

Automating Load Balancing in Dynamic Multi-Cloud Kubernetes Deployment

Introducing A10 Ingress Controller

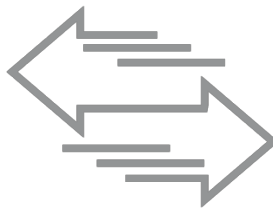


Reliable Security Always™

Modern Application Operations Need...



Software-Defined Cloud for fast, efficient, flexible service production



Faster learning & development with iteration and **dev automation**



Increase Efficiency in Multiple Services via Visibility analytics



A10 Solution for Kubernetes

- Ingress Controller, ingress resources and service discovery
- A10 Harmony Controller
 - Providing centralized app visibility, analytics and policy management
- A10 Lightning ADC
 - Deployed on every Kubernetes node
 - Providing application proxy services including advanced load balancing, content switching, SSL termination and app security

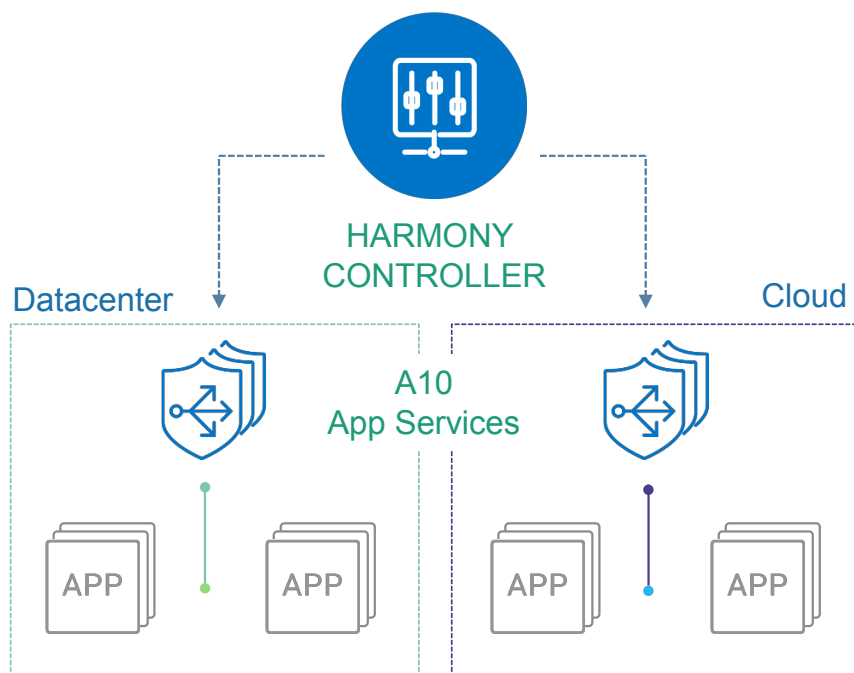


Solution Highlights

- **Enterprise.** Think large number of containers/pods
- **Customization.** From simple content based routing to advanced traffic policies
- **Security.** Enterprise-grade SSL/TLS termination and visibility
- **Automation.** Program / provision L7 load balancers on demand
- **Micro-segmentation.** Load balance based on any info in HTTP Request
- **Software-defined.** Control-Management-Data distributed plane from Kubernetes platform to Harmony Controller



A10 App Delivery Solution Architecture



Centralized Management



Automation and Self-Service



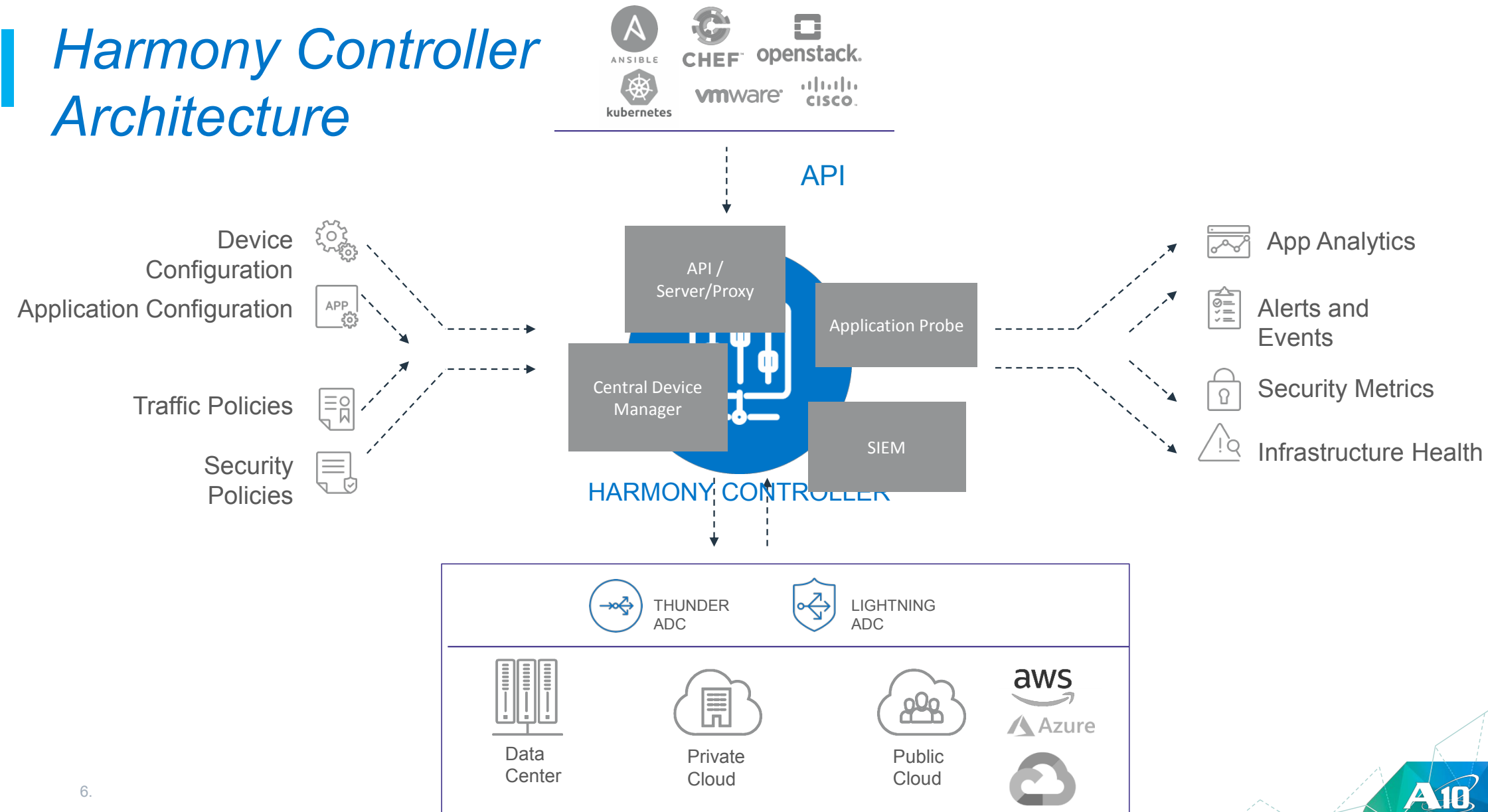
Visibility and Analytics



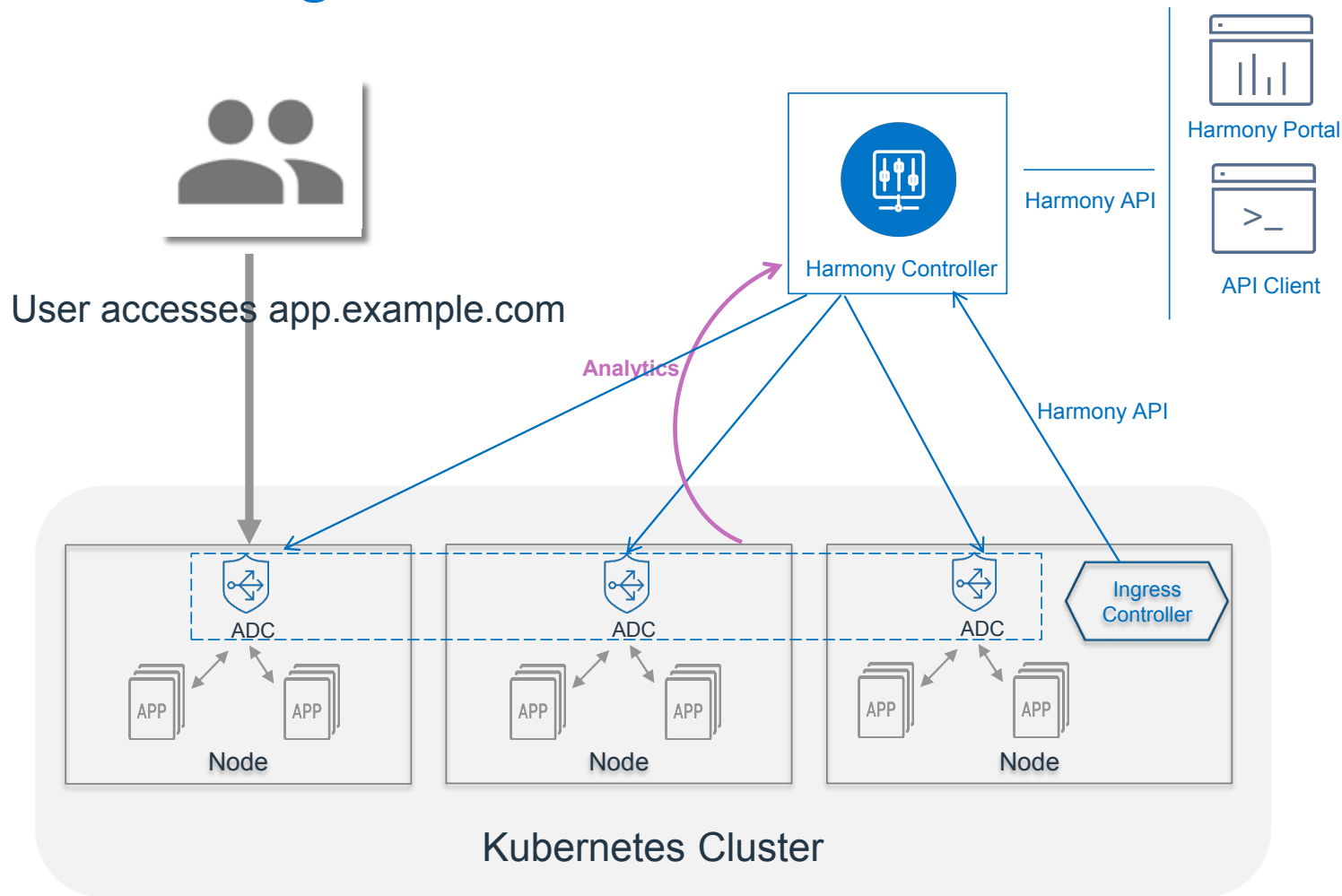
Scale-out, DevOps Integrations



Harmony Controller Architecture

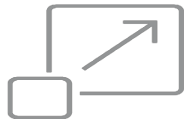


A10 Ingress Controller for Kubernetes



- Ingress Controller detects changes in application service scale and calls Harmony APIs
- Controller pushes updated config to ADCs
- Analytics flows from ADC to Controller
- New Lightning ADCs automatically deployed with new node; They connect to controller and get relevant configuration

A10 Ingress Controller for Kubernetes Brings...



Auto-scale & Auto-config Load Balancers with App servers

- Automatic scaling of ADC with Kubernetes cluster
- Automatic configuration



Auto-sync with Application Infrastructure

- Detection of application container scaling
- Dynamic configuration updates



Per-app Visibility & Control

- Analytics and insights at application and URL
- Faster troubleshooting
- Operational intelligence





THANK YOU