

ORACLE

Automate Deployments, Terraform Infrastructure

And Run Furiously Fast Cloud-Native Java

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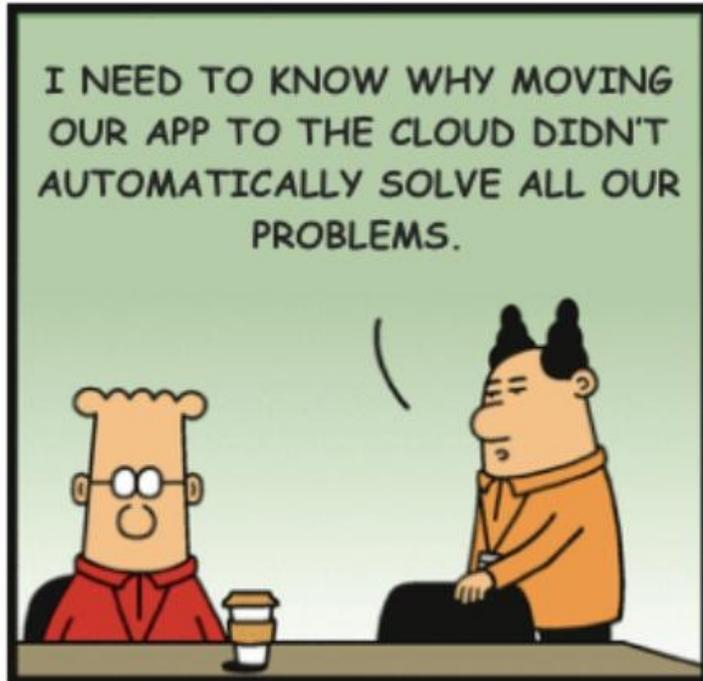
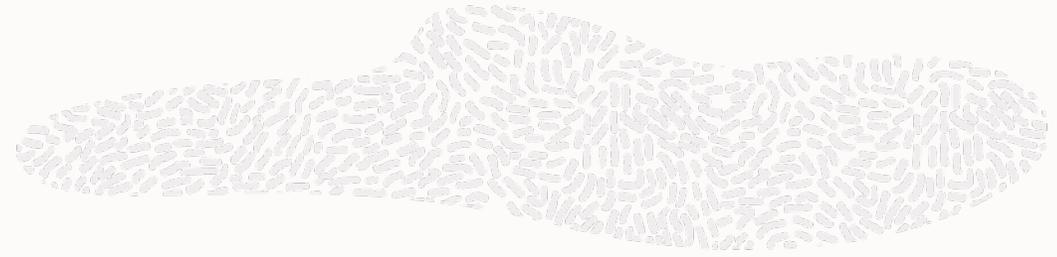
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Application Development Specialist

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Intro



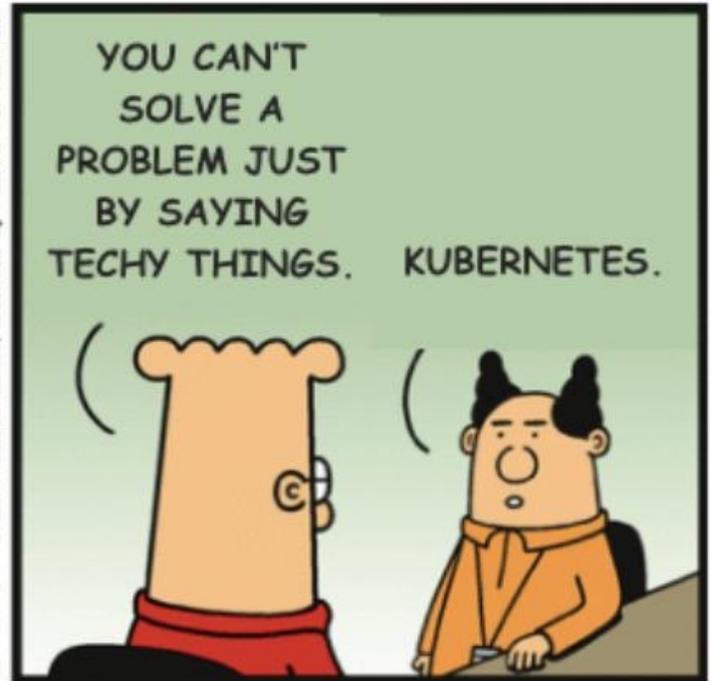
Why Are We Here?



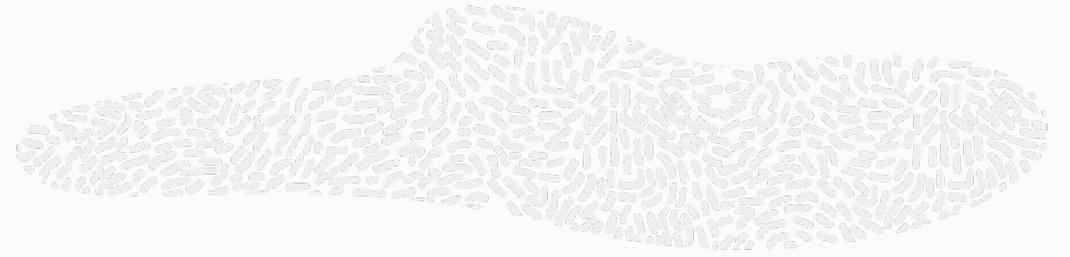
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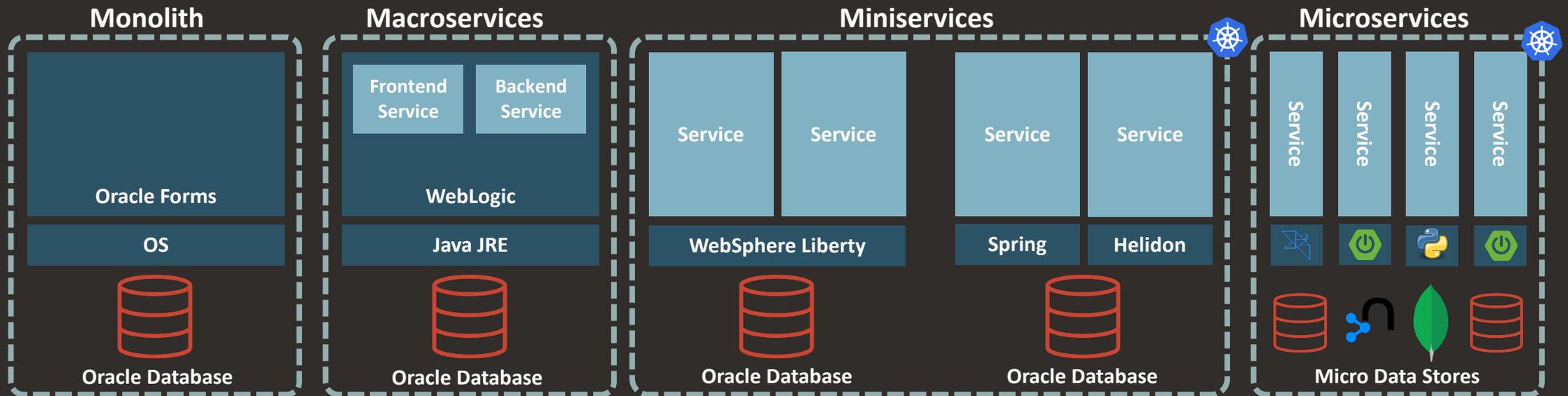


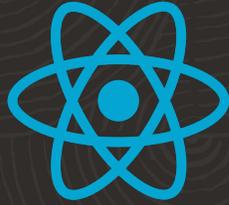
Where Are You? (1)



Where Are You? (2)

Source: Gartner
ID: 383785





React



Spring Boot



MongoDB
Atlas [GCP]



Oracle Database
EE 21c [OCI]



Autonomous JSON
Database [OCI]

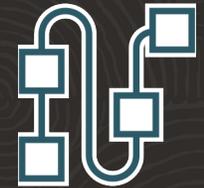
Oracle Database
API for MongoDB



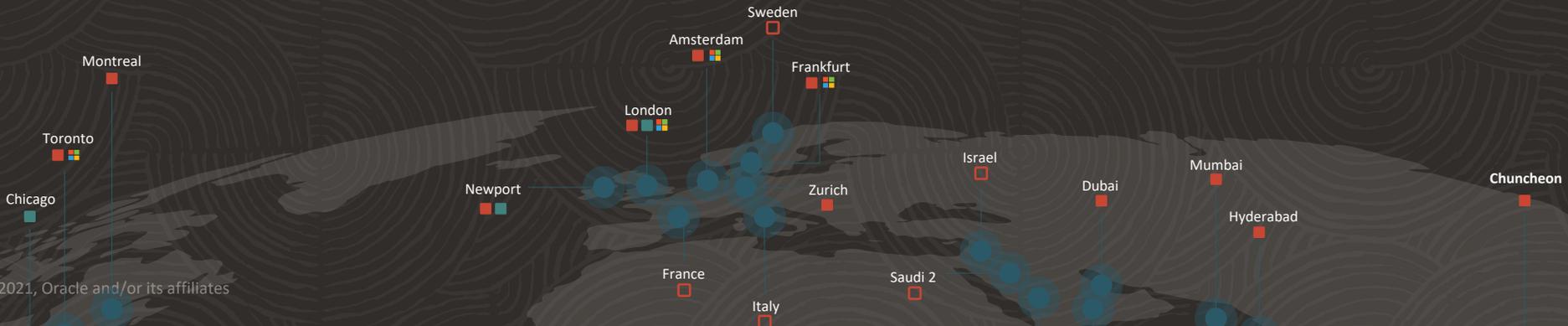
Docker
OCIR [OCI]



Kubernetes Engine
OKE [OCI]

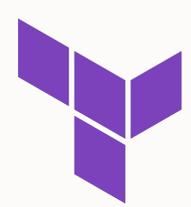
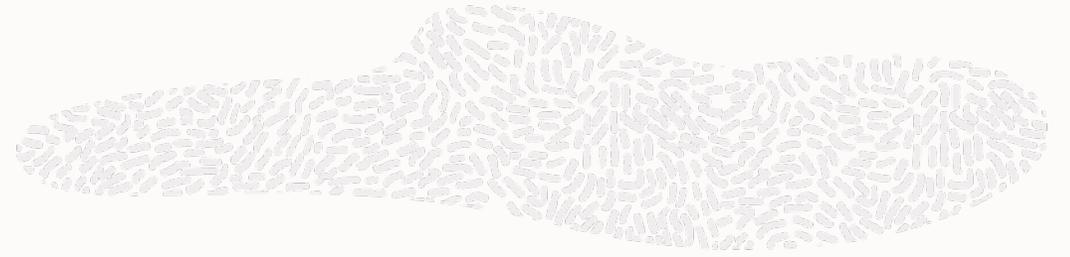


CI/CD
DevOps [OCI]



2

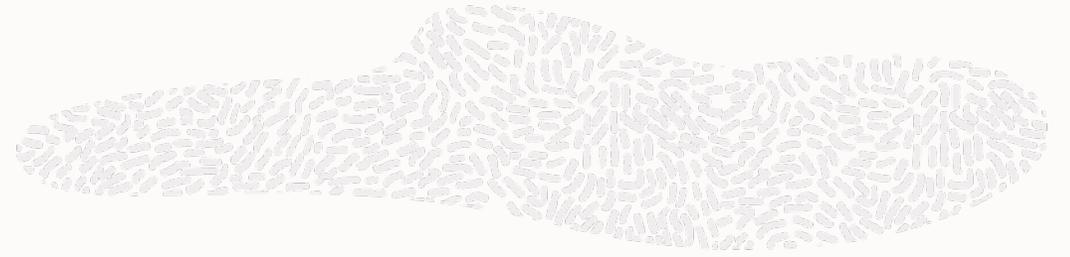
How to Terraform Infrastructure?



HashiCorp

Terraform



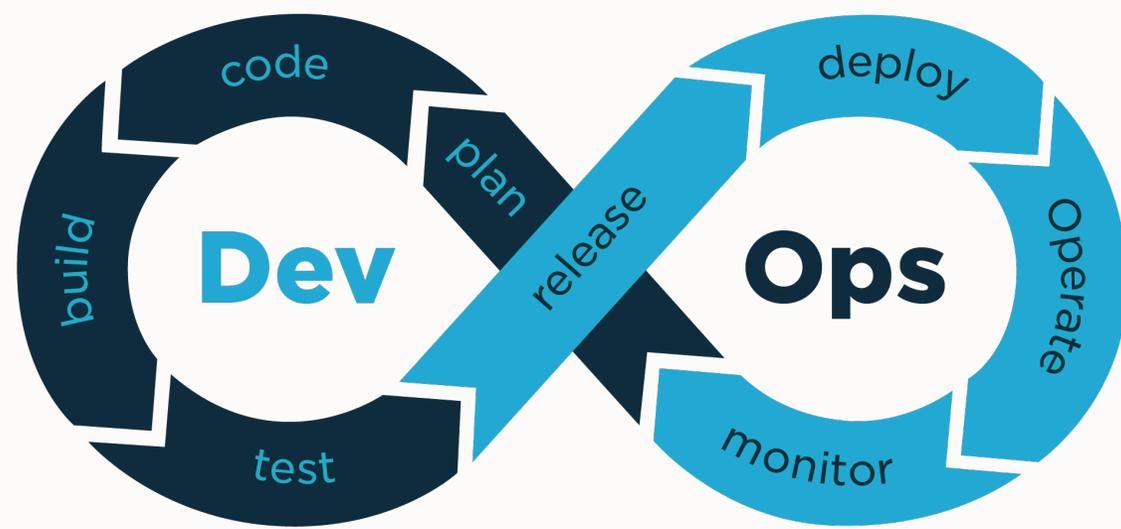
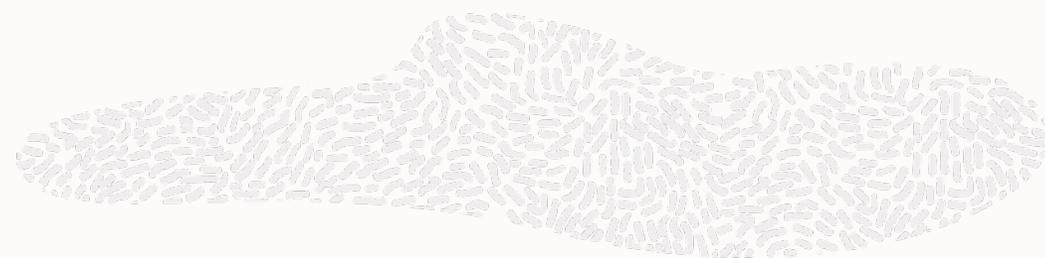


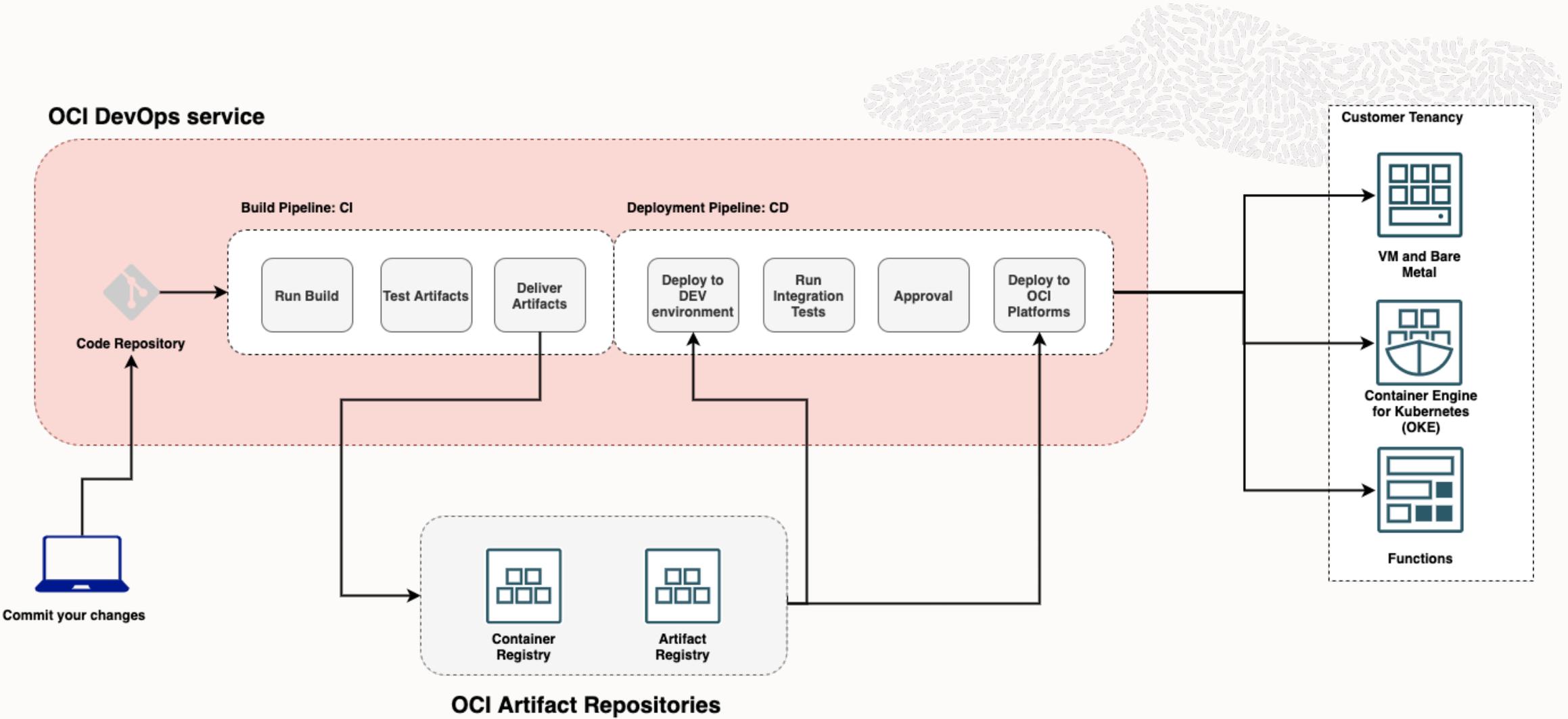
Demo 1: Terraform Infrastructure

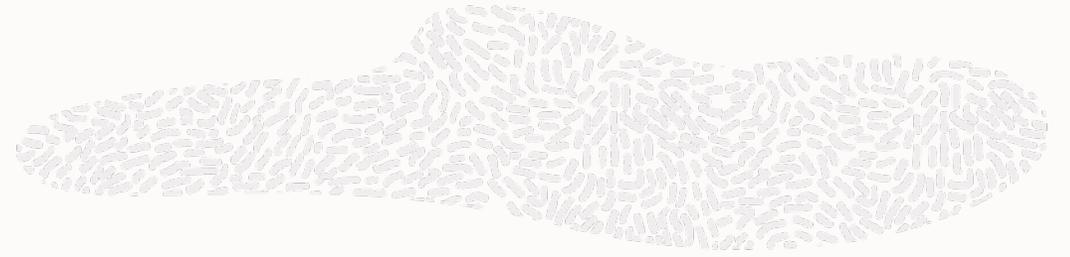


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How to Automate Deployments?



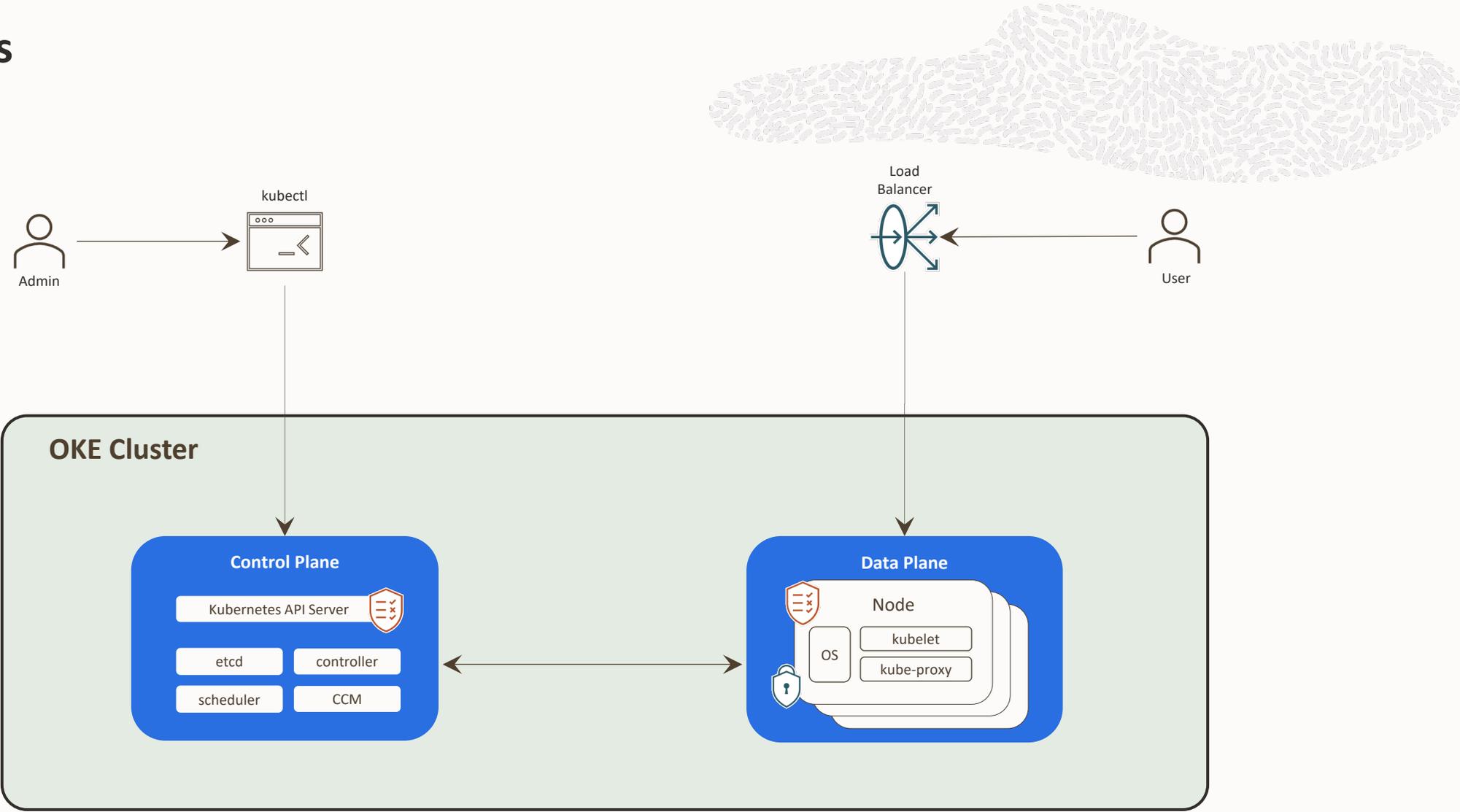




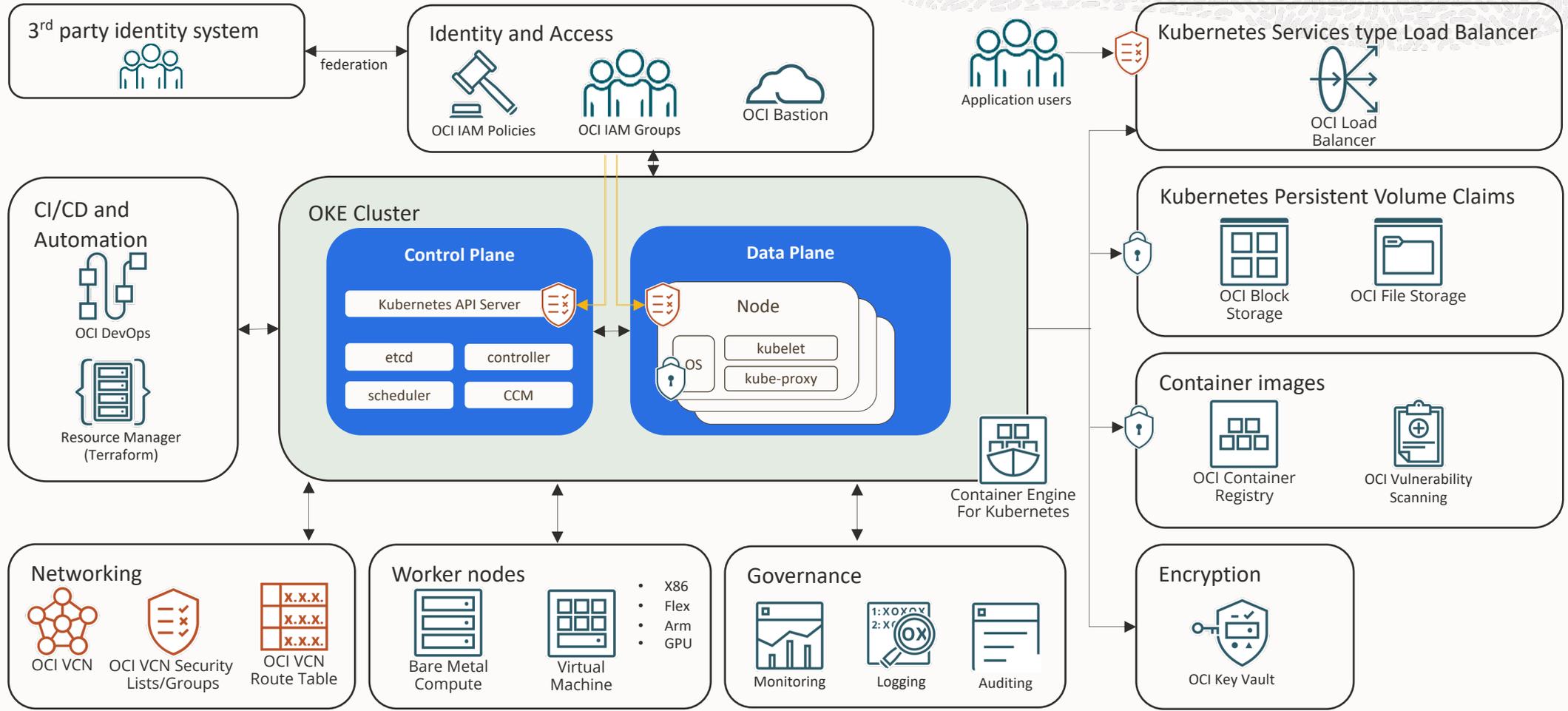
kubernetes

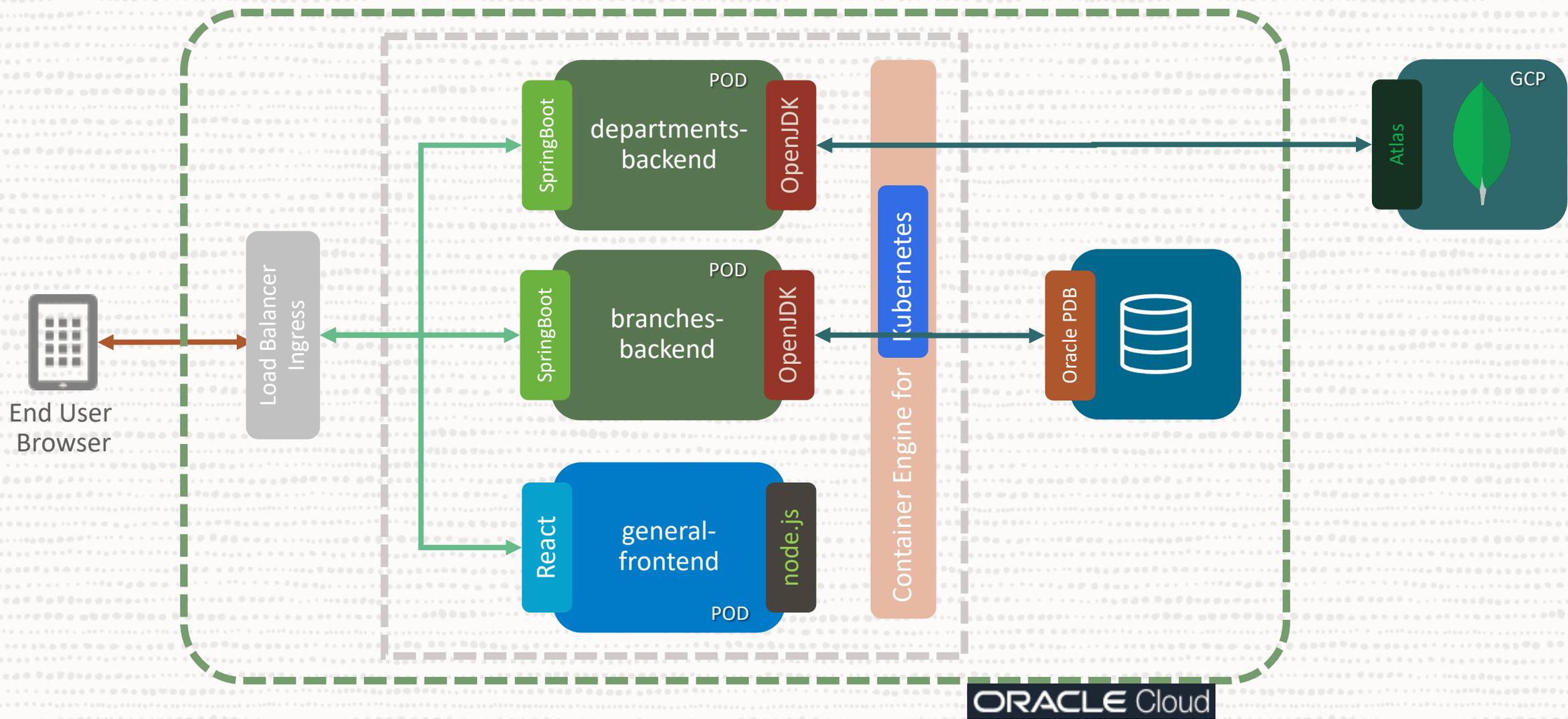


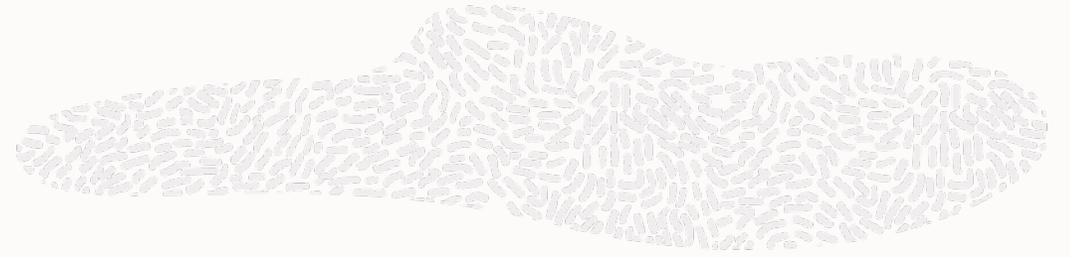
Kubernetes



Kubernetes – The Big Picture







Demo 2: Automate Deployments

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Cloud Native Java?

What is Helidon?



1. Lightweight, fast and easy to use Java Microservices Framework
2. Standards-based, open source, cloud native
3. Based on MicroProfile (Java EE in modular pieces)

Helidon

gRPC
DB Client
Web Client
Security
CORS

MicroProfile

Metrics	Health Check	CDI
Config	Reactive Stream Operators	RESTful Web Services
OpenTracing	Fault Tolerance	JSON Processing
JWT Auth	Reactive Messaging	JSON Binding
Open API	GraphQL	Annotations
Context Propagation	REST Client	

Persistence
WebSocket
Transactions

Jakarta EE

Enterprise Beans	Servlet	Connectors
Bean Validation	Server Pages	Security
Standard Tag Library	Faces	Authentication
Expression Language	Interceptors	Authorization
Messaging	NoSQL	Concurrency
XML Web Services	Activation	Batch
XML Binding	Mail	Stable

Helidon

MicroProfile

Jakarta EE
MicroProfile

Jakarta EE



What is Micronaut?



- A modern, JVM-based, full-stack framework for building modular, easily testable microservice and serverless applications
- Open source, cloud native
- Not based on MicroProfile, rather declares own APIs

Thank you

