

VMWARE VCLLOUD DIRECTOR

The Leading Cloud Management Platform for Cloud Providers

Q. What is vCloud Director?

A. VMware vCloud Director is a cloud management platform that helps Cloud Providers deliver differentiated cloud services on their VMware Cloud Infrastructure. It provides enterprises a self-service VMware cloud experience from one of VMware's Cloud Provider Partners.

Q. What are the core capabilities of vCloud Director?

A. vCloud Director facilitates:

- **Multi-tenant resource pooling:** easily create virtual datacenters from common infrastructure to cater to heterogeneous enterprise needs. Policy-driven approach ensures enterprises have isolated virtual resources, independent role-based authentication and fine-grained access control.
- **Multi-site management:** stretch data centers across sites and geographies and monitor resources across sites from a single pane of glass.
- **3rd-party ISV services:** vCloud Director has an extensible UI that can be leveraged by 3rd parties and Cloud Providers to natively integrate and publish services on the vCloud Director UI. For example, Dell EMC Avamar has natively integrated their Data Protection capabilities right onto the vCD UI.
- **Datacenter Extension and Cloud Migration:** enable simple, secure VM migration and data center extension with vCloud Director Extender. Allows for true hybridity, enterprise-driven workflows, seamless connectivity and cold or warm migration options.
- **Operational visibility and insights:** refreshed dashboard for centralized multi-tenant cloud management views. Leverage vRealize Operations's native integration with vCloud Director using advanced analytics, chargeback and more for deep visibility into enterprise environments.
- **Containers-as-a-Service:** vCloud Director provides an easy on-ramp for enterprises, by delivering containers and VMs in the same virtual datacenter and faster time-to-consumption for Kubernetes, using the Container Services Extension.
- **Chargeback:** provides visibility into virtual machine costs and chargeback accountability for self-service. Cost transparency and accountability to understand actual cost of virtual infrastructure required to support business services.
- **Data protection and availability:** natively integrated with vCloud Director, vCloud Availability makes it easy for cloud providers to run data protection offerings compatible with enterprise environments. Extend multi-tenant self-service data protection by integrating Avamar into your vCloud Director instance.
- **Workflow automation:** vRealize Orchestrator natively integrates into vCloud Director, enabling cloud providers to automate complex workflows and deploy a variety of services such as ticketing, service queries and more, all while maintaining access control and visibility to the enterprise and cloud provider.

Q. Why would a Cloud Provider want VMware vCloud Director?

A. vCloud Director offers the following benefits:

- With multi-tenancy and automation built for the Cloud Provider, vCloud Director provides efficient and optimized cloud environments through intelligent resource-pooling and allocation
- With single pane of glass visualization of multiple datacenters, cloud providers now have visibility into any part of their environment at any time
- vCloud Director integration with Dell EMC Avamar provides self-service data protection through an extended enterprise portal UI and REST API. The integration delivers high performance with a scale-out architecture and low operating costs with industry-leading deduplication.
- vCloud Director helps cloud providers reduce administrative effort and IT support by automating complex workflows with native integration using vRealize Orchestrator, and by leveraging vCloud Director's APIs and programmatic interfaces
- vCloud Director's comprehensive REST API, Python SDK, Container Services Extension and CLI allow third parties to develop and integrate custom-built services into a common platform and expose them to enterprises for consumption, resulting in a richer cloud experience. Increase agility for DevOps and attract enterprise programmers to build and automate custom experiences on their familiar multi-tenant environment. vCloud Director, with its integration with Terraform and Ansible, can also be provisioned as code. vCloud Director ensures the fastest, easiest path to service monetization and revenue realization.

Q. What are the core updates of vCloud Director 9.5?

A. vCloud Director 9.5 features:

- Enhanced networking capabilities, with Cross-VDC Networking and initial integration of NSX-T
- A simplified cloud consumption experience for the tenant, featuring a fully-revamped UI
- Intuitive, fine-grained access control with a redesigned RBAC
- Deep integration with NSX enables Cloud Providers to pre-configure datacenter connections and eliminate L2 VPN manual configurations. Enterprises can stretch networks across Virtual Datacenters in different vCenters across different sites. Higher throughput and lower latency for NFV workloads powered by initial integration of NSX-T.
- vCloud Director 9.5 expands adoption of HTML5 on the provider and enterprise portals including UIs for user management, RBAC management and org management. The easy-to-implement improved UI lowers barriers to adoption and improves user experience for cloud providers and enterprises.

Q. What are the benefits that vCloud Director offers to Enterprises?

A. vCloud Director facilitates:

- **VMware Cloud-as-a-Service:** consume turnkey cloud services, including the full VMware Software-Defined Datacenter, as a service from a trusted VMware Cloud Provider
- **Easy-to-provision and easy-to-consume VMware cloud resources:** experience a single access point for all your virtual datacenters via an intuitive HTML5-based user interface. Enjoy easy, self-service consumption and provisioning of cloud services, including 3rd-party services through a single pane of glass. Leverage simplified workflows, APIs including container services extensions to orchestrate Kubernetes clusters, and programmatic interfaces such as CLI and Python SDK for DevOps agility.
- **Easy workload migration across Virtual Datacenters:** cross-VDC networking enables easier migrations across virtual data centers
- **Fast path to hybrid services:** vCloud Director provides a feature-rich, self-service and modern cloud environment that enterprises know and trust for a full-fledged private or public cloud experience with on-demand elasticity, streamlined on-boarding and hybrid cloud operations

Q. How is vCloud Director packaged and how may it be purchased?

A. vCloud Director licenses are fulfilled through the VMware Cloud Provider Program, with a specific number of licenses available at each contract level. Once enrolled in the program, the product can be downloaded from myVMware.

Q. What are some customer successes for vCloud Director?

A. vCloud Director has been part of many Cloud Provider and customer successes. Please visit vcpp.cloud, or VMware Cloud Provider and Solutions on YouTube for partner and customer testimonials.

Q. How much will vCloud Director cost?

A. vCloud Director is fulfilled through the VMware Cloud Provider Program. Please reach out to your VMware rep for pricing, and to learn how to enroll. vCloud Director is charged by consumption, as metered by VMware vCloud Usage Meter, so as to eliminate shelf-ware and unused license volumes.

Q. Will vCloud Director be supported by VMware on an ongoing basis?

A. Yes. vCloud Director is VMware's flagship Cloud Management Platform for Cloud Providers and is key to VMware's cloud strategy.

Q. Where can I learn more about vCloud Director?

A. Please visit <https://www.vmware.com/products/vcloud-director.html>.

Q. Is VMware vCloud Director compatible with other VMware products? Which ones? Can it be applied to large VMware environments?

A. vCloud Director is fully-compatible with VMware's core software-defined datacenter products, as well as with most other VMware products and offerings. For a compatibility matrix, please visit: https://www.vmware.com/resources/compatibility/sim/interop_matrix.php. vCloud Director also has compatibility with 3rd-party software vendors, such as Trend Micro and Zerto. For a 3rd-party compatibility matrix, please visit: <https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/products/vmw-vcd-isv-interop-matrix.pdf>. vCloud Director is purpose-built for large cloud provider environments and is extensively tested for scale and interoperability. vCloud Director is an integral part of the VMware Validated Designs for Cloud Providers.

