IBM Cloud for VMware Solutions

VMware vCenter Server on IBM Cloud

VMware vCenter Server on IBM Cloud 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, shared file-level storage, and 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, and the elastic bare metal infrastructure can scale out the compute capacity rapidly when needed.

IBM Cloud provides you full, native access to the entire VMware stack, including vSphere 6.5 Enterprise Plus edition, NSX for Service Providers edition, and the centralized platform for management, vCenter Server. You can move your workloads to and from the cloud without changing your apps, tooling, scripts, or investing in new skills.

Using advanced automation, vCenter Server on IBM Cloud is deployed based on a standard reference architecture. You can deploy a platform instance in one or more of the available IBM Cloud data centers worldwide.

Platform instances and expansion nodes are priced per-month and they include access to IBM Support and all

Technical specifications
Hardware (options)
Small (Dual Intel Xeon E5-2620 v4 / 16 cores total, 2.10 GHz / 128 GB RAM / 2 disks)
Medium (Dual Intel Xeon E5-2650 v4 / 24 cores total, 2.20 GHz / 256 GB RAM / 2 disks)
Large (Dual Intel Xeon E5-2690 v4 / 28 cores total, 2.60 GHz / 512 GB RAM / 2 disks)
User customized (CPU model and RAM)

Networking
10 Gbps dual public and private network uplinks
Three VLANs: one public and two private
One VXLAN (Virtual eXtensible LAN) with DLR (Distributed Logical Router)
Two secure VMware NSX Edge Services Gateways

VSIs
One VSI for Windows AD and DNS services

Storage
One 2 TB, 4 IOPS/GB file share for management components.
User customized shared file-level storage for workloads with all hardware configurations
Size: 1, 2, 4, 8, or 12 TB
Performance: 2, 4 , or 10 IOPS/GB
Additional user customized vSAN storage option with customized CPU model & RAM hardware configuration
Storage disk: 960 GB SSD (5 DWPD), 1.9 TB SSD (5 DWPD), or 3.8 TB SSD (3 DWPD)
Disk quantity: 2, 4, 6, or 8
One 2 TB shared block storage for backups that can be scaled up to 12 TB (you can choose whether you want

IBM-provided VMware licenses or bring your own licenses (BYOL)
VMware vSphere Enterprise Plus 6.5u1
VMware vCenter Server 6.5
VMware NSX Service Providers Edition (Base, Advanced, or Enterprise) 6.3
Optional license: VMware vSAN (Advanced or Enterprise) 6.6
Support and Services fee (one license per node)

VMware Cloud Foundation on IBM Cloud

VMware Cloud Foundation on IBM Cloud brings together VMware vSphere, vSAN, and NSX into a natively-integrated stack of virtual compute, virtual storage, and virtual networking built on IBM Cloud compute infrastructure dedicated to you. The environment can be operated independently or as a seamless, hybrid extension of your on-premises data center.

Using advanced automation, the Cloud Foundation stack is deployed in a standard, prescriptive manner according to a VMware-validated design reference architecture. Each instance deployment includes native user interface access to the VMware products, VMware and IBM-provided lifecycle management capabilities to automate day 2 operational tasks, and an integrated backup service for the management plane.

You can deploy a base instance in one or more of the available IBM Cloud data centers worldwide. After the based instance is deployed, you can expand or retract virtualized workload capacity on demand using standard capacity nodes. You can link up to eight instances to create a multi-site configuration.

Platform instances and expansion nodes are priced per-

Technical specifications
Hardware (options)
Small (Dual Intel Xeon E5-2650 v4 / 24 cores total, 2.20 GHz / 128 GB RAM)
Large (Dual Intel Xeon E5-2690 v4 / 28 cores total, 2.60 GHz / 512 GB RAM)
User customized (CPU model and RAM)

Networking
10 Gbps dual public and private network uplinks
Three VLANs: one public and two private
Secure VMware NSX Edge Services Gateway

VSIs
One VSI for Windows AD and DNS services

Storage
Small option: Two 1.9 TB SSD capacity disks
Large option: Four 3.8 TB SSD capacity disks
User customized option
Storage disk: 1.9 or 3.8 TB SSD
Disk quantity: 2, 4, 6, or 8
Included in all storage options
Two 1 TB SATA boot disks
Two 960 GB SSD cache disks
One RAID disk controller
One 2 TB shared block storage for backups that can be scaled up to 12 TB (you can choose whether you want the storage by selecting or deselecting the Veeam on IBM Cloud service)

IBM-provided VMware licenses or bring your own licenses (BYOL)
VMware vSphere Enterprise Plus 6.5u1
VMware vCenter Server 6.5
VMware NSX Enterprise 6.3
VMware vSAN (Advanced or Enterprise) 6.6
SDDC Manager licenses
Support and Services fee (one license per node)

VMware vSphere on IBM Cloud

VMware vSphere on IBM Cloud provides you with maximum flexibility to build your own IBM-hosted environment using VMware-compatible hardware and the right set of VMware components that fit your business needs and expertise.

You can design your hosted VMware environment any way you want: from a single ESXi cluster to a robust software-defined data center (SDDC) architecture. The VMware vSphere offering helps you extend your on-premises VMware environment into IBM Cloud.

vSphere on IBM Cloud lets you start as small as a single ESXi server and scale the cluster by rapidly provisioning ESXi on single-tenant bare metal servers. Expand your on-premises data center capacity without sacrificing the enhanced security of dedicated infrastructure. vSphere on IBM Cloud also offers the latest in native VMware encryption options at the VM-level or at the vSAN datastore-level.

Access the IBM-hosted VMware environment with the same level of control and visibility that you have on-premises. With full administration permissions to the VMware stack, you have total control and can continue leveraging your investment in tools, scripts, and training to manage the off-premises environment.

Technical specifications
Hardware
User customized (CPU model and RAM)
CPU: Dual Intel Xeon E5-2600 v4 series (16, 24, or 28 total cores)
RAM: 64 GB, 128 GB, 256 GB, 384 GB, 512 GB, 768 GB, or 1.5 TB

Networking
10 Gbps dual public and private network uplinks
Three VLANs: one public and two private
Optional HA-pair of FortiGate Security Appliance devices

Storage
Optional user customized vSAN configuration
Storage disk: 960 GB SSD (5 DWPD), 1.9 TB SSD (5 DWPD), or 3.8 TB SSD (3 DWPD)
Disk quantity: 2, 4, 6, or 8
One RAID disk controller

IBM-provided VMware licenses or bring your own licenses (BYOL)
VMware vSphere Enterprise Plus 6.0u2 or 6.5u1
Optional VMware components
VMware vCenter Server Standard
VMware NSX (Base, Advanced, or Enterprise)
VMware vSAN (Advanced or Enterprise)
VMware vRealize Automation Enterprise
VMware vRealize Operations Enterprise
VMware vRealize Log Insight
VMware Site Recovery Manager