Hybrid multi-cloud networking that delivers a better application experience

Hybrid multi-cloud networking solutions from Citrix deliver connectivity, performance, security, and management for all applications, on-premises and on Google Cloud Platform.
Application performance and delivery have changed. Should your network change too?

Cloud is changing the fundamentals of how IT teams deliver applications and manage their performance. Applications are increasingly deployed farther from users, crossing networks outside of IT’s direct control. Instead of enterprise data centers, many apps now reside in public and hybrid cloud environments. There are even new breeds of applications, built upon microservices and containers.

Today, IT needs modern solutions that:

- Extend on-premises networks, apps, and infrastructure resources to the cloud.
- Maintain high levels of performance, user experience, and security across all applications, including microservices based apps.
- Sustain operational consistency across on-premises and cloud environments.
- Move away from the expense, complexity, and poor performance of traditional networking methods.

These solutions are available for apps running on Google Cloud Platform (GCP) through the alliance of Citrix and Google Cloud.

“We can help customers with their cloud transformations by enabling them to access and run the apps their businesses depend on anywhere—simply, flexibly and securely.”

- Rob Enslin
  President Global Customer Operations, Google Cloud

- 90 percent of business innovation will depend on public cloud services by 2022
- 124 SaaS applications on average are in use in an enterprise
- 92 percent of reported vulnerabilities are in applications, not networks

1Citrix ADC for Hybrid Multi Cloud - Customer Overview Presentation
Modern networking for all applications

To serve IT’s changing needs, Citrix offers three modern networking solutions for Google Cloud: Citrix Application Delivery Controllers (ADC), Citrix Application Delivery Management (ADM), and Citrix SD-WAN. Together, these solutions optimize application delivery in a hybrid multi-cloud environment.

In remote sites, Citrix Networking solutions improve network connectivity and application access with high-performance over Google Cloud. Users enjoy a better experience with simple access and high-quality application performance optimization. For the IT team, the Citrix solutions offer centralized visibility and consistent management for application delivery, both from on-premises servers and as cloud workloads.

Citrix Networking solutions provide:

- Highly available and secure branch office connectivity in GCP Virtual Private Clouds.
- Priority for critical application traffic with dual-ended quality of service (QoS) and last-mile awareness.
- Selective packet replication over multiple links to maintain high performance for audio and other critical traffic.
- Sub-second link failover that helps to sustain network resiliency.
- Traffic management and load balancing for microservices as well as web apps that use a 3-tier architecture.

Citrix ADC: Flexible, scalable application delivery and load balancing

Citrix ADC drives a high-quality user experience for web and container-based applications by managing application delivery and load balancing, regardless of where the application layers are hosted.

Citrix ADC also simplifies networking management tasks for IT. To quickly deploy production-ready apps, Citrix ADC integrates with multiple cloud-native platforms, cloud-managed Kubernetes, and Cloud Native Computing Foundation (CNCF) open source tools. Additionally, the unique Citrix pooled licensing method allows IT to better utilize capacity and easily move application workloads among cloud deployments. Citrix ADC is available as a virtual appliance (Citrix ADC VPX) or a containerized app.
Citrix offers architecture choices for cloud-native novices and experts alike, helping IT teams transition to cloud-native apps at their own pace. Cloud-native novices can start with a simple ingress architecture, achieving the quickest route to production for both the platform and network teams. Cloud-native experts can choose the service mesh architecture to take advantage of advanced traffic steering, inter-container security, advanced resiliency, deeper observability, and analytics.

Integrated Layer 3 to Layer 7 security in Citrix ADC protects both traditional and cloud-native applications. Features like a web application firewall, distributed denial of service (DDoS) protection, support for transport-layer security (TLS) and secure sockets layer (SSL), content inspection, and rate limiting ensure applications and APIs stay safe and secure.

**Citrix ADM: A single platform for managing apps delivery anywhere**

Citrix Application Delivery Management is a centralized network management, orchestration, and analytics solution that offers a single pane of glass to manage Citrix ADC deployments across hybrid, multi-cloud environments for traditional and microservice-based applications.

The Citrix Application Delivery Management service graph helps in visualizing microservice maps while providing insights about throughput, saturation, errors, and latency for each microservice. The intuitive user interface shows a health score for each microservice and detects anomalies to proactively identify potential problems.
Citrix SD-WAN: An efficient on-ramp to GCP

The Citrix SD-WAN solution provides the best possible user experience for all applications, including G-Suite, on Google Cloud. For example, when delivering Citrix Virtual Apps and Desktops, this solution integrates with Citrix high-definition experience (HDX™) technology and the Independent Computing Architecture (ICA™) protocol to enable crystal clear voice, multimedia, and video.

Deployed as a virtual appliance, Citrix SD-WAN enables exceptional application performance with features such as deep packet inspection, QoS, and link bonding. The solution helps IT quickly provision high-availability connections to a GCP Virtual Private Cloud and manage the entire network from the Citrix orchestration service.

Developed by the Citrix and Google Cloud Alliance

Citrix and Google Cloud have benefited from a deep, integrated engineering partnership since 2011. The alliance offers solutions that combine a secure digital workspace, application delivery and networking, productivity apps, and cloud-ready devices—all optimized to work on Google Cloud Platform. Citrix solutions for Google Cloud help companies achieve today the future of experience-driven application performance and delivery in a hybrid multi-cloud environment.

“In delivering Citrix Workspace and Networking solutions for Google Cloud, we are enabling our customers to accelerate their digital transformations and deliver a simple, intuitive experience for their users.”

– David Henshall
President and CEO,
Citrix

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https://www.citrix.com/networking
https://www.citrix.com/google
Citrix networking solutions are available on the Google Cloud Platform Marketplace