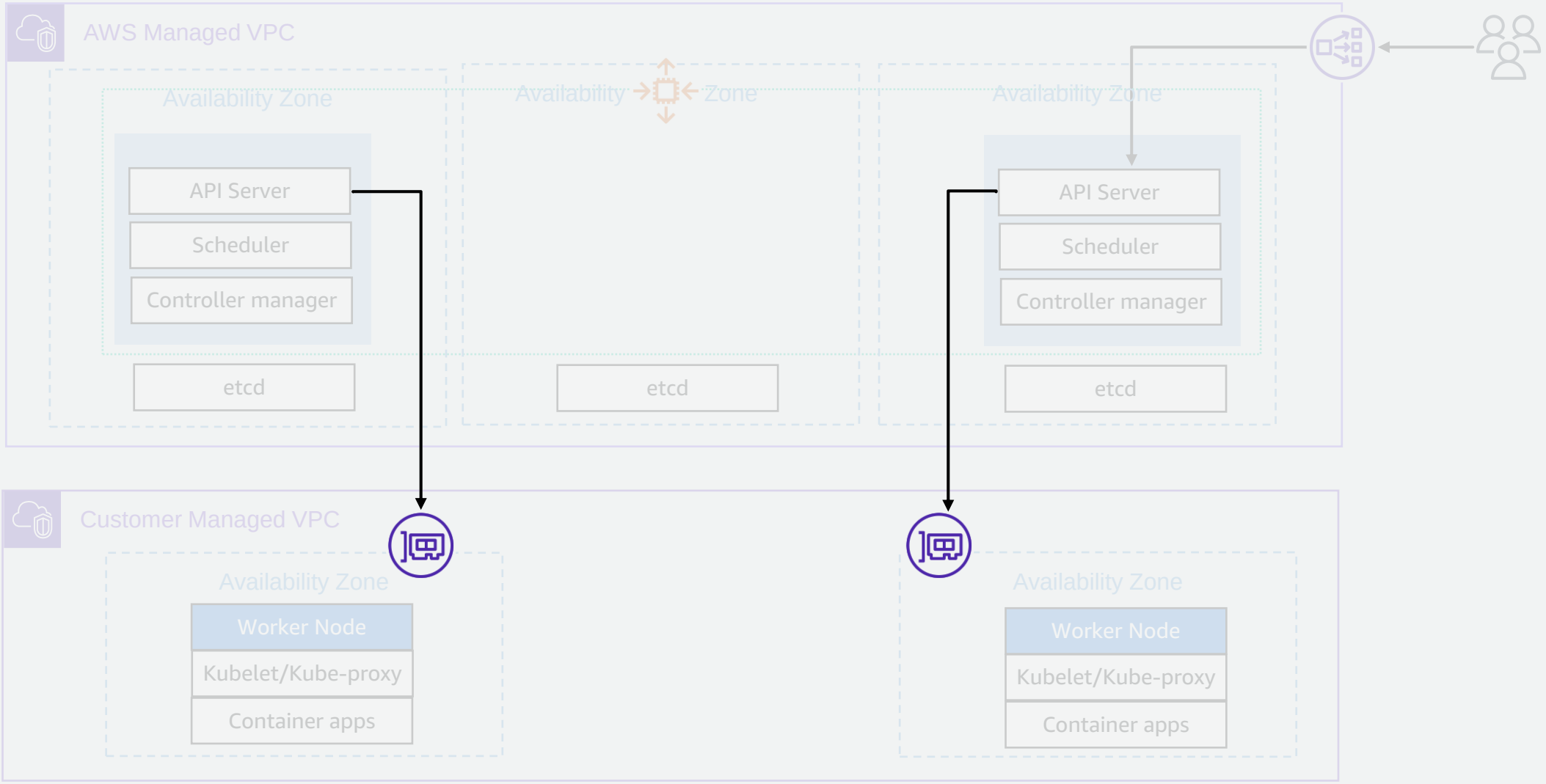

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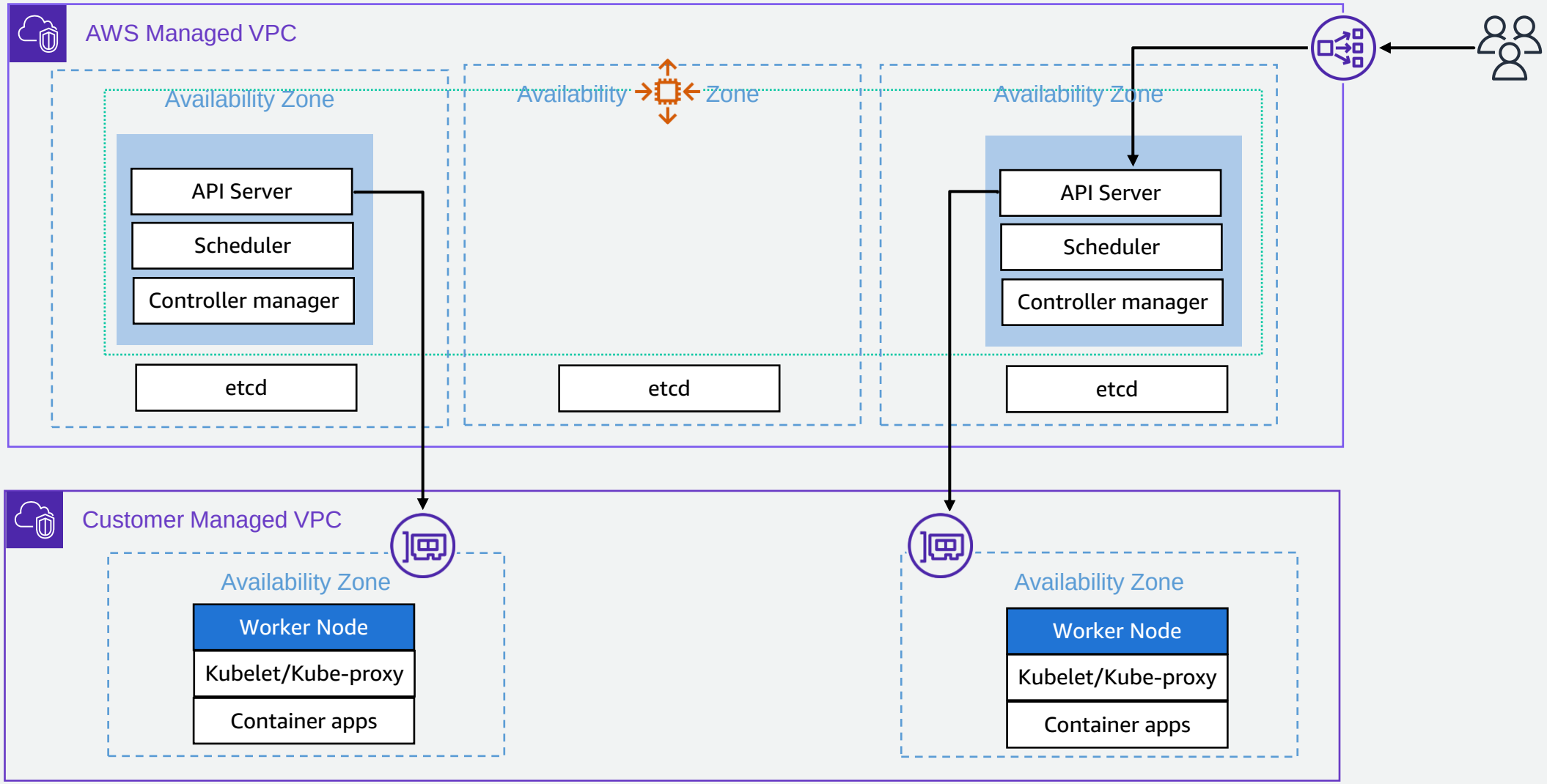

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Challenges

- Enforce standards and best-practices across clusters

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- Create boundaries between application teams

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Challenges

- Enforce standards and best-practices across clusters
- Create boundaries between application teams
- Ensure add-ons dependencies
- Automatically add new environments
- Manage configuration and upgrade from a single source

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Amazon EKS Blueprints For CDK and Terraform

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Amazon EKS Blueprints

An open-source framework that allows you to **configure and deploy complete** EKS clusters

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Infrastructure as Code with Terraform and CDK

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Based on AWS best practices and recommendations

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Integrated with popular K8s tools and services

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Amazon EKS Blueprints

An open-source framework that allows you to **configure and deploy complete** EKS clusters

Infrastructure as Code with Terraform and CDK

Based on AWS best practices and recommendations

Integrated with popular K8s tools and services

Fully extensible and customizable

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Amazon EKS Blueprints

Clusters

Amazon **EKS**

Bottlerocket

AWS **Fargate**

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Amazon EKS Blueprints

Add-ons

ArgoCD

CoreDNS

External DNS

Grafana

Nginx

Cluster Autoscaler

OPA

Prometheus

Clusters

Amazon **EKS**

Bottlerocket

AWS **Fargate**

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Amazon EKS Blueprints

Teams

Team A | Team B | Team C | Team D | Team E

Add-ons

ArgoCD | CoreDNS | External DNS | Grafana

Nginx | Cluster Autoscaler | OPA | Prometheus

Clusters

Amazon **EKS** | **Bottlerocket** | AWS **Fargate**

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What you get with EKS Blueprints

Cluster Management	• Configure and deploy EKS clusters according to AWS best practices. • Replicate clusters across AWS accounts and regions. • Integrate with an existing VPC or leverage the solution to deploy a new one.
Add-on Management	• Out of the box integrations with popular AWS services and Kubernetes add-ons. • Provisions AWS resources that are necessary to support add-on functionality.
Team Management	• Create distinct teams for both administrators and application owners. • Manage secure namespaces access for application teams.
Workload Management	• Leverage GitOps tooling to manage workloads that run across your clusters. • Self-service onboarding of new workloads via a Pull Request.

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Leverage your preferred tool

CDK EKS
Blueprints

Terraform EKS
Blueprints

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Adding DevOps capabilities with AWS Marketplace

Enable easy self-service access to find, try, and acquire tools across the DevOps landscape

Plan	Build	Test	Secure	Release	Operate
asana	GitLab	TRICENTIS	snyk	armory	SUSE RANCHER
monday.com	JFrog	Katalon	sysdig	LaunchDarkly	Amazon CloudWatch
	circleci	MICRO FOCUS	TREND MICRO	split	new relic
	Terraform	SMARTBEAR	MEND	AWS CodeDeploy	sumo logic
	Amazon Kinesis	AWS Device Farm	Contrast SECURITY		Amazon EKS
	CloudBees	Gremlin	SYNOPSYS BLACK DUCK		PagerDuty
	Amazon EventBridge				VMware Tanzu
	spacelift				splunk>
	Kong				RAFAY
	Amazon DynamoDB				TeejLab
	HASURA				DATADOG
	harness				dynatrace
	AWS CodeCommit				axway
	outsystems				AWS Lambda
	elastic				Grafana Labs
	CONFLUENT				sensedia
	AWS Cloud9				APPDYNAMICS
	MongoDB				
	CodeCatalyst				
	humanitec				

Sample AWS Marketplace solutions
3,000+ vendors | **13,000+** products

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Let's take a deeper look into **Rafay and Splunk** for this use-case

Plan

asana
monday.com

Build

GitLab
JFrog
circleci
Terraform
CloudBees.
spacelift
Kong
HASURA
harness
outsystems
elastic
CONFLUENT
AWS Cloud9
MongoDB.
humanitec
Amazon Kinesis
Amazon EventBridge
Amazon DynamoDB
AWS CodeCommit
CodeCatalyst

Test

TRICENTIS
Katalon
MICRO FOCUS
SMARTBEAR
AWS Device Farm
Gremlin

Secure

snyk
sysdig
TREND MICRO
MEND
Contrast SECURITY
SYNOPSYS BLACK DUCK

Release

armory
LaunchDarkly
split
AWS CodeDeploy

Operate

SUSE RANCHER
new relic.
Amazon EKS
VMware Tanzu
TeejLab
dynatrace
AWS Lambda
Amazon CloudWatch
sumo logic
PagerDuty
splunk>
RAFAY
DATADOG
axway
Grafana Labs
sensedia
APPDYNAMICS

Sample AWS Marketplace solutions
3,000+ vendors | **13,000+** products

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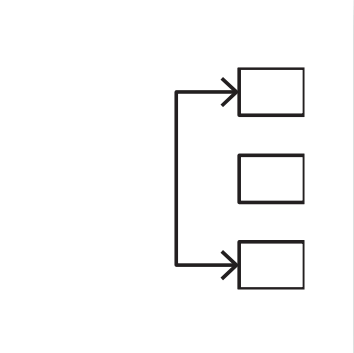
Rafay Kubernetes Operations Platform



Multi-cluster management

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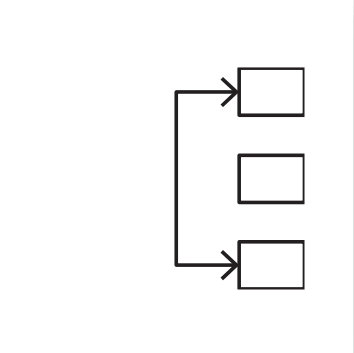
Rafay Kubernetes Operations Platform



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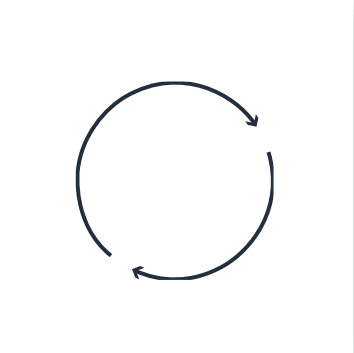

GitOps pipelines

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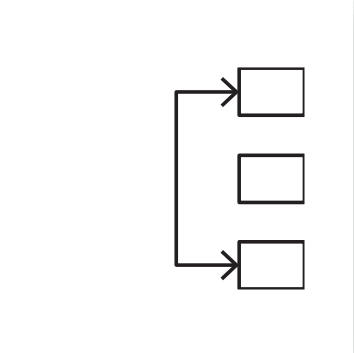

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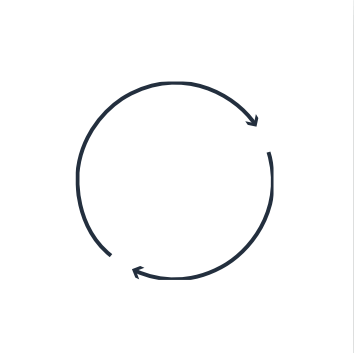

GitOps pipelines

Zero-trust access

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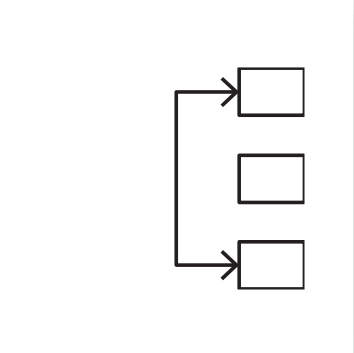

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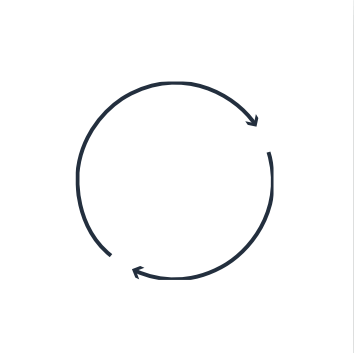

GitOps pipelines

Zero-trust access

Policy management

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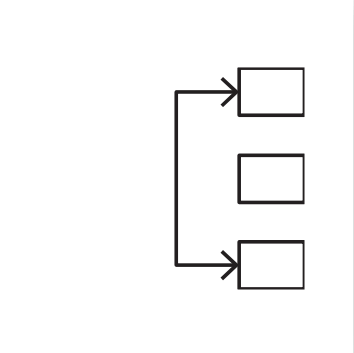

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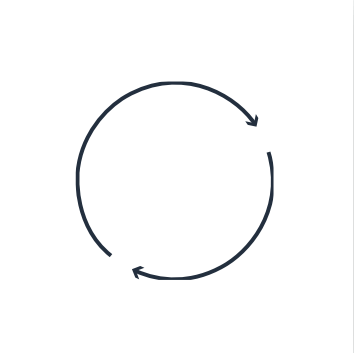

GitOps pipelines

Zero-trust access

Policy management

Visibility

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Rafay Kubernetes Operations Platform

Add Credential

Name *
demo-docs-eks-credential

Type
Cluster Provisioning Data Backup Cost Management

Provider
AWS

Credential Type *
ACCESS_KEY ROLE

Account ID [redacted]

External ID 43b7-3452-3c0c-8f95-ec08

Role ARN
[redacted]

CANCEL SAVE

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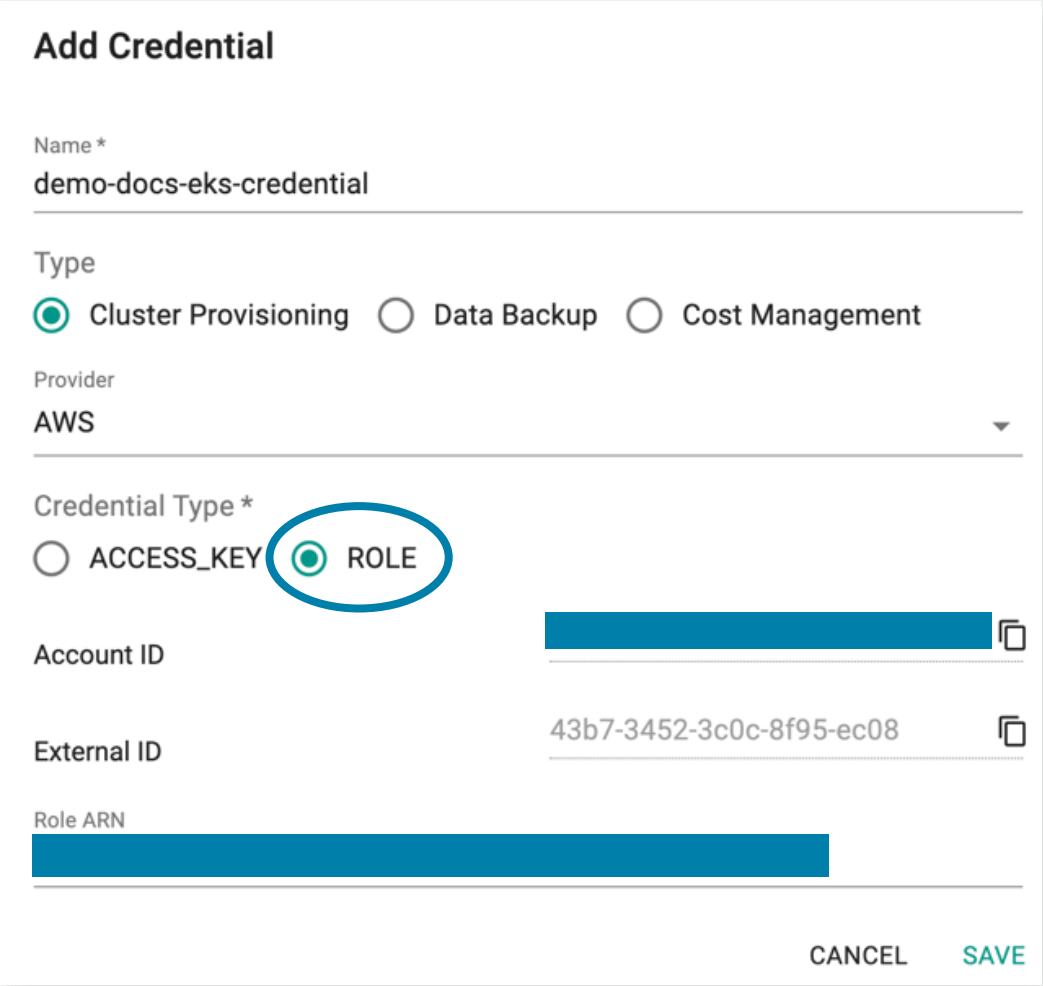

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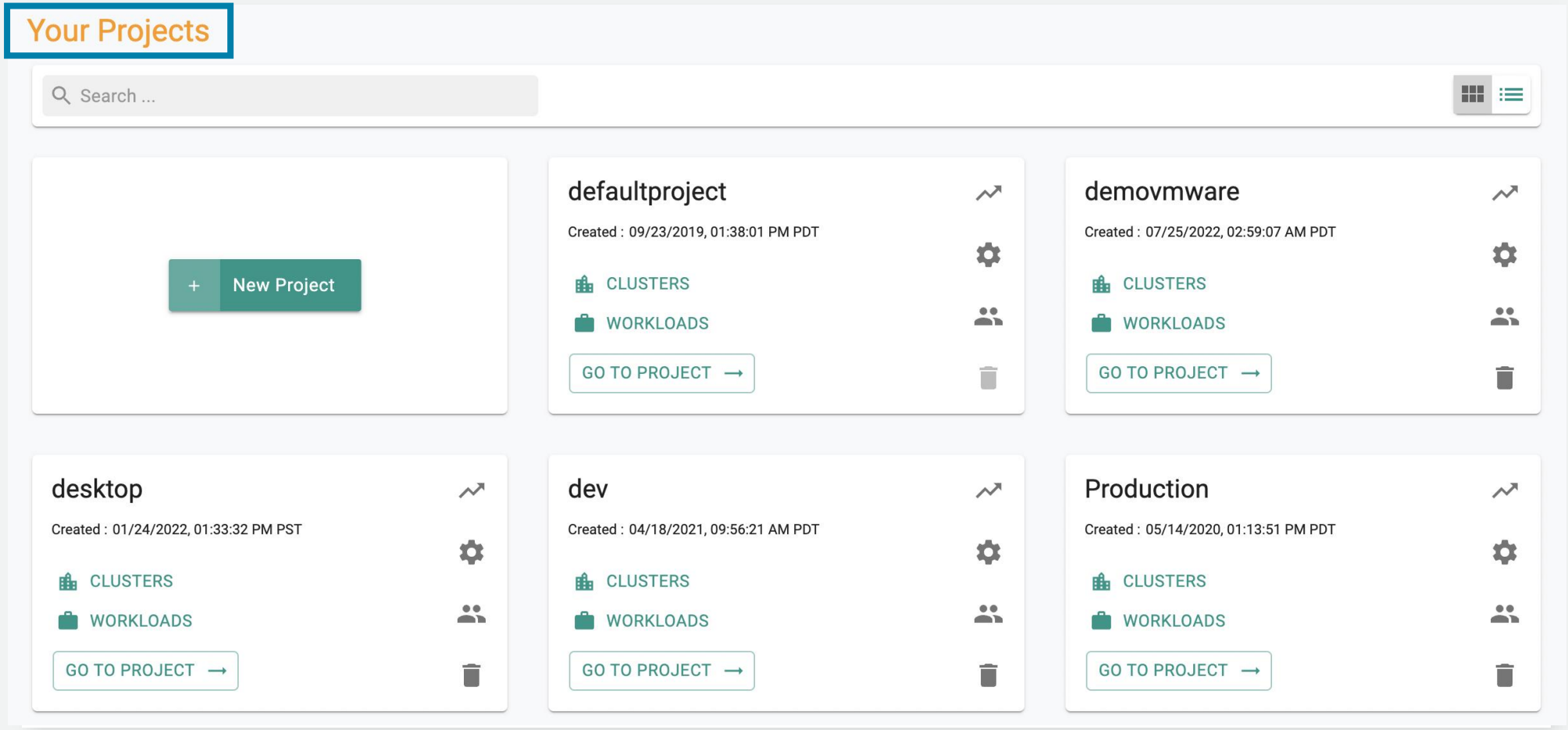

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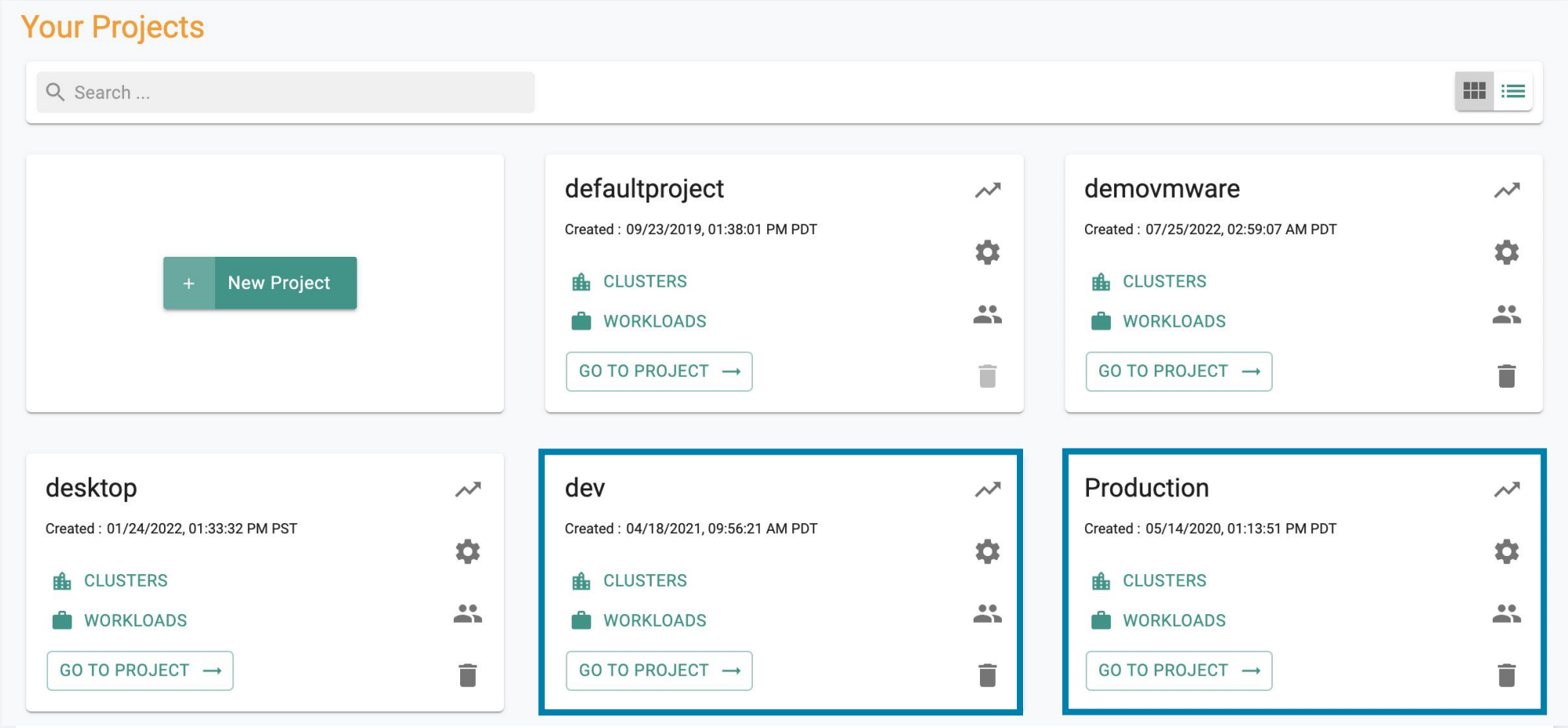

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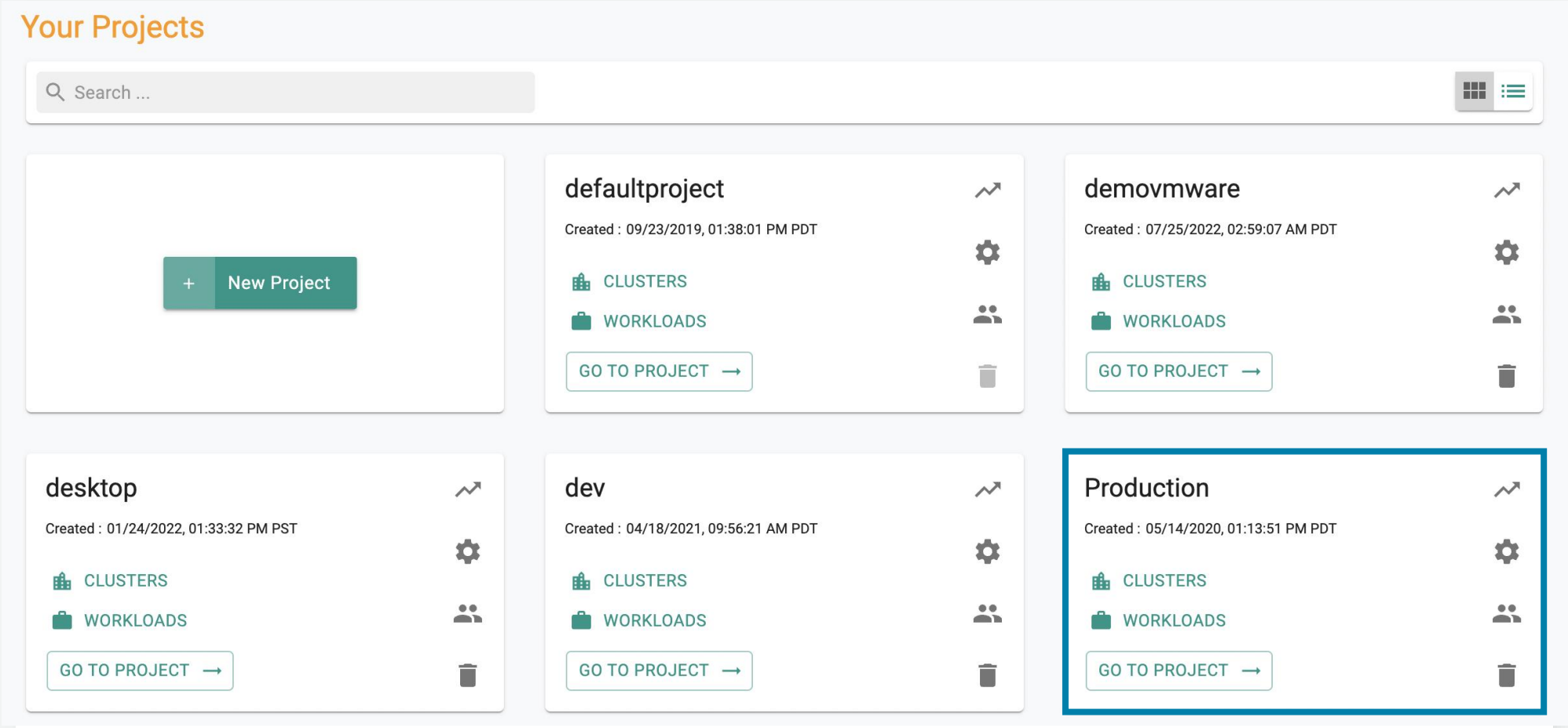

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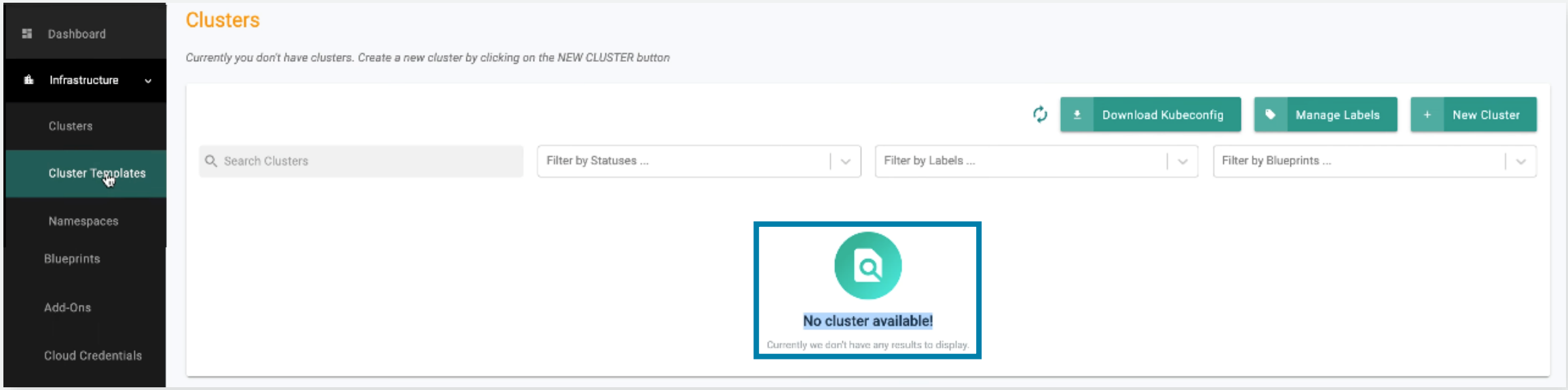

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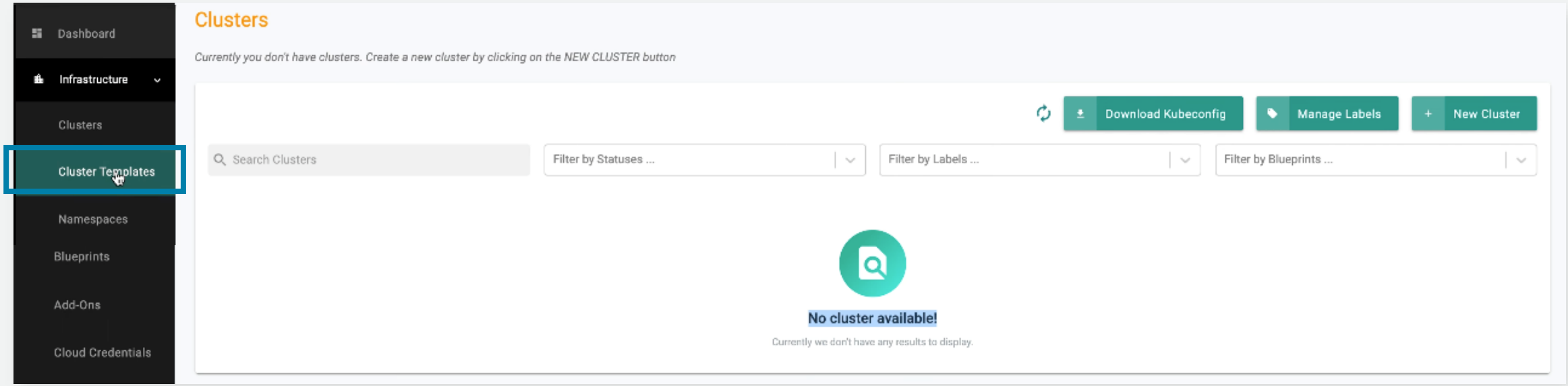

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Rafay Kubernetes Operations Platform

New Cluster Template

Create and configure a new Cluster Template.

Name *

WorkloadA-Dev

Cluster Type *

eks

Description

CANCEL CREATE

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Rafay Kubernetes Operations Platform

Cluster Templates › democlustertemplate1 › New Version

New Version

Provide a new version of a cluster template based on the configuration provided below

Version

Provide a unique version name for cluster template

- General
- Cluster Settings
- Node Groups Settings
- Advanced

General

Provide configuration for the cluster

Template Name *
democlustertemplate1

Cloud Credentials *

Region *
US West (Oregon) aws/us-west-2

Override
Not Allowed

K8S Version *
1.21

Override
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Blueprint

Version *

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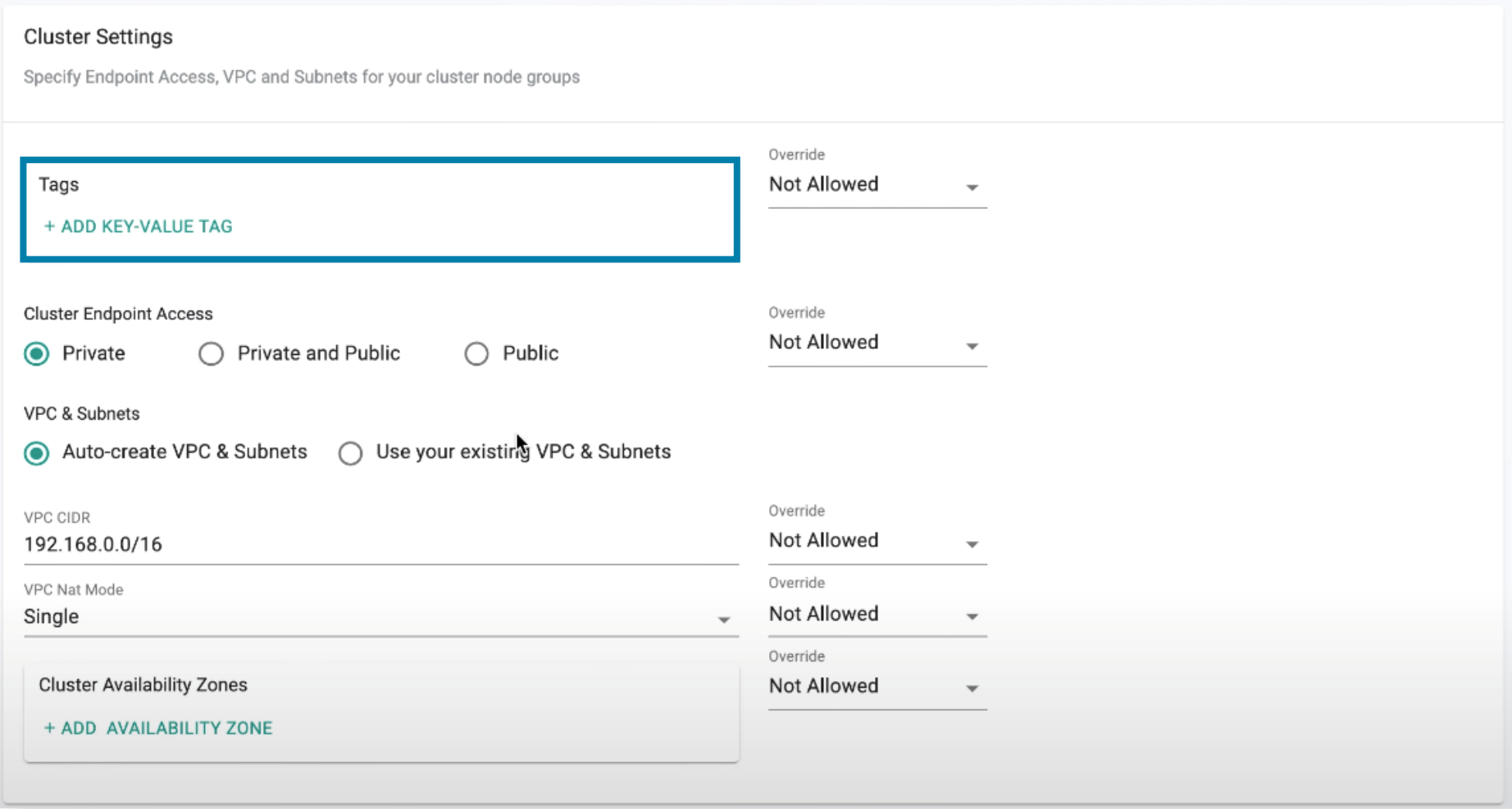

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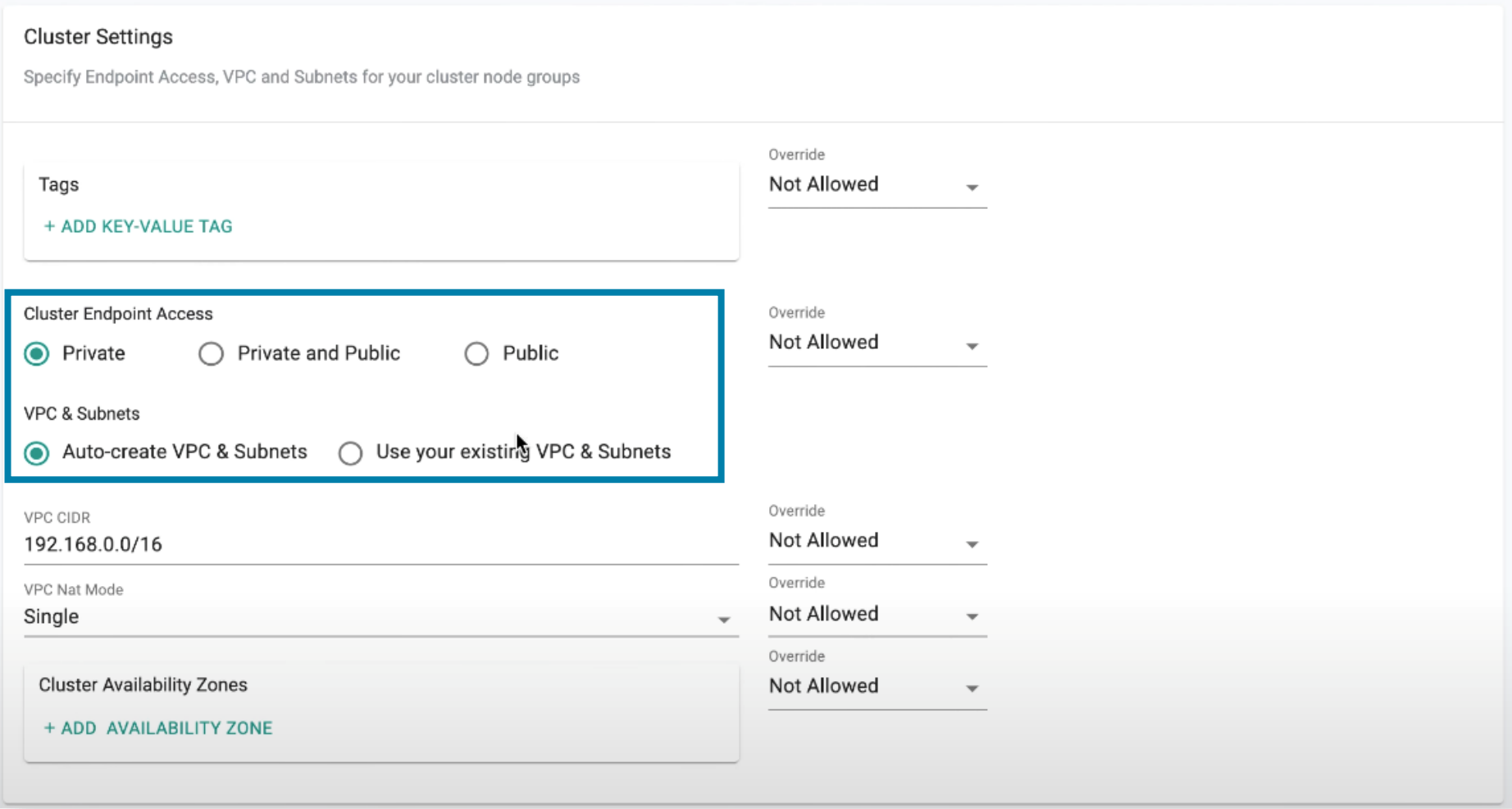

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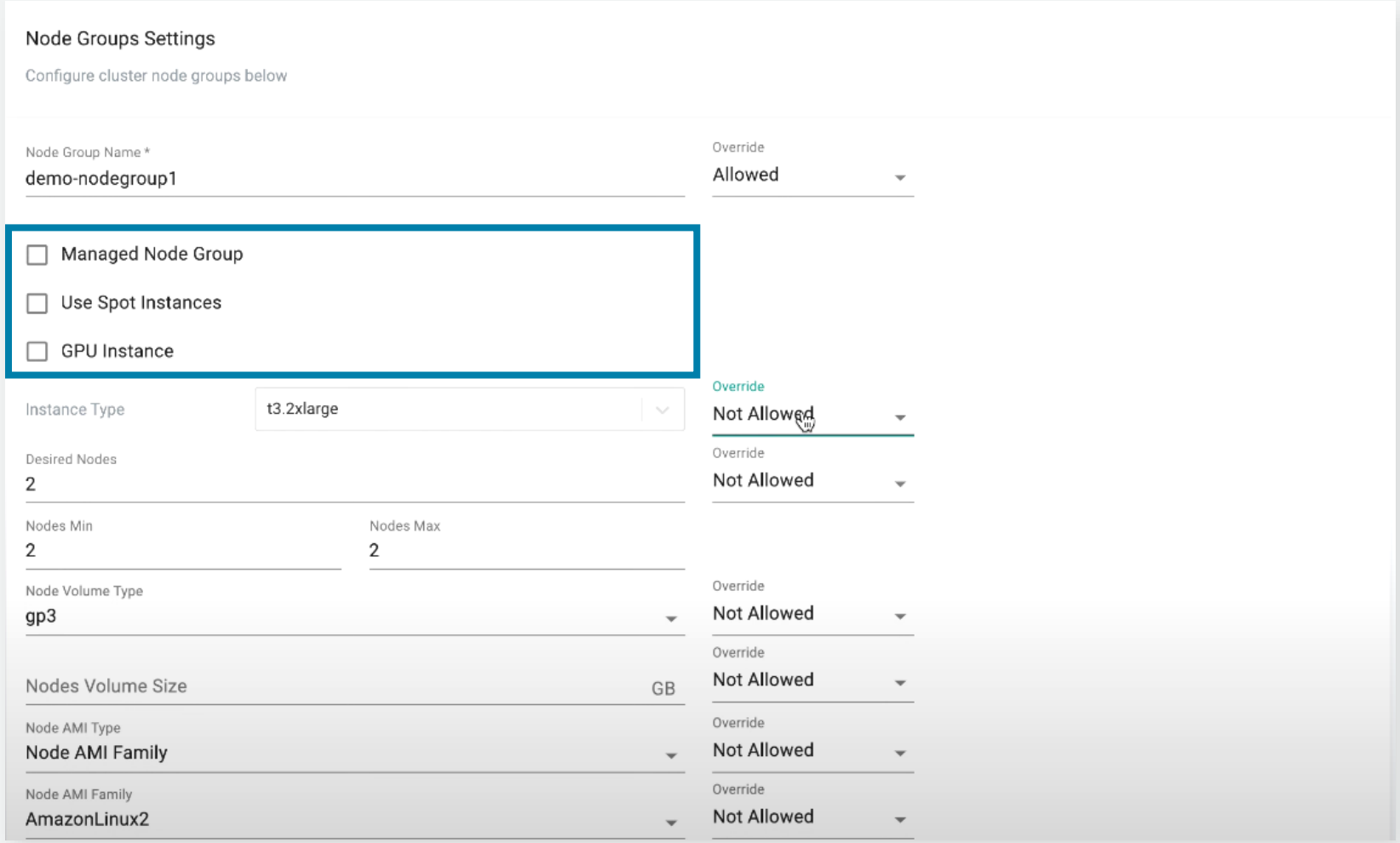

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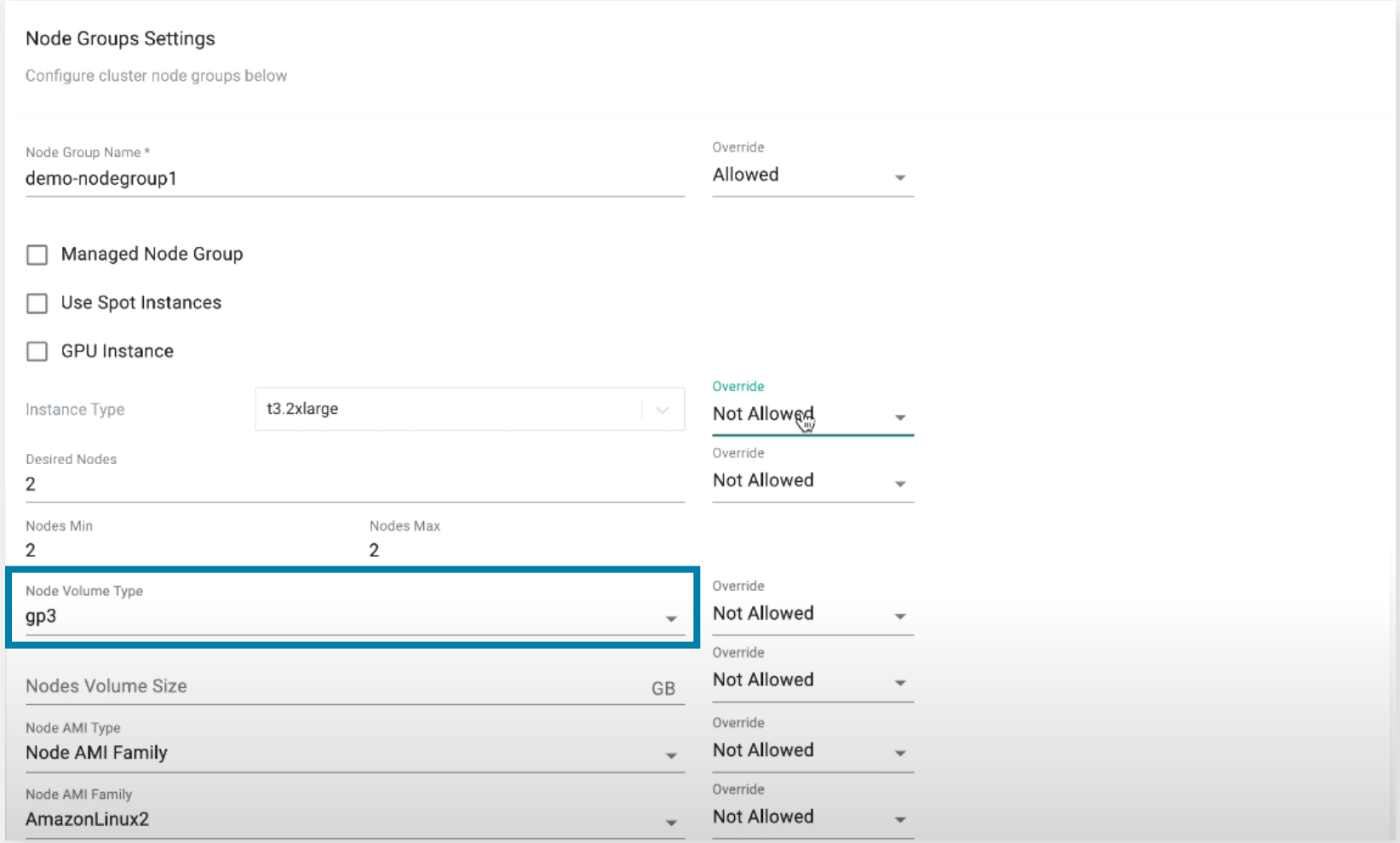

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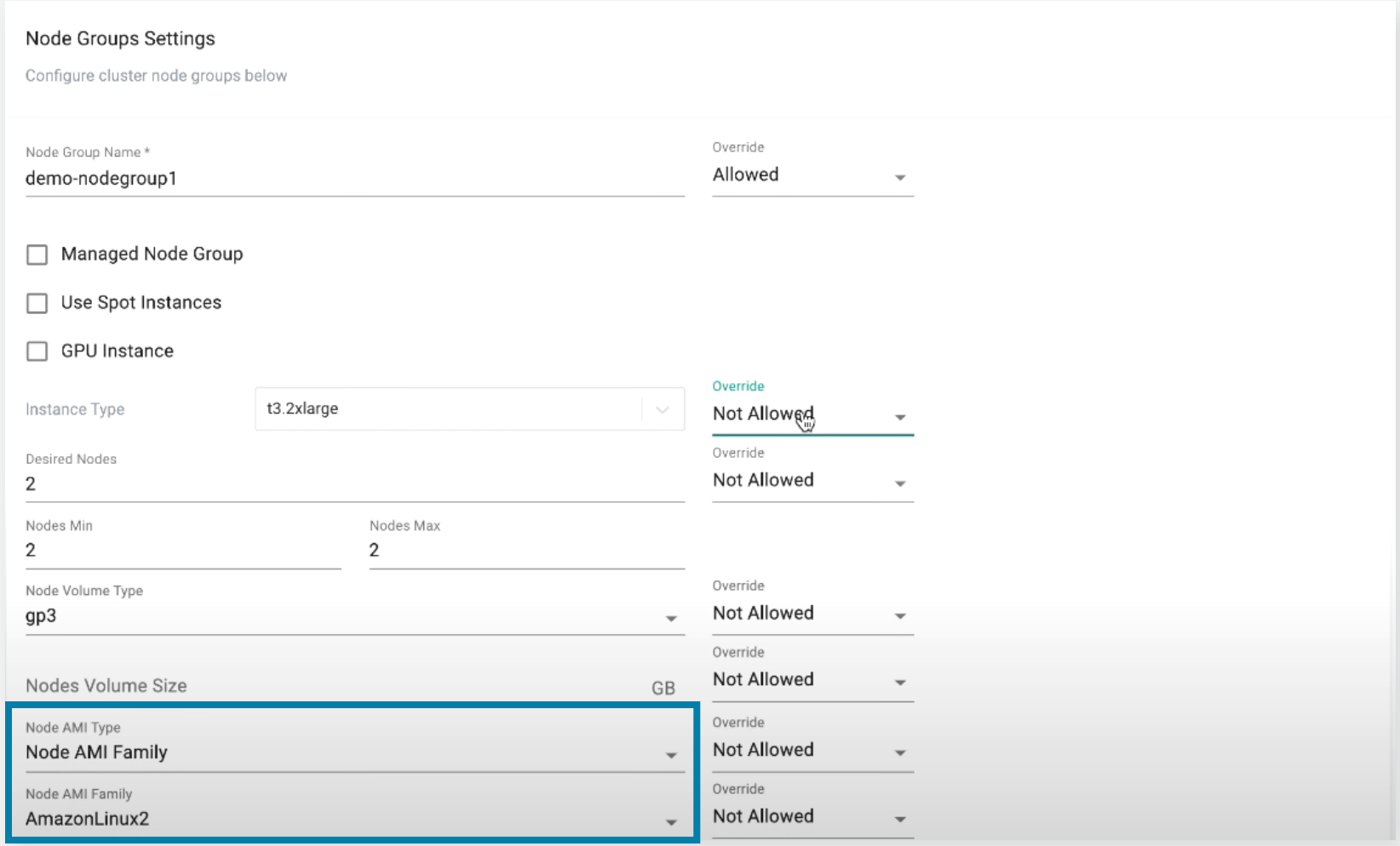

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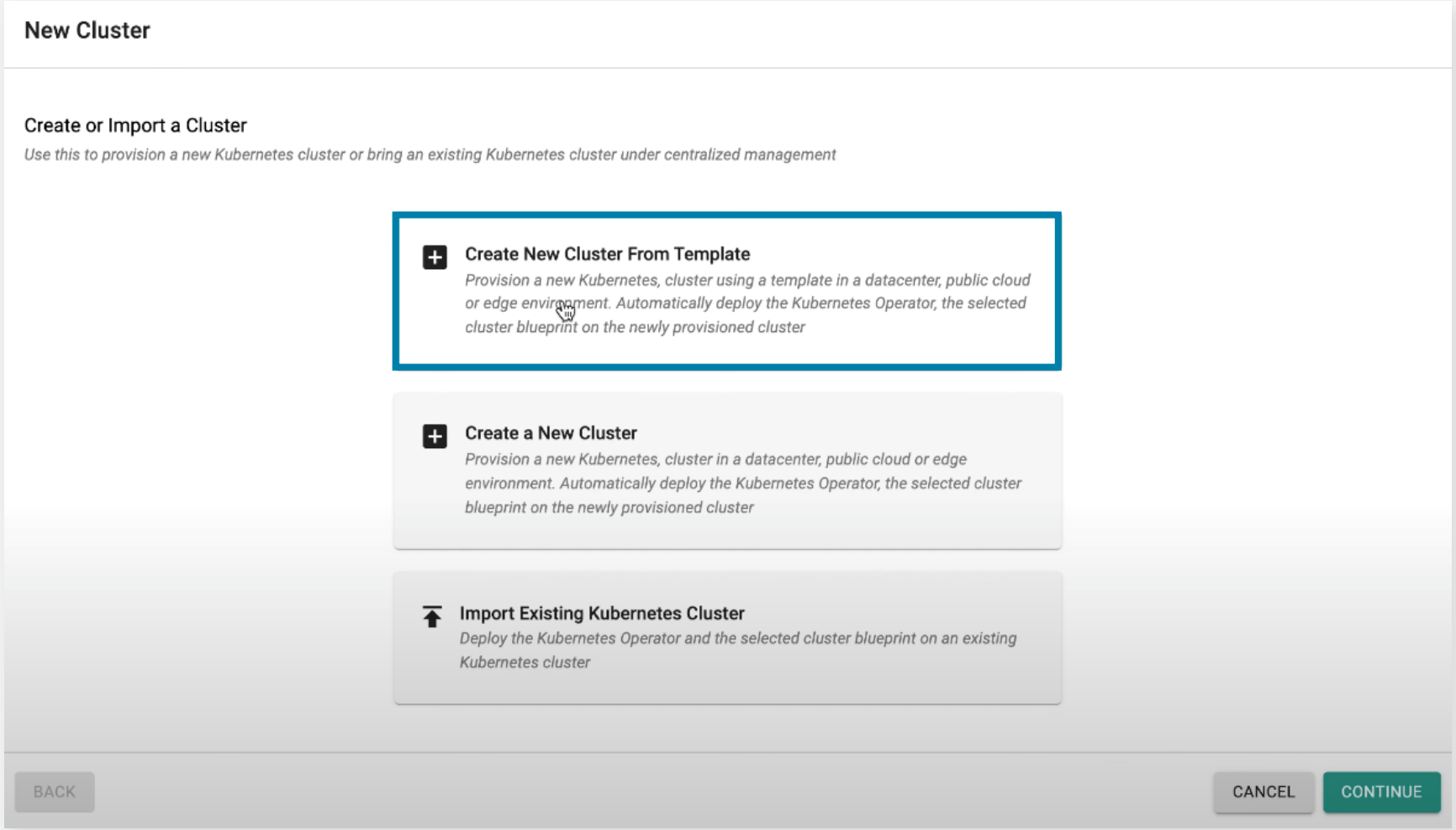

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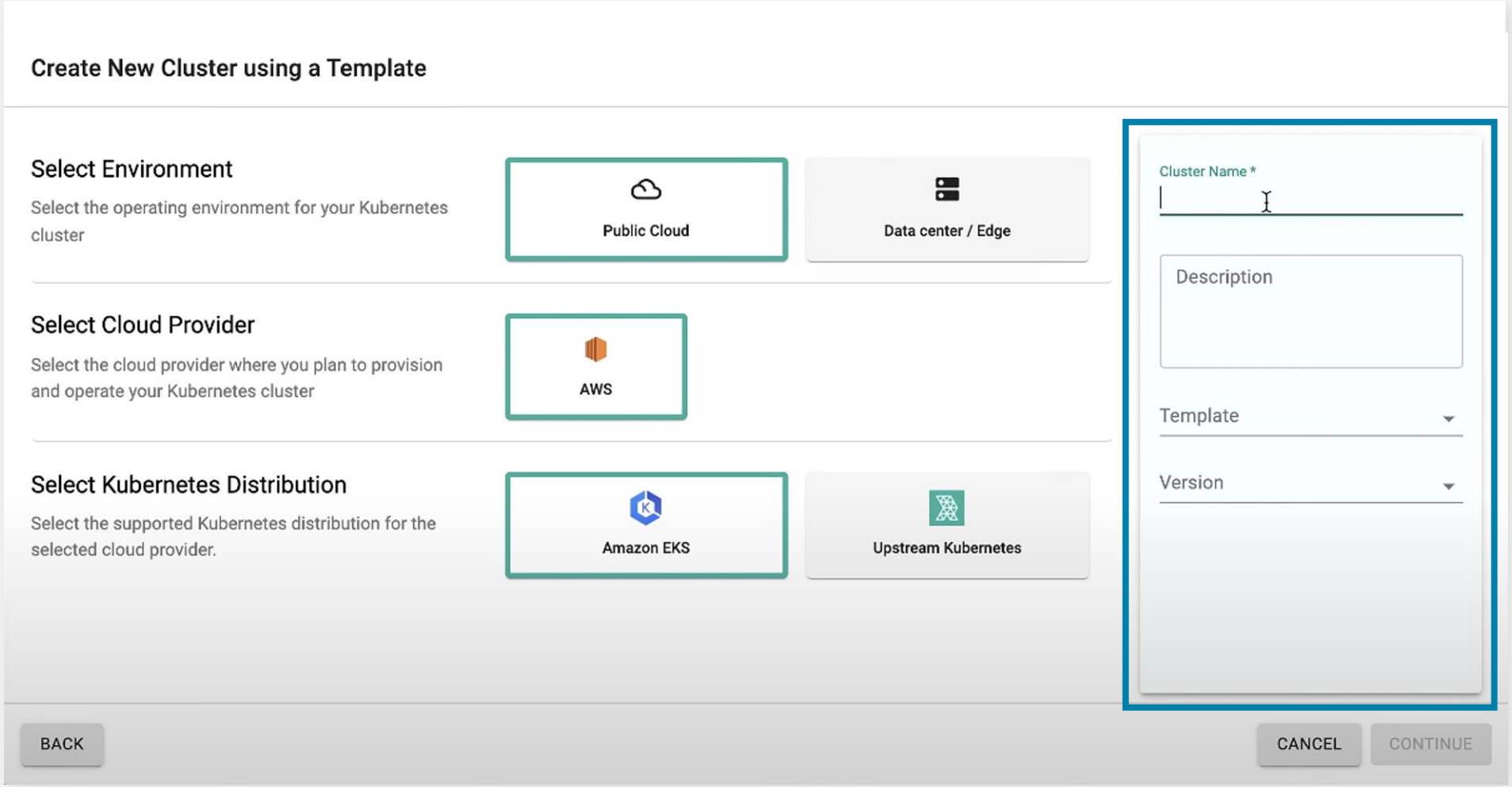

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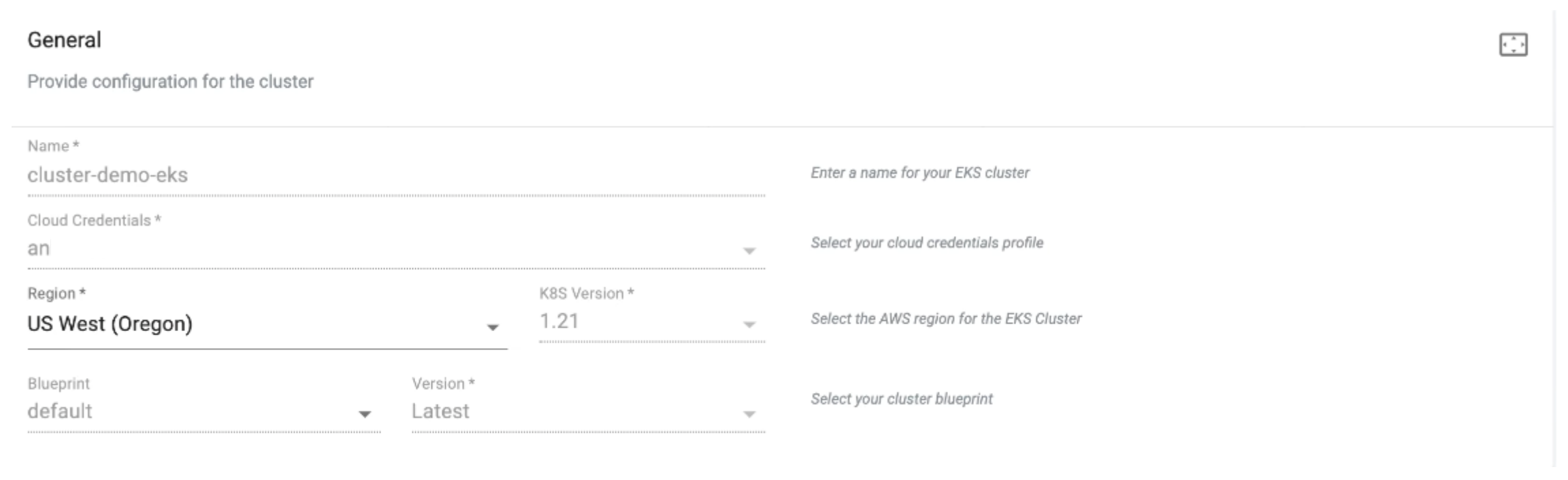

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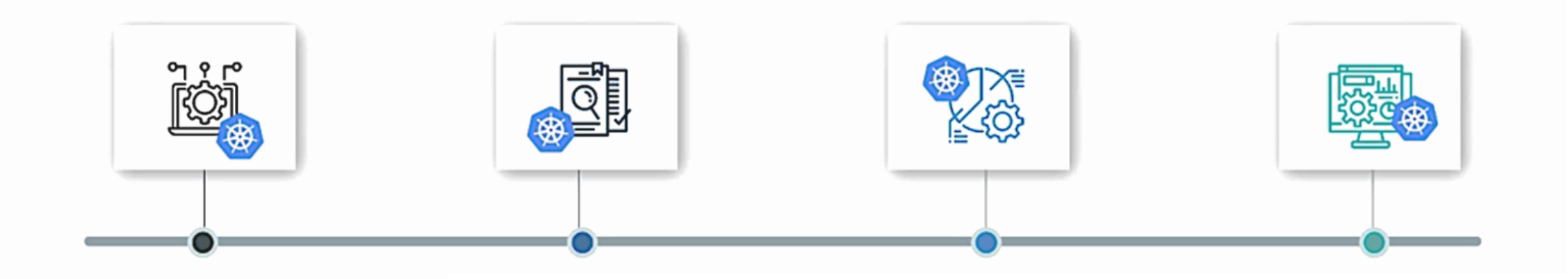

PROVISIONING & LIFECYCLE MGMT

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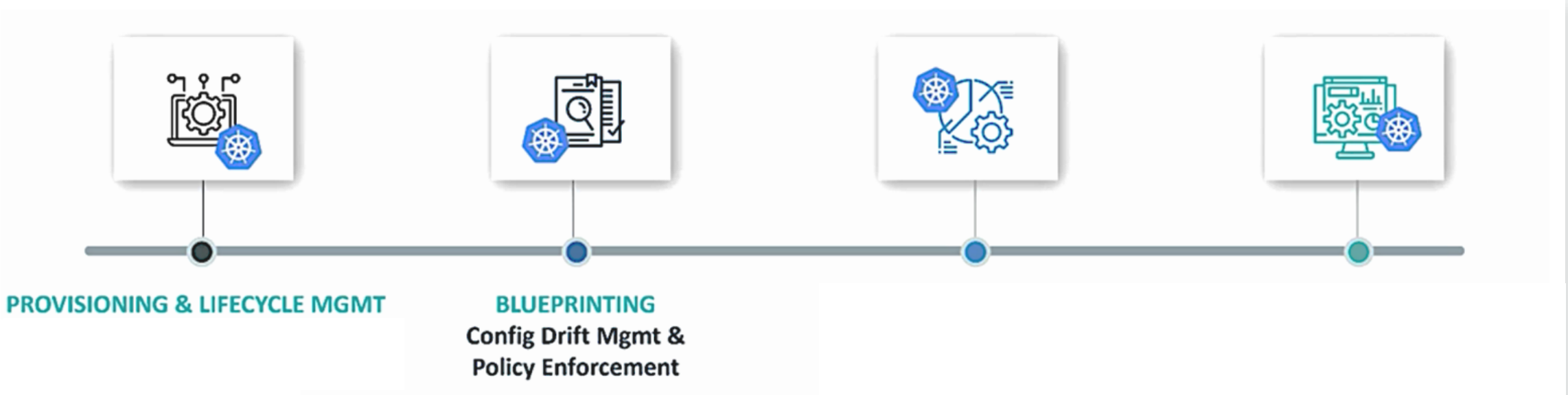

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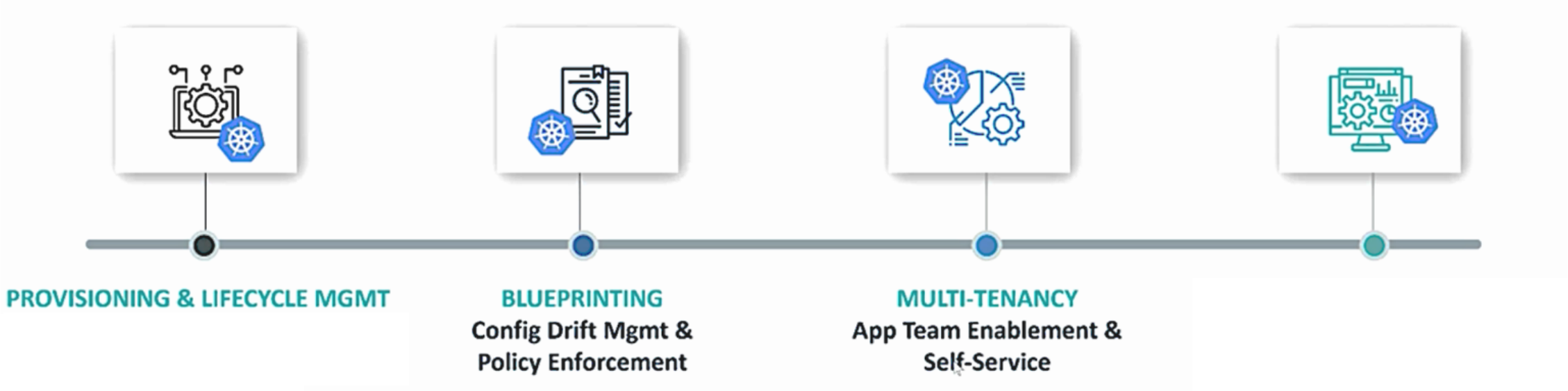

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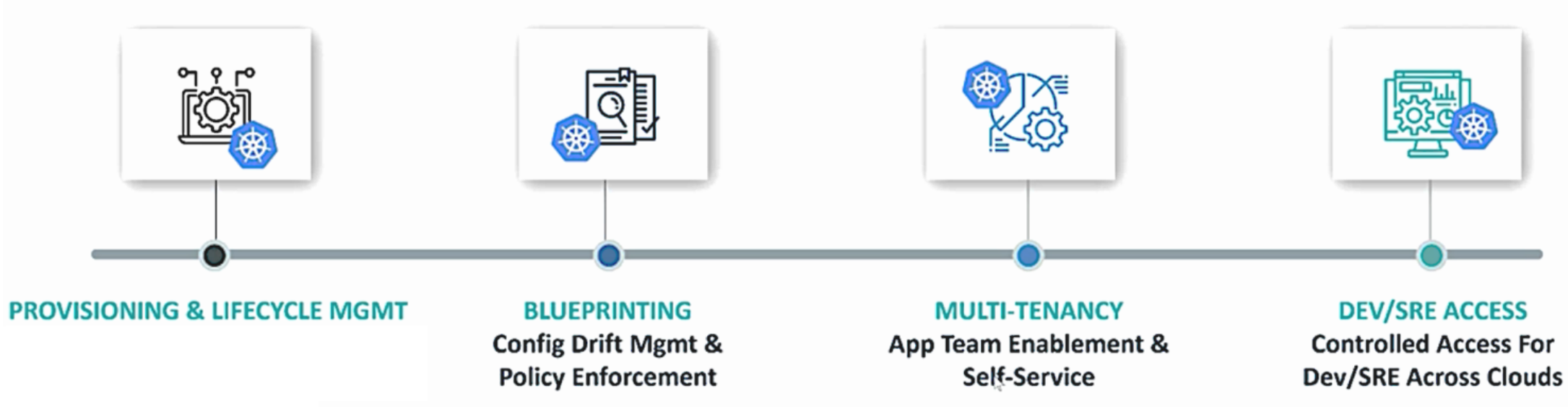

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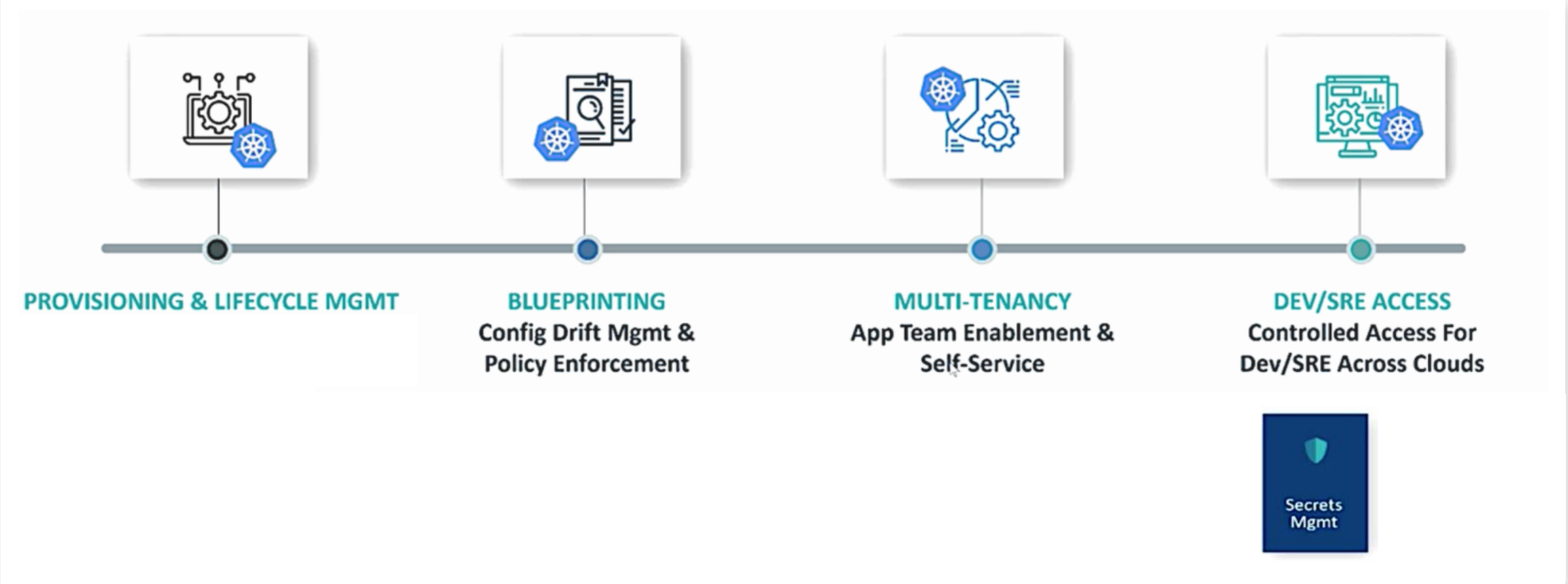

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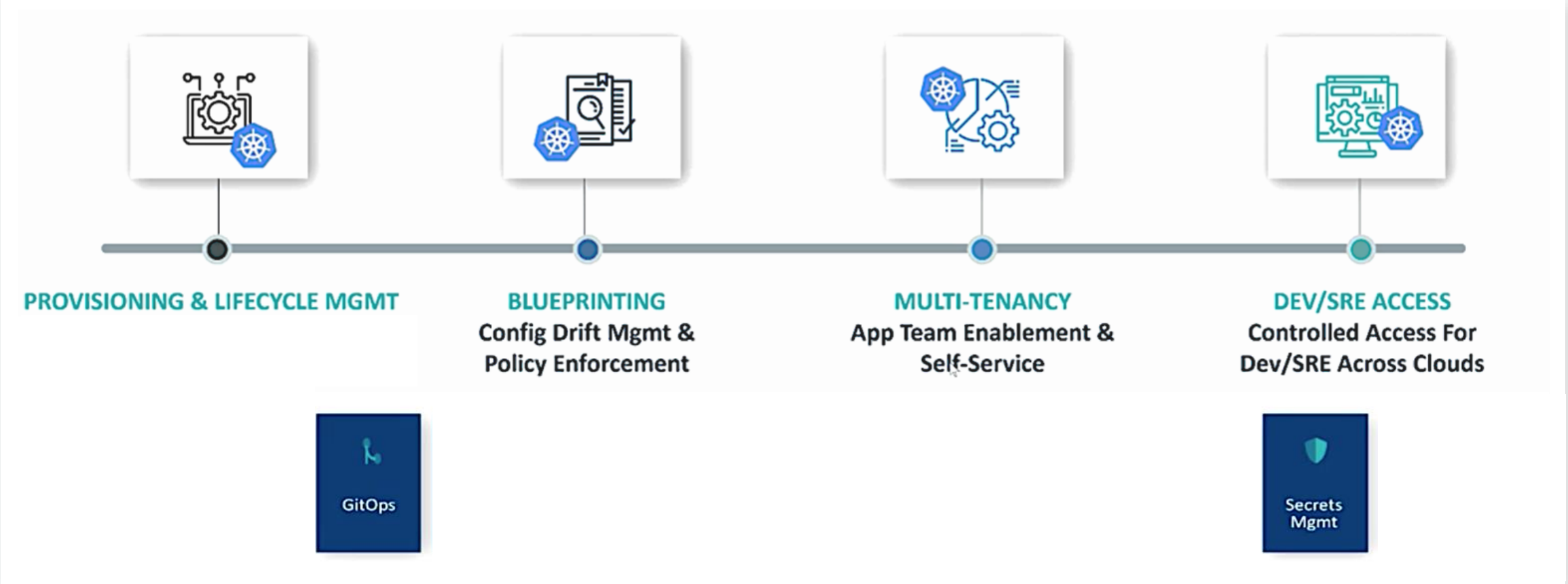

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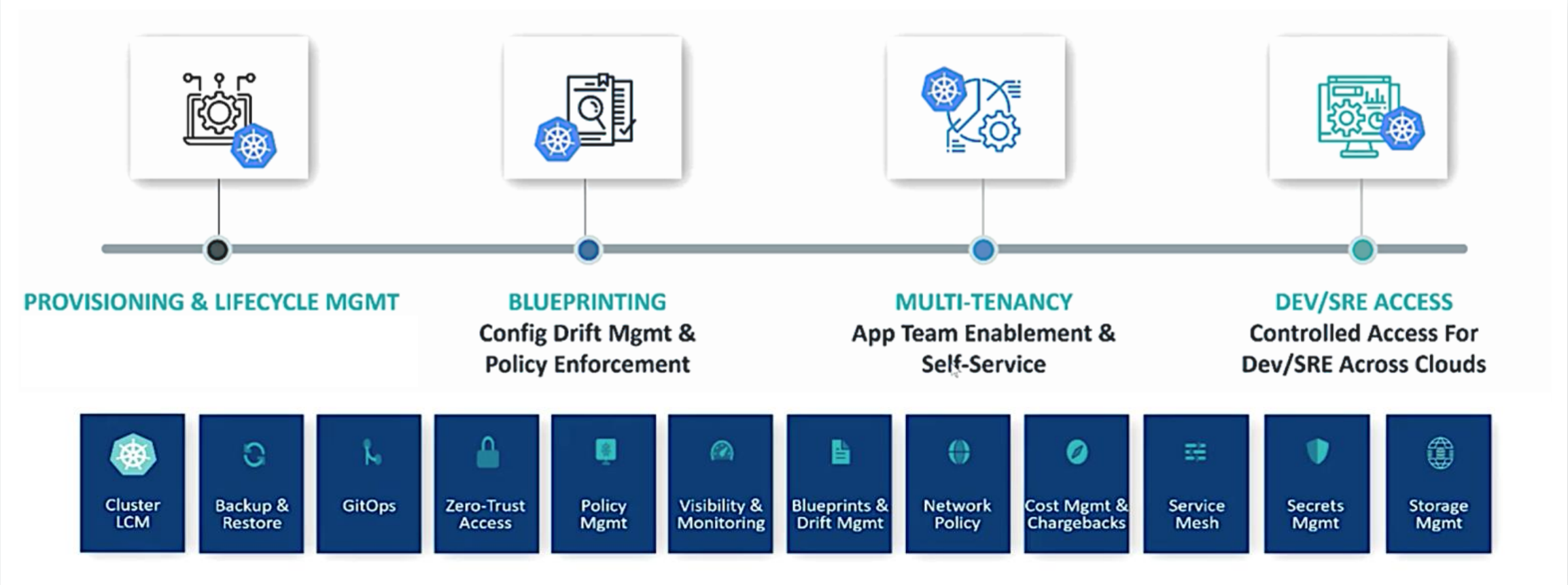

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Observability

SPLUNK
OBSERVABILITY

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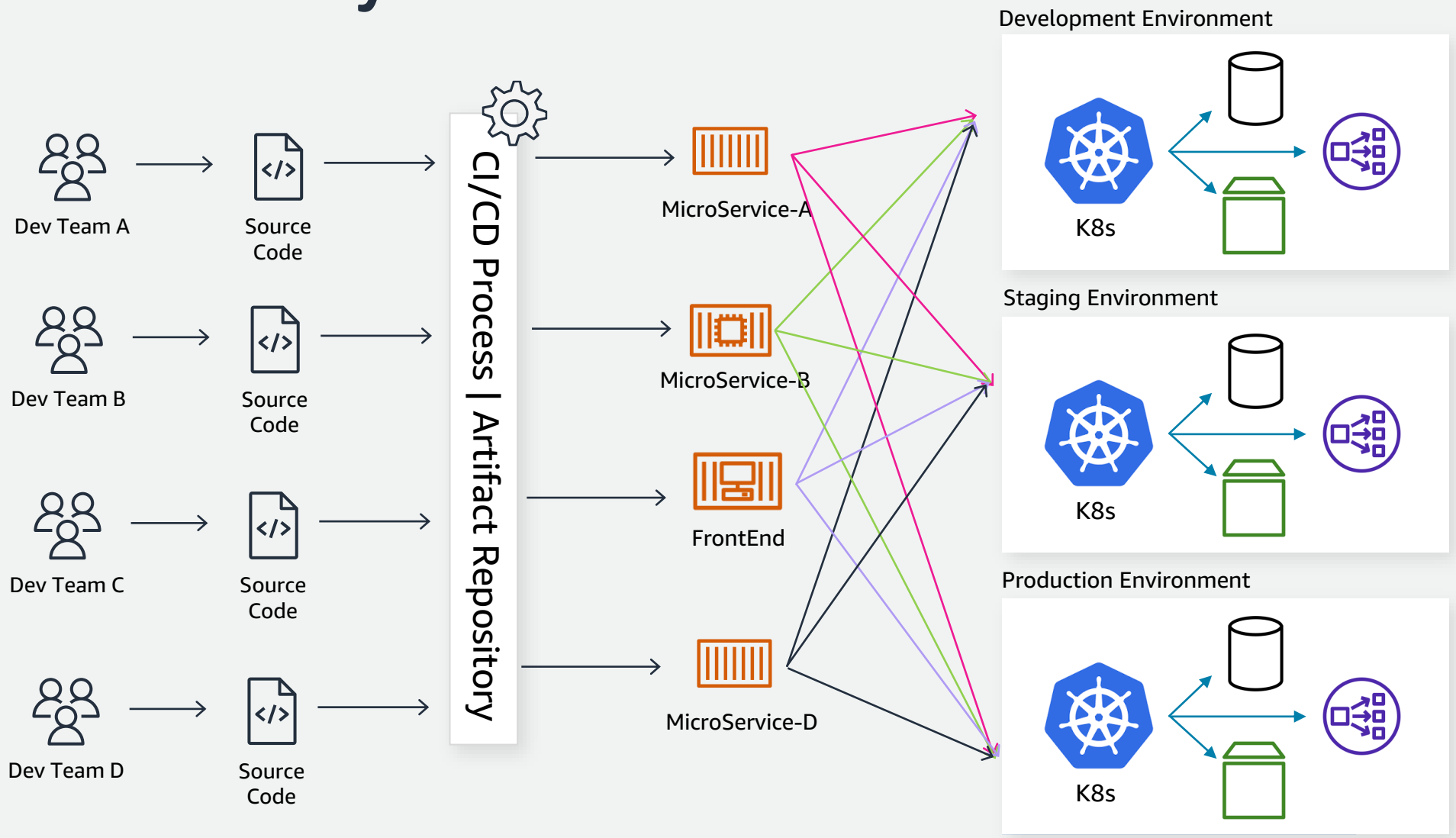
Observability



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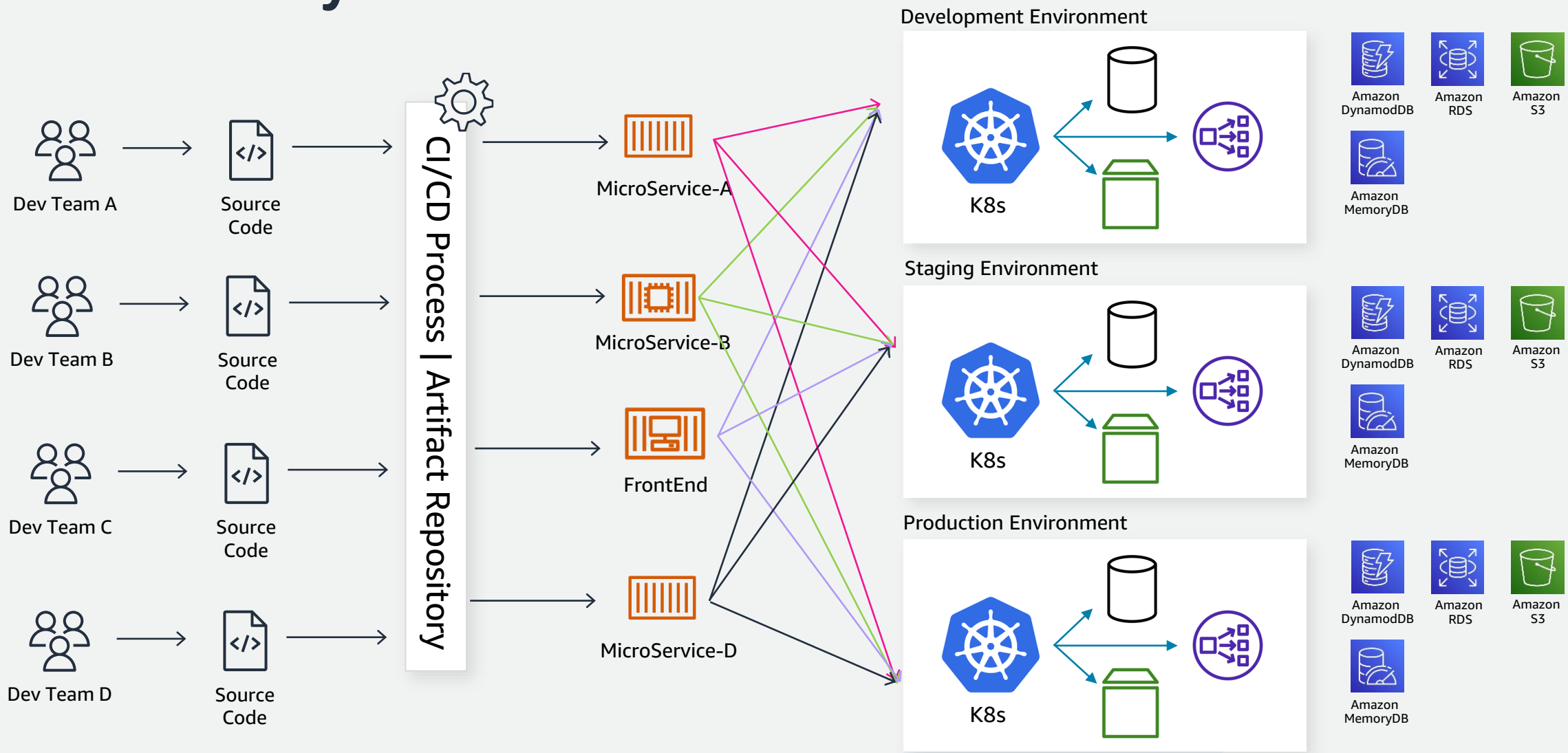

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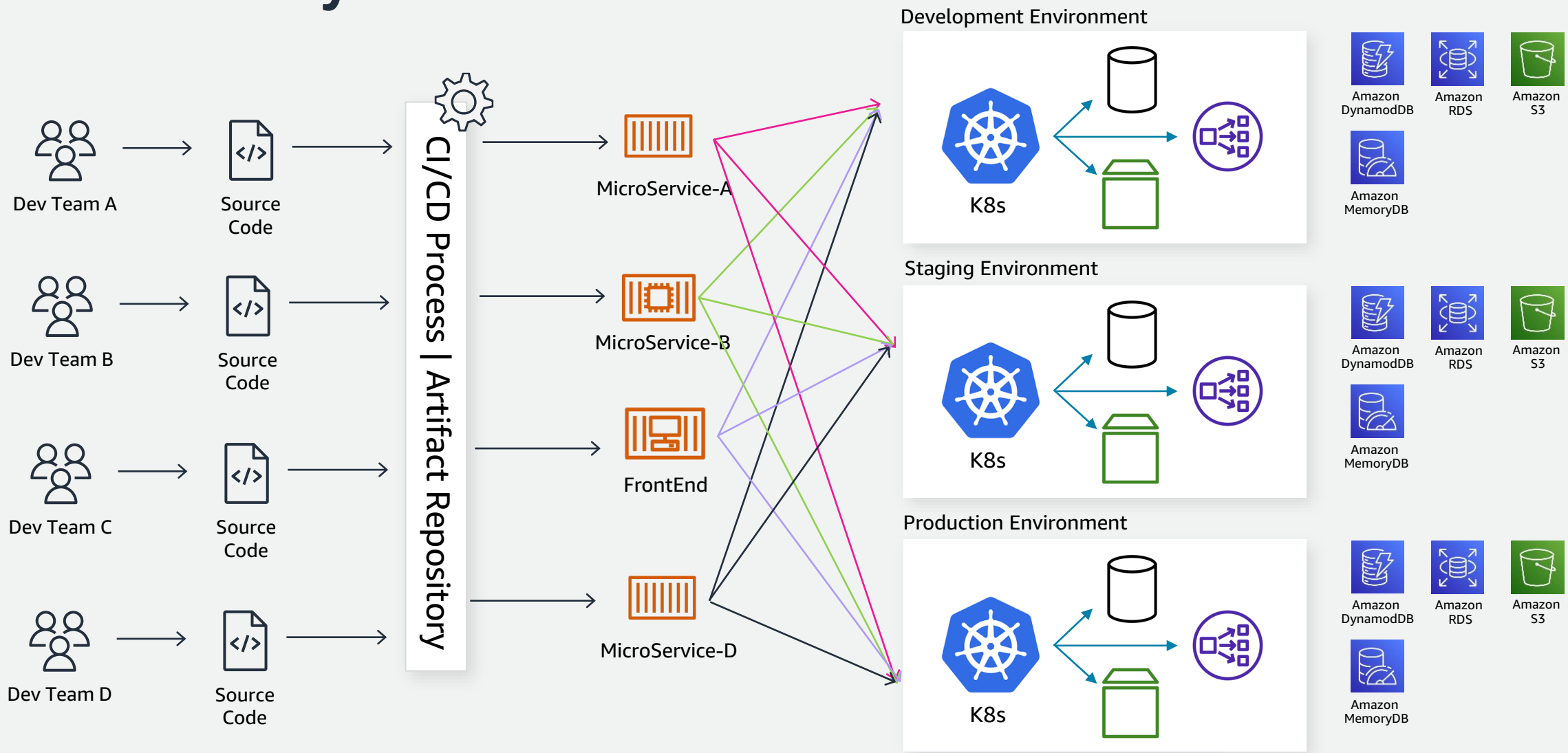

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OpenTelemetry

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OpenTelemetry

+

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OpenTelemetry

Language-specific SDKs

- Capture traces and application metrics
- Define custom spans and metrics
- Can export to backend

Collector

- Capture infrastructure metrics
- Can collect SDK data and export

Automatic instrumentation

- Can replace SDKs in most circumstances; no custom data

Specification

- Traces
- Metrics
- Logs

Protocol

- Send telemetry data to collector
- Send telemetry data to backend

Exporters

- Translate and send data to backend

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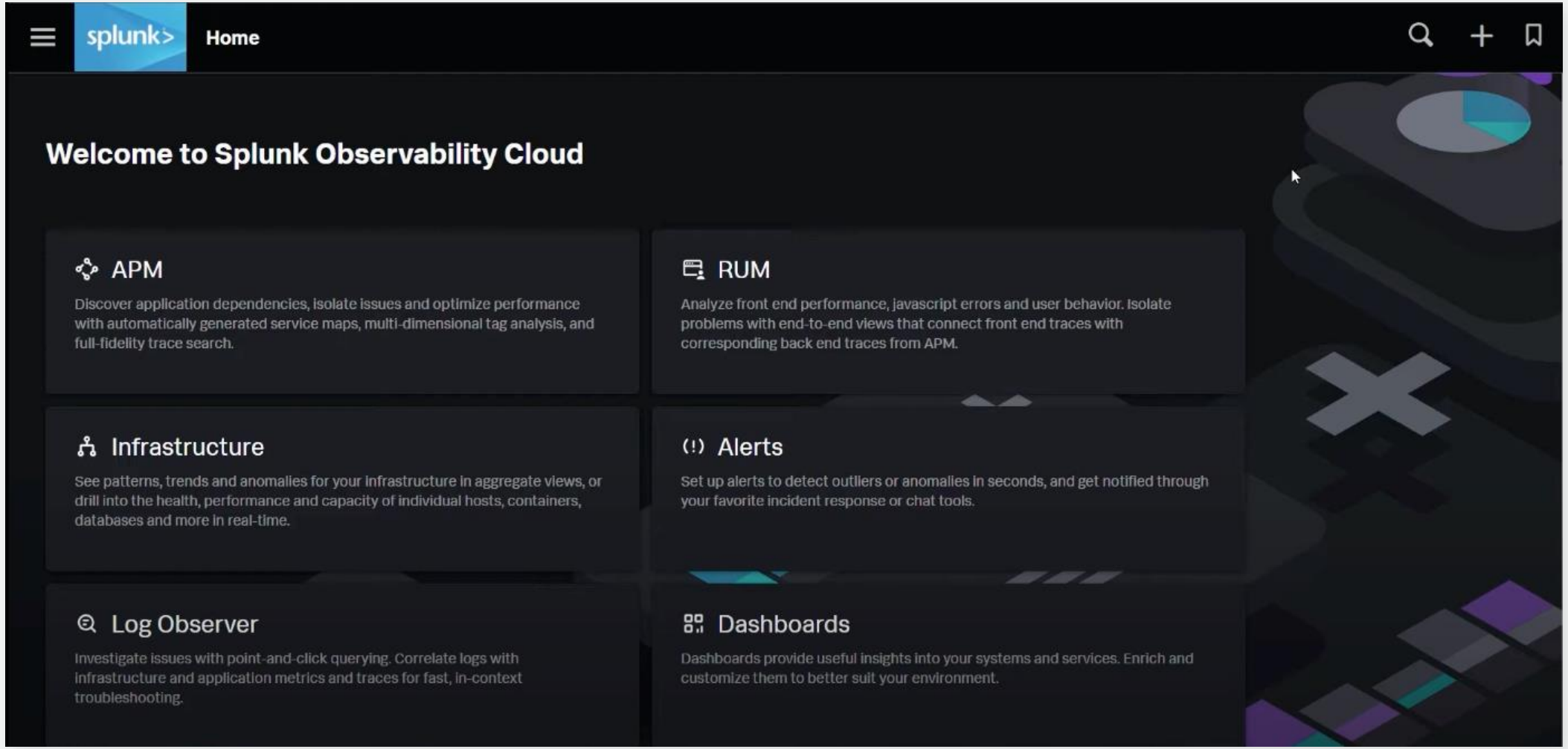
Splunk Observability Cloud



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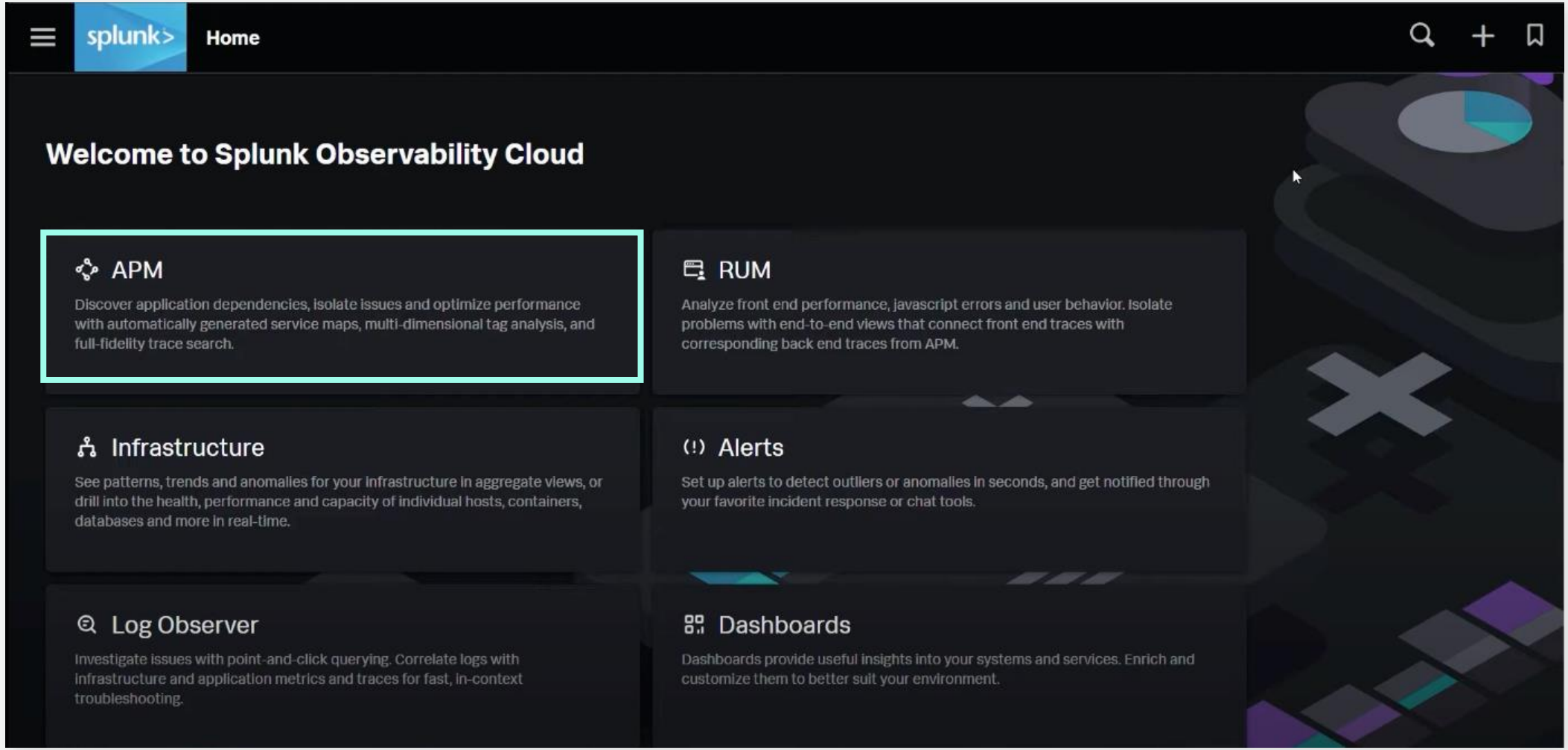

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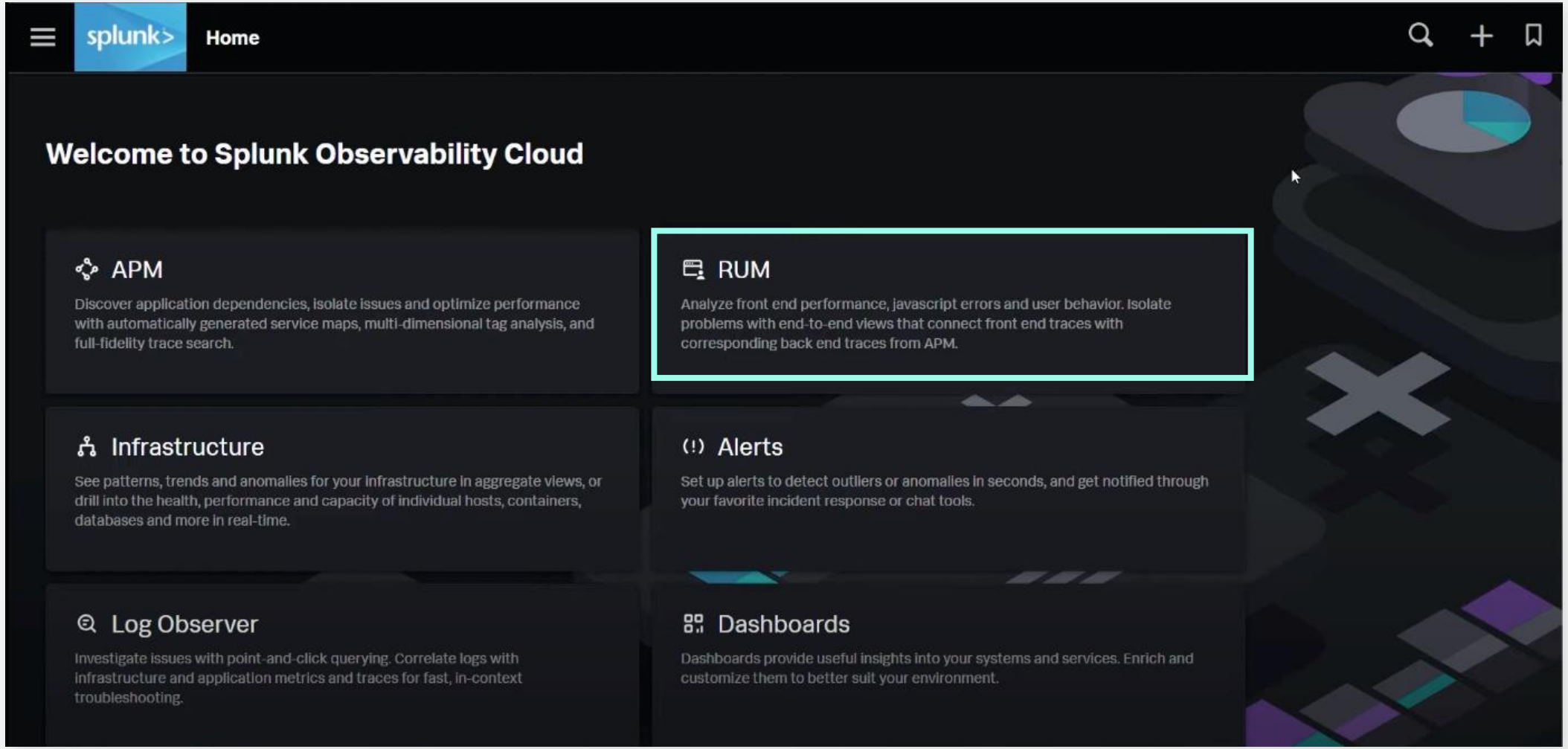

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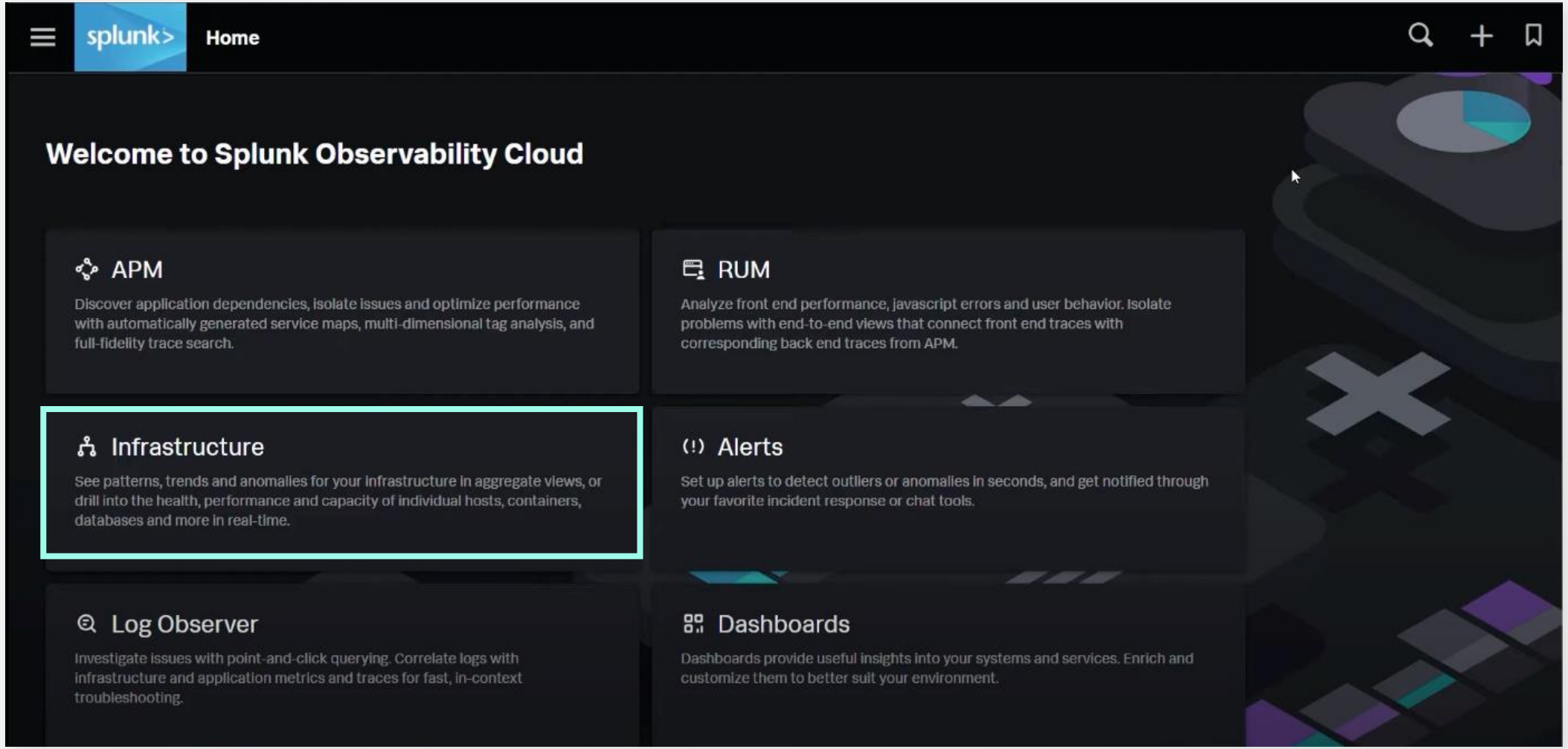

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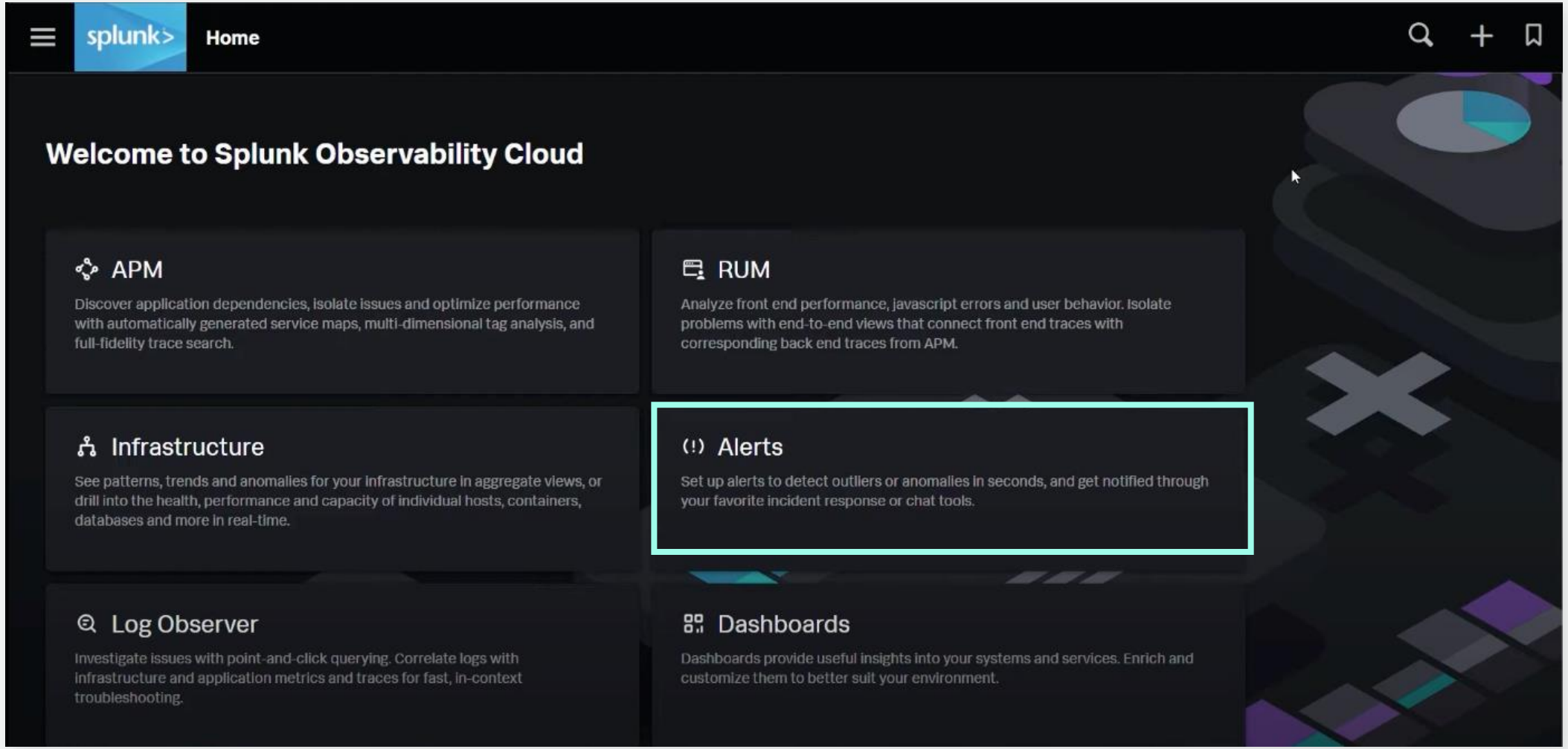

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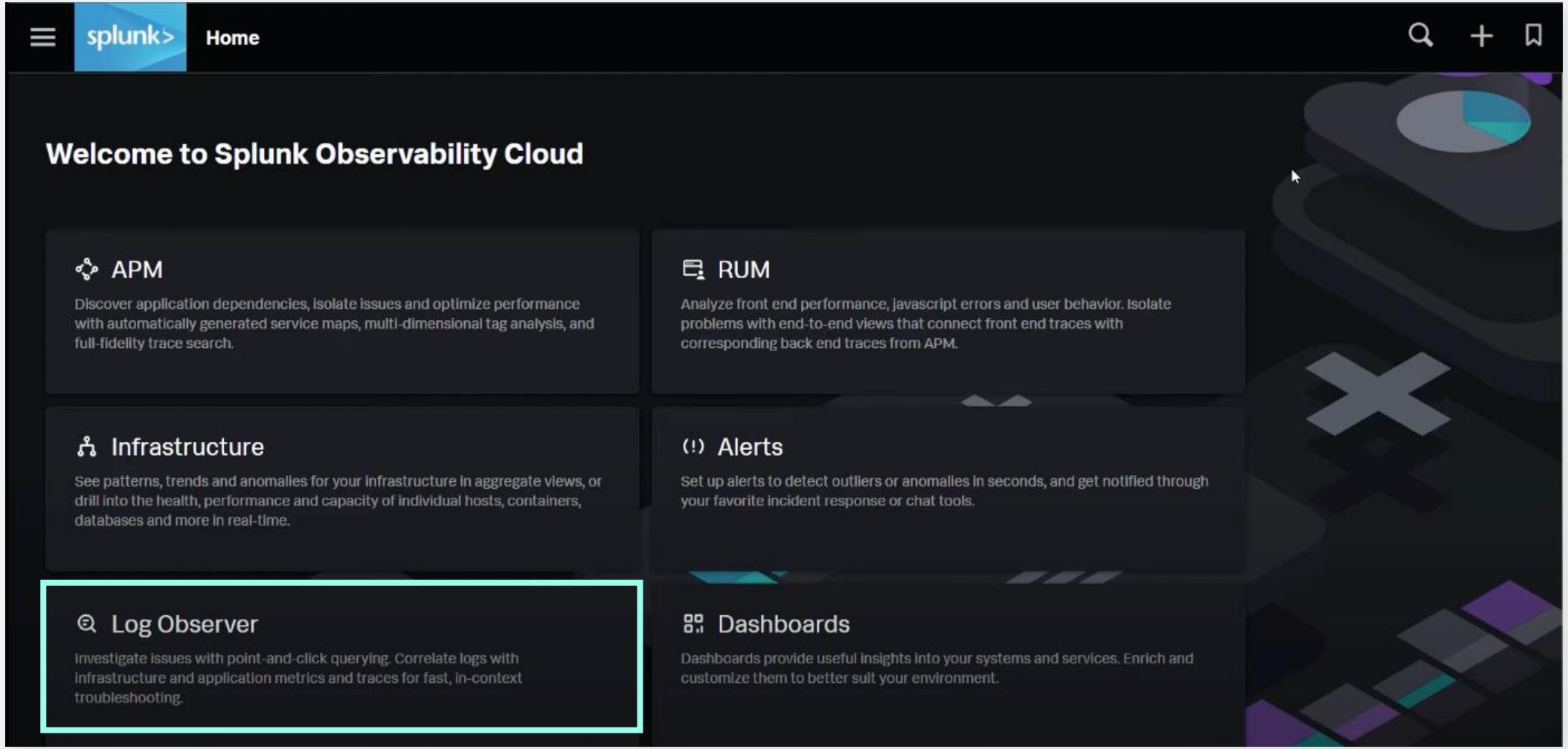

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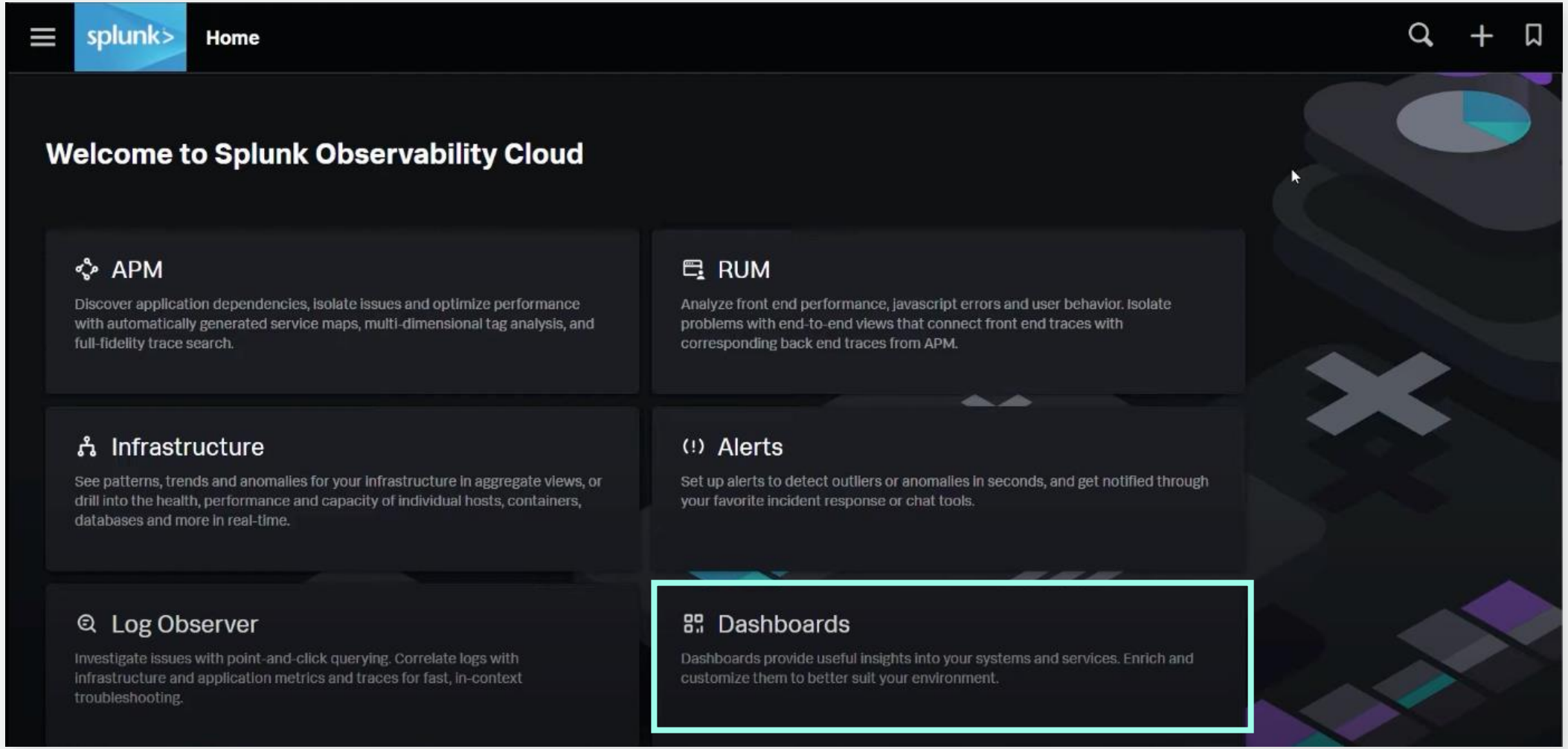

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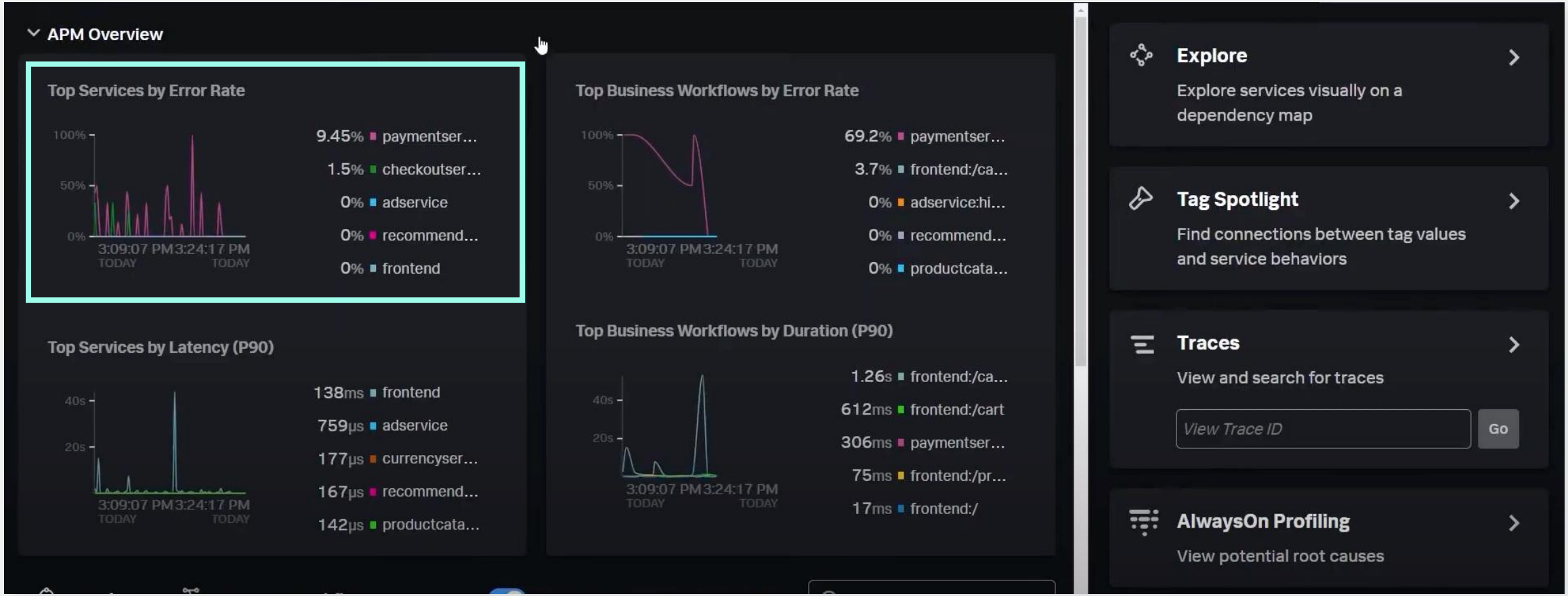

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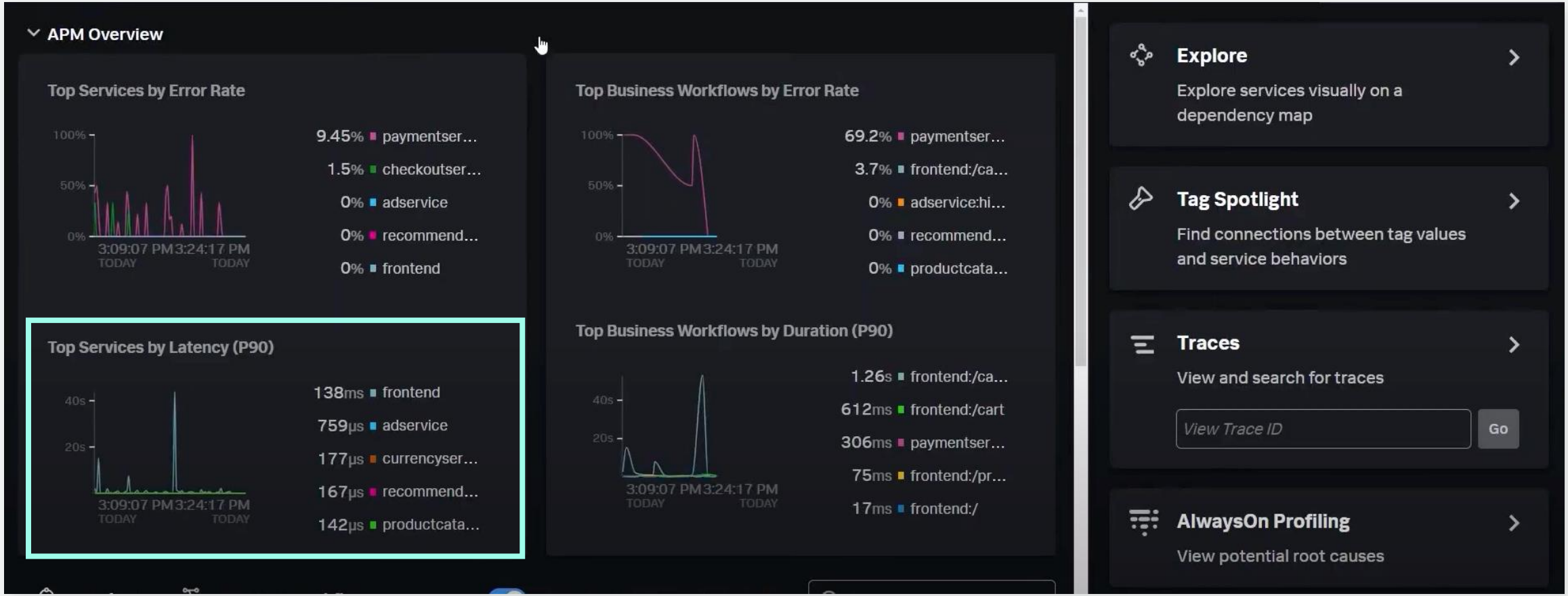

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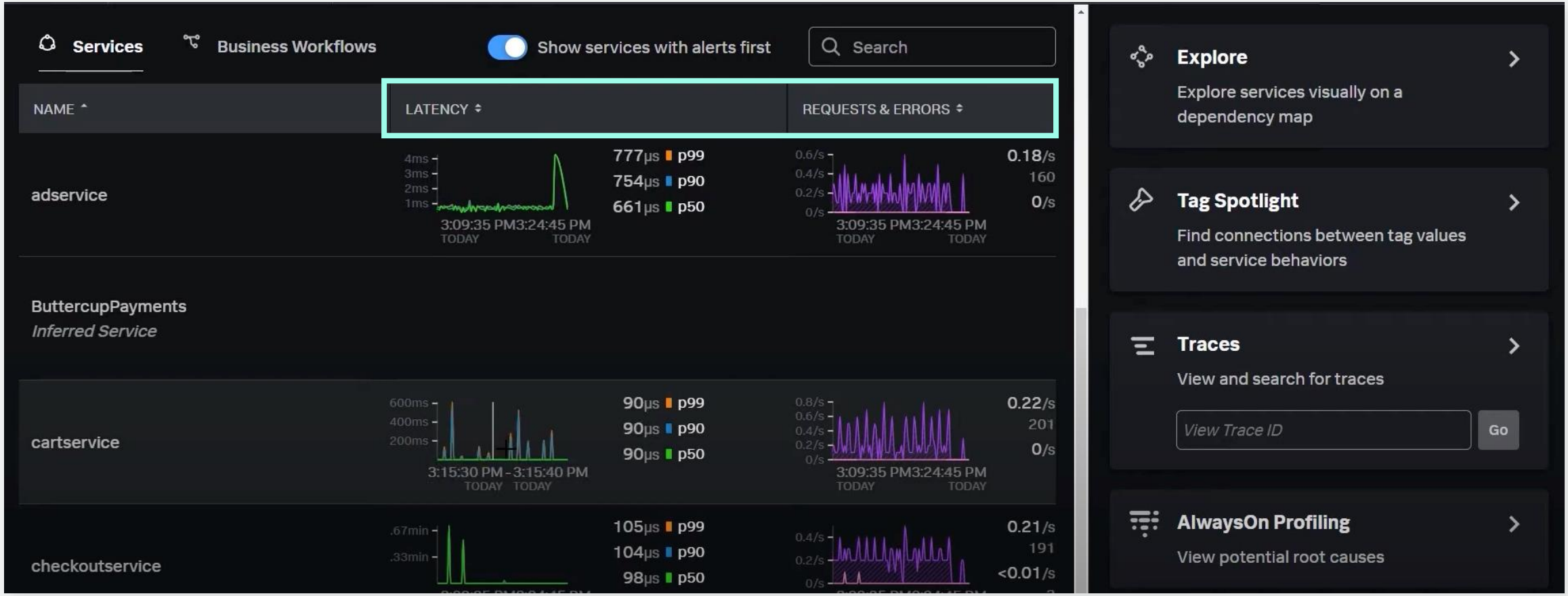

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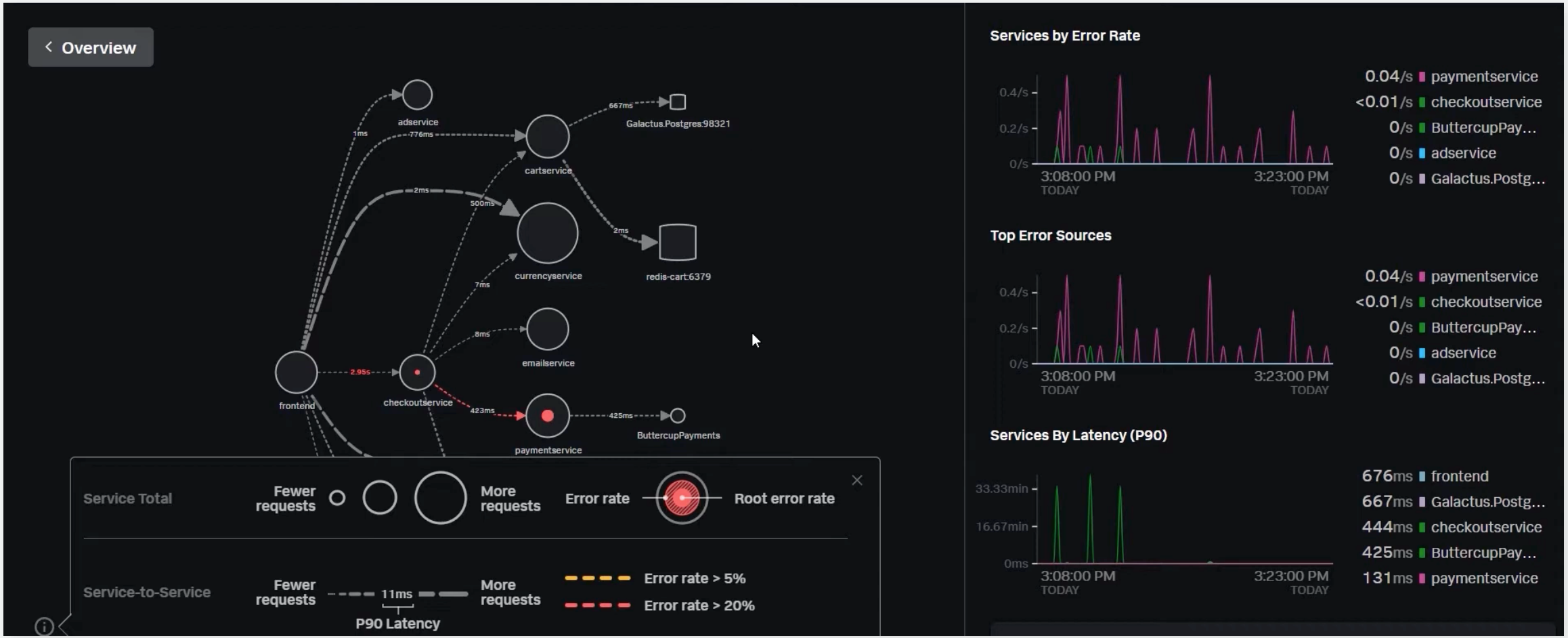

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Traces Duration (ms) Min Max Errors Only View Trace ID Go

Trace ID	Start Time	Initiating Operation	Services	Duration
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6c200d185ad2366a	Oct 21 2021 15:03:10	frontend: POST /cart/checkout	! checkoutservice (10) frontend (9) productcatalogservice (7) cartservice (5) recommendationservice (2) shippingservice (2) redis-cart:6379 (2) ! paymentservice (2) emailservice Galactus.Postgres:98321 ButtercupPayments	1.58s
7ca36c2bd0e41b34	Oct 21 2021 15:02:20	frontend: POST /cart/checkout	frontend (9) ! checkoutservice (8) productcatalogservice (6) cartservice (5) ! paymentservice (4) recommendationservice (2) shippingservice (2) redis-cart:6379 (2) ButtercupPayments (2) emailservice currencyservice Galactus.Postgres:98321	945ms
1063918cd45de32e	Oct 21 2021 15:03:13	frontend: POST /cart/checkout	frontend (9) ! checkoutservice (8) productcatalogservice (6) cartservice (5) recommendationservice (2) shippingservice (2) redis-cart:6379 (2) ! paymentservice (2) emailservice currencyservice Galactus.Postgres:98321 ButtercupPayments	1.24s

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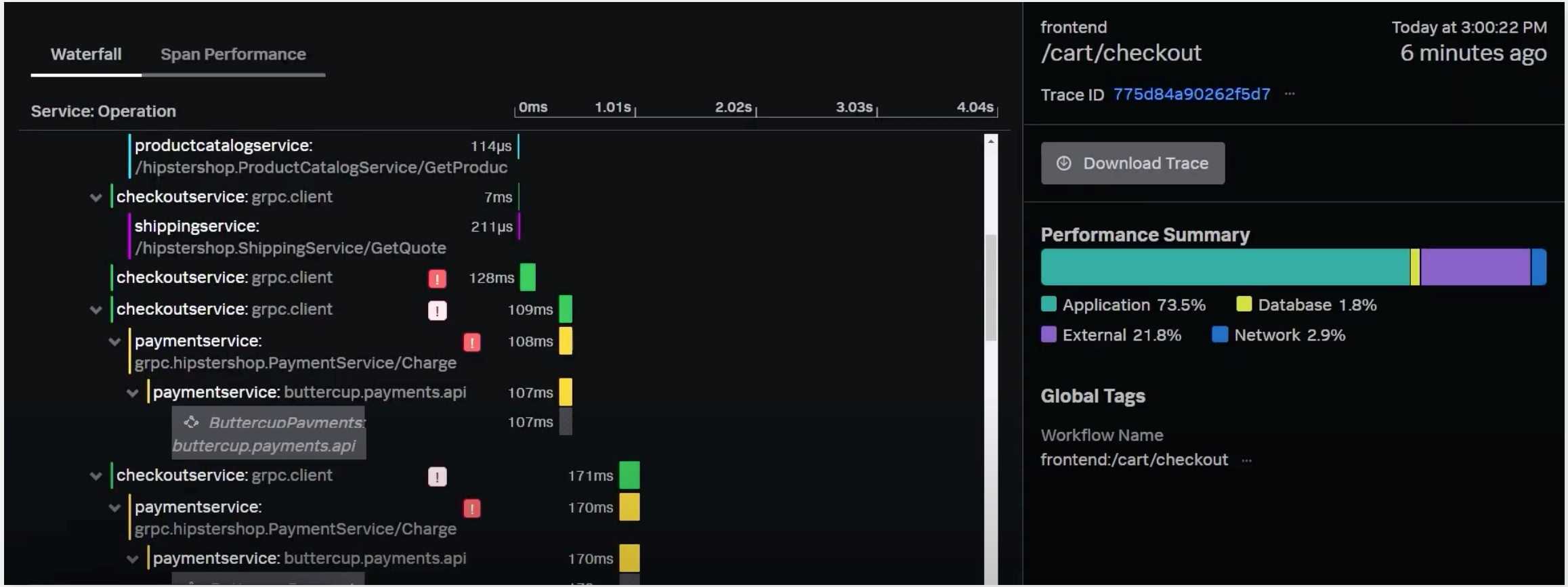

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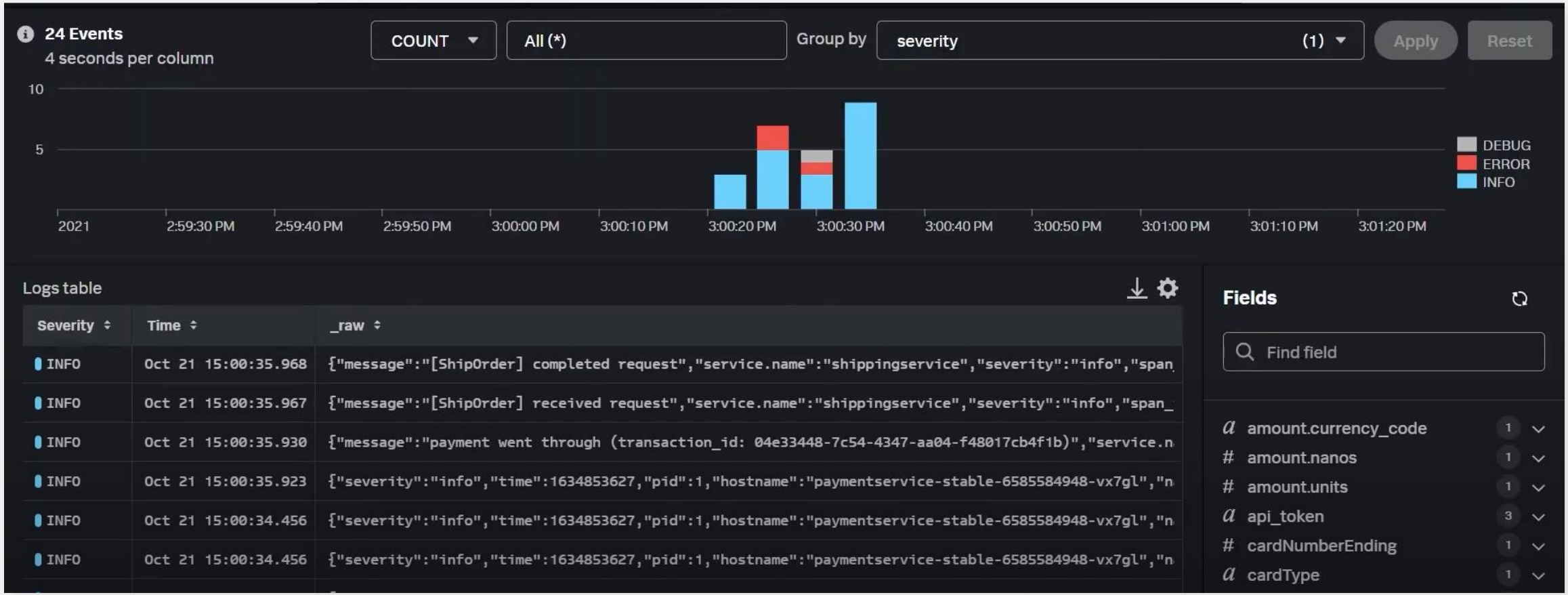

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AWS Marketplace for EKS add-ons

Amazon EKS

aws marketplace

Now get software curated by AWS and developed by our partners all in one place

Find, select, deploy, and maintain free or paid software from third party vendors directly on the EKS console

Deploy third party add-ons from the Amazon EKS console, or EKS add-ons APIs using eksctl, or infrastructure as code tools like Terraform

Third party container add-ons images are CVE scanned and validated to launch on EKS clusters

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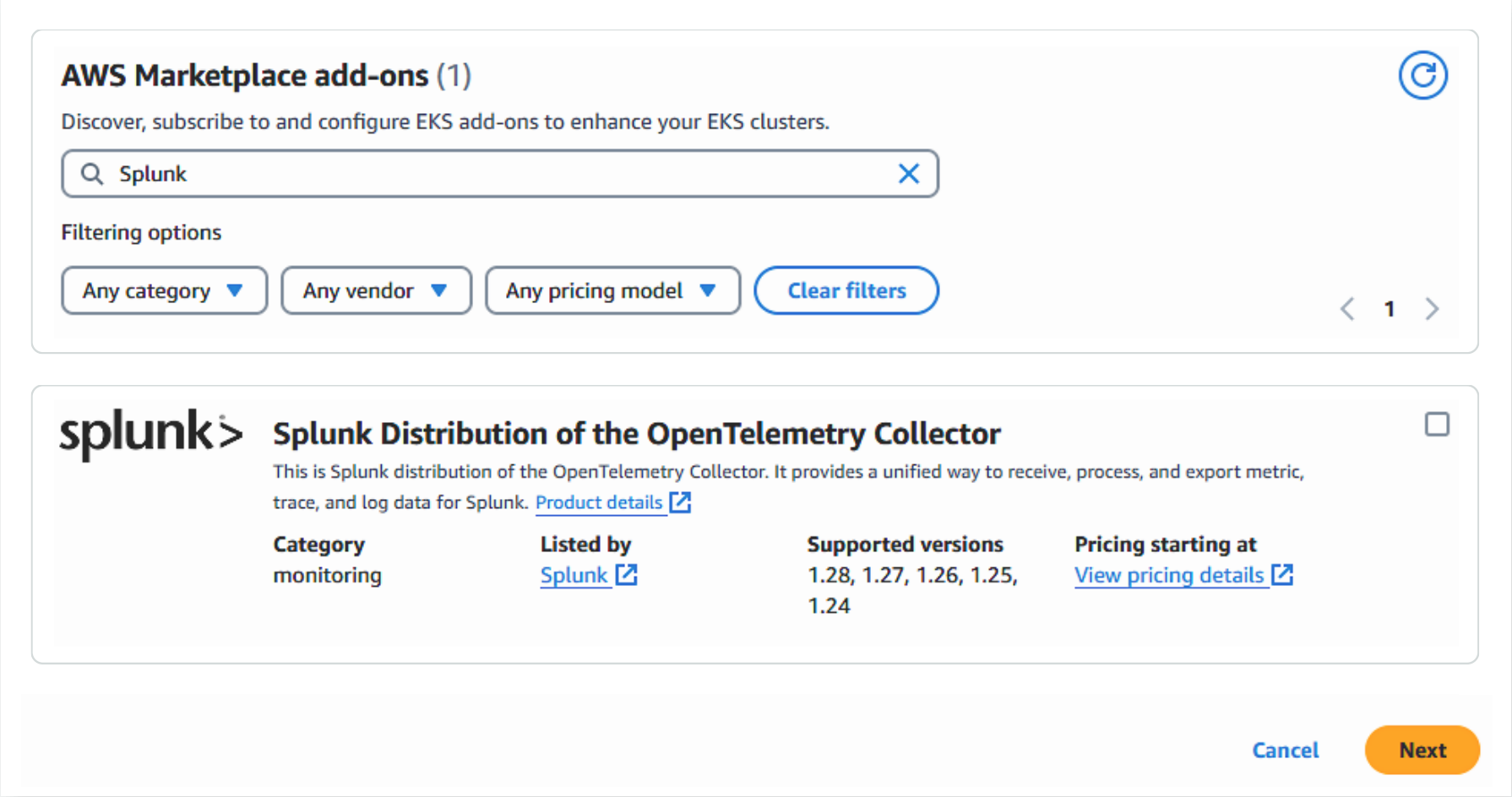
Splunk OTEL Collector on the EKS Console



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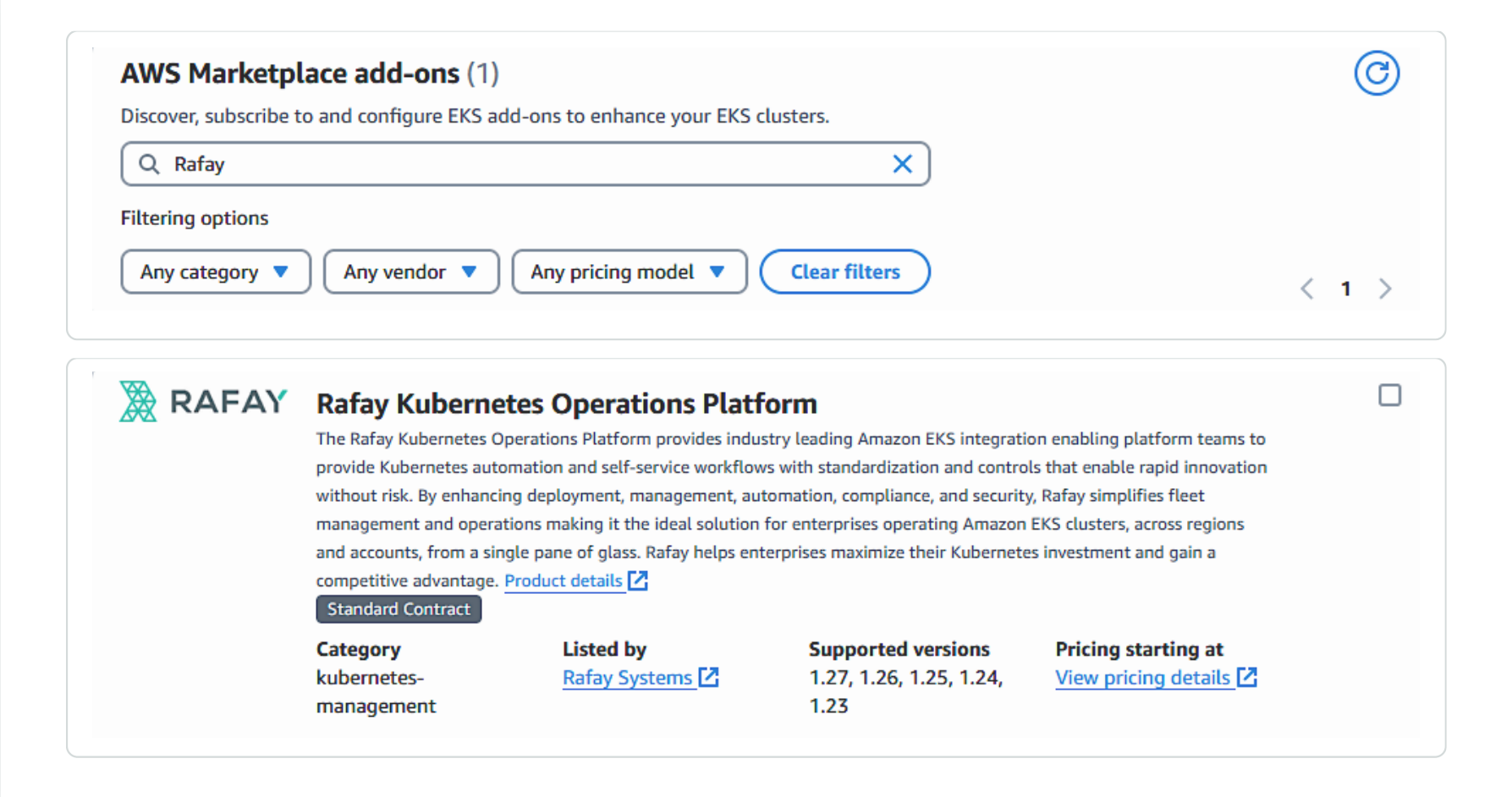
Rafay Management Operator on the EKS Console



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Summary

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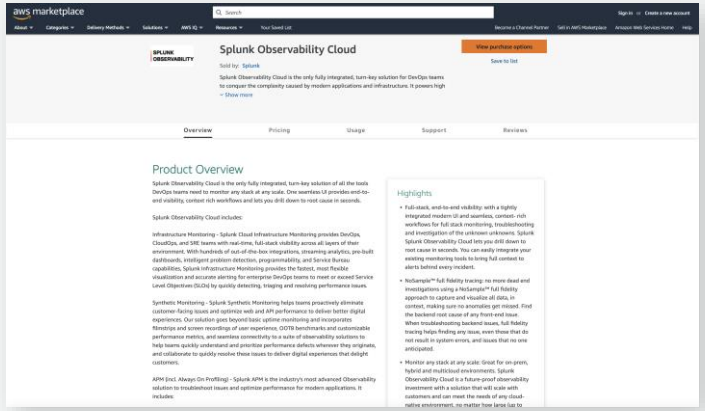
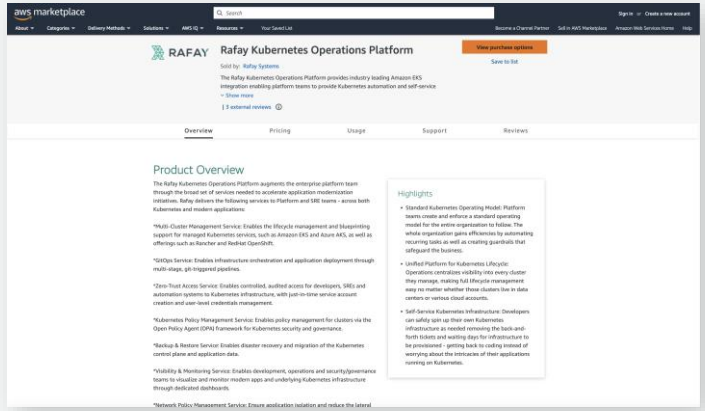
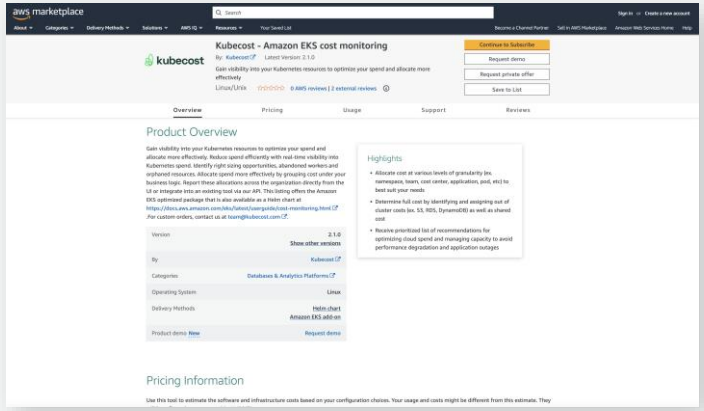
Get started with AWS Marketplace



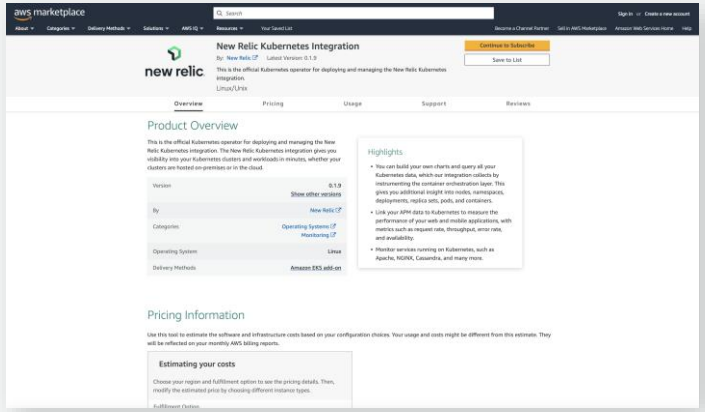
Try Splunk in AWS Marketplace



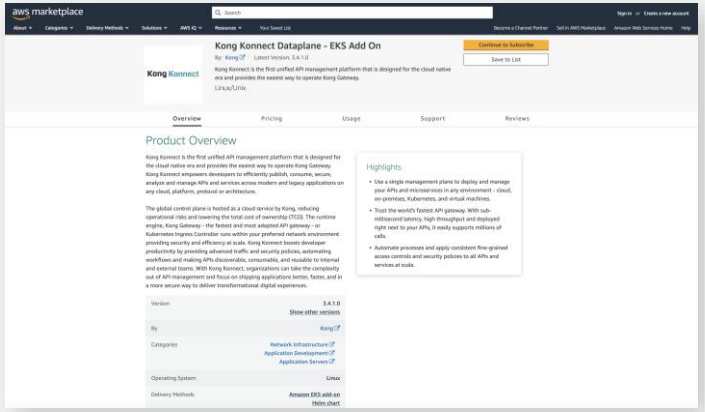
Try Rafay in AWS Marketplace



Try Kubecost in AWS Marketplace



Try New Relic in AWS Marketplace



Try Kong in AWS Marketplace

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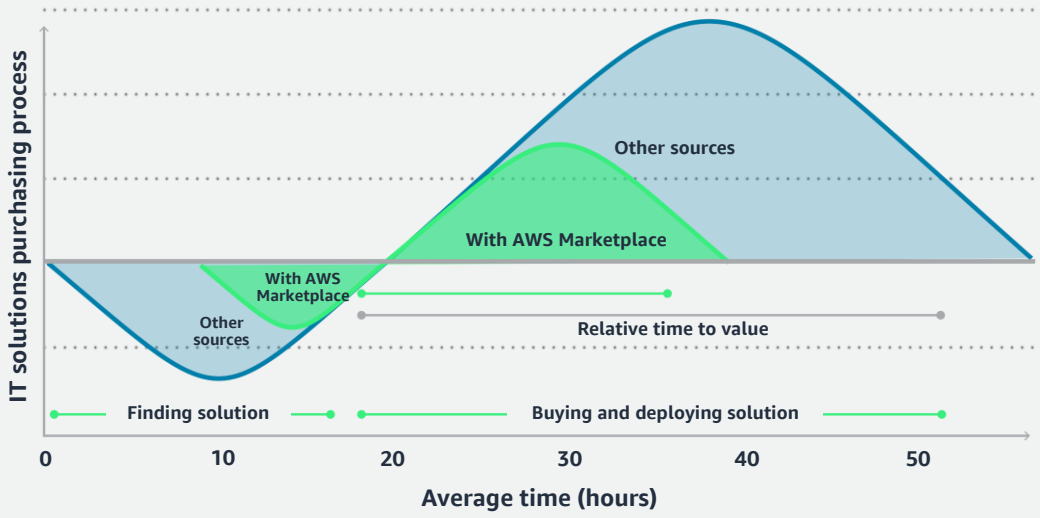
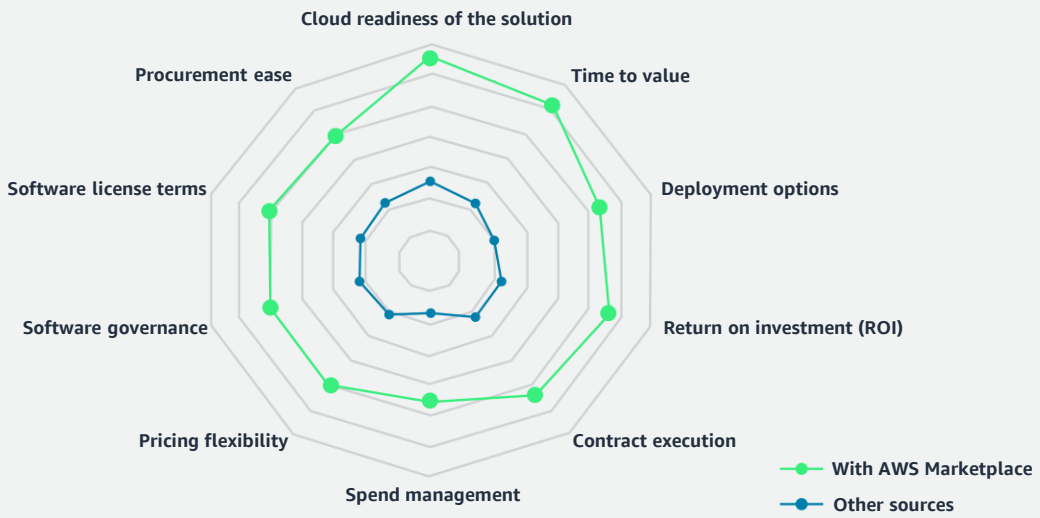
Why AWS Marketplace

Find, buy, and deploy solutions quicker



IT decision-makers (ITDMS) cut their time in half using AWS Marketplace compared to other sources.

Make more satisfying purchases



ITDMS feel 2.4x better about purchasing using AWS Marketplace compared to other sources.

*Amazon Web Services (AWS) Marketplace surveyed 500 IT decision-makers (ITDMs) and influencers across the U.S. to understand software usage, purchasing, consumption models, and compared savings.

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How you can get started

Find

A breadth of DevOps solutions including:

RAFAY
splunk>
Kong
Katalon
PagerDuty
snyk

And more:
https://aws.amazon.com/marketplace/solutions/devops

Buy

Through flexible purchasing options:

- Free trial
- Pay-as-you-go
- Hourly | Monthly | Annual | Multi-Year
- Bring Your Own License (BYOL)
- Seller Private Offers
- Channel Partner Private Offers

Deploy

With multiple deployment options:

- AWS Control Tower
- AWS Service Catalog
- AWS CloudFormation (Infrastructure as Code)
- Software as a Service (SaaS)
- Amazon Machine Image (AMI)
- Amazon Elastic Container Service (ECS)
- Amazon Elastic Kubernetes Service (EKS)

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Learn more about DevOps with AWS Marketplace

https://aws.amazon.com/marketplace/solutions/devops

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aws marketplace

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