vmware® | Deloitte.

Securing and Modernizing the Network Layer

Network Complexity and Cost Remain Key Blockers

Modern networks are needed to deliver on the promise of digital transformation, modern apps, and exceptional user experience, but legacy technology and architectures make this near-impossible.

32% of organizations have experienced a lack of connectivity or slow connectivity with edge deployments
Source: IDC

Legacy networks struggle with:

Limited protection against new ransomware and other malware	Complex disparate network stacks that slow deployments	Lack of policy consistency and visibility across multi-cloud
Inconsistent security across apps, data, and network	No optimized access or uniform identity models	Poor performance across clouds and at the edge

Deloitte and VMware can help you:

Modernize Your Network

Network virtualization is no longer a "nice to have". As you pursue multi-cloud excellence, we can help scale an agile network to support transformation while reducing cost and complexity.

Protect Internal Traffic

With the perimeter giving way to cloud, edge, and endpoints, traditional firewall protection isn't enough. We can help you deploy policy-driven "east-west" traffic protection at scale with virtual distributed firewalls.

Achieve Multi-Cloud Transparency

As apps become distributed across multiple clouds, a secure, high-performing network plus visibility and control are essential. Our expertise and service mesh technology make this possible.

Ensure App Performance

Maintain network performance as applications move to the cloud and establish a best-practice approach to observability—the new frontier to ensuring application performance across services and clouds.

Deloitte Services for Modernized Networks with Deloitte VMware Network Security Optimizer

Advise

- Consultative approach to network modernization and performance challenges across clouds

Implement

- Multi-cloud mTLS implementations, global policy federation
- Virtualized networking
- Micro-segmentation deployments

Operate

- Integration with cloud management platforms
- Ongoing performance improvements

Reimagine Your Network to Be in Service of the Application

You may have a "cloud-first strategy", but what should really drive your priorities is an "application-first strategy", where success is measured by application performance and end user experience. A reimagined network makes this possible, no matter where your applications are running, or where your users are connecting from.
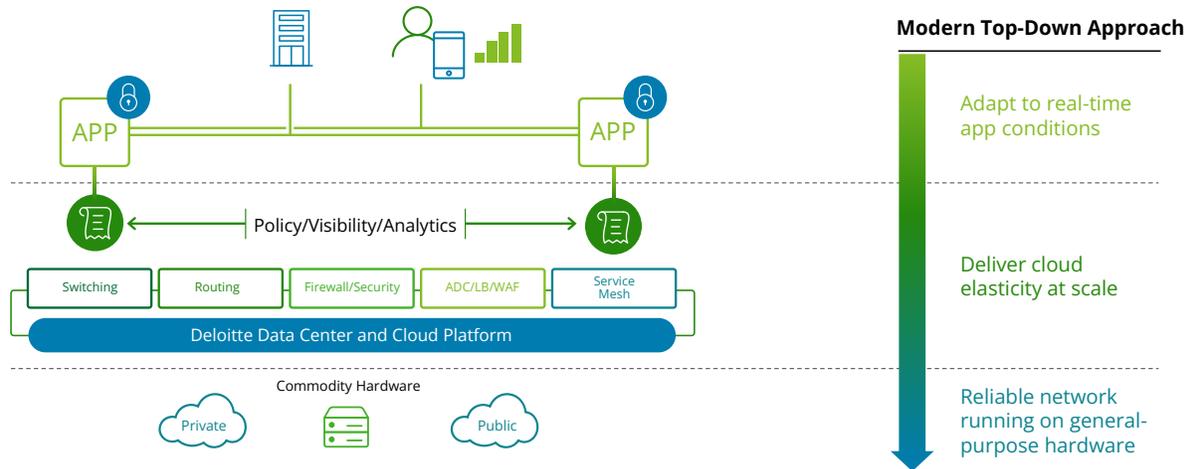
A Common Platform

Shared Operations Across Clouds

Consistent Security

Optimized Access with Uniform Identity

Modern Top-Down Approach

Adapt to real-time app conditions

Deliver cloud elasticity at scale

Reliable network running on general-purpose hardware

Policy/Visibility/Analytics

Switching | Routing | Firewall/Security | ADC/LB/WAF | Service Mesh

Deloitte Data Center and Cloud Platform
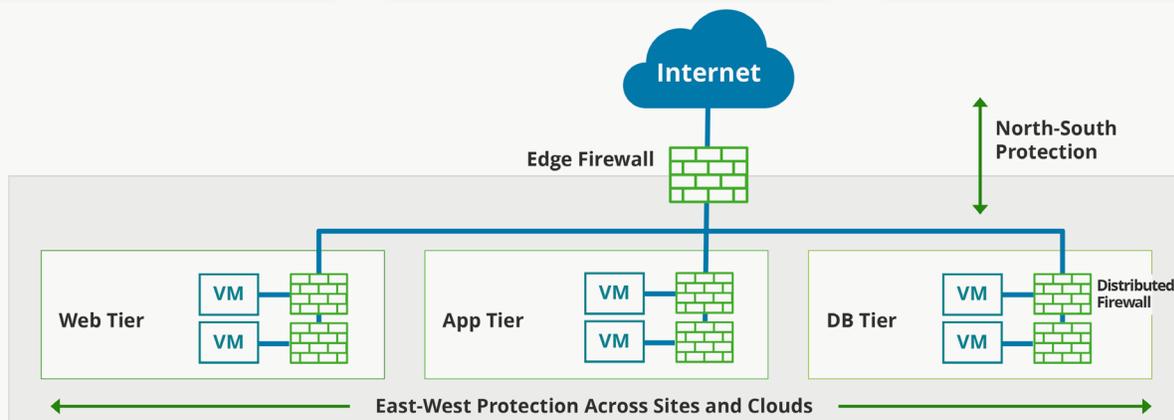
Commodity Hardware

Private — Public

Micro-Segmentation Protects East-West Traffic

Once behind your edge firewall, cyber attackers can navigate from system to system undetected until they find a vulnerability to exploit. This lurking can go on for months. Distributed virtual firewalls, enabled by micro-segmentation, provide an agile, scalable way to protect lateral traffic. Deloitte and VMware can help you deploy micro-segmentation in short order without complexity or displacing existing virtual network solutions.

Enable network security controls

Achieve better data visibility and protection

Stop lateral spread of threats

Internet

Edge Firewall

North-South Protection

Web Tier | App Tier | DB Tier

VM | VM

Distributed Firewall

East-West Protection Across Sites and Clouds

Sources: IDC White Paper, "Succeeding at Connected Operations with Edge Computing," sponsored by Schneider Electric, April 2022

To learn more, visit our website.