

VMware vCloud Air

Public Cloud Infrastructure as a Service Platform

vCloud Air

Q. What is VMware vCloud Air?

A. VMware vCloud® Air™ is a secure infrastructure-as-a-service (IaaS) and Recovery as a service public cloud owned and operated by VMware, built on the trusted foundation of VMware vSphere®. The service supports both existing workloads as well as new application development, giving IT administrators and architects a common platform to seamlessly extend existing data centers to the cloud by leveraging the same tools and processes they use today.

VMware provides the infrastructure compute layer, OS and application catalogs and various management tools for a full cloud experience. vCloud Air makes it possible for users to migrate VMs and workloads into (or out of) the public cloud with ease, using the same vSphere tools you use today.

vCloud Air is VMware's public cloud, built on the same architecture as vSphere and using the same management tools. Extend your private, on-premises cloud into the public cloud with vCloud Air.

Q. What is a "Hybrid Cloud"?

A. Hybrid clouds are infrastructure services that make it possible for you to seamlessly extend your data center to the public cloud leveraging the same infrastructure, same network, and same management and skills that you use today. They enable you to deploy and run your applications onsite, offsite, or both without compromise, making it unnecessary to change APIs, rewrite applications, or be susceptible to vendor lock-in.

Use Cases

Q. Why should I use vCloud Air?

- A. vCloud Air provides the agility and reliability needed to successfully leverage your existing infrastructure as well as public cloud infrastructure for production and pre-production workloads in many scenarios.
- Expanding data center capacity to meet predicted growth requirements
 - Hosting Existing Enterprise Applications
 - Cost-Effective Disaster Recovery Solution
 - Scalable Test and Development Environment
 - To address global expansion needs and seasonable workloads
 - Shifting from a CapEx to a OpEx IT service procurement model

Service Offerings

Q. What services are offered on vCloud Air?

A. vCloud Air has three primary service offerings, with more expected soon. The foundational Core Compute service is offered in two variants; Dedicated Cloud and Virtual Private Cloud. vCloud Air also offers a Disaster Recovery service.

In addition to the primary services, vCloud Air offers a growing list of optional Add-On features and capabilities that complement the primary services. These add-on features include Data Protection, Direct Connect, Offline Data Transfer, and VMware Horizon® Air™ (Desktop as a Service). Additionally, the Pivotal CF Platform as a Service is offered on vCloud Air.

Q. What is Virtual Private Cloud OnDemand?

A. Virtual Private Cloud OnDemand is the fastest and most cost effective way to get on the VMware's public cloud. OnDemand offers a no contract, pay as you go service that requires no commitment or upfront payment. Virtual Private Cloud OnDemand allows users to sign up with a credit card or Subscription Purchasing Program (SPP) credits and immediately self-provision resources. Customers are billed in arrears for their consumption, with no additional fees. <http://vcloud.vmware.com/service-offering/virtual-private-cloud-ondemand>

Q. What is the Disaster Recovery service?

A. Disaster Recovery provides a reliable public cloud failover environment for your data centers. Using asynchronous replication of your VMs, Disaster Recovery is an easy to prepare for your disaster recovery needs.

Q. What is the difference between the Dedicated Cloud and Virtual Private Cloud IaaS Services?

A. Dedicated Cloud provides your own single-tenant, physically isolated compute resources, giving you full control of how this compute resource is administered. You own and occupy the entire node. This allows you to selectively extend capabilities to internal teams for rapid provisioning of resources. Dedicated Cloud allows creation of multiple VDCs as well as the ability to both over-commit or reserve resources for ultimate resource utilization control. Dedicated Cloud is your own private cloud, in the public cloud, perfect for hosting secure enterprise applications, Extending Existing Applications into the public cloud, Building Test & Dev environments, and hosting all mission-critical production workloads.

Virtual Private Cloud is a logically isolated, multi-tenant IaaS environment. Virtual Private Cloud is a fully capable service for handling seasonal workloads, expanding geographic coverage, and permanently hosting production applications. Offering a smaller capacity footprint than Dedicated Cloud, Virtual Private Cloud is an ideal platform for extending existing applications, hosting variable workloads, Test & Development environments and new Mobile and Web application hosting. Additionally Virtual Private Cloud is available in two purchase options, Subscription and OnDemand.

Locations

Q. Where is vCloud Air sold?

- A. As of Spring 2015, services are currently available in the United States, United Kingdom, Germany, Japan and Australia. Data centers and the vCloud Air Network of service providers are rapidly expanding into many more regions as we speak.

Customers can currently transact with USD, EURO, GBP & Yen.

How To Buy

Q. How is vCloud Air sold?

- A. vCloud Air is sold in two package options:

Subscription – Pre-defined pools of compute, storage and networking. Consistent billing with monthly or annual contract terms, with advantaged pricing for longer subscription terms. Incremental compute, storage, or other add-ons can be added to your existing contract term.

Depending on the type of applications you are looking to deploy, configuration requirements, and contractual terms you require, you can select the appropriate service term that meets your business, IT and development needs. Dedicated Cloud, Virtual Private Cloud and Disaster Recovery are currently offered as Subscription services, each offer a variety of optional add on features from the vCloud Air portfolio.

Purchase directly from VMware or through our ecosystem of VMware certified solution providers. Pay via ELA, PO or Subscription Purchasing Program (SPP) credits.

OnDemand – A pay as you go, no contract consumption model. Virtual Private Cloud OnDemand is a fully a-la-carte multi-tenant public cloud service that is metered hourly and invoiced in arrears for your monthly consumption. Purchase Directly on vcloud.vmware.com or through your VMware sales associate and pay via Credit Card or with Subscription Purchasing Program (SPP) credits.

Q. What are the features that are included with vCloud Air offerings?

- A. All vCloud Air services offer selections for compute, storage, networking and public IP address resources that can be expanded as your needs grow. Additionally, added features such as Data Protection, Direct Connect, and a growing list of data and application services are offered with vCloud Air.

All services include built-in redundancy, high availability, firewalling, load balancing, NAT, DHCP, IPsec VPN, and disk I/O at no additional charge.

Q. Can I purchase individual VMs?

- A. Not exactly. vCloud Air does not directly sell pre-sized VMs, but instead allows you to configure your own VMs in the manner that meets your needs. Virtual Private Cloud OnDemand allows you to configure and pay for a single VM that is scalable and can grow as your needs expand. vCloud Air Subscription Services offers greater flexibility and advanced capabilities including resource over-commitment to get the best return on investment for larger environments with multiple VMs.

How To Use vCloud Air

Q. How do I interact with vCloud Air?

- A. The primary user interface for vCloud Air is the web-based portal at <https://vca.vmware.com>. Additionally, there is a solution within vSphere (5.5 U1 and above) that allows you to directly view and manage your vCloud Air workloads with many advanced features to come. You can access vCloud Air via API, and more information can be found here https://www.vmware.com/support/pubs/vca_pubs.html. vRealize Automation and vRealize Operations now offer capabilities to orchestrate and monitor your vCloud Air workloads. You are also allowed to use VMware® vCloud Director® and several other applications to interact, manipulate and automate your Hybrid Cloud experience.

Q. How do I move my applications, VMs, or vAPPs from my on-premises cloud into vCloud Air?

- A. This is a huge benefit of our Hybrid Cloud. VMs and vAPPs can be easily moved from on to off (and back) using one of three, easy to use options.

Existing VMware customers can use vCloud Connector to connect, view, copy, and operate vSphere-virtualized applications across vSphere-based clouds. Both online and offline migration of applications is available. We have demo videos showing how easy it is to move your workloads to the location of your choice. You choose the location and timing of your move so it best fits your schedule.

If you have large workloads to move, it may be advisable to utilize our Offline Data Transfer offering where we will provide you with an encrypted storage device and express mail your data and we will load it for you.

Lastly, you can move data in OVF format over the internet or using our high-speed connectivity solution, Direct Connect.

Q. Can I bring my existing virtual machines and licensed applications into vCloud Air?

A. Absolutely. One of the key benefits of the hybrid cloud is the ability to bring both your existing virtual machines as well as networking architecture into the hybrid cloud. In addition, there are over 5,000 applications from over 2,200 technology partners supported by the platform.

Q. Can I use vCloud Air if I don't have vSphere or VMware vCloud® Suite?

A. Yes! While vCloud Air is designed to seamlessly connect on-site and off-site data centers, there is no requirement that you have an existing VMware infrastructure in place. The only thing required to begin using the service is a web connection.

Security & Compliance

Q. How Secure is vCloud Air?

A. vCloud Air offers a complete security story including information, network and data security, as well as monitoring options vCloud Air also offers a host of services for Encryption, Intrusion Detection & Prevention, DDoS Mitigation, and advanced web application firewalls from our large list of partners. Find more information at <http://vcloud.vmware.com/service-offering/security-overview>

Q. What certifications exist for vCloud Air?

A. HIPAA, ISO, SOC, CSA and many more. PCI compliance is almost complete. Find more info at <http://vcloud.vmware.com/service-offering/cloud-compliance>.

Q. Is there a Federal (FedRAMP) version of vCloud Air for the public sector?

A. Yes, VMware offers the vCloud Government Service by Carpathia, which has obtained FedRAMP compliance, and is generally available at this time.

Get More Information

Visit the VMware vCloud Air web page at <http://vcloud.vmware.com>. To speak with a VMware specialist on vCloud Air or to purchase VMware products, call 1-877-4VMWARE (outside of North America dial +1-650-427-5000).

