

Accelerate Container Initiatives

With Cisco Intersight Workload Optimizer and Kubernetes



Full-stack visibility and control



Hybrid cloud optimization



Intelligent automation

Containers and Kubernetes

Ensuring application performance to deliver the best customer experiences is a top priority for businesses today. To deliver on customer expectations, organizations are using containers and other cloud-native technologies to create better applications and deliver services faster. Kubernetes is the de facto standard for running modern applications. The cloud-agnostic platform offers the scalability and elasticity that can unleash developer speed and business agility, but for IT teams it creates a more dynamic and complex environment.

Decision automation for Kubernetes

Cisco Intersight™ Workload Optimizer (IWO) adds essential capabilities to Kubernetes deployments so that workloads can be smart and self-managed. The platform simultaneously optimizes performance, compliance, and cost in real time. It helps ensure that workloads get precisely the resources they need when they need them. Intersight Workload Optimizer:

- **Automates** pod rescheduling to assure performance
- **Autoscales** clusters intelligently to implement elastic infrastructure
- **Unites** DevOps and infrastructure teams with full-stack visibility

Benefits

Full-stack visibility

helps you understand application resource needs based on demand at every layer of the stack.

Hybrid cloud optimization

intelligently controls performance, compliance, and cost across public and private clouds.

Intelligent automation

allows you to set application Service-Level Objectives (SLOs) and the software will automatically ensure applications are resourced to perform.

Supported platforms



Kubernetes



OpenShift



Amazon EKS



Azure AKS



Google GKE

Intersight Workload Optimizer supports any upstream version of Kubernetes, including Red Hat OpenShift, Amazon EKS, Azure AKS, and Google GKE.

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

C45-743995-00 07/20

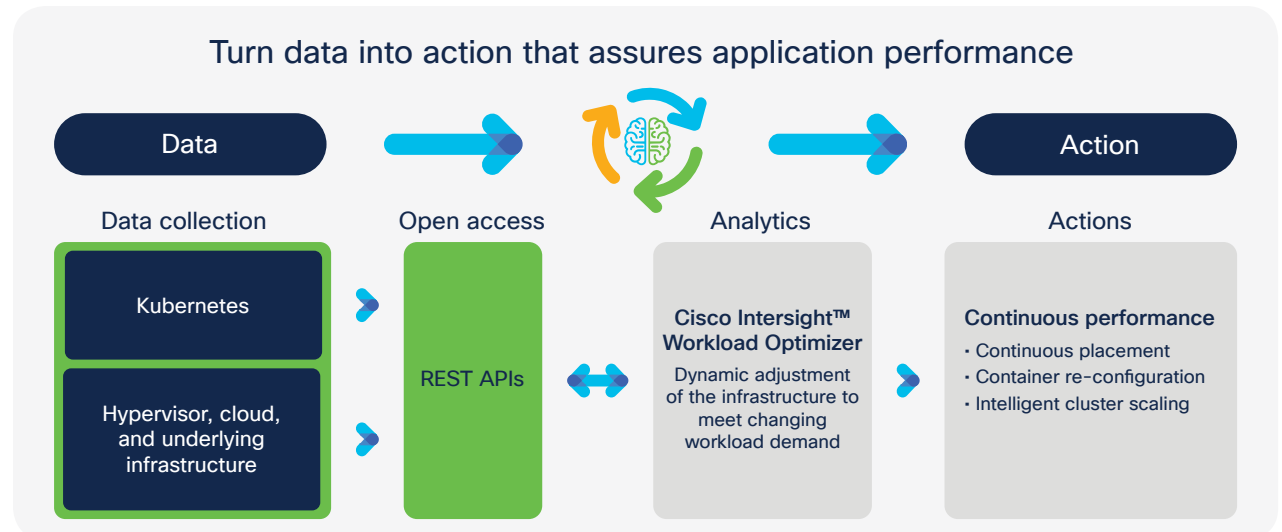
Architectural overview

Cisco Intersight Workload Optimizer continuously and simultaneously assures application performance while minimizing cost and maintaining compliance with business policies—for your Kubernetes clusters. Cisco® Intersight Workload Optimizer enables you to dynamically right-size containers, move/reschedule pods, scale clusters, and plan capacity to on-board new services. It provides a unified control platform to manage application resources across your hybrid and multicloud estate.

Accelerate platform-first initiatives

The rise of microservices based on containers has made IT environments a lot more dynamic and complex, seriously challenging your IT organization's capability to deliver cost-efficient quality of service. Cisco Intersight Workload Optimizer scales with the complexity of containerized hybrid and multicloud estates, helping you achieve your platform-first goals more quickly and within budget. As your container projects accelerate, stay ahead of the increasing management complexity with Intersight Workload Optimizer.

Figure 1. Architectural overview - Intersight Workload Optimizer and Kubernetes



For more information

• cisco.com/go/optimizer