

Cisco Multicloud Defense

Simplify security across cloud environments with Cisco and AWS



Complex cloud infrastructures pose challenges with data safety

Organizations understand the powerful scalability and flexibility that comes with moving workloads to the cloud, with more than 85% embracing a cloud-first principle by 2025.¹ As cloud strategies evolve, cloud footprints, and the increased complexity that comes with them, require new approaches to security.

Securing data across cloud environments comes with key considerations, such as:

- Identifying and managing unified security controls to prevent potential malware and ransomware attacks.
- Deploying changes across multiple virtual private clouds, cloud providers, accounts, and regions.

- Relying on security groups and network access control lists (NACLs) for egress filtering or having self-managed, open-source firewalls, or no firewalls.
- Meeting requirements for data sovereignty and audit logs for incident response and remediation.
- Inspecting, securing, and meeting compliance needs for egress (workload to internet), ingress (internet to workload), and east-west security (VPC to VPC) communication.

Securing controls, intellectual property, customer data, and other confidential and sensitive information is critical.



Connect, protect, and unify security at cloud speed and scale

Cisco Multicloud Defense is an agile, scalable, and robust solution that helps businesses meet their secure cloud networking requirements—now and in the future. Designed specifically for organizations with complex cloud setups, it provides a single solution for unified security that is scalable across Amazon Web Services (AWS).

A centralized single-controller approach simplifies security management and protection across your entire infrastructure for end-to-end visibility, control, and ease of administration. Unifying governance across multiple inspection points, you can use it in various deployment models and easily set up centralized and distributed inspection services to protect workloads on AWS.

Unlock the advantages of centralized security

Discover the power of unified security with Cisco Multicloud Defense. This innovative solution safeguards your entire cloud landscape with a single Software-as-a-Service (SaaS) control plane for comprehensive, tailored protection.

Enhanced visibility and control

Visualize your entire AWS Cloud environment across regions and accounts, and reduce risk with deeper insights into network behavior. Proactively close potential security gaps within your cloud environment using real-time asset discovery.

Unified security

Manage security across your AWS Cloud and private clouds from one place. Create, enforce, and update policies across all cloud environments in real time.

Increased operational efficiency

Automate underlying cloud network constructs and integrate with infrastructure as code. Minimize redundancy and remove lengthy change control processes with tag-based policy management.

Comprehensive multidirectional protection

Stop potential inbound threats, block command and control, and prevent lateral movement with ingress, egress, and east-west protection. Protect your system with data loss prevention, IPS/IDS, L7 DoS, deep packet inspection, URL filtering, and malware detection.

Cisco Multicloud Defense runs on AWS to provide scalable, robust security

Cisco Multicloud Defense controller integrates with AWS APIs to natively deploy gateways and handle end-to-end orchestration, automation, and scalability of the gateways in your AWS accounts. With Multicloud Defense Gateways deployed in your accounts, there's no need to forward traffic to external accounts for inspection, which helps meet data sovereignty and compliance regulations.

Cisco Multicloud Defense integrates with multiple AWS services to deploy security architectures that meet AWS best practices. It utilizes Gateway Load Balancer and AWS Transit Gateway so you can deploy either centralized or distributed architectures based on your use cases. Cisco Multicloud Defense also integrates with VPC Flow Logs and DNS query logs to provide enhanced traffic visibility for your workloads.

Cisco's solution orchestrates policy deployment and enforcement points, while AWS provides the underlying networking connectivity, compute foundation for enforcement, and logging data that feeds security visibility. When you implement Cisco Multicloud Defense, it deploys Amazon Elastic Compute Cloud (Amazon EC2) instances for the gateways, Gateway Load Balancer, Network Load Balancer, and AWS Transit Gateway in your AWS tenant.

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Teradata secures workloads at scale with Cisco and AWS

Teradata, a data analytics company using multiple cloud sites, needed to improve its tool stack to meet growing demand while maintaining flexibility and security. It wanted a scalable, cloud-native solution that was low maintenance and had capabilities such as decryption and advanced content inspection.

Cisco Multicloud Defense provided Teradata with the ability to standardize security for consistency across each AWS Cloud deployment, reduce operational overhead,

and increase its business agility. “Cisco enables us to do in minutes what previously took hours,” noted Dr. Stacy Lanier, director of cloud engineering for Teradata. “It modernized our secure cloud networking infrastructure and enabled a first-class architecture, centralizing cloud visibility and control across our customer accounts.”

With Cisco Multicloud Defense, Teradata:

- Decreased customer provisioning time by 50%
- Reduced infrastructure costs by 35%
- Accelerated incident response time with policy updates applied in minutes across hundreds of security control points

[Read full case study ›](#)



Take the next step to simplify your cloud security

Cisco Systems is an AWS Partner and AWS Marketplace Seller that helps you optimize your cloud strategy by bringing together networking, security, analytics, and management. With Cisco and AWS, if it's connected, you're protected. Learn more about [Cisco solutions on AWS](#).

To get started with Cisco Multicloud Defense today, [sign up for a demo](#).