



# Cisco Hybrid Cloud Platform for Google Cloud

## Application innovation on your own terms

What if you could combine the benefits of the public cloud and your IT environment? **Meet the next generation of hybrid cloud.**

You want to take advantage of all the new innovations in application development and delivery, from public cloud to containers and microservices, to make the most of your applications.

But until now that's meant having to choose between development on-premises or in the public cloud – having to compromise with monolithic “stacks” or being challenged to “glue” different parts together. It also meant more complexity, with more siloed environments, technologies, teams, and vendors that won't always work well together. The result has been cost, risk, and lack of freedom.

Cisco® Hybrid Cloud Platform for Google Cloud brings together networking, security, management, data center, open-source and API software and tools to a consistent and secure environment across on-premises data centers and the Google Cloud. Access Google's public cloud services easily with one optimized solution, supported across all components by Cisco, so you can develop and deploy applications anywhere.

### Benefits

- **Drive application innovation and agility** with access to the best tools, technologies, and platforms
- **Increase cost-efficiency** by extending your existing on-premises investments into Google Cloud **without replatforming your traditional applications**
- **Develop and deploy anywhere** across a hybrid environment with proactive security and one unified encrypted network
- **Reduce risk and complexity** with an optimized solution supported across all of its components by Cisco and customizable to your needs

## Components

The Cisco solution can be customized to your needs with optional hardware, suitable for both customers with or without existing on-premises infrastructure. It offers:

- **Optimized management, networking and security for Google Cloud:** Cisco CloudCenter™\*, Cisco CSR 1000V\* Cisco Stealthwatch® Cloud, and Google Cloud services
- **Integrated API management and discovery services between on-premises and public cloud applications,** with Google Apigee, Istio and Open Service Broker
- **On-premises integrated hardware with a turnkey, 100-percent upstream Kubernetes environment,** with Cisco HyperFlex™, Cisco ACI™, Cisco Container Platform\*, Contiv, and Kubernetes Service Catalog

\*indicates mandatory components

**Cisco software components will be licensed on an annual subscription basis including 1-, 3-, and 5-year terms. Infrastructure components will be sold on a perpetual basis. For Google Cloud services, customers will be billed directly through Google or through authorized Google resellers.**

## More clouds. More complexity.

We live in a multicloud world, where the use of public cloud is the new normal. IDC ([Adopting Multicloud – A Fact-Based Blueprint for Reducing Enterprise Business Risks, IDC 2018.](#)) predicts that 93 percent of organizations are using services from multiple cloud providers – 15 percent of them from more than ten.

At the same time, the evolution of on-premises IT environments, teams, and methodologies is driving, more than ever before, the adoption of public cloud and the need to access to the best tools, technologies, and platforms to give businesses speed and scale.

But change isn't always easy. You are often forced to choose between your existing IT environment and public cloud.

This can mean:

- Access to only a specific set of tools and technologies, limiting your teams from being able to develop and deploy where they need to
- OR
- Leaving behind your existing on-premises infrastructure and applications in favor of public cloud, raising concerns about security, management, control, and compliance.

Until now, the conventional approach has meant buying “all-or-nothing” stacks or gluing together different parts from different vendors to build a truly open hybrid environment.

And that can be complicated.

## Key capabilities

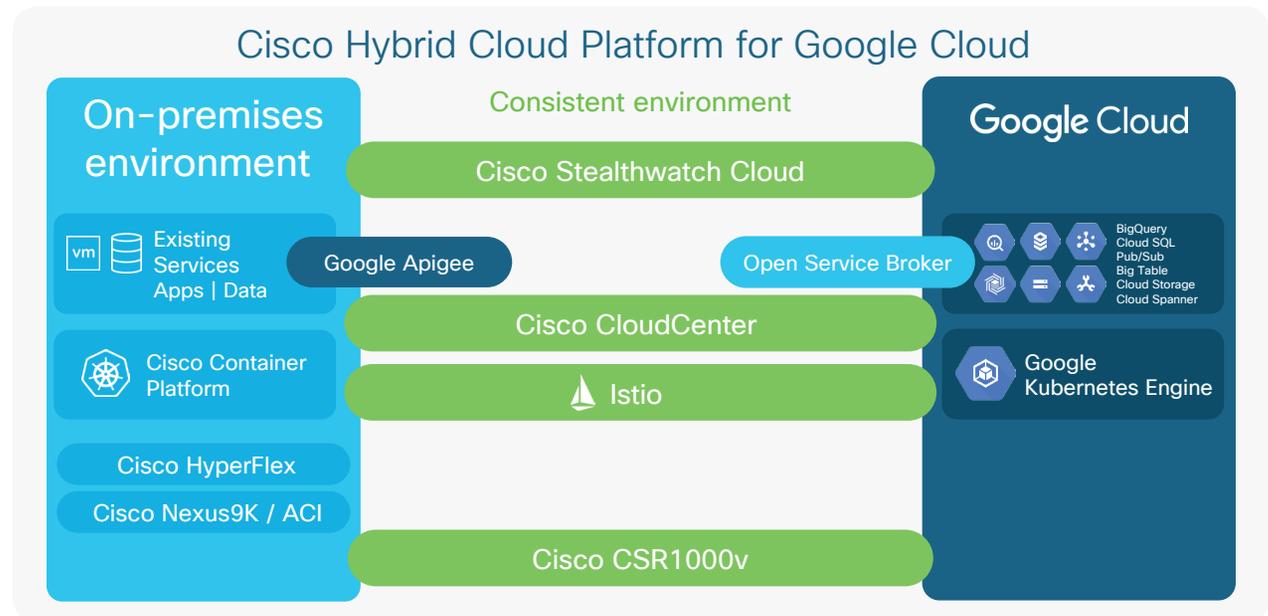
The Cisco Hybrid Cloud Platform for Google Cloud leverages Cisco's VPN service to create a unified and secure network that includes your data center and the public cloud. Stealthwatch Cloud takes care of proactive security and threat detection by integrating with Google's VPC Flow Logs and your on-premises environment so you can manage access of users, devices, and workloads with policy enforcement. This way you can ensure your developers only focus on building applications while you don't have to worry about security or compliance.

Cisco CloudCenter with Open Service Broker and Istio enables secure provisioning of micro-services across both on-premises and Google Cloud, including integration with a local Kubernetes Service Catalog. This means you can easily access any Google Cloud service, including containers in Google's Kubernetes Engine mapped to your infrastructure, with the container platform taking care of cluster management on your side. In addition, with Cisco Application Centric Infrastructure (ACI) and Contiv, you can easily enforce networking policies that move across clouds with your containerized applications, so networking becomes easier to manage and monitor.

## Use cases

- 1. Develop modern applications in Google Cloud that consume data from your existing on-premises applications** without having to re-platform. With Google Apigee you can create RESTful APIs to expose data from traditional applications to the public cloud.
- 2. Modernize your existing on-premises applications with direct and easy access to Google Cloud services** such as container pods in Google Kubernetes Engine, machine-learning, artificial intelligence, and mobile and security tools, all accessed from a local Kubernetes Service Catalog.
- 3. Establish a consistent hybrid Continuous Integration / Continuous Delivery (CI/CD) workflow** for containerized applications across on-premises and Google Cloud. Use a single common platform to automate testing, deploying, and moving applications.

One of the key innovations of Cisco Hybrid Cloud Platform for Google Cloud is being able to expose your on-premises traditional applications and data to the public cloud. With Google Apigee, you can create, manage and secure RESTful APIs to connect existing systems to new public cloud services without having to re-platform them. The result? Making better use of your existing investments and allowing you to move to the cloud at your own pace.



## Services

New Cisco Quick Start Services and Custom Services are available for Cisco Hybrid Cloud Platform for Google Cloud.

Cisco Quick Start Services include setup and configuration of Cisco CloudCenter (on-premises and Google Cloud), Stealthwatch Cloud, VPN, HyperFlex, Cisco Container Platform, and demonstration of deployment for 2 jointly-selected applications.

In addition, based on your selected use case (see above on “use cases”), Quick Start Services will cover:

- Apigee setup and configuration (see use case 1)
- Open Service Broker and Google Catalog Service configuration (see use case 2)

## Call to action

To learn more about Cisco Hybrid Cloud Platform for Google Cloud, visit [www.cisco.com/go/hybridcloudforgoogle](http://www.cisco.com/go/hybridcloudforgoogle)

- GitLab setup and configuration, Artifactory setup and configuration, Jenkins CloudCenter plugin add and configuration (see use case 3)

With Cisco Custom Services, you can access a lifecycle of services from Cisco Cloud Advisory, Implementation and Business Critical Services to Solution Support, Managed Services and Learning, along with selected use cases that can help you accelerate application development, deployment and portability between any public and private cloud environment.

Cisco also offers Strategy and Assessment Services that can help you assess your current application landscape, and develop a plan to modernize or migrate traditional applications.

## Cisco Capital

Cisco Capital® delivers customer-centric, partner-enabled payment options for Cisco-led solutions. As the captive finance business within Cisco, Cisco Capital delivers a broad scope of flexible capabilities globally while successfully bridging the gap between the demands of emerging market dynamics and customer's financial requirements. Cisco Capital makes it easier to get the right technology to enable business transformation and maximizes the value of technology by reducing the total cost of ownership, managing cash flow, and conserving capital. In addition, value can be realized by purchasing Cisco Refresh as a trusted alternative when new or all-new isn't an option. [www.cisco.com/go/financing](http://www.cisco.com/go/financing)

## The Cisco Advantage

At Cisco, we believe that cloud doesn't have to be complicated, and that organizations should have the freedom to use any cloud the way they want to. We are dedicated to working with public cloud providers and a global ecosystem of more than 60,000 partners, 1 million network engineers, and 500,000 DevNet developers. Our industry-leading expertise in enterprise IT, including networking, security, management, analytics, and hyperconverged infrastructure uniquely positions us to deliver solutions enabling our customers in a multicloud world.

