# VMware vCenter Server on IBM Cloud

Deploy VMware environments in hours versus weeks, while maintaining control and minimizing risk.

## About vCenter Server on IBM Cloud

Digital transformation—among other driving factors like mobile, big data and the Internet of Things (IoT)—is powering the rate of innovation. Firms want to capitalize quickly on opportunities where they can use cloud apps to increase revenues. They also realize they need to glean insights from data to improve the end user experience. This environment is pressuring the central IT organization to meet the ever-increasing demands of developers and lines of business quickly, while also maintaining control and minimizing risk.

Typically, from the time a line of business requests a service or application, the IT team needs weeks, or even months, to procure, architect, implement, deploy and test the needed VMware environment on premises. vCenter Server on the IBM Cloud can help cut that time to hours by enabling faster deployment and capacity expansion in the cloud. By capitalizing on the speed and scalability of cloud, IT teams can deliver new services to lines of business more quickly and drive company growth.

The IBM solution is a hosted private cloud that delivers the VMware vSphere stack as a service. The VMware environment is built on top of a minimum of two IBM Cloud bare metal servers and shared file-level storage. It includes the automatic deployment and configuration of an easy-to-manage logical edge firewall that is powered by VMware NSX. The entire environment can be provisioned in a matter of hours, while the elastic bare metal infrastructure provides the rapid scale-out of compute capacity when needed.

IBM Cloud provides you full, native access to the entire VMware stack, including vSphere 6.0 Enterprise Plus edition, NSX Base for Service Providers edition, and the centralized platform for management, vCenter Server. Move your workloads to and from the cloud without changing your apps, tooling, scripts — or investing in new skills.

## Solution benefits

- Enhance security with bare metal servers in a hosted private cloud and with provider-managed encryption of data at rest.
- Accelerate the delivery of IT projects to developers and lines of business by reducing the time it takes for procurement, architecture, implementation, deployment and testing of resources from weeks, or even months, to hours.
- More easily manage workloads in the cloud using familiar vSphere-compatible tooling and scripts while retaining your investments in training.
- Maintain control of the hosted environment with administrative access to the vCenter and ESXi hosts and get visibility into the cloud infrastructure down to the bare metal server.
- Adopt a hybrid cloud strategy by extending your on-premises environment into the IBM Cloud and migrating enterprise applications without the expense or risk of re-architecting and refactoring the apps.

IBM | vmware®

## Primary use cases

vCenter Server on IBM Cloud spans across several key hybrid cloud scenarios where many enterprise customers have needs today.

**Capacity expansion** – Quickly address resource constraints by deploying workloads in the cloud, growing as your needs expand. Take advantage of workload portability and compatible tooling with vCenter Server on IBM Cloud.

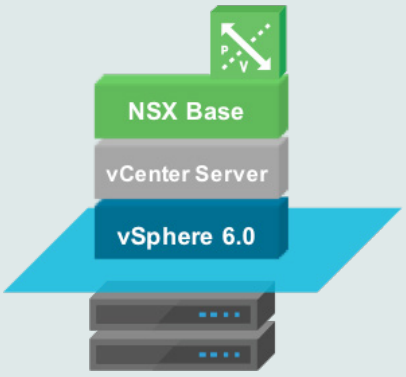
**Data center consolidation** – Eliminate aging or redundant infrastructures by moving workloads into IBM Cloud.

**Data center modernization** – Migrate workloads from vSphere 5.1 or 5.5 on premises into a cloud environment with vSphere 6.0. Leverage technologies like NSX with the easy-to-manage, pre-configured logical edge firewall and upgrade to advanced security functionality like micro-segmentation when it makes sense.

**Disaster recovery** – Use vCenter Server as the target infrastructure for a disaster recovery (DR) solution that is powered by Zerto on IBM Cloud. Whether the production workloads are running on premises or are already running in the IBM Cloud, vCenter Server provides the enhanced security of single-tenant compute with the combination of rapid scale-out performance during a DR event.

## High-level architecture

Customer-managed firewall




Min. 2-node cluster

Shared file-level storage

Please visit the IBM Architecture Center to review the detailed reference architecture.

## Compute sizes & capacity available

### Small

**2-node cluster:**
19 vCPU, 101 GB vRAM

Approximately 16 production workloads*

**Expansion node:**
14 vCPU, 82 GB vRAM

Approximately 13 production workloads*

### Medium

**2-node cluster:**
33 vCPU & 264 GB vRAM

Approximately 42 production workloads*

**Expansion node:**
21 vCPU, 164 GB vRAM

Approximately 26 production workloads*

### Large

**2-node cluster:**
40 vCPU & 590 GB vRAM

Approximately 60 production workloads*

**Expansion node:**
25 vCPU, 327 GB vRAM

Approximately 37 production workloads*

## Shared file-level storage

**File share options:**
1, 2, 4, 8, or 12 TB

**Performance tier options:**
2, 4, or 10** IOPS/GB

**NFS options:**
NFSv4.1, or NFSv3.0

*Production workload assumption = 4 vCPU, 8 GB of vRAM
**10 IOPS/GB max capacity is 4TB

IBM | vmware®

## Pricing

VMware vCenter Server on IBM Cloud is available on a monthly subscription basis, including of all infrastructure, IBM-provided VMware software licenses and access to support.

Prices vary by data center and the latest pricing can be found in the IBM Cloud console at:
www.ibm.com/cloud-computing/solutions/ibm-vmware/console

## How to purchase

Contact your IBM Account Executive or log into the IBM Cloud console to place an order.
www.ibm.com/cloud-computing/solutions/ibm-vmware/console

## Support

Documentation, troubleshooting and support contact information is accessible online at
https://console.ng.bluemix.net/infrastructure/vmware-solutions/dashboard#Support

## Ready to learn more?

Visit www.ibm.com/cloud/vmware or call **1-844-95-CLOUD (Priority code: CLOUD)**

---



IBM | vmware®