Deliver secure, high-performance, and scalable workspaces with Citrix and Google Cloud

Citrix Workspace on Google Cloud Platform

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Flexible Cloud Deployment

Citrix and Google are collaborating to bring the best, most secure way to deliver virtual apps and desktops from Google Cloud. The Citrix Workspace solutions traditionally installed on data center servers—including Citrix Virtual Apps and Desktops, Citrix Networking, and Citrix Content Collaboration (formerly known as Citrix ShareFile)—are now enabled on Google Cloud Platform services.

Citrix enables customers to choose the workload, networking, and security deployment options that best align with their enterprise cloud strategy and offers a variety of ways to securely deploy Citrix solutions to meet unique application needs. Whether deployed on-premises, cloud-hosted, as a Citrix Workspace service, or with a service provider—customers choose how much and which components of app workloads to manage and when and where to securely deploy business apps, data, and desktops.
Secure Application Delivery and Management

Whether an organization is just beginning to adopt the cloud or has already achieved a cloud-first approach, Citrix serves any stage of the cloud journey. Deploying Citrix Workspace on Google Cloud Platform provides agility for provisioning applications and desktops, giving IT departments the flexibility of delivering enterprise-class, secure virtual apps and desktop access. This flexibility is enhanced by the benefits of cloud elasticity for infrastructure resources.

Components of the joint solution include:

**Citrix Virtual Apps**
The industry-leading solution for virtual application delivery, Citrix Virtual Apps provides secure Windows, web, and SaaS apps to workers on any device, anywhere. Centralizing control with Citrix enables the freedom of mobility while increasing security and shifting IT costs from CapEx to OpEx.

**Citrix Virtual Desktops**
The industry-leading solution for virtual desktop delivery, Citrix Virtual Desktops enables secure, remote access to Windows desktops from any device, over any network.

**Citrix ADC**
When moving workloads to the cloud, organizations must consider availability and failover options. While cloud-native load balancers provide a level of workload redundancy, they fall short of addressing the full spectrum of IT and developer requirements.

Offering enterprise-grade application load-balancing, advanced security, and micro-services integration, Citrix Application Delivery Controller (ADC) instances on GCP help the Google developer community utilize containers and the Kubernetes orchestration system to easily build, deliver, and scale secure cloud applications.

Citrix ADC provides workloads running in Google Cloud with:
- **Authentication and access controls**, including multi-factor authentication, SSL VPN, ICA and RDP proxies.
- **Application acceleration**, including content switching, caching, compression, SSL offload, and URL rewriting.
- **Comprehensive security**, including DDoS protection, Web Application Firewall, and security analytics.
- **Enterprise-grade workload availability**, including Layer 4-7 load balancing and global server load balancing.
**Google Cloud Platform**

Google Cloud Platform (GCP) enables IT to expand and contract computing resources on-demand and provision the exact resources required for enterprise workloads. This elasticity simplifies infrastructure management and reduces costs because customers pay exactly for what they use.

GCP runs on the best-in-class Google Cloud infrastructure, which is engineered to handle the most data and computation intensive workloads on the planet. This infrastructure gives customers the flexibility to scale quickly while still maintaining administrative control. GCP also frees customers from the overhead of managing infrastructure, provisioning servers, and configuring networks in order to focus on the business.

Google’s infrastructure is designed, built, and operated with security at its core. Google protects customer data and intellectual property by monitoring data health, detecting anomalous behaviors, and proactively preventing security incidents by utilizing machine intelligence. The Google infrastructure regularly receives independent verification of security, privacy, and compliance controls to ensure ongoing compliance with stringent global standards for data protection.
Enhanced security for Google SaaS offerings with Citrix Access Control

A new cloud service, Citrix Access Control, provides single sign-on as well as additional security and controls for Google apps. By using this Citrix service, IT can control the actions users may take while accessing documents on Google Drive such as watermarking, clipboard access, and printing. Citrix Access Control also provides security for Gmail by blocking user access to phishing and malicious links embedded in email messages.

User behavior insight with Citrix Analytics

With Citrix Analytics, customers gain visibility into user actions on Google apps such as Google Drive. The service detects user anomalies including unusual data downloads and accessing data at unusual times. Citrix Analytics can take autonomous preventative actions such as blocking user access to applications. User actions on unsanctioned SaaS applications (e.g. Dropbox) and unusual data uploads can be monitored and proactively controlled, which helps maintain the compliance and security of company-confidential information.

Why Customers Run Citrix Workloads on Google Cloud

• Enable smooth transition from on-premises to GCP deployments
• Deliver best-in-class user experience with Citrix HDX capabilities across Google’s private global network
• Provide secure, ubiquitous access from any device with Citrix Workspace App
• Use Citrix ADC for delivering secure, high-performance, and globally available access to cloud apps
• Take advantage of Google Cloud’s purpose-built infrastructure
• Benefit from the multiyear technical, product, and go-to-market collaboration of Google and Citrix
Key Benefits of Citrix Services and Google Cloud Platform

Deploying Citrix Workspace services on GCP provides agility in provisioning applications and desktops. In combination with the GCP Infrastructure as a Service (IaaS) architecture, enterprises can use Citrix Workspace to supplement the resources of existing on-premises data centers. This agility helps IT easily and seamlessly satisfy sudden workload demands and support business needs such as rapid geographic expansion.

Other key benefits of Citrix running on GCP include:

**Capacity on Demand**

- Efficiently scale up and down applications and environments, especially during busy seasons
- Host virtual apps on GCP to reduce capital expense and scale as needed
- Dramatically simplify IT management across on-premises systems and the cloud by providing a hybrid cloud solution
- Allow organizations to connect to their environments from anywhere, with the same “look and feel” experience for all employees

**Improved Security**

- Protect company-confidential information stored in Google Drive with features such as watermarking, controlled clipboard access for users, and controlled printing
- Protect users from inadvertently clicking on malicious links embedded in emails
- Help achieve compliance by restricting user traffic from going out to blacklisted and malicious websites
- Provide automatic enforcement of security policies based on user behavior and machine learning
**Cost-Efficient Cloud Option**

- Enable customers to leverage and deploy on current and familiar infrastructure for quick and simple deployments, reduced capital expenses, and optimized investments
- Expand cloud resources at the pace of business growth without the cost of additional infrastructure
- Manage costs through custom virtual machine (VM) sizing and resource sizing recommendations from the platform to pay only for what is used, when it is used, with zero waste.

**Pre-production Validation**

- Leverage flexibility of GCP to move to the cloud at the customer’s own pace
- Quickly set up new OS workloads to introduce users to new systems and increase adoption
- Secure and optimize application access in Docker containers

**Top Use Cases for Citrix Workspace on Google Cloud Platform—Enterprise Customers**

- Use the cloud to increase capacity on-demand during peak usage periods
- Reduce or eliminate on-premises infrastructure to avoid the large capital expense associated with new build outs
- Hybrid scenarios that allow customers to link premises-based environments to virtual deployments based on GCP
- Business continuity during any business disruptions caused by unforeseen events
- Leverage an existing GCP account to rapidly deploy Citrix Virtual App workloads
- Deploy a temporary environment to test new or updated applications prior to production rollout
- Use Citrix ADC and Citrix Gateway to improve performance and access to SharePoint and other Microsoft apps
- Deploy Citrix ADC to manage reliable, highly-available secure authentication, access, and delivery of any GCP deployed application
Why Citrix and Google?

Enterprises are increasingly looking to public and hybrid clouds to address competitive demands and to solve business challenges. Working together, Citrix and Google are bringing cloud delivery of applications and desktops and secure, cloud-optimized endpoints to enterprise customers.

Learn More

www.citrix.com/google

Deployment Guide: Citrix XenApp and XenDesktop on Google Cloud Platform

Blog: Citrix Access Control for Google G-Suite

Blog: Citrix ADC VPX for Google Cloud Platform apps

Deployment Automation Scripts

About Citrix:

Citrix (NASDAQ:CTXS) aims to power a world where people, organizations and things are securely connected and accessible to make the extraordinary possible. We help customers reimagine the future of work by providing the most comprehensive secure digital workspace that unifies the apps, data and services people need to be productive, and simplifies IT’s ability to adopt and manage complex cloud environments. With 2017 annual revenue of $2.82 billion, Citrix solutions are in use by more than 400,000 organizations including 99 percent of the Fortune 100 and 98 percent of the Fortune 500.

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