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Alkira | AWS

Alkira Cloud Area Networking.
The Fastest Way to the Cloud.

Accelerate AWS adoption through
Alkira Cloud Area Networking

Overview

The cloud era has arrived. Organizations are increasingly transitioning business critical applications from on-premises data centers to the public cloud and SaaS environments. While compute, storage and applications have comprehensively evolved beyond virtualization and automation to simple as-a-service offerings, the network and security have not. Modern enterprises fully realize the critical necessity to bring network and security into the cloud era and allow IT organizations to empower the digital transformation moving at the speed of rapidly evolving business needs.

The Challenge

Building a secure, scalable and resilient cloud network that connects together remote users, on-premises locations, and AWS VPCs is many times a daunting and frustrating experience. Inserting next generation firewalls to enforce organizational security policy for the cloud applications adds even further complexity.

Colocations: Traditional approach of leveraging physical colocations lacks cloud networking capabilities beyond AWS Direct Connect, limits geographical reach, results in long provisioning times and carries high upfront costs.

Do-it-yourself Cloud Networking: SD-WAN and cloud-specific solutions are challenged by the insufficient cloud networking expertise, limited enterprise-grade capabilities and a lack of a uniform operating model between cloud and on-premise networking environments.
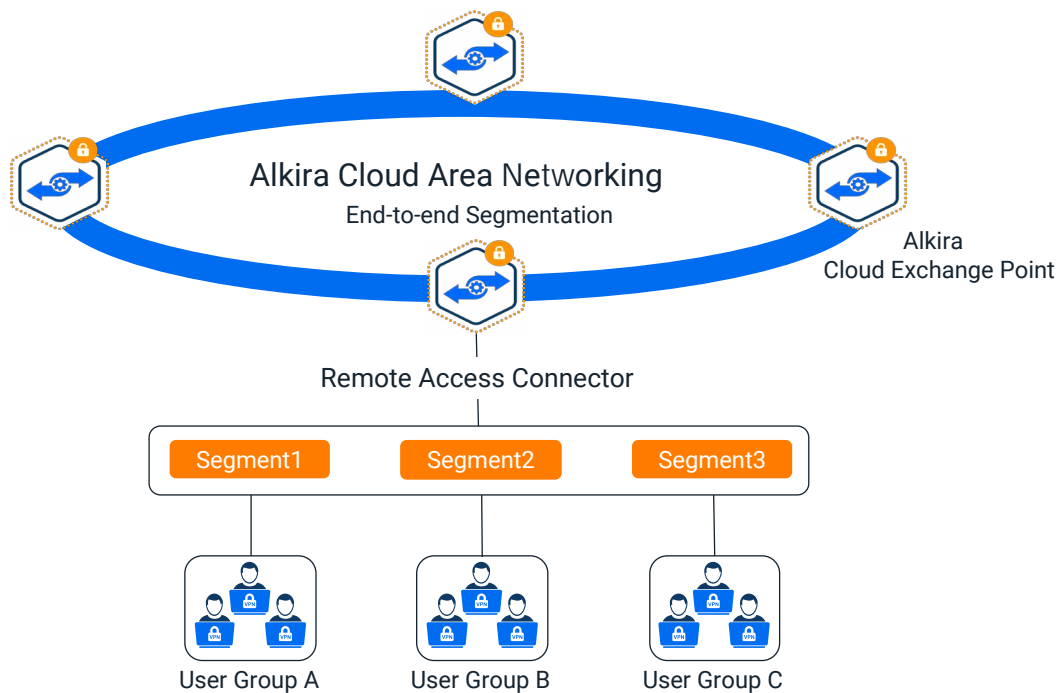
Cloud Orchestration tools: This incremental approach forces enterprises to learn both the cloud-specific networking and security constructs, as well as the operation of the orchestration tool itself.

An innovative solution is needed to address the challenges around networking and security for the cloud.

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Solution

Alkira Cloud Area Networking is industry's first solution offering global unified network infrastructure as-a-service for the enterprise networking and security needs. It comprises of the following main solution elements:

- Global high speed low latency unified backbone built upon an underlying hyperscale cloud infrastructure

- Globally distributed Alkira Cloud Exchange Points (virtual points-of-presence) with full enterprise-grade networking capabilities

- Diverse set of on-premises and cloud connectors for flexible onboarding

- Network services marketplace featuring Alkira and 3rd party network services hosted on Alkira virtual infrastructure

- Portal with intuitive graphical user interface for provisioning, management and operational needs.

Alkira Cloud Area Networking
End-to-end Segmentation

Alkira Cloud Exchange Point

Remote Access Connector

| Segment1 | Segment2 | Segment3 |

User Group A

User Group B

User Group C

With Alkira Cloud Area Networking, enterprises can have a consistent,feature-rich and significantly simplified experience of achieving the following for the AWS cloud environments:

- Deploy global any-to-any enterprise-grade network connectivity across remote users, on-premises locations, and AWS workloads residing in single or multiple global regions

- Integrate cloud firewall security services for the AWS workloads with intent-based policies, symmetric traffic steering and full life-cycle management

- Gain full day-2 operational visibility, advanced routing controls, and governance for the AWS cloud network

Alkira's Cloud Area Networking approach unlocks the digital transformation solving most acute enterprise challenges around networking and security for the AWS environments. Enterprises can now confidently transition applications from on-premises data centers into AWS and further increase cloud adoption.

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Benefits

⚡ Fast Cloud Networking Time to Service

Alkira slashes complexity and time to service with Cloud Area Networking approach. No hardware to procure and install, no software to download and configure, no cloud networking architecture to learn. The entire cloud network connecting remote users, on-premises sites and AWS VPCs is drawn on an intuitive design canvas, provisioned in a single click and is ready for use in minutes instead of months!

🛡 Cloud Firewall Security for AWS Workloads

Easily provision globally distributed next generation virtual firewalls in the Alkira virtual infrastructure, leverage Alkira intent-based policies to symmetrically steer any on-premises and AWS single or multi-region cloud application traffic of interest to the firewalls and enforce firewall zone-based security policy. Alkira solution performs full lifecycle management for the firewalls, including health, availability and auto-scale.

⇄ End-to-End Cloud Network Segmentation

Segmentation is part of Alkira zero trust network architecture. It effectively restricts communication between the AWS VPCs connected to different network segments. This allows segregating resources and reducing security attack surface for the AWS workloads. Intra-segment communication can be further subdivided into micro-segments with firewall service insertion in between. Inter-segment communication can be allowed for shared application services use cases, like M&As, partners connectivity and IT as-a-service

👁️ Deep Cloud Network Visibility

Alkira portal offers deep operational visibility into cloud network health, availability, utilization and application traffic flows for the AWS cloud environment. Enterprises can achieve operational excellence without the need to procure and deploy additional management software tools.

🎛️ Elastic Scale and High Availability

Alkira offers redundant multi-gigabit access connectivity options for users, on-premises sites and AWS VPCs. Alkira unified backbone connects single region and multi-region AWS cloud environments with multi-ten gigabit speeds over AWS high speed low latency backbone. Alkira's highly available global virtual infrastructure is backed by SLA guarantees. Network services, such as next generation firewalls, deployed in the Alkira Cloud Exchange Points horizontally auto-scale up and down based on real-time capacity demand.

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How it works

- Register for Alkira service and access the portal

- Select geographical regions for your global cloud network on the map

- Add remote users, on-premise sites and AWS VPCs, while assigning desired network capacity, network segments and billing tags

- Add firewalls and intent-based policies

- Provision everything in 1-click!

Learn More

Check out our blog https://www.alkira.com/blog

Watch our videos https://www.youtube.com/c/alkira

Solution Brief