Why Cisco?

Extend successful capabilities of Cisco ACI in on-premises environments to AWS.

- **Automate and secure connectivity:** Use the same operating model for AWS instances as you do for your on-premises data centers today

- **Enable consistent security posture:** Use a common security posture across all locations for consistent application segmentation, access control, and isolation across varied deployment models.

- **Enable next-gen apps with governance:** Enable cloud-based application innovation while still providing consistent governance and control.

- **Optimize total cost of ownership:** Lower your operational costs by automating connectivity, using a common policy management model across both on-premises and AWS while leveraging existing investments.

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Cisco overview

Cisco Cloud Application Centric Infrastructure (Cisco Cloud ACI) is a comprehensive solution for simplified operations, automated network connectivity, consistent policy management, and visibility for multiple on-premises data centers and AWS. The solution captures business and user intents and translates them into native policy constructs for applications deployed across various cloud environments.

Cisco Cloud ACI can help organizations develop a holistic infrastructure strategy that takes an architectural approach toward solving the unique challenges of hybrid cloud deployments. Using this architecture, Cisco can guide organizations in a step-by-step journey that optimizes their technology investments and accelerates solution deployments across any location. Cisco Cloud ACI delivers on the promise of extending policy-driven automation across on-premises and AWS.

Cisco features

**Next-generation applications with consistent operations, visibility, and control**

- Enable a common operational model across on-premises and AWS with simplified visibility and troubleshooting capabilities.
- Integrate cloud-native services between on-premises centers and AWS.
- Automate cross-domain service chaining of application traffic across L4–L7 devices to scale and secure any application, anywhere.

**Common policy abstraction, governance, and compliance**

- Implement a common whitelist policy model for both on-premises and cloud infrastructures.
- Simplify deployment with consistent segmentation policy, security, and visibility.
- Deliver consistent application segmentation, governance, and compliance across on-premises and AWS.

**Business continuity and disaster recovery**

- Allow organizations to maintain or quickly resume mission-critical applications using a backup and recovery site in the cloud.
- Provide business continuity via always-on encrypted connectivity across multiple Availability Zones and on-premises data centers.

**Elasticity for resources across on-premises data center and cloud**

- Automate and scale data center extensions into AWS.
- Enable on-demand cloud bursting whenever on-premises data center workloads require additional AWS resources.
- Provide on-demand agility, cost savings, and a consistent security policy for any workload in any location.
How it works

Cisco uses a holistic approach to enable application availability and segmentation for bare-metal, virtualized, containerized, or microservices-based applications deployed across multiple cloud domains. The common policy and operating model drastically reduces the cost and complexity in managing multi-cloud deployments. It provides a single management console to configure, monitor, and operate multiple disjoint environments spread across multiple clouds.

What our customers are saying

“The openness and flexibility of Cisco’s APIs for automating both the underlay and overlay networks was a critical factor in our choice of Cisco ACI. It allows us to integrate seamlessly with business workflows and incorporate technologies like OpenStack and Kubernetes, with full support from Cisco.”

- Jan Holzmann, Senior Manager for Central Network Services, Bosch

Solution available in AWS Marketplace