CISCO

Transform Your Business with Hybrid Cloud

Cisco gives you greater choice and cost savings, so you can transform IT operations in a way that works best for your organization. We offer an open framework for self-service automation, along with an incremental way to transition to hybrid cloud. Orchestration and cost analysis allow you to choose where to deploy services on premises, at the edge, or in the public cloud. You can quickly deliver secure infrastructure and application services across multicloud environments. Efficient workload placement and optimization enable more flexible and cost-effective operations.

Benefits of Cisco's Hybrid Cloud

- Offers an open, modular means of deploying and optimizing hybrid cloud environments.
- Deploy workloads efficiently and cost-effectively across private and public clouds.
- Accelerate time-to-market for new applications and services.
- Increase user productivity and efficiency with a centralized self-service portal.
- Provide infrastructure and application services that meet your business's governance and use policies.

Evolve and transform

IT organizations are faced with rapid and far-reaching changes. Line-of-Business (LoB) and application developers are placing greater pressure on IT to deliver a self-service user experience and provide developers with freedom of choice to deploy applications. Your organization needs to transition to an as-a-service" model, in which applications and services are defined, offered, and orchestrated. Cisco ONE™ Enterprise Cloud Suite helps you evolve while helping you reduce total cost of ownership.

A multicloud strategy has become the practical option for deploying enterprise workloads as well as new applications. The simplest path to hybrid cloud is through a modular approach with integrated software that provides the foundation for both private and public cloud environments.

Open and cost-effective

To achieve speed and agility, you need heterogeneous infrastructure automation. Enterprise Cloud Suite provides you with open, modular approach across virtualized and bare-metal environments. It supports Cisco and industry-leading third-party hardware vendors as well as more than 20 public cloud platforms.

The tools included in this suite provide the automation you need to deliver a self-service experience for all users and freedom of choice for application teams. A modular approach allows you to deploy only the automation you need to deliver immediate ROI to your business and then expand as your needs expand. The four Enterprise Cloud Suite offers provide you a flexible, cost-effective means of implementing multicloud.

Flexible ways to buy and implement

Cisco ONE Enterprise Cloud Suite is a member of the Cisco ONE Software Family, which delivers purchasing flexibility for data center, WAN, and access software solutions. The suite is a part of the Cisco ONE for Data Center solution and consists of four offers. You can use each offer individually, or all of the components together to create an integrated hybrid cloud solution. These offers provide you with a flexible and incremental approach to multicloud.

- **Infrastructure Automation:** This on-premises private cloud offer delivers all-inclusive provisioning and management of physical and virtual resources across computing, networking, and storage layers. The Infrastructure Automation offer allows you to automate the provisioning and configuration of infrastructure resources in the data center, in remote office branch-office locations, or in edge computing environments.

Automation streamlines daily activities

"We can deploy a virtual data center for a tenant in 20 minutes by automating 56 manual tasks."

– Velibor Kokanovic
Director of IT Operations,
Telekom Srbija

It provides the foundation for Infrastructure as a Service (IaaS) that replaces manual processes, with automated workflows delivering consistent and secure infrastructure instances within minutes. This offer simplifies the delivery of complex processes such as:

- Setup and resource assignment for bare-metal and virtualized environments
- Configuration and deployment of numerous security and isolation models designed for specific applications
- Day-0 setup and day-1 definition and deployment of resources across converged and hyperconverged infrastructure
- Built-in governance and use policies that define security and isolation models and access entitlements across the organization

Figure 1. Overview of the Enterprise Cloud Suite offers
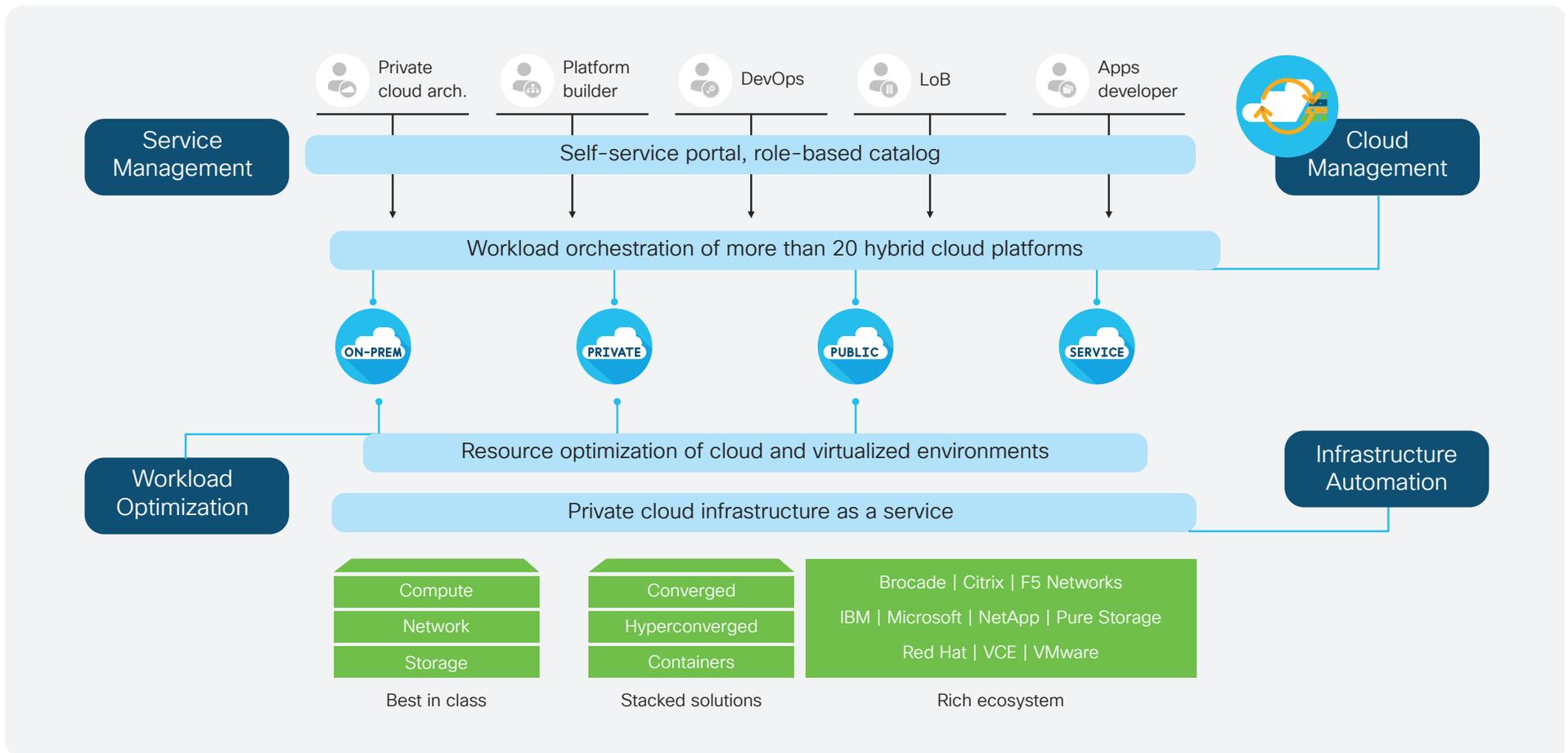
- Cloud Management: This offer enables the modeling, provisioning, and deployment of applications and supporting infrastructure resources into on-premises, edge, private, and public cloud environments. It abstracts the application from the underlying cloud environment by creating a blueprint that works in more than 20 data center and cloud environments. The blueprint includes OS, containers, and the application, plus Platform-as-a-Service (PaaS) services. It thereby helps ensure that infrastructure is set up and deployed to meet the specific needs of the application.

  Before deploying an application profile, a developer can use the built-in benchmark tool to perform real-time comparisons of multiple cloud platforms based on performance and cost factors. This analysis is not a simulation but a native deployment of the application simultaneously into each platform, where it is monitored for performance and cost efficiency. The result is an easy-to-read comparison of each selected cloud platform, helping ensure that the developer gets the best performance with the greatest cost efficiency for the organization.

- Workload Optimization: Continuously assuring application performance while minimizing costs is critical. This offer features a real-time decision engine that continuously analyzes workload consumption, costs, and compliance constraints and automatically allocates data center and cloud infrastructure resources in real time.

  The Workload Optimization Management software is easy to install, and it uses agentless technology. It instantly begins to detect all the elements in your environment from applications to individual infrastructure components. In less than 1 hour after deployment it will deliver a global topological mapping that also shows the interdependent relationships within the environment. This automation tool provides specific real-time actions that help ensure workloads get the resources they need when they need them for placement, scaling, and capacity. You can automate the private cloud Infrastructure as a Service (IaaS) decisions the software makes according to your level of comfort: recommend (view only), manual (select and apply), or automated (executed in real time by software).

- Service Management: As more and more applications are moved to the cloud, the number of self-service portals increases, resulting in portal sprawl. Studies indicate that replacing portal sprawl with a consolidated, unified approach in your organization can significantly increase end-user productivity and efficiency. This offer gives you the ultimate self-service user experience by replacing multiple portals with a unified portal that simplifies consumption and lifecycle management.

  Role-based access empowers you to monitor and manage all applications, services, and infrastructure instances under your control. You can also perform lifecycle actions, such as taking a snapshot, cloning a virtual machine, or starting or stopping a service, eliminating the need to issue a trouble ticket for IT to complete these actions.

Efficiently transition to hybrid cloud

Automation is critical to meeting customer expectations for service delivery, increasing IT productivity, and providing freedom of choice. Cisco ONE Enterprise Cloud Suite helps you transform your business while helping you manage hybrid cloud environments efficiently and cost-effectively. Table 1. describes the Enterprise Cloud Suite offers. You can use each component with the other components individually, for example, with the Infrastructure Automation offer or the Cloud Management component, or with all the components installed, for a consolidated portal for multicloud environments.

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> "Now we can build even the largest environments within a day or two, helping customers achieve more agile business."

– Adam Simpson
General Manager of
Cloud Services, Harbour IT

Case study

For additional information, visit www.cisco.com/go/cloudsuite. Then contact your Cisco sales representative or Cisco authorized channel partner.

Table 1. Enterprise Cloud Suite offers

Offer	Description
Infrastructure Automation	• This offer provides private cloud Infrastructure as a Service (IaaS) across Cisco® and third-party servers, storage, network, converged, and hyperconverged infrastructure. • More than 2500 multivendor tasks enable the on-demand access to integrated services across data center stacks. • You can set up and assign resources for physical and bare-metal environments. • Components follow: Cisco Unified Computing System™ (Cisco UCS®) Director, Cisco UCS Central Software, and Cisco Integrated Management Controller (IMC) Supervisor
Cloud Management	• This offer provides application deployment and management across data center, edge, Remote Office and Branch Office (ROBO), and private and public cloud environments. • It allows you to integrate single application profiles into DevOps and offers Continuous Integration and Continuous Deployment (CI/CD) solutions. • It provides optimized capacity augmentation for on-premises, edge, and multicloud resources. • Components follow: Cisco CloudCenter™ Manager, Cisco CloudCenter Orchestrators, and Cisco CloudCenter virtual machines.
Workload Optimization	• This offer enables the right-sizing and optimized placement of workloads for on-premises and public-cloud deployments. • It continuously assures workload performance while minimizing cost. • Component follows: Cisco Workload Optimization Manager
Service Management	• This offer provides a consolidated self-service portal and catalog for data center and business services. • It offers a user-centric portal for Cisco ONE Enterprise Cloud Suite components (for example, IaaS or cloud management). • It helps ensure compliance through policy, role, and lifecycle management. • Components follow: Cisco Prime® Service Catalog and Cisco Process Orchestrator